

PRODUCT SPECIFICATIONS

LED Light Engine Consistent fixture to fixture color within 3-step MacAdam ellipse
• 2700K, 3000K, 3500K, or 4000K color temperatures are available with 80 CRI minimum • 2700K and 3000K also available with 90 CRI minimum.

Modular Optics 45° cutoff to source and source image • Available with 12°, 24°, 35° and 50° FWHM field interchangeable optics • Additional distributions of 20°, 30°, 40°, 45° and 60° FWHM can be achieved with the use of the diffusing films and spot primary optic • Patented (US Patent 8,950,911) auto-adjusting optic holder maximizes luminaire efficiency by maintaining optimal LED optic position • Accommodates up to two (2) additional beam control lenses and/or filters.

Trims Style Self Flanged and Flangeless reflectors utilize precision wound double torsion springs for tight, secure fit to ceiling • Flange is same finish as reflector unless optional painted white flange is specified

LED Driver Seven (7) driver options available to accommodate 120-277V input and multiple control protocols • For a list of compatible dimmers, refer to [ACULUX3-DIM](#) • Power Factor > 0.9 • Field replaceable from below or above ceiling.

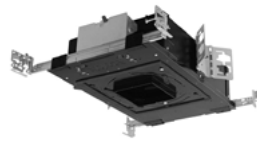
Life Rated for 50,000 hrs at 70% lumen maintenance.

Warranty - 5YR 5-year limited warranty. Complete warranty terms located at: http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx

Codes/Labels UL and cUL listed for through branch wiring, damp locations. Wet location listed with WET option • Meets energy code Air Leakage requirements per ASTM E283 • ENERGY STAR® certified with select trims and beam options • ICAT luminaires with 90CRI option are certified to high efficacy requirements of California T24 JA8-2016 with select CCT, Beam, and Trim options • ICAT housings are rated for direct contact with insulation • AX3SQ D 08LM/12LM is compatible with spray foam insulation with an R-Value of 3.7 per inch or less • Union made.

New Construction Mounting Features patented (US Patent 8,038,113) Pro-VI™ bar hanger system, permitting quick placement of housing with 24" on-center joists or suspended ceilings • All fixtures except for AX3SQ D 20LM ICAT also feature vertically adjustable mounting brackets (butterfly brackets) • Centerline indicators on plaster frame and patented (US Patent 8,277,090) Tru-Line™ Platform featuring +/- 1/2" translation and +/- 45° aperture rotation aids fixture alignment after installation, prior to drywall.

3" LED RECESSED DOWNLIGHT & WALL WASH 800/1200/1500/2000 LUMEN SQUARE APERTURE NEW CONSTRUCTION AX3SQ D



AX3SQ D

AX3SQ D
(20LM ICAT)

Junction Box Rated for 4 No. 12 AWG 90° C through branch circuit conductors and includes (6) 1/2", (1) 3/4", and (4) Non-metallic sheathed cable knock-outs
• Push-in electrical connectors for field connections.

Ceiling Thickness 1/2" – 1 5/8" ceiling.

Specifications subject to change without notice.



A+ Capable options indicated by this color background.

ORDERING INFORMATION

Example: AX3SQ D 20LM 30K 80CRI 24D FPC 120 ICAT 35QA CD SF

HOUSING OPTIONS	Series / Housing Style		Lumens		CCT		CRI		Beam		Driver		Voltage ¹		Options	
	AX3SQ D		New Construction DL/WW													
			08LM	800 Lumens	27K	2700K	80CRI	12D	12° beam	EZ1	elddLED 0-10V, 1% dim	120			CP ⁸	Chicago Plenum
			12LM	1200 Lumens	30K	3000K	90CRI ⁷	24D	24° beam	EZB	elddLED 0-10V, <1% dim	277			ICAT	IC, Air-Tight
			15LM	1500 Lumens	35K	3500K		35D	35° beam	FPC	Phase cut dimming, 5% dim	MVOLT			NLIGHT ²	nLight dimming pack controls
			20LM	2000 Lumens	40K	4000K		50D	50° beam	ECOS2	Lutron Hi-Lume A series 2-wire forward phase, 1% dim	(120-277)				
										ECOS3	Lutron Hi-Lume A series 3-wire with EcoSystem, 1% dim					
										DMXR	DMX, RDM Driver, 1% dim					
										DALI	DALI Driver, 1% dim					

TRIM OPTIONS	Square Trim Style		Reflector Finish		Flange Style / Finish		Environment		Ceiling Installation	
	DOWNLIGHT		BD ⁴ Black Diffuse		SELF-FLANGED		WET Wet location		SELF-FLANGED	
	3SQD	Deep Reflector	CD ⁴	Clear Diffuse	SF ⁴	Flange is same finish as reflector				Ceiling ≤ .875"
	3SQDBV	Bevel	W ⁴	White Paint	WHSF	White painted flange			CTA3SQ/125	Ceiling 0.875" - 1.25"
	3SQDPIN	Pinhole, 1 1/4"	WTD ⁴	Wheat Diffuse	BLSF ³	Black painted flange			CTA3SQ/163	Ceiling 1.25" - 1.625"
	WALL WASH		BS ³ Black Specular		FLANGELESS ⁶				FLANGELESS, GYPSUM	
	3SQWW ⁹	Lensed Wall Wash			FM ⁴	Flangeless			FMA3SQ/087	Ceiling ≤ .875"
					WHFM ³	Flangeless, White trim			FMA3SQ/125	Ceiling 0.875" - 1.25"
					BLFM ³	Flangeless, Black trim			FMA3SQ/163	Ceiling 1.25" - 1.625"
									FLANGELESS, WOOD/STONE/TILE ⁵	
									SFM3SQ/100 (B,W)	Ceiling ≤ 1.00"
									SFM3SQ/138 (B,W)	Ceiling 1.00" - 1.375"
									SFM3SQ/163 (B,W)	Ceiling 1.375" - 1.625"

Ordering Notes

¹ MVOLT standard on EZ1, EZB, ECOS3, DMXR, DALI unless NLIGHT specified. 120 standard for FPC and ECOS2.

² Must specify 120 or 277 volts. Available on EZ1 or EZB only.

³ Available on 3SQDBV, 3SQDPIN only.

⁴ Available for 3SQD, 3SQWW only.

⁵ Specify finish: B=Black, W=White.

⁶ Must specify flangeless ceiling installation (FMA3SQ or SFM3SQ).

⁷ Available on 27K and 30K only.

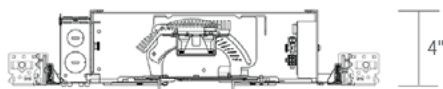
⁸ CP not available with 20LM.

⁹ Must specify 24D with 3WW.

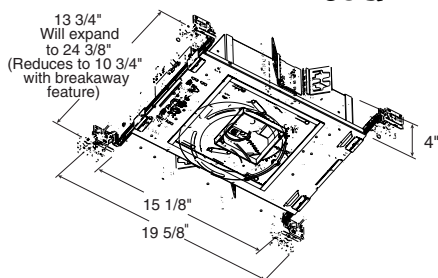
3" LED RECESSED DOWNLIGHT & WALL WASH 800/1200/1500/2000 LUMEN SQUARE APERTURE AX3SQ D

DIMENSIONS

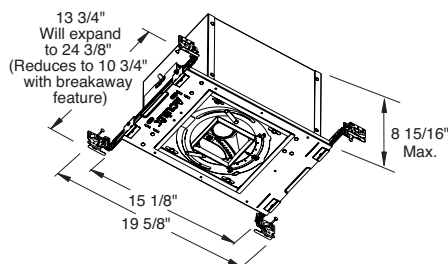
NEW CONSTRUCTION



AX3SQ D



**AX3SQ D
20LM ICAT**



4 1/4" CEILING CUTOUT
(REFER TO INSTRUCTION SHEET FOR
FLANGELESS CEILING CUTOUT)

ACCESSORIES

Cat. #	Description
3AXOPT/12D	12° Spot Optic
3AXOPT/24D	24° Narrow Flood Optic
3AXOPT/35D	35° Flood Optic
3AXOPT/50D	50° Wide Flood Optic
AF3/10	10° Film (Use with Spot Optic)
AF3/20	20° Film (Use with Spot Optic)
AF3/30	30° Film (Use with Spot Optic)
AF3/40	40° Film (Use with Spot Optic)
AF3/50	50° Film (Use with Spot Optic)
AF3/60x1	60°x1° Film (Use with Spot Optic)
CGF 200 MPINK	Med. Pink Color Filter
CGF 200 WRED	Warm Red Color Filter
CGF 200 DLTBLUE	Daylight Blue Color Filter
CGF 200 MBLU	Med. Blue Color Filter
CGF 200 MAMB	Med. Amber Color Filter
CGF 200 MGRN	Med. Green Color Filter
DGF 200 DRED	Red Dichroic Lens
DGF 200 MGRN	Med. Green Dichroic Lens
DGF 200 MBLU	Med. Blue Dichroic Lens
DGF 200 DYEL	Yellow Dichroic Lens
DGF 200 MAGEN	Magenta Dichroic Lens
DGF 200 CYAN	Blue Green Dichroic Lens
DCCF 200 HL4250	Daylight Blue Correction Lens
DIFF 200	Diffuse Spread Lens
SOLITE 200	Uniformity Lens
UVF 200	UV Filter Lens
PRISM 200	Prismatic Lens
LSPREAD 200	Linear Spread Lens
HCLBL 200	Hexcell Louver
HB1	(2) Real Nail 3 Bar Hangers
HB26	(2) 26" C-Channel Bar Hangers
HB50	(2) 50" C-Channel Bar Hangers
LB27	(2) 27" Linear Bar Hangers
EMI20	20W Emergency Lighting Inverter

To order, specify catalog number.

DIFFUSING FILMS

To achieve the desired beam angle (FWHM), specify the following primary LED optic on the luminaire and order the diffusing film from the table below

Desired FWHM	Primary Optic	Film
12°	12D	-
20°	12D	AF3/10
24°	24D	-
30°	12D	AF3/20
35°	35D	-
40°	12D	AF3/30
45°	12D	AF3/40
50°	50D	-
60°	12D	AF3/50
20°x60°	12D	AF3/60x1

ELECTRICAL DATA

Lumen Package	800	1200	1500	2000
Voltage	120 277	120 277	120 277	120 277
Input Power	11.1W 11.3W	17.0W 17.5W	22.3W 22.6W	29.5W 29.3W
Input Current	0.08 0.04	0.13 0.06	0.17 0.08	0.23 0.10
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz
Power Factor	>0.9 >0.9	>0.9 >0.9	>0.9 >0.9	>0.9 >0.9

3" LED RECESSED DOWNLIGHT & WALL WASH 800/1200/1500/2000 LUMEN SQUARE APERTURE AX3SQ D

TRIM SELECTION

DOWNLIGHT TRIMS

3SQD Downlight Reflector



Self-Flanged



Aperture: 3 1/4"



Flangeless



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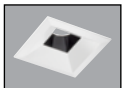


CCT/CRI:	80CRI 27K, 30K, 35K, 40K
Optic:	12D, 24D, 35D, 50D
Trim Finish:	CD, WTD, W



Construction:	ICAT
CCT/CRI:	90CRI 27K, 30K
Optic:	12D, 24D, 35D, 50D
Trim Finish:	BD, CD, WTD, W

3SQDBV Downlight Bevel



Self-Flanged



Aperture: 1 3/4"



Flangeless



*



CCT/CRI:	80CRI 27K, 30K, 35K, 40K
Optic:	12D, 24D, 35D



Construction:	ICAT
CCT/CRI:	90CRI 27K, 30K
Optic:	12D, 24D, 35D

3SQDPIN Downlight Pinhole, 1 1/4"



Self-Flanged



Aperture: 1 1/4"



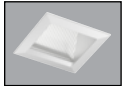
Flangeless



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WALL WASH

3SQWW Lensed Wall Wash



Self-Flanged



Aperture: 3 1/4"



Flangeless



* With WET option

3SQD Square Downlight Reflector



Self-Flanged



Flangeless



3 5/8"

3" LED RECESSED DOWNLIGHT & WALL WASH 800/1200/1500/2000 LUMEN SQUARE DOWNLIGHT REFLECTOR 3SQD Trim

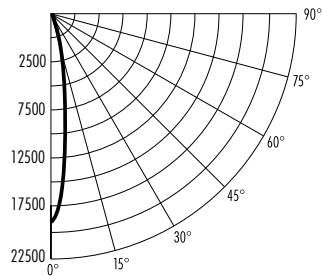
PHOTOMETRICS

SPOT PHOTOMETRIC REPORT

Test Report #: PT04153001
Catalog No: AX3SQ D 20LM 30K 80CRI
12D FPC 120 3SQD CD

Luminaire Spacing Criterion: 0.28

Luminaire LPW: 70



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	0°
Vertical	
0	18802
5	13876
15	2008
25	200
35	32
45	4
55	2
65	1
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	131	122	115
5.0'	84	78	74
6.0'	58	54	51
7.0'	47	44	41
8.0'	37	35	33
9.0'	29	27	25
10.0'	21	20	18

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	1795	97.5
0-40°	1832	99.5
0-60°	1839	99.9
0-90°	1841	100.0

INITIAL FOOTCANDLES

(One Unit, 26.2W, 15.3° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	522.3	1.6'
8	293.8	2.1'
10	188.0	2.7'
12	130.6	3.2'

LUMINANCE (Average cd/m²)

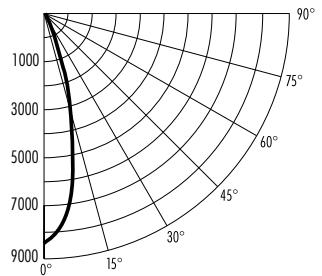
Degrees	Average Luminance
45	876
55	463
65	314
75	228
85	169

NARROW FLOOD PHOTOMETRIC REPORT

Test Report #: PT05150101
Catalog No: AX3SQ D 20LM 30K 80CRI
24D FPC 120 3SQD CD

Luminaire Spacing Criterion: 0.46

Luminaire LPW: 74



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	0°
Vertical	
0	8407
5	7720
15	3232
25	592
35	39
45	4
55	2
65	1
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	136	124	116
5.0'	87	79	74
6.0'	60	55	51
7.0'	49	45	42
8.0'	39	35	33
9.0'	30	27	25
10.0'	22	20	18

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	1861	96.5
0-40°	1918	99.5
0-60°	1926	99.9
0-90°	1927	100.0

INITIAL FOOTCANDLES

(One Unit, 26.2W, 26.5° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	233.5	2.8'
8	131.4	3.8'
10	84.1	4.7'
12	58.4	5.7'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	876
55	489
65	314
75	228
85	169

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT, 80CRI.

LUMEN OUTPUT MULTIPLIERS

Color Temperature	CRI	Multiplier	Lumen Package	Multiplier
2700K	80	0.95	800	0.40
3000K	80	1.00	1200	0.61
3500K	80	1.05	1500	0.75
4000K	80	1.10	2000	1.00
2700K	90	0.83		
3000K	90	0.87		

3SQD Square Downlight Reflector



Self-Flanged



Flangeless



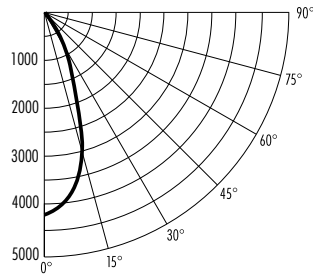
3" LED RECESSED DOWNLIGHT & WALL WASH 800/1200/1500/2000 LUMEN SQUARE DOWNLIGHT REFLECTOR 3SQD Trim (continued)

PHOTOMETRICS

FLOOD PHOTOMETRIC REPORT

Test Report #: PT05150201
Catalog No: AX3SQ D 20LM 30K 80CRI
35D FPC 120 3SQD CD

Luminaire Spacing Criterion: 0.64
Luminaire LPW: 75



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	
Vertical	0°
0	4408
5	4268
15	3083
25	1255
35	150
45	4
55	2
65	1
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES Multiple Units (Square Array, 60'x60' room) Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	137	124	111
5.0'	88	79	71
6.0'	61	55	49
7.0'	49	44	40
8.0'	39	35	32
9.0'	30	27	24
10.0'	22	20	18

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	1805	92.2
0-40°	1941	99.2
0-60°	1956	99.9
0-90°	1957	100.0

INITIAL FOOTCANDLES (One Unit, 26.2W, 39.0° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	122.4	4.2'
8	68.9	5.7'
10	44.1	7.1'
12	30.6	8.5'

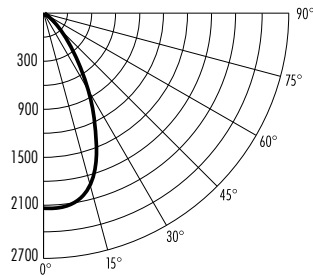
LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	793
55	386
65	279
75	228
85	169

WIDE FLOOD PHOTOMETRIC REPORT

Test Report #: PT05150401
Catalog No: AX3SQ D 20LM 30K 80CRI
50D FPC 120 3SQD CD

Luminaire Spacing Criterion: 0.86
Luminaire LPW: 65



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	
Vertical	0°
0	2162
5	2166
15	1973
25	1204
35	462
45	13
55	6
65	3
75	1
85	0
90	0

AVERAGE INITIAL FOOTCANDLES Multiple Units (Square Array, 60'x60' room) Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	118	103	92
5.0'	76	66	59
6.0'	53	46	41
7.0'	43	37	33
8.0'	34	29	26
9.0'	26	23	20
10.0'	19	17	15

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	1301	76.2
0-40°	1621	95.0
0-60°	1702	99.7
0-90°	1706	100.0

INITIAL FOOTCANDLES (One Unit, 26.2W, 52.9° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	60.1	6.0'
8	33.8	8.0'
10	21.6	9.9'
12	15.0	11.9'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	2629
55	1517
65	977
75	684
85	677

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT, 80CRI.

LUMEN OUTPUT MULTIPLIERS

Color Temperature	CRI	Multiplier	Lumen Package	Multiplier
2700K	80	0.95	800	0.40
3000K	80	1.00	1200	0.61
3500K	80	1.05	1500	0.75
4000K	80	1.10	2000	1.00
2700K	90	0.83		
3000K	90	0.87		

3SQD Square Downlight Reflector



Self-Flanged



Flangeless



3 5/8"

3" LED UNIVERSAL RECESSED DOWNLIGHT & WALL WASH 800/1200/1500/2000 LUMEN SQUARE DOWNLIGHT REFLECTOR 3SQD Trim with WET option

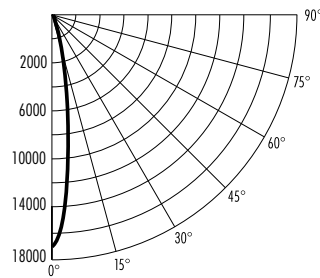
PHOTOMETRICS

SPOT PHOTOMETRIC REPORT

Test Report #: PTO4153004
Catalog No: AX3SQ D 20LM 30K 80CRI
12D FPC 120 3SQD CD WET

Luminaire Spacing Criterion: 0.28

Luminaire LPW: 66



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	
Vertical	0°
0	17295
5	12768
15	1878
25	201
35	36
45	5
55	3
65	1
75	1
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	123	114	108
5.0'	78	73	69
6.0'	54	51	48
7.0'	44	41	39
8.0'	35	32	31
9.0'	27	25	23
10.0'	20	18	17

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	1672	97.1
0-40°	1709	99.3
0-60°	1719	99.9
0-90°	1721	100.0

INITIAL FOOTCANDLES

(One Unit, 26.2W, 15.4° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	480.4	1.6'
8	270.2	2.2'
10	173.0	2.7'
12	120.1	3.2'

LUMINANCE (Average cd/m²)

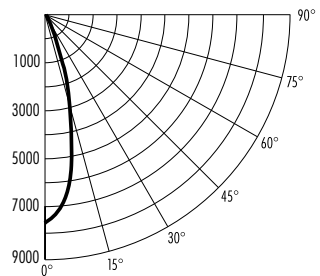
Degrees	Average Luminance
45	1127
55	694
65	524
75	399
85	399

NARROW FLOOD PHOTOMETRIC REPORT

Test Report #: PTO5150104
Catalog No: AX3SQ D 20LM 30K 80CRI
24D FPC 120 3SQD CD WET

Luminaire Spacing Criterion: 0.46

Luminaire LPW: 69



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	
Vertical	0°
0	7760
5	7134
15	3006
25	562
35	45
45	5
55	3
65	2
75	1
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	127	116	108
5.0'	81	74	69
6.0'	57	52	48
7.0'	46	42	39
8.0'	36	33	31
9.0'	28	25	24
10.0'	20	19	17

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	1732	96.0
0-40°	1790	99.3
0-60°	1800	99.9
0-90°	1803	100.0

INITIAL FOOTCANDLES

(One Unit, 26.2W, 26.5° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	215.6	2.8'
8	121.3	3.8'
10	77.6	4.7'
12	53.6	5.7'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	1127
55	694
65	524
75	456
85	339

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT, 80CRI.

LUMEN OUTPUT MULTIPLIERS

Color Temperature	CRI	Multiplier	Lumen Package	Multiplier
2700K	80	0.95	800	0.40
3000K	80	1.00	1200	0.61
3500K	80	1.05	1500	0.75
4000K	80	1.10	2000	1.00
2700K	90	0.83		
3000K	90	0.87		

3SQD Square Downlight Reflector



Self-Flanged



Flangeless



3 5/8"

3" LED RECESSED DOWNLIGHT & WALL WASH 800/1200/1500/2000 LUMEN

SQUARE DOWNLIGHT REFLECTOR

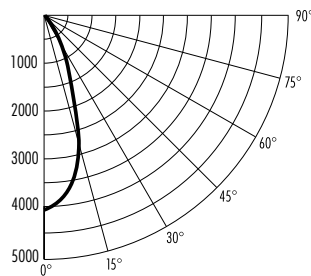
3SQD Trim with WET option (continued)

PHOTOMETRICS

FLOOD PHOTOMETRIC REPORT

Test Report #: PT05150204
Catalog No: AX3SQ D 20LM 30K 80CRI
35D FPC 120 3SQD CD WET

Luminaire Spacing Criterion: 0.66
Luminaire LPW: 70



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	
Vertical	0°
0	4083
5	3949
15	2864
25	1176
35	146
45	6
55	2
65	2
75	1
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60"x60" room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	128	114	104
5.0'	82	73	67
6.0'	57	51	46
7.0'	46	41	37
8.0'	36	33	30
9.0'	28	25	23
10.0'	20	18	17

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	1680	91.8
0-40°	1810	99.0
0-60°	1827	99.9
0-90°	1829	100.0

INITIAL FOOTCANDLES (One Unit, 26.2W, 39.2° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	113.4	4.3'
8	63.8	5.7'
10	40.8	7.1'
12	28.4	8.5'

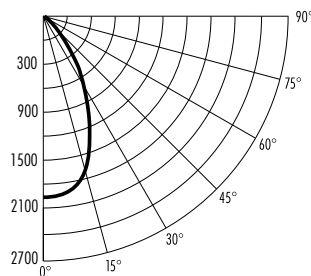
LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	1168
55	566
65	419
75	342
85	339

WIDE FLOOD PHOTOMETRIC REPORT

Test Report #: PT05150404
Catalog No: AX3SQ D 20LM 30K 80CRI
50D FPC 120 3SQD CD WET

Luminaire Spacing Criterion: 0.86
Luminaire LPW: 60



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	
Vertical	0°
0	1957
5	1959
15	1788
25	1093
35	427
45	14
55	7
65	4
75	2
85	1
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60"x60" room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	109	95	84
5.0'	69	61	54
6.0'	48	42	37
7.0'	39	34	30
8.0'	31	27	24
9.0'	24	21	18
10.0'	17	15	13

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	1179	75.3
0-40°	1474	94.2
0-60°	1558	99.6
0-90°	1565	100.0

INITIAL FOOTCANDLES (One Unit, 26.2W, 53.1° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	54.4	6.0'
8	30.6	8.0'
10	19.6	10.0'
12	13.6	12.0'

LUMINANCE (Average cd/m²)

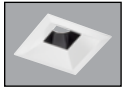
Degrees	Average Luminance
45	2921
55	1877
65	1466
75	1197
85	1016

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT, 80CRI.

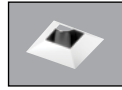
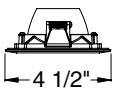
LUMEN OUTPUT MULTIPLIERS

Color Temperature	CRI	Multiplier	Lumen Package	Multiplier
2700K	80	0.95	800	0.40
3000K	80	1.00	1200	0.61
3500K	80	1.05	1500	0.75
4000K	80	1.10	2000	1.00
2700K	90	0.83		
3000K	90	0.87		

3SQDBV Square Downlight Bevel



Self-Flanged



Flangeless



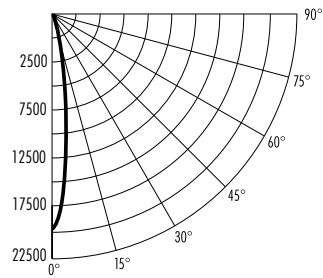
3" LED RECESSED DOWNLIGHT & WALL WASH 800/1200/1500/2000 LUMEN SQUARE DOWNLIGHT BEVEL 3SQDBV Trim

PHOTOMETRICS

SPOT PHOTOMETRIC REPORT

Test Report #: PT04153003
Catalog No: AX3SQ D 20LM 30K 80CRI
12D FPC 120 3SQDBV

Luminaire Spacing Criterion: 0.28
Luminaire LPW: 64



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	
Vertical	0°
0	18731
5	13783
15	1757
25	86
35	7
45	1
55	0
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES Multiple Units (Square Array, 60'x60' room) Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	120	113	108
5.0'	77	72	69
6.0'	53	50	48
7.0'	43	41	39
8.0'	34	32	31
9.0'	26	25	23
10.0'	19	18	17

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	1678	99.3
0-40°	1687	99.9
0-60°	1689	100.0
0-90°	1689	100.0

INITIAL FOOTCANDLES (One Unit, 26.2W, 15.2° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	520.3	1.6'
8	292.7	2.1'
10	187.3	2.7'
12	130.1	3.2'

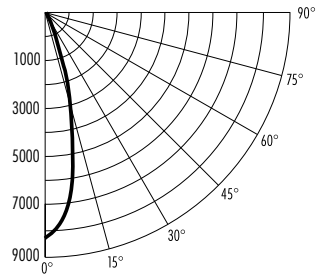
LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	676
55	167
65	113
75	185
85	0

NARROW FLOOD PHOTOMETRIC REPORT

Test Report #: PT05150103
Catalog No: AX3SQ D 20LM 30K 80CRI
24D FPC 120 3SQDBV

Luminaire Spacing Criterion: 0.46
Luminaire LPW: 69



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	
Vertical	0°
0	8301
5	7614
15	3123
25	172
35	23
45	1
55	0
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES Multiple Units (Square Array, 60'x60' room) Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	120	110	104
5.0'	77	70	66
6.0'	53	49	46
7.0'	43	40	37
8.0'	34	31	29
9.0'	26	24	23
10.0'	19	18	17

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	1669	98.5
0-40°	1691	99.9
0-60°	1693	100.0
0-90°	1693	100.0

INITIAL FOOTCANDLES (One Unit, 26.2W, 26.3° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	230.6	2.8'
8	129.7	3.8'
10	83.0	4.7'
12	57.6	5.6'

LUMINANCE (Average cd/m²)

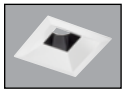
Degrees	Average Luminance
45	608
55	167
65	226
75	0
85	0

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT, 80CRI.

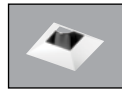
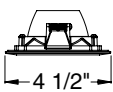
LUMEN OUTPUT MULTIPLIERS

Color Temperature	CRI	Multiplier	Lumen Package	Multiplier
2700K	80	0.95	800	0.40
3000K	80	1.00	1200	0.61
3500K	80	1.05	1500	0.75
4000K	80	1.10	2000	1.00
2700K	90	0.83		
3000K	90	0.87		

3SQDBV Square Downlight Bevel



Self-Flanged



Flangeless



3" LED RECESSED DOWNLIGHT & WALL WASH 800/1200/1500/2000 LUMEN SQUARE DOWNLIGHT BEVEL 3SQDBV Trim (continued)

PHOTOMETRICS

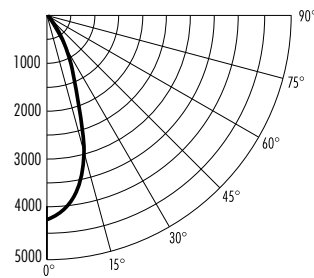
FLOOD PHOTOMETRIC REPORT

Test Report #: PT05150203

Catalog No: AX3SQ D 20LM 30K
80CRI 35D FPC 120
3SQDBV

Luminaire Spacing Criterion: 0.64

Luminaire LPW: 70



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	
Vertical	0°
0	4356
5	4208
15	3018
25	1001
35	124
45	1
55	0
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	128	115	105
5.0'	82	74	67
6.0'	57	51	47
7.0'	46	42	38
8.0'	36	33	30
9.0'	28	25	23
10.0'	20	18	17

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	1713	93.7
0-40°	1820	99.6
0-60°	1827	100.0
0-90°	1827	100.0

INITIAL FOOTCANDLES

(One Unit, 26.2W, 37.9° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	85.8	4.1'
8	48.3	5.5'
10	30.9	6.9'
12	21.4	8.2'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	676
55	167
65	113
75	0
85	0

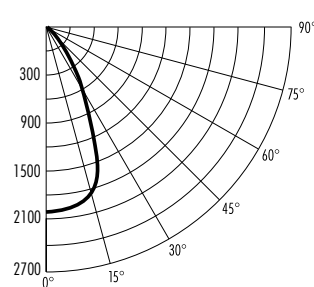
WIDE FLOOD PHOTOMETRIC REPORT

Test Report #: PT05150403

Catalog No: AX3SQ D 20LM 30K 80CRI
50D FPC 120
3SQDBV

Luminaire Spacing Criterion: 0.84

Luminaire LPW: 56



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	
Vertical	0°
0	2025
5	2031
15	1861
25	1009
35	362
45	1
55	0
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	102	90	80
5.0'	65	58	51
6.0'	45	40	36
7.0'	37	33	29
8.0'	29	26	23
9.0'	22	20	17
10.0'	16	14	13

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	1193	80.9
0-40°	1437	97.4
0-60°	1474	100.0
0-90°	1474	100.0

INITIAL FOOTCANDLES

(One Unit, 26.2W, 50.1° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	56.3	5.6'
8	31.6	7.5'
10	20.3	9.3'
12	14.1	11.2'

LUMINANCE (Average cd/m²)

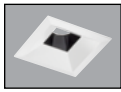
Degrees	Average Luminance
45	744
55	333
65	226
75	0
85	0

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT, 80CRI.

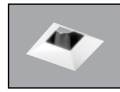
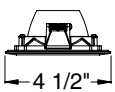
LUMEN OUTPUT MULTIPLIERS

Color Temperature	CRI	Multiplier	Lumen Package	Multiplier
2700K	80	0.95	800	0.40
3000K	80	1.00	1200	0.61
3500K	80	1.05	1500	0.75
4000K	80	1.10	2000	1.00
2700K	90	0.83		
3000K	90	0.87		

3SQDBV Square Downlight Bevel



Self-Flanged



Flangeless



3" LED RECESSED DOWNLIGHT & WALL WASH 800/1200/1500/2000 LUMEN SQUARE DOWNLIGHT BEVEL 3SQDBV Trim with WET option

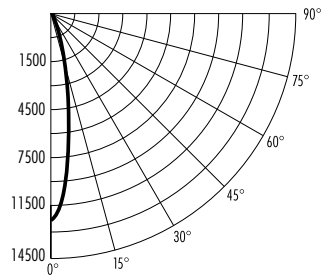
PHOTOMETRICS

SPOT PHOTOMETRIC REPORT

Test Report #: PTO4153006
Catalog No: AX3SQ D 20LM 30K 80CRI
12D FPC 120 3SQDBV WET

Luminaire Spacing Criterion: 0.32

Luminaire LPW: 61



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	12356
5	9851
15	2014
25	183
35	19
45	4
55	1
65	1
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60"x60" room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	115	106	99
5.0'	73	68	64
6.0'	51	47	44
7.0'	41	38	36
8.0'	33	30	28
9.0'	25	23	22
10.0'	18	17	16

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	1577	98.1
0-40°	1600	99.5
0-60°	1606	99.9
0-90°	1608	100.0

INITIAL FOOTCANDLES (One Unit, 26.2W, 18.2° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	343.2	1.9'
8	193.1	2.6'
10	123.6	3.2'
12	85.6	3.8'

LUMINANCE (Average cd/m²)

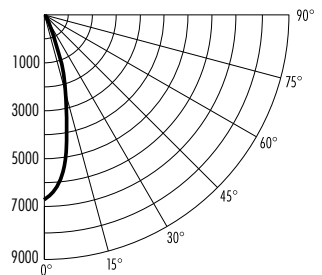
Degrees	Average Luminance
45	2433
55	1167
65	905
75	185
85	548

NARROW FLOOD PHOTOMETRIC REPORT

Test Report #: PTO5150106
Catalog No: AX3SQ D 20LM 30K 80CRI
24D FPC 120 3SQDBV WET

Luminaire Spacing Criterion: 0.46

Luminaire LPW: 61



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	6836
5	6275
15	2693
25	352
35	40
45	6
55	2
65	1
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60"x60" room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	113	103	96
5.0'	73	66	62
6.0'	50	46	43
7.0'	41	37	35
8.0'	32	29	27
9.0'	25	23	21
10.0'	18	17	15

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	1548	96.4
0-40°	1593	99.2
0-60°	1605	99.9
0-90°	1606	100.0

INITIAL FOOTCANDLES (One Unit, 26.2W, 26.7° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	189.9	2.8'
8	106.8	3.8'
10	68.4	4.7'
12	47.5	5.7'

LUMINANCE (Average cd/m²)

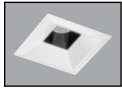
Degrees	Average Luminance
45	3988
55	1250
65	1018
75	369
85	548

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT, 80CRI.

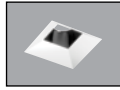
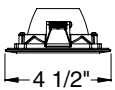
LUMEN OUTPUT MULTIPLIERS

Color Temperature	CRI	Multiplier	Lumen Package	Multiplier
2700K	80	0.95	800	0.40
3000K	80	1.00	1200	0.61
3500K	80	1.05	1500	0.75
4000K	80	1.10	2000	1.00
2700K	90	0.83		
3000K	90	0.87		

3SQDBV Square Downlight Bevel



Self-Flanged



Flangeless



3" LED RECESSED DOWNLIGHT & WALL WASH 800/1200/1500/2000 LUMEN

SQUARE DOWNLIGHT BEVEL

3SQDBV Trim with WET option (continued)

PHOTOMETRICS

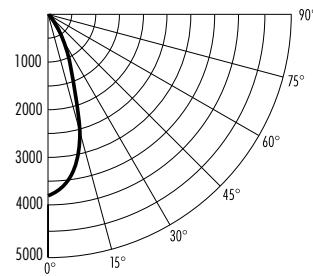
FLOOD PHOTOMETRIC REPORT

Test Report #: PT05150206

Catalog No: AX3SQ D 20LM 30K 80CRI
35D FPC 120 3SQDBV WET

Luminaire Spacing Criterion: 0.64

Luminaire LPW: 65



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	
Vertical	0°
0	3831
5	3702
15	2592
25	971
35	181
45	22
55	3
65	1
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	120	107	97
5.0'	77	68	62
6.0'	53	47	43
7.0'	43	38	35
8.0'	34	30	28
9.0'	26	23	21
10.0'	19	17	16

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	1526	89.3
0-40°	1672	97.8
0-60°	1707	99.9
0-90°	1709	100.0

INITIAL FOOTCANDLES

(One Unit, 26.2W, 38.0° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	106.4	4.1'
8	59.9	5.5'
10	38.3	6.9'
12	26.6	8.3'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	14735
55	2583
65	905
75	369
85	548

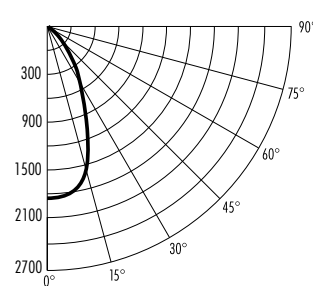
WIDE FLOOD PHOTOMETRIC REPORT

Test Report #: PT05150406

Catalog No: AX3SQ D 20LM 30K 80CRI
50D FPC 120 3SQDBV WET

Luminaire Spacing Criterion: 0.82

Luminaire LPW: 52



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	
Vertical	0°
0	1866
5	1862
15	1631
25	921
35	330
45	53
55	4
65	1
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)

Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	95	83	74
5.0'	61	53	47
6.0'	42	37	33
7.0'	34	30	27
8.0'	27	24	21
9.0'	21	18	16
10.0'	15	13	12

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	1057	76.9
0-40°	1290	93.9
0-60°	1372	99.8
0-90°	1375	100.0

INITIAL FOOTCANDLES

(One Unit, 26.2W, 49.7° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	51.8	5.6'
8	29.2	7.4'
10	18.7	9.3'
12	13.0	11.1'

LUMINANCE (Average cd/m²)

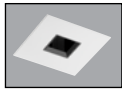
Degrees	Average Luminance
45	35486
55	3416
65	1357
75	554
85	548

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT, 80CRI.

LUMEN OUTPUT MULTIPLIERS

Color Temperature	CRI	Multiplier	Lumen Package	Multiplier
2700K	80	0.95	800	0.40
3000K	80	1.00	1200	0.61
3500K	80	1.05	1500	0.75
4000K	80	1.10	2000	1.00
2700K	90	0.83		
3000K	90	0.87		

3SQDPIN Square Downlight Pinhole



Self-Flanged



Flangeless



3" LED RECESSED DOWNLIGHT & WALL WASH 800/1200/1500/2000 LUMEN SQUARE DOWNLIGHT PINHOLE, 1 1/4" 3SQDPIN Trim

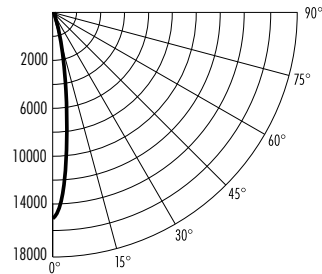
PHOTOMETRICS

SPOT PHOTOMETRIC REPORT

Test Report #: PT04153002
Catalog No: AX3SQ D 20LM 30K 80CRI
12D FPC 120 3SQDPIN

Luminaire Spacing Criterion: 0.26

Luminaire LPW: 44



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	
Vertical	0°
0	15192
5	11100
15	853
25	33
35	1
45	0
55	0
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	82	78	74
5.0'	53	50	48
6.0'	37	35	33
7.0'	30	28	27
8.0'	23	22	21
9.0'	18	17	16
10.0'	13	12	12

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0 - 30°	1154	99.9
0 - 40°	1155	100.0
0 - 60°	1156	100.0
0 - 90°	1156	100.0

INITIAL FOOTCANDLES (One Unit, 26.2W, 14.6° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	422.0	1.5'
8	237.4	2.0'
10	151.9	2.6'
12	105.5	3.1'

LUMINANCE (Average cd/m²)

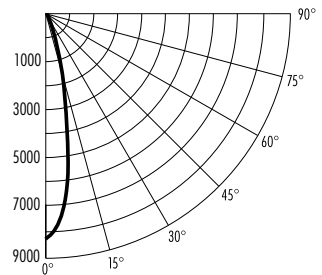
Degrees	Average Luminance
45	304
55	187
65	254
75	415
85	0

NARROW FLOOD PHOTOMETRIC REPORT

Test Report #: PT05150102
Catalog No: AX3SQ D 20LM 30K 80CRI
24D FPC 120 3SQDPIN

Luminaire Spacing Criterion: 0.38

Luminaire LPW: 47



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	
Vertical	0°
0	8273
5	7430
15	1775
25	52
35	1
45	0
55	0
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	88	81	77
5.0'	56	52	49
6.0'	39	36	34
7.0'	32	29	28
8.0'	25	23	22
9.0'	19	18	17
10.0'	14	13	12

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0 - 30°	1226	99.8
0 - 40°	1229	100.0
0 - 60°	1229	100.0
0 - 90°	1229	100.0

INITIAL FOOTCANDLES (One Unit, 26.2W, 22.2° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	229.8	2.4'
8	129.3	3.1'
10	82.7	3.9'
12	57.5	4.7'

LUMINANCE (Average cd/m²)

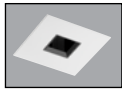
Degrees	Average Luminance
45	304
55	187
65	254
75	0
85	0

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT, 80CRI.

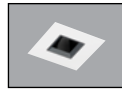
LUMEN OUTPUT MULTIPLIERS

Color Temperature	CRI	Multiplier	Lumen Package	Multiplier
2700K	80	0.95	800	0.40
3000K	80	1.00	1200	0.61
3500K	80	1.05	1500	0.75
4000K	80	1.10	2000	1.00
2700K	90	0.83		
3000K	90	0.87		

3SQDPIN Square Downlight Pinhole



Self-Flanged



Flangeless



3" LED RECESSED DOWNLIGHT & WALL WASH 800/1200/1500/2000 LUMEN SQUARE DOWNLIGHT PINHOLE, 1 1/4" 3SQDPIN Trim (continued)

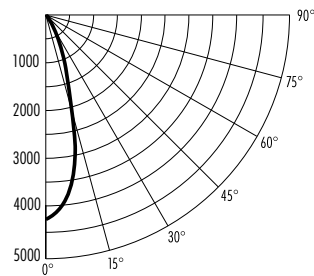
PHOTOMETRICS

FLOOD PHOTOMETRIC REPORT

Test Report #: PT05150202
Catalog No: AX3SQ D 20LM 30K 80CRI
35D FPC 120 3SQDPIN

Luminaire Spacing Criterion: 0.50

Luminaire LPW: 53



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	4333
5	4181
15	2082
25	786
35	2
45	0
55	0
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	92	83	77
5.0'	59	53	49
6.0'	41	37	34
7.0'	33	30	28
8.0'	26	24	22
9.0'	20	18	17
10.0'	15	13	12

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	1357	97.5
0-40°	1391	100.0
0-60°	1392	100.0
0-90°	1392	100.0

INITIAL FOOTCANDLES

(One Unit, 26.2W, 29.4° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	120.4	3.1'
8	67.7	4.2'
10	43.3	5.2'
12	30.1	6.3'

LUMINANCE (Average cd/m²)

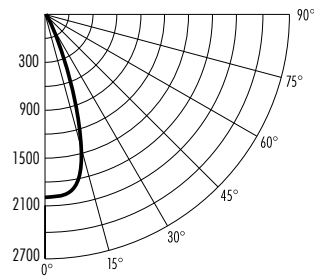
Degrees	Average Luminance
45	608
55	187
65	254
75	415
85	0

WIDE FLOOD PHOTOMETRIC REPORT

Test Report #: PT05150402
Catalog No: AX3SQ D 20LM 30K 80CRI
50D FPC 120 3SQDPIN

Luminaire Spacing Criterion: 0.64

Luminaire LPW: 30



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	2009
5	2008
15	1456
25	185
35	1
45	0
55	0
65	0
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	56	50	46
5.0'	36	32	30
6.0'	25	22	21
7.0'	20	18	17
8.0'	16	14	13
9.0'	12	11	10
10.0'	9	8	7

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	785	99.3
0-40°	790	99.9
0-60°	791	100.0
0-90°	791	100.0

INITIAL FOOTCANDLES

(One Unit, 26.2W, 37.8° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	58.8	4.1'
8	31.4	5.5'
10	20.1	6.8'
12	14.0	8.2'

LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	304
55	187
65	254
75	415
85	0

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT, 80CRI.

LUMEN OUTPUT MULTIPLIERS

Color Temperature	CRI	Multiplier	Lumen Package	Multiplier
2700K	80	0.95	800	0.40
3000K	80	1.00	1200	0.61
3500K	80	1.05	1500	0.75
4000K	80	1.10	2000	1.00
2700K	90	0.83		
3000K	90	0.87		

3SQDPIN Square Downlight Pinhole



Self-Flanged



Flangeless



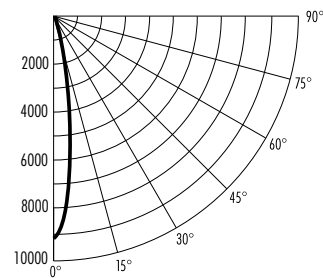
3" LED RECESSED DOWNLIGHT & WALL WASH 800/1200/1500/2000 LUMEN SQUARE DOWNLIGHT PINHOLE, 1 1/4" 3SQDPIN Trim with WET option

PHOTOMETRICS

SPOT PHOTOMETRIC REPORT

Test Report #: PT04153005
Catalog No: AX3SQ D 20LM 30K 80CRI
12D FPC 120 3SQDPIN WET

Luminaire Spacing Criterion: 0.32
Luminaire LPW: 41



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	
Vertical	0°
0	9154
5	7433
15	1477
25	94
35	8
45	2
55	1
65	1
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	77	71	67
5.0'	49	46	43
6.0'	34	32	30
7.0'	28	26	24
8.0'	22	20	19
9.0'	17	15	15
10.0'	12	11	11

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	1063	99.0
0-40°	1070	99.7
0-60°	1072	99.9
0-90°	1074	100.0

INITIAL FOOTCANDLES (One Unit, 26.2W, 17.4° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	254.3	1.8'
8	143.0	2.4'
10	91.5	3.1'
12	63.6	3.7'

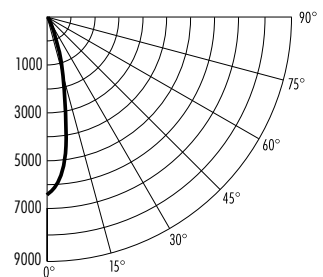
LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	2737
55	1875
65	2036
75	1662
85	0

NARROW FLOOD PHOTOMETRIC REPORT

Test Report #: PT05150105
Catalog No: AX3SQ D 20LM 30K 80CRI
24D FPC 120 3SQDPIN WET

Luminaire Spacing Criterion: 0.40
Luminaire LPW: 44



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	
Vertical	0°
0	6468
5	5745
15	1902
25	186
35	13
45	2
55	1
65	1
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	82	76	71
5.0'	52	49	45
6.0'	36	34	31
7.0'	29	27	25
8.0'	23	22	20
9.0'	18	17	15
10.0'	13	12	11

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0-30°	1135	98.3
0-40°	1149	99.5
0-60°	1153	99.8
0-90°	1155	100.0

INITIAL FOOTCANDLES (One Unit, 26.2W, 23.0° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	179.7	2.4'
8	101.1	3.3'
10	64.7	4.1'
12	44.9	4.9'

LUMINANCE (Average cd/m²)

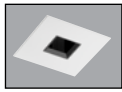
Degrees	Average Luminance
45	3498
55	2062
65	2545
75	1662
85	2468

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT, 80CRI.

LUMEN OUTPUT MULTIPLIERS

Color Temperature	CRI	Multiplier	Lumen Package	Multiplier
2700K	80	0.95	800	0.40
3000K	80	1.00	1200	0.61
3500K	80	1.05	1500	0.75
4000K	80	1.10	2000	1.00
2700K	90	0.83		
3000K	90	0.87		

3SQDPIN Square Downlight Pinhole



Self-Flanged



Flangeless



3" LED RECESSED DOWNLIGHT & WALL WASH 800/1200/1500/2000 LUMEN

SQUARE DOWNLIGHT PINHOLE, 1 1/4"

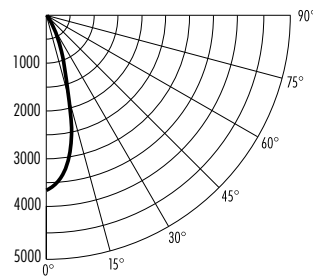
3SQDPIN Trim with WET option (continued)

PHOTOMETRICS

FLOOD PHOTOMETRIC REPORT

Test Report #: PT05150205
Catalog No: AX3SQ D 20LM 30K 80CRI
35D FPC 120 3SQDPIN WET

Luminaire Spacing Criterion: 0.54
Luminaire LPW: 50



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	
Vertical	0°
0	3698
5	3465
15	1985
25	705
35	111
45	9
55	1
65	1
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	92	83	75
5.0'	59	53	48
6.0'	41	37	33
7.0'	33	30	27
8.0'	26	24	21
9.0'	20	18	16
10.0'	15	13	12

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0 - 30°	1204	92.0
0 - 40°	1293	98.8
0 - 60°	1307	99.9
0 - 90°	1309	100.0

INITIAL FOOTCANDLES (One Unit, 26.2W, 31.6° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	102.7	3.4'
8	57.8	4.5'
10	37.0	5.7'
12	25.7	6.8'

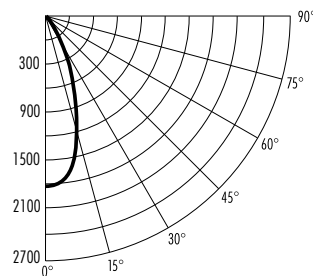
LUMINANCE (Average cd/m²)

Degrees	Average Luminance
45	12927
55	2250
65	1781
75	1246
85	0

WIDE FLOOD PHOTOMETRIC REPORT

Test Report #: PT05150405
Catalog No: AX3SQ D 20LM 30K 80CRI
50D FPC 120 3SQDPIN WET

Luminaire Spacing Criterion: 0.62
Luminaire LPW: 29



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees	
Vertical	0°
0	1835
5	1793
15	1259
25	350
35	33
45	2
55	1
65	1
75	0
85	0
90	0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)
Ceiling 80% Wall 50% Floor 20%

Spacing	RCR1	RCR3	RCR5
4.0'	53	48	44
5.0'	34	31	28
6.0'	24	21	19
7.0'	19	17	16
8.0'	15	14	12
9.0'	12	10	10
10.0'	9	8	7

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0 - 30°	715	94.1
0 - 40°	753	99.1
0 - 60°	759	99.9
0 - 90°	760	100.0

INITIAL FOOTCANDLES (One Unit, 26.2W, 37.4° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
6	51.0	4.1'
8	28.7	5.4'
10	18.4	6.8'
12	12.7	8.1'

LUMINANCE (Average cd/m²)

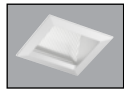
Degrees	Average Luminance
45	3498
55	1500
65	1527
75	1662
85	0

Fixtures tested to IES recommended standard for solid state lighting per LM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field. Photometry is at 3000K CCT, 80CRI.

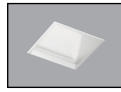
LUMEN OUTPUT MULTIPLIERS

Color Temperature	CRI	Multiplier	Lumen Package	Multiplier
2700K	80	0.95	800	0.40
3000K	80	1.00	1200	0.61
3500K	80	1.05	1500	0.75
4000K	80	1.10	2000	1.00
2700K	90	0.83		
3000K	90	0.87		

3SQWW Square Lensed Wall Wash



Self-Flanged



Flangeless



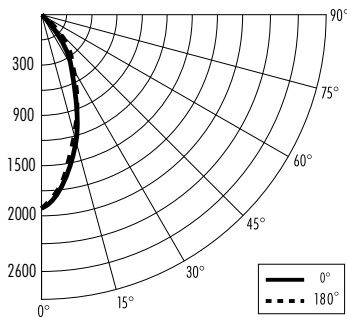
3" LED RECESSED DOWNLIGHT & WALL WASH 800/1200/1500/2000 LUMEN SQUARE LENSED WALL WASH 3SQWW Trim

PHOTOMETRICS

Test Report #: PT05150107
Catalog No: AX3SQ D 20LM 30K
80CRI 24D FPC 120
3SQWW CD

Luminaire Spacing Criterion @ 90°: 0.62

Luminaire: 3-1/4" ICAT LED Downlight with Lensed
Angle Cut Wall Wash Trim



CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0° Wall Wash	180° Downlight
0	1958	1958
5	1887	1828
10	1637	1570
15	1281	1256
20	927	952
25	644	697
30	414	495
35	247	337
40	157	218
45	114	127
50	91	59
55	78	27
60	64	17
65	50	11
70	37	6
75	24	3
80	13	2
85	1	1
90	0	0

ZONAL LUMEN SUMMARY

Zone	Lumens	%Fixture
0 - 30°	889	68.7
0 - 40°	1111	85.8
0 - 60°	1265	97.7
0 - 90°	1294	100.0
90 - 180°	0	0.0
0 - 180°	1294	100.0

LUMINANCE (Average cd/m²)

Degrees	Average 180° Downlight Luminance
45	23824
55	19932
65	17522
75	13679
85	1693

FOOTCANDLES ON WALL FROM MULTIPLE FIXTURES

Fixture Distance to Wall		18"			24"		
Fixture Centers (spacing)		18"	18"	18"	18"	18"	18"
DISTANCE FROM CEILING	1'	21	21	21	18	16	18
	2'	38	38	38	30	29	30
	3'	50	50	50	39	38	39
	4'	48	49	48	38	38	38
	5'	42	42	42	33	33	33
	6'	35	35	35	28	28	28
	7'	30	30	30	24	25	24
	8'	25	26	25	21	21	21
	9'	20	20	20	17	17	17

LUMEN OUTPUT MULTIPLIERS

Color			Lumen	
Temperature	CRI	Multiplier	Package	Multiplier
2700K	80	0.95	800	0.40
3000K	80	1.00	1200	0.61
3500K	80	1.05	1500	0.75
4000K	80	1.10	2000	1.00
2700K	90	0.83		
3000K	90	0.87		