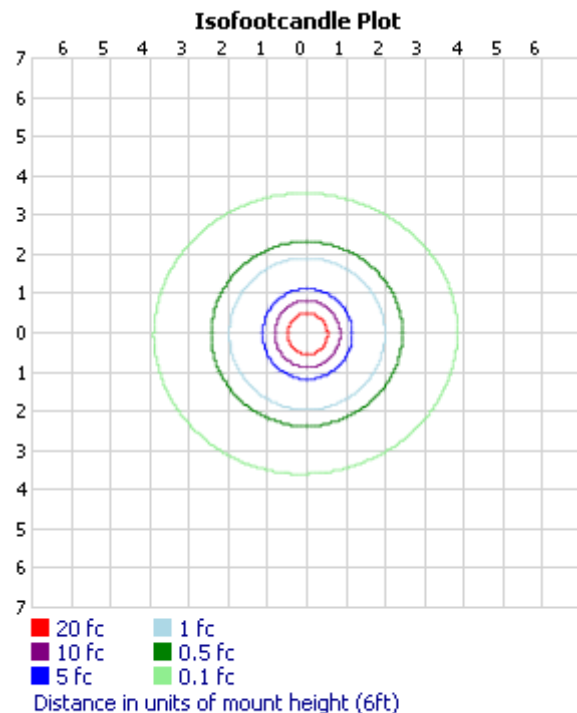
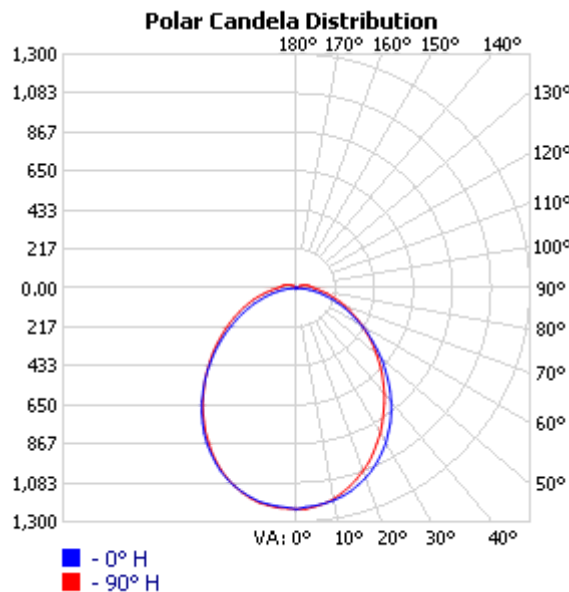


INDOOR PHOTOMETRIC REPORT

CATALOG: ZL1N L48 3000LM FST MVOLT 40K 80 CRI

TEST #: ISF 32596P36
TEST LAB: ACUITY BRANDS LIGHTING, DECATUR LAB
TEST DATE: 10/13/2016
CATALOG: ZL1N L48 3000LM FST MVOLT 40K 80 CRI
DESCRIPTION: ZL1N 48" 3,000 LUMENS FROSTED DIFFUSER MVOLT 4,000 K 80CRI
SERIES: ZL1N
LAMP CATALOG: NICHIA 501-00489-087 35000K 80CRI
LAMP: LED
LAMP OUTPUT: TOTAL LUMINAIRE LUMENS: 3274.9, **ABSOLUTE PHOTOMETRY ***
BALLAST / DRIVER: LED DRIVER
INPUT WATTAGE: 25.15
LUMINOUS OPENING: RECTANGLE (L: 1.22M, W: 0.05M)
CIE CLASS: DIRECT
MAX CD: 1,238.3 AT HORIZONTAL: 225°, VERTICAL: 2.5°
SPACING CRITERION: @ 0 = 1.2 / @ 90 = 1.17



*TEST BASED ON ABSOLUTE PHOTOMETRY WHERE LAMP LUMENS=LUMENS TOTAL.

*CUTOFF CLASSIFICATION AND EFFICIENCY CANNOT BE PROPERLY CALCULATED FOR ABSOLUTE PHOTOMETRY.

VISUAL PHOTOMETRIC TOOL 1.2.46 COPYRIGHT 2018, ACUITY BRANDS LIGHTING.

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ZONAL LUMEN SUMMARY

ZONE	LUMENS	% LUMINAIRE
0-30	930.4	28.4%
0-40	1,488.4	45.4%
0-60	2,497.6	76.3%
60-90	666.9	20.4%
70-100	373.0	11.4%
90-120	102.1	3.1%
0-90	3,164.6	96.6%
90-180	110.3	3.4%
0-180	3,274.9	100%

LUMENS PER ZONE

ZONE	LUMENS	% TOTAL	ZONE	LUMENS	% TOTAL
0-10	116.2	3.5%	90-100	50.8	1.6%
10-20	329.2	10.1%	100-110	33.4	1%
20-30	485.0	14.8%	110-120	17.9	0.5%
30-40	557.9	17.0%	120-130	7.0	0.2%
40-50	545.0	16.6%	130-140	1.3	0%
50-60	464.2	14.2%	140-150	0.000	0%
60-70	344.7	10.5%	150-160	0.000	0%
70-80	216.7	6.6%	160-170	0.0	0%
80-90	105.5	3.2%	170-180	0.0	0%

AVERAGE LUMINANCE (CD/M2)

	0	45	90	135	180	225	270	315	360
0	19454	19454	19454	19454	19454	19454	19454	19454	19454
45	16101	15188	15063	15229	16184	16350	16142	16101	16101
55	14273	13710	13915	13761	14324	14784	14989	14580	14273
65	12428	12220	13122	12497	12359	13469	14303	13331	12428
75	10430	11564	13718	11904	10770	12924	15305	13038	10430
85	9090	15150	22893	16833	9763	17843	25923	18517	9090

COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE: 20%

RCC %:	80				70				50				30				10				0
RW %:	70	50	30	0	70	50	30	0	50	30	20	50	30	20	50	30	20	50	30	20	0
RCR: 0	1.18	1.18	1.18	1.18	1.15	1.15	1.15	.97	1.09	1.09	1.09	1.04	1.04	1.04	.99	.99	.99	.97	.97	.97	.97
1	1.08	1.03	.98	.94	1.05	1.00	.96	.81	.95	.92	.89	.91	.88	.86	.87	.85	.83	.80	.80	.80	.80
2	.98	.90	.83	.77	.95	.88	.81	.68	.84	.78	.74	.80	.75	.72	.76	.73	.69	.67	.67	.67	.67
3	.90	.79	.71	.65	.87	.77	.70	.59	.74	.67	.62	.71	.65	.61	.68	.63	.59	.57	.57	.57	.57
4	.82	.70	.62	.55	.80	.69	.61	.51	.66	.59	.53	.63	.57	.52	.61	.55	.51	.49	.49	.49	.49
5	.76	.63	.54	.48	.73	.62	.53	.44	.59	.52	.46	.57	.51	.46	.55	.49	.45	.43	.43	.43	.43
6	.70	.57	.48	.42	.68	.56	.47	.39	.54	.46	.41	.52	.45	.40	.50	.44	.40	.37	.37	.37	.37
7	.65	.52	.43	.37	.63	.51	.43	.35	.49	.42	.36	.47	.41	.36	.46	.40	.35	.33	.33	.33	.33
8	.61	.47	.39	.33	.59	.46	.39	.32	.45	.38	.33	.43	.37	.32	.42	.36	.32	.30	.30	.30	.30
9	.57	.44	.35	.30	.55	.43	.35	.29	.41	.34	.29	.40	.34	.29	.39	.33	.29	.27	.27	.27	.27
10	.53	.40	.32	.27	.52	.40	.32	.26	.38	.32	.27	.37	.31	.27	.36	.30	.26	.25	.25	.25	.25

INDOOR PHOTOMETRIC REPORT

CATALOG: ZL1N L48 3000LM FST MVOLT 40K 80 CRI



CANDELA TABLE - TYPE C

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5	360
0	1229	1229	1229	1229	1229	1229	1229	1229	1229	1229	1229	1229	1229	1229	1229	1229	1229
5	1214	1218	1227	1229	1218	1225	1222	1218	1218	1227	1238	1236	1225	1231	1223	1218	1214
10	1197	1197	1201	1199	1190	1197	1197	1199	1205	1214	1223	1222	1210	1214	1209	1205	1197
15	1168	1162	1160	1155	1142	1151	1157	1164	1173	1186	1194	1190	1175	1181	1177	1173	1168
20	1123	1114	1105	1094	1081	1092	1103	1114	1129	1146	1147	1138	1127	1133	1129	1129	1123
25	1064	1051	1036	1021	1010	1023	1034	1051	1070	1084	1084	1075	1062	1066	1068	1070	1064
30	994	975	955	942	932	940	955	977	999	1016	1010	1001	984	990	994	995	994
35	912	892	868	856	843	855	866	892	914	932	927	912	901	905	905	912	912
40	817	799	775	764	760	767	775	793	821	840	827	821	812	816	816	821	817
45	719	703	678	675	673	675	680	697	723	736	730	728	721	719	719	725	719
50	621	601	586	588	584	588	588	599	619	636	634	636	628	628	621	623	621
55	517	506	497	499	504	504	499	499	519	536	536	543	543	541	528	525	517
60	423	412	410	417	426	424	412	410	423	436	443	458	460	454	443	430	423
65	332	321	326	343	350	347	334	324	330	347	360	378	382	376	356	339	332
70	247	243	254	272	285	280	261	247	250	265	284	302	311	306	282	260	247
75	171	172	189	209	224	219	195	176	176	189	211	237	250	239	213	189	171
80	106	109	130	158	172	163	141	117	108	124	150	180	191	184	156	126	106
85	50	57	83	111	126	119	93	65	54	70	98	128	143	132	102	72	50
90	4	20	54	83	98	91	61	28	9	26	57	93	108	98	67	30	4
95	0	13	43	70	82	74	50	20	0	15	44	76	89	80	54	20	0
100	0	9	35	59	70	63	41	15	0	11	39	65	78	70	44	17	0
105	0	4	26	50	59	54	33	9	0	7	32	56	67	59	37	11	0
110	0	0	19	39	48	43	26	6	0	2	24	46	56	48	30	6	0
115	0	0	13	30	37	32	17	2	0	0	17	35	44	37	20	2	0
120	0	0	6	20	26	22	9	0	0	0	11	26	32	28	13	0	0
125	0	0	2	11	19	15	4	0	0	0	6	17	22	19	7	0	0
130	0	0	0	6	9	7	0	0	0	0	0	11	15	11	2	0	0
135	0	0	0	0	4	2	0	0	0	0	0	4	9	6	0	0	0
140	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
145	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
150	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
155	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	2	2	0	0	0	0	0	0	0	0
170	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
175	0	0	0	0	0	0	0	2	2	2	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0