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Indoor Distribution Test Report

Relevant Standards
IES LM-79-2008
ANSI C82.77-2002

Prepared For
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Cincinnati, OH 45217

Catalog Number
B4148SS1B3LXXXX
Order Number
10766188
Test Number
1044023

Test Date

2015-04-24

Prepared By

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Approved By

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The results contained in this report pertain only to the tested sample.
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Luminaire Description: White steel housing / reflector, no enclosure
Lamp: 256 white LEDs
Mounting: Pendant
Ballast/Driver: Two Everline D10CC55UNVTZ-C

Luminaire



Luminaire Characteristics

Luminous Length: 48.25 in.
Luminous Width: 12.75 in.

Summary of Results

Total Luminaire Output:	12270 Lumens
Luminaire Efficacy:	103.1 lm/w
Maximum Candela:	4371 Candela

Electrical Data

Test Temperature:	25.4 °C
Voltage:	120.0 VAC
Current:	0.9925 A
Power:	118.9 W
Power Factor:	0.999
Frequency:	60 Hz
Current THD:	4.40 %

Laboratory results may not be representative of field performance
Ballast factors have not been applied



Distribution - Goniophotometer

Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
25.4 °C	120.0 VAC	0.9925 A	118.9 W	0.999	60 Hz	4.40 %

Summary of Results

Spacing Criteria

0-180: 1.29
90-270: 1.29

Total Lumen Output:

12268 Lumens

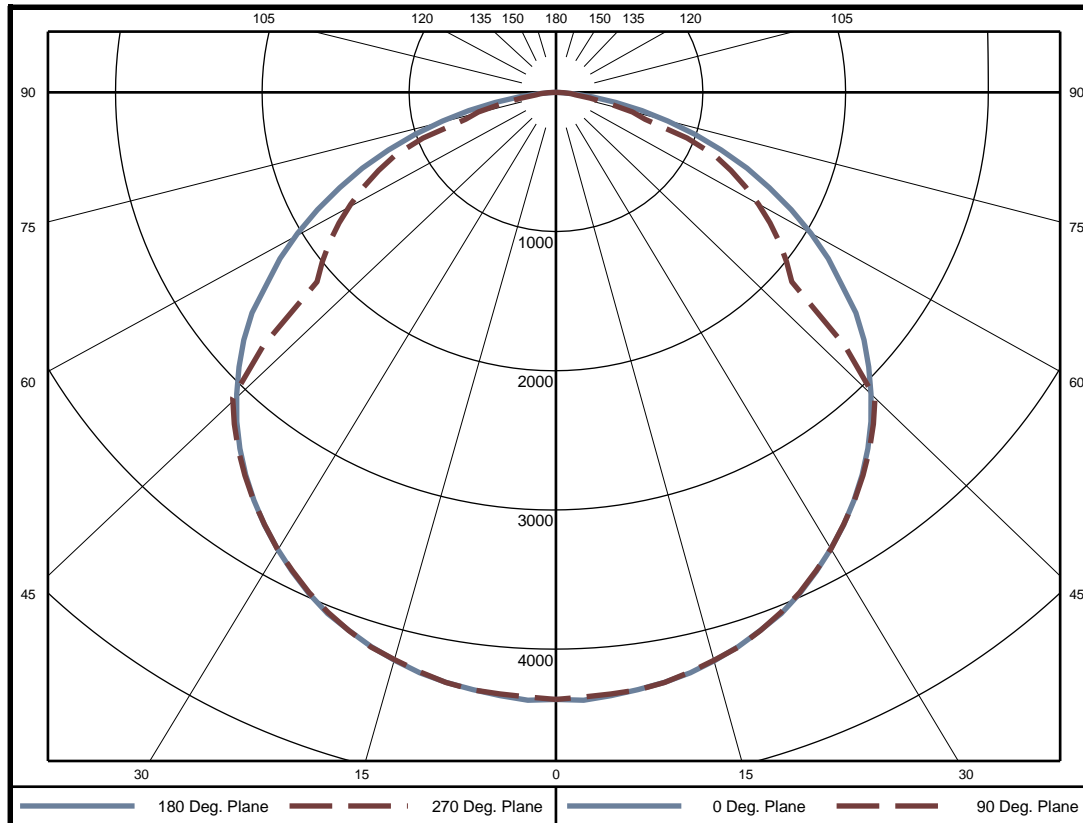
Luminaire Efficacy:

103.1 lm/w

Maximum Candela:

4371 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	110.6	0.9%	60-65	784.1	6.4%	120-125	0.0	0.0%
5-10	309.3	2.5%	65-70	643.7	5.2%	125-130	0.0	0.0%
10-15	505.6	4.1%	70-75	432.6	3.5%	130-135	0.0	0.0%
15-20	687.3	5.6%	75-80	252.0	2.1%	135-140	0.0	0.0%
20-25	848.2	6.9%	80-85	105.0	0.9%	140-145	0.0	0.0%
25-30	982.7	8.0%	85-90	27.2	0.2%	145-150	0.0	0.0%
30-35	1088.1	8.9%	90-95	0.0	0.0%	150-155	0.0	0.0%
35-40	1159.6	9.5%	95-100	0.0	0.0%	155-160	0.0	0.0%
40-45	1194.0	9.7%	100-105	0.0	0.0%	160-165	0.0	0.0%
45-50	1165.3	9.5%	105-110	0.0	0.0%	165-170	0.0	0.0%
50-55	1047.4	8.5%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	925.2	7.5%	115-120	0.0	0.0%	175-180	0.0	0.0%

Zone	Lumens	% of Luminaire
0-40	5691.5	46.4%
0-60	10023.4	81.7%
0-90	12268.1	100.0%
90-180	0.0	0.0%



Candela Tabulation
Horizontal Angle (Degrees)

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5
0	4361	4361	4361	4361	4361	4361	4361	4361	4361	4361	4361	4361	4361	4361	4361	4361
5	4351	4348	4349	4347	4339	4347	4349	4348	4351	4348	4349	4347	4339	4347	4349	4348
10	4304	4302	4303	4303	4305	4303	4303	4302	4304	4302	4303	4303	4305	4303	4303	4302
15	4225	4223	4228	4231	4221	4231	4228	4223	4225	4223	4228	4231	4221	4231	4228	4223
20	4113	4113	4120	4123	4114	4123	4120	4113	4113	4113	4120	4123	4114	4123	4120	4113
25	3972	3971	3980	3978	3965	3978	3980	3971	3972	3971	3980	3978	3965	3978	3980	3971
30	3786	3797	3803	3807	3785	3807	3803	3797	3786	3797	3803	3807	3785	3807	3803	3797
35	3577	3590	3601	3614	3579	3614	3601	3590	3577	3590	3601	3614	3579	3614	3601	3590
40	3340	3349	3373	3367	3354	3367	3373	3349	3340	3349	3373	3367	3354	3367	3373	3349
45	3067	3081	3108	3099	3104	3099	3108	3081	3067	3081	3108	3099	3104	3099	3108	3081
50	2768	2781	2800	2506	2117	2506	2800	2781	2768	2781	2800	2506	2117	2506	2800	2781
55	2396	2451	2475	1873	1876	1873	2475	2451	2396	2451	2475	1873	1876	1873	2475	2451
60	2027	2083	1613	1612	1609	1612	1613	2083	2027	2083	1613	1612	1609	1612	1613	2083
65	1620	1677	1313	1327	1329	1327	1313	1677	1620	1677	1313	1327	1329	1327	1313	1677
70	1210	1262	995	1019	960	1019	995	1262	1210	1262	995	1019	960	1019	995	1262
75	798	673	680	545	545	545	680	673	798	673	680	545	545	545	680	673
80	419	375	317	237	239	237	317	375	419	375	317	237	239	237	317	375
85	122	106	94	107	106	107	94	106	122	106	94	107	106	107	94	106
90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
100	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
105	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
110	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
115	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
120	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
125	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
130	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
135	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
140	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
150	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
160	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
165	0	0	0	0	0	0	0	0	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
175	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
180	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Average Luminance (cd/m²)
Horizontal Angle (Degrees)

	0	45	90
0	10990	10990	10990
45	10930	11070	11060
55	10520	10870	8241
65	9660	7826	7920
75	7769	6618	5309
85	3517	2719	3070



Utilization of Lumens - Zonal Cavity Method

Effective Floor Cavity Reflectance 20%

Ceiling Cavity Reflectance	80				70				50			30			10			0
Wall Reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)	** Values are expressed as Lumens delivered to the task surface **																	
0	14586	14586	14586	14586	14246	14246	14246	14246	13613	13613	13613	13034	13034	13034	12502	12502	12502	12252
1	13401	12847	12350	11903	13070	12570	12119	11709	12051	11680	11340	11575	11273	10994	11136	10894	10668	10416
2	12219	11245	10439	9761	11900	11015	10274	9645	10582	9959	9421	10184	9664	9207	9815	9386	9003	8742
3	11155	9897	8923	8147	10854	9704	8801	8074	9341	8568	7931	9005	8346	7793	8693	8137	7660	7396
4	10218	8777	7722	6916	9939	8615	7630	6868	8309	7452	6773	8025	7283	6681	7761	7121	6591	6329
5	9398	7846	6761	5960	9142	7709	6689	5927	7450	6551	5862	7209	6418	5798	6983	6291	5736	5478
6	8678	7063	5980	5202	8444	6947	5923	5179	6727	5813	5132	6521	5708	5087	6328	5607	5042	4792
7	8043	6402	5338	4592	7832	6303	5292	4575	6114	5204	4541	5937	5118	4507	5772	5036	4474	4233
8	7485	5839	4804	4093	7293	5754	4767	4080	5592	4694	4054	5439	4625	4029	5296	4557	4004	3772
9	6990	5356	4355	3679	6816	5282	4324	3669	5142	4265	3650	5010	4207	3630	4886	4151	3611	3388
10	6550	4939	3974	3332	6393	4875	3949	3324	4753	3899	3309	4638	3850	3294	4529	3803	3279	3065

Cone of Light Tabulation

Mounting Height (Feet)	Footcandles at Nadir	Diameter (Feet)
4.00	273	5.18
6.00	121	7.76
8.00	68.1	10.4
10.0	43.6	12.9
12.0	30.3	15.5
14.0	22.3	18.1
16.0	17.0	20.7

Cone of Light Plot

