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Indoor Distribution Test Report

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

Prepared For
Mercury Lighting
20 Audrey Pl
Fairfield, NJ 07004-3416
United States

Catalog Number
LCK-48-800-35K-U55-U
Order Number
12236553
Test Number
12236553.03

Report Date

2018-04-11

Revised 2018-04-17

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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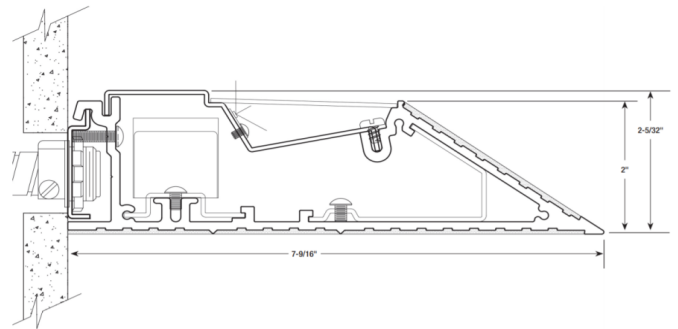


Luminaire Description: Formed aluminum/steel housing, white formed aluminum reflector, clear plastic lens enclosure
Lamp: 160 white LEDs
Mounting: Cove light
Ballast/Driver: One Universal Lighting Technologies D10CC55UNVTZ-C driver

Luminaire Photo



Luminaire Cross-Section



Luminaire Characteristics

Luminous Length: 2.75 in.
Luminous Width: 48.00 in.

Summary of Results

Total Luminaire Output: 3211 Lumens
Luminaire Efficacy: 132.7 lm/w
Maximum Candela: 1359 Candela

Test Conditions

Test Temperature: 24.6 °C
Voltage: 120.1 VAC
Current: 0.2025 A
Power: 24.19 W
Power Factor: 0.995
Frequency: 60 Hz
Current THD: 7.60 %

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



Distribution - Goniophotometer

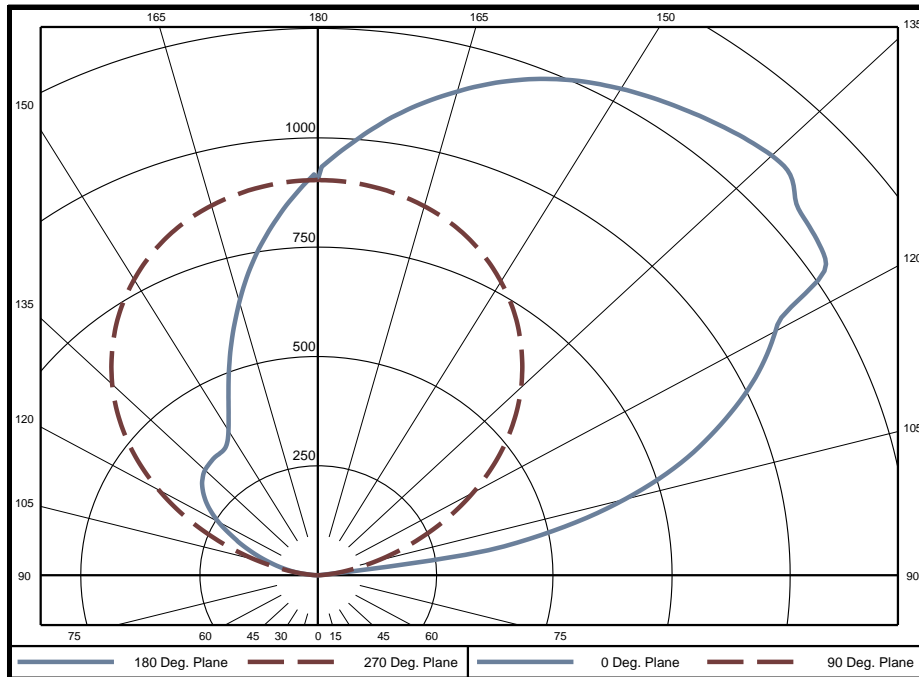
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	120.1 VAC	0.2025 A	24.19 W	0.995	60 Hz	7.60 %

Summary of Results

Total Lumen Output:	3211 Lumens
Luminaire Efficacy:	132.7 lm/w
Maximum Candela:	1359 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0	0.0%	60-65	0	0.0%	120-125	285.3	8.9%
5-10	0	0.0%	65-70	0	0.0%	125-130	290.5	9.0%
10-15	0	0.0%	70-75	0	0.0%	130-135	285.5	8.9%
15-20	0	0.0%	75-80	0	0.0%	135-140	271.4	8.5%
20-25	0	0.0%	80-85	0	0.0%	140-145	252.2	7.9%
25-30	0	0.0%	85-90	0	0.0%	145-150	229.9	7.2%
30-35	0	0.0%	90-95	10.6	0.3%	150-155	204.7	6.4%
35-40	0	0.0%	95-100	64.3	2.0%	155-160	175.7	5.5%
40-45	0	0.0%	100-105	131.8	4.1%	160-165	142.3	4.4%
45-50	0	0.0%	105-110	185.2	5.8%	165-170	104.8	3.3%
50-55	0	0.0%	110-115	229.3	7.1%	170-175	64.2	2.0%
55-60	0	0.0%	115-120	262.2	8.2%	175-180	21.6	0.7%

Zone	Lumens	% of Luminaire
0-40	0	0.0%
0-60	0	0.0%
0-90	0	0.0%
90-180	3212	100.0%



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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90	1	2	3	6	3	2	2	1	1	1	2	2	3	6	3	2
95	8	129	121	94	22	15	17	15	19	15	17	15	22	94	121	129
100	427	463	367	221	69	45	47	49	59	49	47	45	69	221	367	463
105	673	677	542	420	137	91	86	87	98	87	86	91	137	420	542	677
110	858	842	698	572	216	136	135	130	142	130	135	136	216	572	698	842
115	1003	973	925	661	302	170	189	179	190	179	189	170	302	661	925	973
120	1118	1153	1020	736	387	199	234	231	243	231	234	199	387	736	1020	1153
125	1300	1230	1093	801	470	239	267	276	288	276	267	239	470	801	1093	1230
130	1321	1288	1119	851	546	297	286	306	320	306	286	297	546	851	1119	1288
135	1357	1292	1134	891	615	367	299	324	339	324	299	367	615	891	1134	1292
140	1337	1281	1141	922	676	442	322	332	346	332	322	442	676	922	1141	1281
145	1311	1266	1141	946	732	517	371	339	349	339	371	517	732	946	1141	1266
150	1284	1239	1131	964	779	591	446	376	379	376	446	591	779	964	1131	1239
155	1249	1201	1111	974	819	661	529	449	448	449	529	661	819	974	1111	1201
160	1203	1156	1083	976	851	724	612	540	543	540	612	724	851	976	1083	1156
165	1145	1104	1049	970	874	778	693	636	645	636	693	778	874	970	1049	1104
170	1080	1043	1007	955	890	825	769	730	747	730	769	825	890	955	1007	1043
175	1004	973	958	934	900	867	838	819	839	819	838	867	900	934	958	973
180	904	904	904	904	904	904	904	904	904	904	904	904	904	904	904	904

Vertical Angle (Degrees)



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	3058	3058	3058	3058	2614	2614	2614	2614	1784	1784	1784	1025	1025	1025	328	328	328	0
1	2781	2652	2537	2434	2371	2269	2178	2095	1552	1498	1449	893	867	842	286	279	272	0
2	2529	2312	2133	1982	2153	1981	1836	1714	1357	1270	1195	783	739	701	251	239	228	0
3	2303	2028	1814	1644	1959	1738	1565	1426	1194	1087	1000	689	635	589	221	206	193	0
4	2101	1786	1556	1380	1786	1533	1344	1198	1054	937	844	610	549	499	196	179	164	0
5	1920	1580	1343	1168	1632	1357	1162	1016	935	812	717	542	477	426	174	156	140	0
6	1760	1407	1169	999	1496	1209	1013	870	834	709	616	484	417	366	156	136	121	0
7	1619	1259	1026	863	1377	1083	889	752	748	624	533	435	367	317	141	120	105	0
8	1494	1133	906	750	1271	975	786	654	675	552	464	393	325	276	127	107	91	0
9	1384	1024	805	656	1178	883	698	572	611	491	406	356	290	242	115	95	80	0
10	1285	930	718	577	1094	802	623	503	556	439	357	324	259	213	105	85	71	0