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Indoor Distribution Test Report

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

Prepared For
Mercury Lighting
Stephen Bambush
20 Audrey Pl
Fairfield, NJ 07004-3416

Catalog Number
LR35-24G-5600-35K-9A-U55-UNI-XXXX
Order Number
10857788
Test Number
1124773

Test Date

2015-07-08

Prepared By

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Approved By

Kyle Spaziani, Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: White steel housing, prismatic plastic lens enclosure
Lamp: 220 white LEDs
Mounting: Recessed
Ballast/Driver: One Universal Everline D10CC55UNVTZ-C (1050mA)

Luminaire



Luminaire Characteristics

Luminous Length: 45.75 in.
Luminous Width: 21.75 in.

Summary of Results

Total Luminaire Output: 5617 Lumens
Luminaire Efficacy: 92.9 lm/w
Maximum Candela: 2520 Candela

Electrical Data

Test Temperature: 25.0 °C
Voltage: 120.0 VAC
Current: 0.5045 A
Power: 60.46 W
Power Factor: 0.999
Frequency: 60 Hz
Current THD: 4.10 %

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
25.0 °C	120.0 VAC	0.5045 A	60.46 W	0.999	60 Hz	4.10 %

Summary of Results

Spacing Criteria

0-180: 1.19
90-270: 1.19

Total Lumen Output:

5617 Lumens

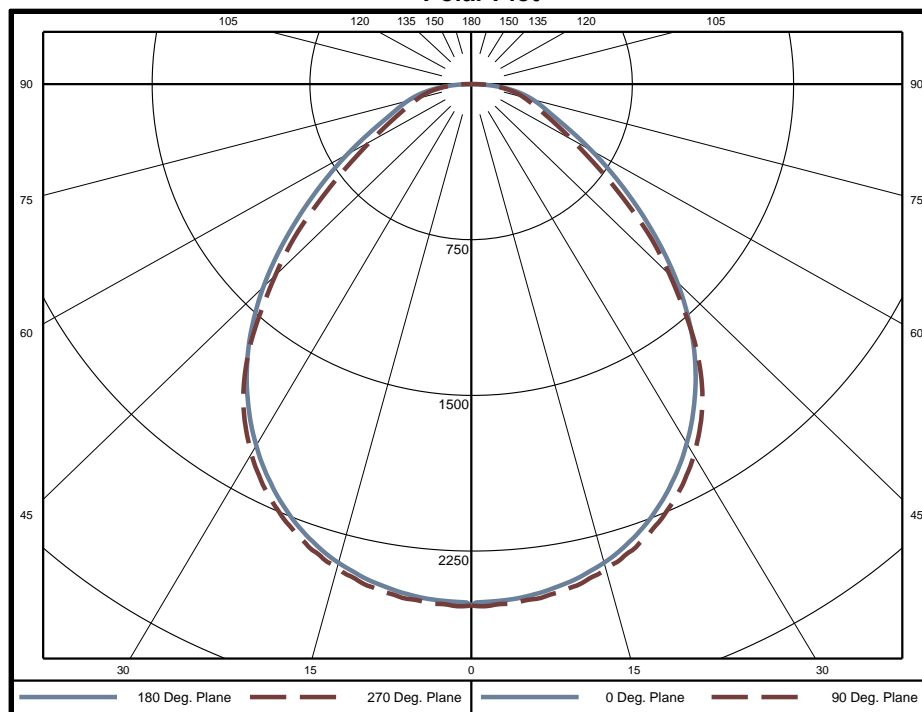
Luminaire Efficacy:

92.9 lm/w

Maximum Candela:

2520 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	60.0	1.1%	60-65	237.3	4.2%	120-125	0	0.0%
5-10	177.8	3.2%	65-70	178.3	3.2%	125-130	0	0.0%
10-15	289.6	5.2%	70-75	141.5	2.5%	130-135	0	0.0%
15-20	389.9	6.9%	75-80	115.3	2.1%	135-140	0	0.0%
20-25	473.8	8.4%	80-85	82.1	1.5%	140-145	0	0.0%
25-30	535.8	9.5%	85-90	34.8	0.6%	145-150	0	0.0%
30-35	571.5	10.2%	90-95	0	0.0%	150-155	0	0.0%
35-40	575.9	10.3%	95-100	0	0.0%	155-160	0	0.0%
40-45	543.9	9.7%	100-105	0	0.0%	160-165	0	0.0%
45-50	485.3	8.6%	105-110	0	0.0%	165-170	0	0.0%
50-55	406.4	7.2%	110-115	0	0.0%	170-175	0	0.0%
55-60	318.2	5.7%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	3074	54.7%
0-60	4828	86.0%
0-90	5617	100.0%
90-180	0	0.0%



Candela Tabulation
Horizontal Angle (Degrees)

Vertical 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	2512	2512	2512	2512	2512	2512	2512	2512	2512	2512	2512	2512	2512	2512	2512	2512
	5	2487	2500	2506	2510	2506	2510	2506	2500	2487	2500	2506	2510	2506	2510	2506	2500
	10	2449	2465	2476	2478	2478	2478	2476	2465	2449	2465	2476	2478	2478	2478	2476	2465
	15	2388	2401	2415	2420	2418	2420	2415	2401	2388	2401	2415	2420	2418	2420	2415	2401
	20	2294	2308	2323	2334	2337	2334	2323	2308	2294	2308	2323	2334	2337	2334	2323	2308
	25	2166	2178	2198	2213	2223	2213	2198	2178	2166	2178	2198	2213	2223	2213	2198	2178
	30	2007	2015	2033	2058	2072	2058	2033	2015	2007	2015	2033	2058	2072	2058	2033	2015
	35	1821	1822	1840	1859	1878	1859	1840	1822	1821	1822	1840	1859	1878	1859	1840	1822
	40	1608	1601	1600	1606	1619	1606	1600	1601	1608	1601	1600	1606	1619	1606	1600	1601
	45	1364	1348	1331	1326	1315	1326	1331	1348	1364	1348	1331	1326	1315	1326	1331	1348
	50	1104	1095	1071	1043	1026	1043	1071	1095	1104	1095	1071	1043	1026	1043	1071	1095
	55	863	857	806	760	751	760	806	857	863	857	806	760	751	760	806	857
	60	657	627	554	533	549	533	554	627	657	627	554	533	549	533	554	627
	65	489	443	369	375	414	375	369	443	489	443	369	375	414	375	369	443
	70	379	329	259	279	322	279	259	329	379	329	259	279	322	279	259	329
	75	303	258	211	220	257	220	211	258	303	258	211	220	257	220	211	258
80	220	200	173	169	192	169	173	200	220	200	173	169	192	169	173	200	
85	114	123	101	107	109	107	101	123	114	123	101	107	109	107	101	123	
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)

Vertical Angle (Degrees)	0	45	90	
	0	3912	3912	3912
	45	3006	2931	2896
	55	2344	2188	2040
	65	1804	1361	1526
	75	1823	1267	1544
	85	2044	1805	1944



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	6687	6687	6687	6687	6532	6532	6532	6532	6241	6241	6241	5976	5976	5976	5732	5732	5732	5617
1	6166	5921	5702	5504	6015	5794	5595	5415	5558	5394	5244	5340	5207	5084	5140	5034	4934	4820
2	5670	5249	4900	4607	5527	5144	4824	4553	4949	4680	4448	4768	4545	4348	4601	4417	4253	4137
3	5219	4678	4259	3925	5086	4591	4203	3891	4428	4096	3823	4277	3995	3758	4137	3899	3695	3580
4	4817	4197	3742	3395	4694	4124	3700	3372	3987	3619	3327	3860	3541	3283	3742	3468	3241	3127
5	4459	3788	3320	2974	4346	3727	3287	2958	3612	3224	2927	3504	3164	2897	3404	3106	2867	2755
6	4139	3440	2970	2633	4036	3388	2944	2622	3290	2894	2600	3198	2846	2578	3112	2800	2557	2448
7	3854	3140	2677	2353	3760	3096	2656	2345	3012	2616	2328	2933	2577	2312	2859	2540	2297	2191
8	3599	2881	2429	2119	3515	2843	2412	2113	2771	2380	2101	2703	2348	2089	2639	2317	2077	1975
9	3372	2656	2218	1922	3295	2623	2204	1917	2561	2177	1908	2502	2151	1899	2447	2125	1889	1792
10	3168	2460	2036	1754	3098	2431	2024	1750	2377	2002	1743	2326	1980	1736	2277	1959	1729	1635

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	157	4.82
6.00	69.8	7.23
8.00	39.2	9.64
10.0	25.1	12.0
12.0	17.4	14.5
14.0	12.8	16.9
16.0	9.81	19.3

Cone of Light Plot

