



UL Verification Services Inc.
7036 Snowdrift Road
Allentown, PA 18106
610-774-1300



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-8400-35K-HTA-U80-UNI-XXXX
Order Number
10857788
Test Number
1124776

Test Date

2015-07-09

Prepared By

Derek Smarr, Technician

Approved By

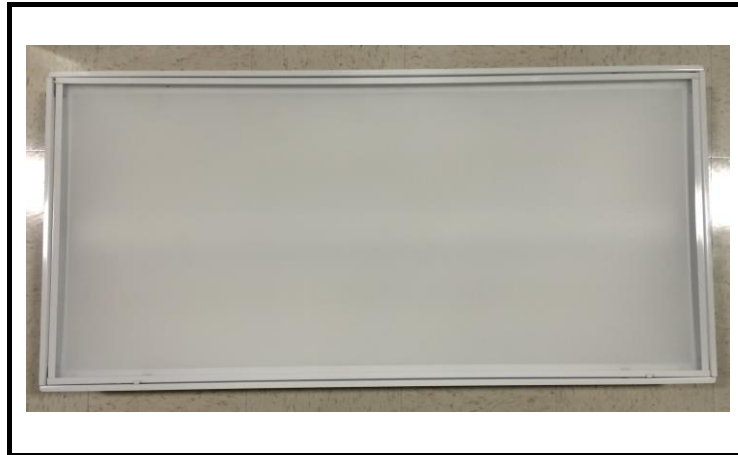
Kyle Spaziani, Project Handler

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Luminaire Description: White steel housing, frosted plastic lens enclosure
Lamp: 220 white LEDs
Mounting: Recessed
Ballast/Driver: One Universal Everline D10CC55UNVTZ-C (1808 mA)

Luminaire



Luminaire Characteristics

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

Summary of Results

Total Luminaire Output:	8367 Lumens
Luminaire Efficacy:	95 lm/w
Maximum Candela:	3167 Candela

Electrical Data

Test Temperature:	24.7 °C
Voltage:	120.0 VAC
Current:	0.7346 A
Power:	88.05 W
Power Factor:	0.999
Frequency:	60 Hz
Current THD:	4.82 %

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
24.7 °C	120.0 VAC	0.7346 A	88.05 W	0.999	60 Hz	4.82 %

Summary of Results

Spacing Criteria

0-180: 1.20
90-270: 1.20

Total Lumen Output:

8367 Lumens

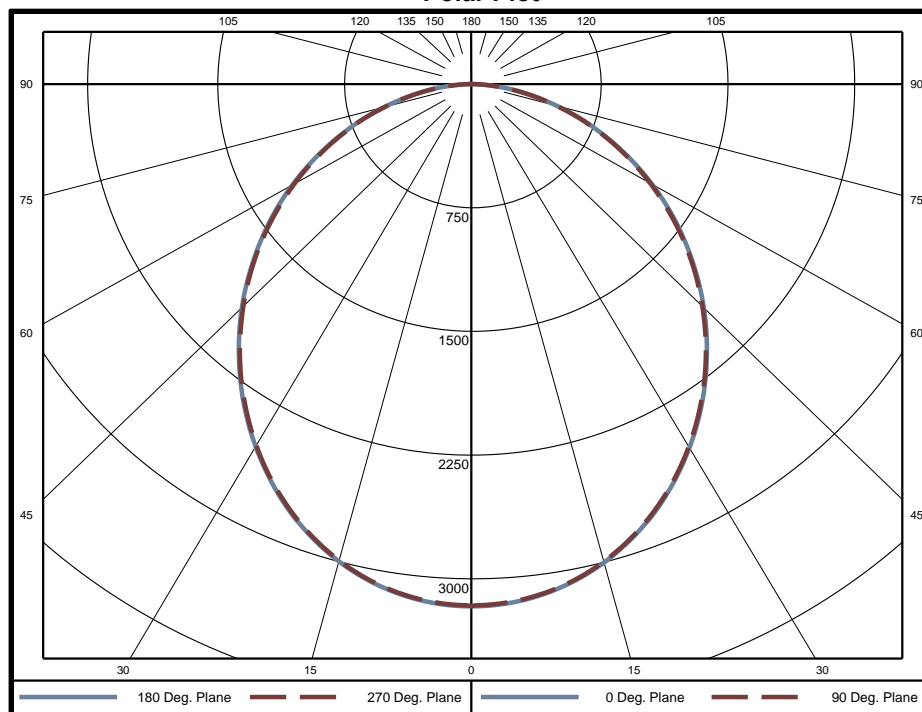
Luminaire Efficacy:

95.0 lm/w

Maximum Candela:

3167 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	75.5	0.9%	60-65	537.0	6.4%	120-125	0	0.0%
5-10	223.2	2.7%	65-70	439.9	5.3%	125-130	0	0.0%
10-15	361.6	4.3%	70-75	335.7	4.0%	130-135	0	0.0%
15-20	484.8	5.8%	75-80	227.0	2.7%	135-140	0	0.0%
20-25	588.1	7.0%	80-85	123.9	1.5%	140-145	0	0.0%
25-30	667.9	8.0%	85-90	36.4	0.4%	145-150	0	0.0%
30-35	722.5	8.6%	90-95	0	0.0%	150-155	0	0.0%
35-40	751.0	9.0%	95-100	0	0.0%	155-160	0	0.0%
40-45	753.7	9.0%	100-105	0	0.0%	160-165	0	0.0%
45-50	731.7	8.7%	105-110	0	0.0%	165-170	0	0.0%
50-55	686.7	8.2%	110-115	0	0.0%	170-175	0	0.0%
55-60	620.5	7.4%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	3875	46.3%
0-60	6667	79.7%
0-90	8367	100.0%
90-180	0	0.0%



Candela Tabulation
Horizontal Angle (Degrees)

Vertical Angle (Degrees)	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	3166	3166	3166	3166	3166	3166	3166	3166	3166	3166	3166	3166	3166	3166	3166	3166
5	3148	3148	3149	3146	3143	3146	3149	3148	3148	3148	3149	3146	3143	3146	3149	3148
10	3093	3093	3094	3092	3088	3092	3094	3093	3093	3093	3094	3092	3088	3092	3094	3093
15	3004	3004	3004	3001	2998	3001	3004	3004	3004	3004	3004	3001	2998	3001	3004	3004
20	2881	2881	2880	2879	2875	2879	2880	2881	2881	2881	2880	2879	2875	2879	2880	2881
25	2730	2730	2728	2726	2722	2726	2728	2730	2730	2730	2728	2726	2722	2726	2728	2730
30	2554	2554	2552	2550	2546	2550	2552	2554	2554	2554	2552	2550	2546	2550	2552	2554
35	2359	2360	2356	2355	2350	2355	2356	2360	2359	2360	2356	2355	2350	2355	2356	2360
40	2149	2150	2147	2145	2140	2145	2147	2150	2149	2150	2147	2145	2140	2145	2147	2150
45	1930	1930	1926	1924	1918	1924	1926	1930	1930	1930	1926	1924	1918	1924	1926	1930
50	1701	1701	1697	1695	1690	1695	1697	1701	1701	1701	1697	1695	1690	1695	1697	1701
55	1469	1467	1462	1459	1454	1459	1462	1467	1469	1467	1462	1459	1454	1459	1462	1467
60	1232	1229	1223	1220	1218	1220	1223	1229	1232	1229	1223	1220	1218	1220	1223	1229
65	992	991	987	984	981	984	987	991	992	991	987	984	981	984	987	991
70	760	756	756	752	752	752	756	756	760	756	756	752	752	752	756	756
75	532	534	533	528	528	528	533	534	532	534	533	528	528	528	533	534
80	324	325	321	320	320	320	321	325	324	325	321	320	320	320	321	325
85	139	139	138	139	139	139	138	139	139	139	138	139	139	139	138	139
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)	Horizontal Angle (Degrees)		
	0	45	90
0	4931	4931	4931
45	4253	4242	4226
55	3989	3971	3950
65	3657	3636	3616
75	3200	3206	3178
85	2483	2473	2492



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	9961	9961	9961	9961	9729	9729	9729	9729	9297	9297	9297	8901	8901	8901	8538	8538	8538	8367
1	9107	8710	8354	8034	8879	8520	8196	7903	8164	7897	7653	7837	7620	7418	7536	7361	7197	7022
2	8291	7606	7039	6562	8071	7448	6926	6483	7151	6711	6332	6877	6510	6187	6623	6320	6049	5868
3	7567	6691	6012	5472	7359	6558	5929	5422	6309	5770	5326	6078	5619	5233	5864	5475	5143	4960
4	6935	5938	5208	4650	6743	5827	5145	4617	5617	5023	4553	5422	4907	4490	5240	4797	4430	4249
5	6384	5314	4567	4015	6208	5220	4518	3992	5043	4423	3948	4877	4332	3905	4723	4246	3863	3685
6	5901	4792	4047	3513	5741	4712	4009	3497	4561	3934	3466	4420	3862	3435	4288	3792	3404	3233
7	5475	4350	3621	3110	5330	4282	3590	3098	4153	3529	3075	4032	3471	3052	3919	3415	3030	2864
8	5101	3975	3266	2780	4970	3916	3241	2771	3806	3192	2754	3701	3144	2736	3603	3098	2719	2560
9	4769	3652	2968	2506	4650	3602	2947	2499	3506	2906	2486	3416	2867	2473	3331	2828	2460	2307
10	4474	3373	2715	2276	4367	3330	2697	2271	3247	2663	2260	3168	2630	2250	3094	2598	2240	2094

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	198	4.81
6.00	87.9	7.21
8.00	49.5	9.62
10.0	31.7	12.0
12.0	22.0	14.4
14.0	16.2	16.8
16.0	12.4	19.2

Cone of Light Plot

