



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  
**LR34-22G-8200-35K-9A-U80-UNI-XXXX**  
Order Number  
10891756  
Test Number  
1132762

Test Date

2015-07-24

Prepared By

*Derek Smarr*

Derek Smarr, Technician

Approved By

*Kyle Spaziani*

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, clear prismatic lens enclosure  
**Lamp:** 192 white LEDs  
**Mounting:** Recessed  
**Ballast/Driver:** One Universal Everline D21CC80UNVTZ-D

### Luminaire



### Luminaire Characteristics

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

### Summary of Results

Total Luminaire Output:	8111 Lumens
Luminaire Efficacy:	91.7 lm/w
Maximum Candela:	3629 Candela

### Electrical Data

Test Temperature:	25.5 °C
Voltage:	120.0 VAC
Current:	0.7377 A
Power:	88.41 W
Power Factor:	0.999
Frequency:	60 Hz
Current THD:	4.99 %

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
25.5 °C	120.0 VAC	0.7377 A	88.41 W	0.999	60 Hz	4.99 %

### Summary of Results

#### Spacing Criteria

0-180: 1.19  
90-270: 1.19

#### Total Lumen Output:

8111 Lumens

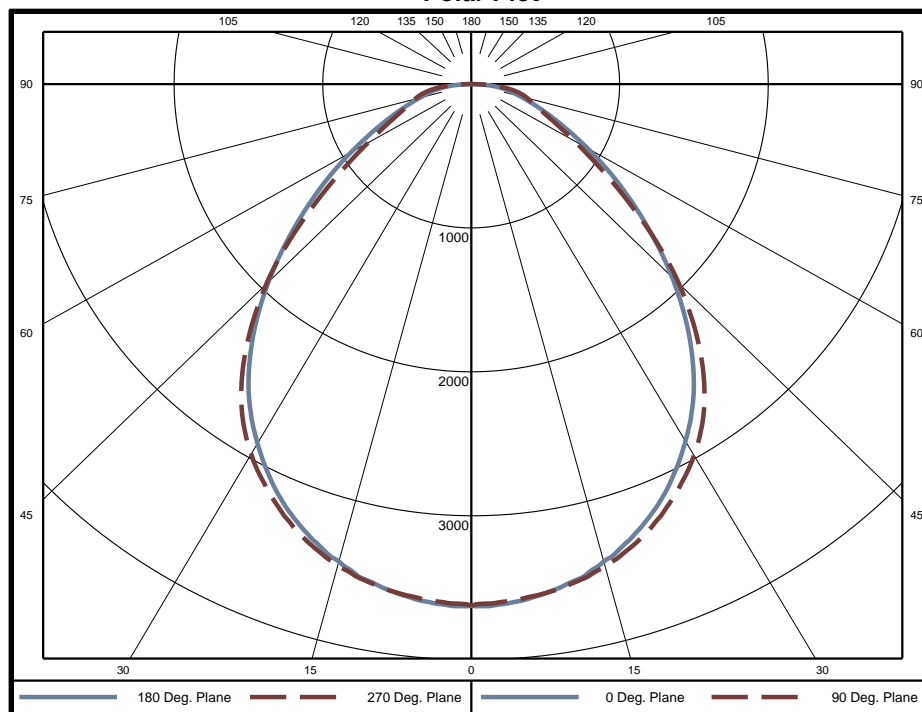
#### Luminaire Efficacy:

91.7 lm/w

#### Maximum Candela:

3629 Candela

### Polar Plot



### Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	86.4	1.1%	60-65	352.1	4.3%	120-125	0	0.0%
5-10	255.8	3.2%	65-70	264.3	3.3%	125-130	0	0.0%
10-15	415.5	5.1%	70-75	202.6	2.5%	130-135	0	0.0%
15-20	558.9	6.9%	75-80	159.3	2.0%	135-140	0	0.0%
20-25	678.6	8.4%	80-85	113.7	1.4%	140-145	0	0.0%
25-30	768.1	9.5%	85-90	46.7	0.6%	145-150	0	0.0%
30-35	822.1	10.1%	90-95	0	0.0%	150-155	0	0.0%
35-40	830.7	10.2%	95-100	0	0.0%	155-160	0	0.0%
40-45	788.9	9.7%	100-105	0	0.0%	160-165	0	0.0%
45-50	708.2	8.7%	105-110	0	0.0%	165-170	0	0.0%
50-55	593.1	7.3%	110-115	0	0.0%	170-175	0	0.0%
55-60	466.0	5.7%	115-120	0	0.0%	175-180	0	0.0%

Zone	Lumens	% of Luminaire
0-40	4416	54.4%
0-60	6972	86.0%
0-90	8111	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	3624	3624	3624	3624	3624	3624	3624	3624	3624	3624	3624	3624	3624	3624	3624	3624
	5	3608	3604	3601	3607	3597	3607	3601	3604	3608	3604	3601	3607	3597	3607	3601	3604
	10	3544	3540	3548	3556	3551	3556	3548	3540	3544	3540	3548	3556	3551	3556	3548	3540
	15	3436	3439	3455	3470	3472	3470	3455	3439	3436	3439	3455	3470	3472	3470	3455	3439
	20	3297	3302	3318	3345	3352	3345	3318	3302	3297	3302	3318	3345	3352	3345	3318	3302
	25	3113	3116	3136	3174	3187	3174	3136	3116	3113	3116	3136	3174	3187	3174	3136	3116
	30	2880	2888	2910	2966	2987	2966	2910	2888	2880	2888	2910	2966	2987	2966	2910	2888
	35	2613	2614	2638	2695	2729	2695	2638	2614	2613	2614	2638	2695	2729	2695	2638	2614
	40	2284	2286	2306	2350	2383	2350	2306	2286	2284	2286	2306	2350	2383	2350	2306	2286
	45	1923	1923	1948	1964	1982	1964	1948	1923	1923	1923	1948	1964	1982	1964	1948	1923
	50	1556	1563	1591	1541	1530	1541	1591	1563	1556	1563	1591	1541	1530	1541	1591	1563
	55	1221	1210	1204	1130	1118	1130	1204	1210	1221	1210	1204	1130	1118	1130	1204	1210
	60	919	885	846	815	809	815	846	885	919	885	846	815	809	815	846	885
	65	674	629	574	605	605	605	574	629	674	629	574	605	605	605	574	629
	70	489	447	384	468	474	468	384	447	489	447	384	468	474	468	384	447
	75	352	334	281	367	396	367	281	334	352	334	281	367	396	367	281	334
80	254	237	228	279	314	279	228	237	254	237	228	279	314	279	228	237	
85	142	134	140	182	184	182	140	134	142	134	140	182	184	182	140	134	
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/m<sup>2</sup>)**  
Horizontal Angle (Degrees)

Vertical Angle (Degrees)	0	45	90	
	0	11880	11880	11880
	45	8910	9026	9182
	55	6976	6877	6384
	65	5226	4454	4689
	75	4453	3556	5009
	85	5320	5277	6932



### 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	9656	9656	9656	9656	9431	9431	9431	9431	9012	9012	9012	8629	8629	8629	8276	8276	8276	8111
1	8905	8553	8237	7952	8688	8370	8083	7823	8029	7793	7577	7715	7523	7346	7425	7272	7129	6965
2	8188	7580	7077	6654	7981	7429	6968	6576	7147	6759	6424	6886	6563	6280	6645	6379	6142	5976
3	7535	6753	6148	5666	7342	6628	6068	5616	6392	5913	5518	6174	5767	5424	5972	5628	5334	5167
4	6953	6056	5399	4898	6774	5951	5338	4864	5753	5221	4799	5569	5109	4736	5398	5002	4675	4509
5	6434	5464	4787	4287	6270	5376	4740	4265	5209	4649	4220	5054	4562	4176	4908	4478	4133	3971
6	5971	4960	4281	3794	5822	4885	4244	3777	4743	4172	3746	4610	4102	3714	4486	4036	3683	3526
7	5558	4526	3857	3388	5423	4462	3827	3376	4341	3769	3353	4227	3713	3330	4120	3659	3307	3154
8	5191	4152	3499	3050	5068	4097	3474	3041	3993	3427	3024	3895	3381	3006	3802	3337	2989	2842
9	4862	3827	3193	2765	4751	3780	3173	2758	3689	3134	2745	3604	3096	2732	3524	3060	2719	2577
10	4567	3543	2931	2523	4467	3502	2914	2518	3424	2881	2507	3350	2850	2497	3280	2819	2487	2351

### Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	227	4.80
6.00	101	7.21
8.00	56.6	9.61
10.0	36.2	12.0
12.0	25.2	14.4
14.0	18.5	16.8
16.0	14.2	19.2

### Cone of Light Plot

