



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

John Andrews
20 Audrey Pl
Fairfield, NJ 07004-3416

Catalog Number
LR10-22G-2600-35K-U30-UNI-XXXX

Order Number
10740370
Test Number
1020061

Test Date

2015-04-15

Prepared By

Barry Mello Jr., Technician

Approved By

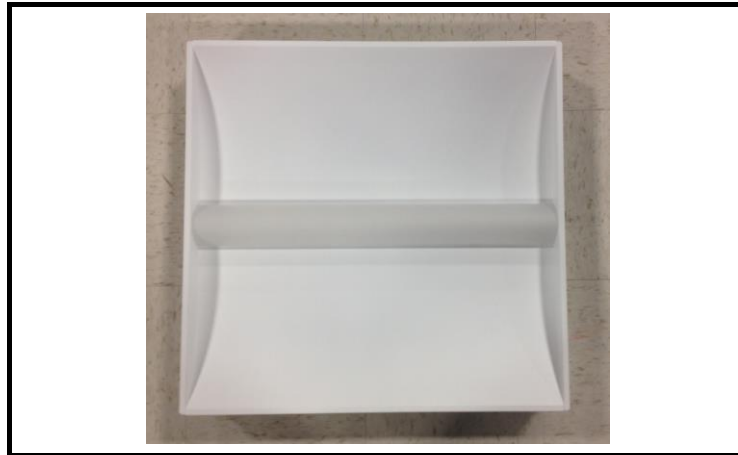
Kyle Spaziani, Project Handler

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Luminaire Description: White steel housing / reflector, frosted plastic lens enclosure
Lamp: 56 white LEDs
Mounting: Recessed
Ballast/Driver: One Universal Everline D10CC30UNVTZ-C (@1050mA)

Luminaire



Luminaire Characteristics

Luminous Length: 23.00 in.
Luminous Width: 23.00 in.

Summary of Results

Total Luminaire Output:	2424 Lumens
Luminaire Efficacy:	88.9 lm/w
Maximum Candela:	838 Candela

Electrical Data

Test Temperature:	24.3 °C
Voltage:	120.1 VAC
Current:	0.2277 A
Power:	27.25 W
Power Factor:	0.997
Frequency:	60 Hz
Current THD:	5.89 %

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
24.3 °C	120.1 VAC	0.2277 A	27.25 W	0.997	60 Hz	5.89 %

Summary of Results

Spacing Criteria

0-180: 1.16

90-270: 1.25

Total Lumen Output:

2424 Lumens

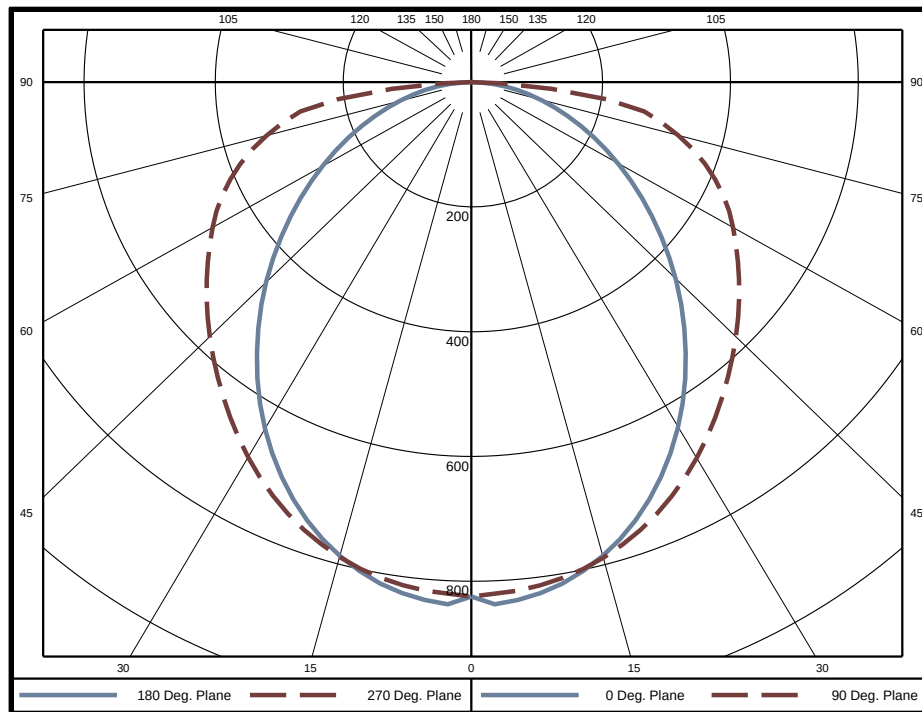
Luminaire Efficacy:

88.9 lm/w

Maximum Candela:

838 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	20.9	0.9%	60-65	166.3	6.9%	120-125	0.0	0.0%
5-10	58.1	2.4%	65-70	151.2	6.2%	125-130	0.0	0.0%
10-15	94.1	3.9%	70-75	132.4	5.5%	130-135	0.0	0.0%
15-20	126.2	5.2%	75-80	108.6	4.5%	135-140	0.0	0.0%
20-25	153.1	6.3%	80-85	73.7	3.0%	140-145	0.0	0.0%
25-30	173.7	7.2%	85-90	21.3	0.9%	145-150	0.0	0.0%
30-35	188.0	7.8%	90-95	0.0	0.0%	150-155	0.0	0.0%
35-40	195.9	8.1%	95-100	0.0	0.0%	155-160	0.0	0.0%
40-45	198.1	8.2%	100-105	0.0	0.0%	160-165	0.0	0.0%
45-50	195.3	8.1%	105-110	0.0	0.0%	165-170	0.0	0.0%
50-55	188.5	7.8%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	178.6	7.4%	115-120	0.0	0.0%	175-180	0.0	0.0%

Zone	Lumens	% of Luminaire
0-40	1010.0	41.7%
0-60	1770.5	73.0%
0-90	2423.9	100.0%
90-180	0.0	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	824	824	824	824	824	824	824	824	824	824	824	824	824	824	824
	5	833	818	817	819	818	819	817	818	833	818	817	819	818	819	817
	10	816	802	803	807	807	807	803	802	816	802	803	807	807	807	803
	15	787	775	780	788	789	788	780	775	787	775	780	788	789	788	780
	20	747	738	748	760	763	760	748	738	747	738	748	760	763	760	748
	25	698	692	708	726	732	726	708	692	698	692	708	726	732	726	708
	30	642	639	662	687	695	687	662	639	642	639	662	687	695	687	662
	35	580	582	612	644	656	644	612	582	580	582	612	644	656	644	612
	40	515	522	560	600	616	600	560	522	515	522	560	600	616	600	560
	45	451	461	507	557	577	557	507	461	451	461	507	557	577	557	507
	50	386	401	455	516	539	516	455	401	386	401	455	516	539	516	455
	55	324	343	408	476	502	476	408	343	324	343	408	476	502	476	408
	60	266	289	364	438	466	438	364	289	266	289	364	438	466	438	364
	65	211	239	324	400	428	400	324	239	211	239	324	400	428	400	324
	70	160	195	285	356	383	356	285	195	160	195	285	356	383	356	285
	75	114	154	239	302	330	302	239	154	114	154	239	302	330	302	239
	80	73	112	180	240	271	240	180	112	73	112	180	240	271	240	180
	85	34	59	99	117	124	117	99	59	34	59	99	117	124	117	99
	90	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
	100	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
	110	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
	120	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
	130	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
	140	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
	150	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
	160	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
	170	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
	180	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	2416	2416
	45	1867	2101
	55	1655	2082
	65	1463	2244
	75	1292	2701
	85	1143	3319



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	2888	2888	2888	2888	2820	2820	2820	2820	2695	2695	2695	2580	2580	2580	2475	2475	2475	2426
1	2604	2474	2357	2252	2536	2418	2311	2214	2313	2225	2144	2217	2144	2077	2128	2069	2015	1962
2	2353	2135	1955	1803	2287	2088	1922	1781	2000	1860	1739	1919	1801	1698	1844	1746	1660	1604
3	2137	1864	1653	1484	2075	1825	1628	1470	1751	1582	1443	1682	1538	1417	1619	1497	1392	1336
4	1953	1646	1422	1250	1895	1613	1403	1241	1551	1368	1223	1493	1334	1206	1439	1302	1189	1134
5	1795	1469	1241	1073	1742	1441	1227	1067	1388	1200	1055	1339	1173	1043	1294	1148	1031	977
6	1657	1322	1097	936	1609	1298	1086	931	1254	1064	922	1212	1043	914	1173	1023	905	853
7	1537	1199	980	826	1493	1179	970	823	1140	953	816	1105	936	810	1071	919	803	754
8	1431	1094	882	737	1392	1077	875	734	1044	861	729	1014	847	725	985	833	720	672
9	1338	1005	801	663	1302	990	795	662	962	783	658	935	771	654	910	760	650	605
10	1255	928	732	602	1223	915	727	600	891	717	597	867	707	595	846	698	592	548

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	51.5	4.81
6.00	22.9	7.21
8.00	12.9	9.62
10.0	8.24	12.0
12.0	5.73	14.4
14.0	4.21	16.8
16.0	3.22	19.2

Cone of Light Plot

