



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
LR25-22G-4300-35K-U55-UNI-XXXX

Order Number
10740370
Test Number
1020072

Test Date

2015-04-15

Prepared By

Barry Mello Jr., Technician

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 / reflector, frosted plastic lens enclosure
Lamp: 96 white LEDs
Mounting: Recessed
Ballast/Driver: One Universal Everline D10CC55UNVTZ-C (@1050mA)

Luminaire



Luminaire Characteristics

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

Summary of Results

Total Luminaire Output:	4022 Lumens
Luminaire Efficacy:	92.1 lm/w
Maximum Candela:	1356 Candela

Electrical Data

Test Temperature:	24.7 °C
Voltage:	120.0 VAC
Current:	0.3644 A
Power:	43.66 W
Power Factor:	0.998
Frequency:	60 Hz
Current THD:	5.20 %

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



Distribution - Goniophotometer

Distribution Test Conditions

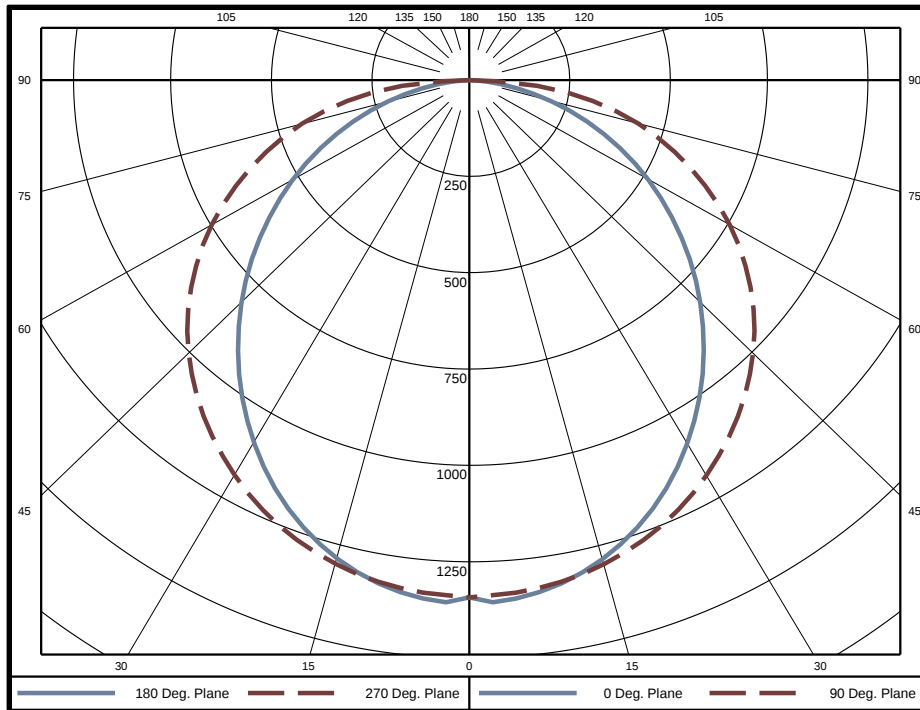
Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.7 °C	120.0 VAC	0.3644 A	43.66 W	0.998	60 Hz	5.20 %

Summary of Results

Spacing Criteria
 0-180: 1.21
 90-270: 1.31

Total Lumen Output: 4022 Lumens
Luminaire Efficacy: 92.1 lm/w
Maximum Candela: 1356 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	34.0	0.8%	60-65	281.2	7.0%	120-125	0.0	0.0%
5-10	94.9	2.4%	65-70	240.8	6.0%	125-130	0.0	0.0%
10-15	154.5	3.8%	70-75	193.8	4.8%	130-135	0.0	0.0%
15-20	208.8	5.2%	75-80	141.5	3.5%	135-140	0.0	0.0%
20-25	255.9	6.4%	80-85	85.0	2.1%	140-145	0.0	0.0%
25-30	294.3	7.3%	85-90	25.0	0.6%	145-150	0.0	0.0%
30-35	323.1	8.0%	90-95	0.0	0.0%	150-155	0.0	0.0%
35-40	341.9	8.5%	95-100	0.0	0.0%	155-160	0.0	0.0%
40-45	350.4	8.7%	100-105	0.0	0.0%	160-165	0.0	0.0%
45-50	348.2	8.7%	105-110	0.0	0.0%	165-170	0.0	0.0%
50-55	335.6	8.3%	110-115	0.0	0.0%	170-175	0.0	0.0%
55-60	313.1	7.8%	115-120	0.0	0.0%	175-180	0.0	0.0%

Zone	Lumens	% of Luminaire
0-40	1707.4	42.5%
0-60	3054.7	76.0%
0-90	4022.0	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	1342	1342	1342	1342	1342	1342	1342	1342	1342	1342	1342	1342	1342	1342	1342	1342
	5	1350	1335	1333	1336	1335	1336	1333	1335	1350	1335	1333	1336	1335	1336	1333	1335
	10	1327	1313	1315	1321	1322	1321	1315	1313	1327	1313	1315	1321	1322	1321	1315	1313
	15	1288	1277	1285	1297	1300	1297	1285	1277	1288	1277	1285	1297	1300	1297	1285	1277
	20	1235	1228	1244	1264	1270	1264	1244	1228	1235	1228	1244	1264	1270	1264	1244	1228
	25	1169	1166	1192	1221	1231	1221	1192	1166	1169	1166	1192	1221	1231	1221	1192	1166
	30	1092	1095	1130	1169	1183	1169	1130	1095	1092	1095	1130	1169	1183	1169	1130	1095
	35	1007	1015	1061	1110	1129	1110	1061	1015	1007	1015	1061	1110	1129	1110	1061	1015
	40	915	930	985	1045	1068	1045	985	930	915	930	985	1045	1068	1045	985	930
	45	820	839	903	973	1000	973	903	839	820	839	903	973	1000	973	903	839
	50	722	744	815	893	925	893	815	744	722	744	815	893	925	893	815	744
	55	620	645	722	807	840	807	722	645	620	645	722	807	840	807	722	645
	60	520	545	626	713	749	713	626	545	520	545	626	713	749	713	626	545
	65	417	443	525	612	648	612	525	443	417	443	525	612	648	612	525	443
	70	315	341	419	506	544	506	419	341	315	341	419	506	544	506	419	341
	75	215	241	313	395	436	395	313	241	215	241	313	395	436	395	313	241
	80	120	144	206	277	313	277	206	144	120	144	206	277	313	277	206	144
	85	44	59	98	144	169	144	98	59	44	59	98	144	169	144	98	59
	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	3933	3933	3933
	45	3398	3741	4144
	55	3169	3690	4291
	65	2891	3638	4496
	75	2429	3539	4938
	85	1466	3298	5694



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	4790	4790	4790	4790	4679	4679	4679	4679	4471	4471	4471	4281	4281	4281	4106	4106	4106	4024
1	4349	4144	3962	3797	4237	4052	3886	3734	3880	3742	3616	3721	3608	3504	3575	3484	3399	3313
2	3939	3591	3303	3060	3830	3513	3248	3023	3369	3145	2952	3235	3048	2884	3112	2957	2819	2729
3	3580	3139	2798	2525	3478	3074	2757	2502	2953	2681	2457	2840	2608	2413	2736	2539	2371	2280
4	3272	2773	2407	2128	3177	2718	2377	2113	2616	2318	2083	2520	2262	2053	2432	2209	2025	1935
5	3005	2472	2100	1825	2918	2426	2076	1815	2339	2031	1794	2259	1987	1774	2183	1945	1754	1666
6	2772	2222	1853	1588	2694	2183	1834	1581	2110	1798	1566	2041	1763	1551	1976	1730	1537	1452
7	2569	2012	1652	1399	2498	1979	1637	1394	1916	1608	1383	1857	1579	1372	1802	1552	1362	1280
8	2390	1835	1486	1246	2326	1806	1473	1242	1752	1450	1233	1702	1426	1225	1654	1404	1217	1139
9	2232	1683	1347	1119	2174	1659	1336	1116	1612	1317	1110	1568	1297	1104	1526	1279	1097	1022
10	2093	1552	1229	1014	2040	1531	1220	1011	1490	1204	1006	1452	1188	1001	1416	1172	996	925

Cone of Light Tabulation

Mounting Height	Footcandles at Nadir	Diameter (Feet)
4.00	83.9	5.02
6.00	37.3	7.53
8.00	21.0	10.0
10.0	13.4	12.6
12.0	9.32	15.1
14.0	6.85	17.6
16.0	5.24	20.1

Cone of Light Plot

