



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

Photometric Indoor 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
LS1-4-5400-35K-S50-UNI
Project Number
10470583
Test Number
744372

Test Date

2014-09-12

Prepared By

A handwritten signature in black ink, reading 'Javier Caban'.

Javier Caban, Technician

Approved By

A handwritten signature in black ink, reading 'Kyle Spaziani'.

Kyle Spaziani, Project Handler

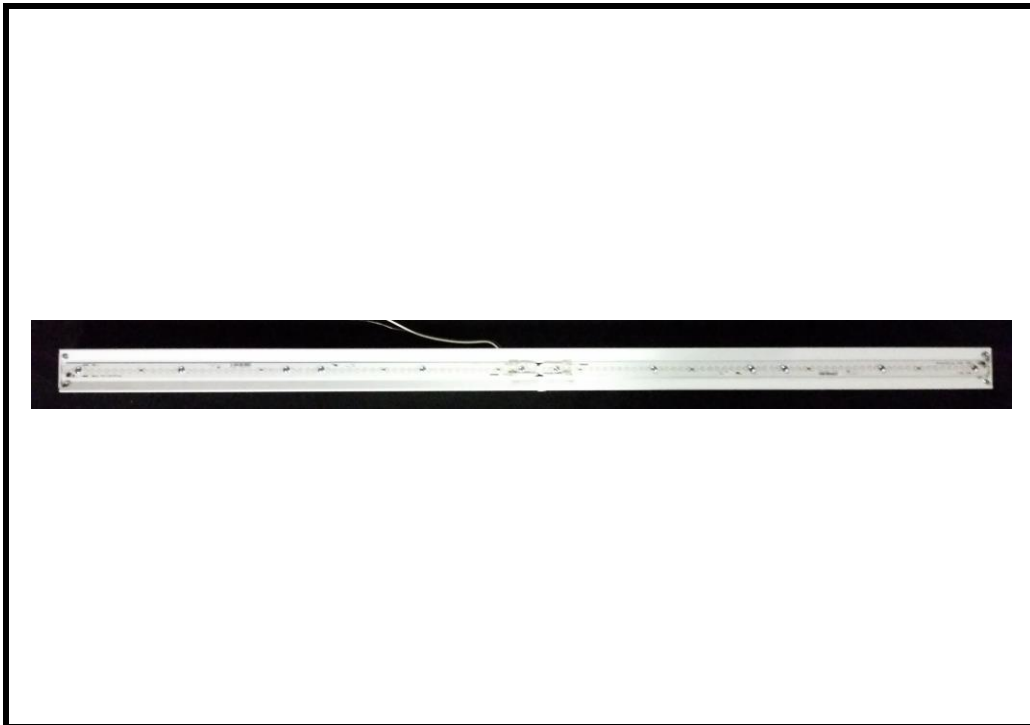
The results contained in this report pertain only to the tested sample.
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Luminaire Description: Formed white enamel steel housing, formed white enamel steel reflector, frosted linear prismatic plastic enclosure
Catalog Number: LS1-4-5400-35K-S50-UNI
Lamp: 120 white LEDs
Mounting: Surface
Ballast/Driver: One Osram Optotronic OT50W/PRG1400C/UNV/DIM/L

Luminaire

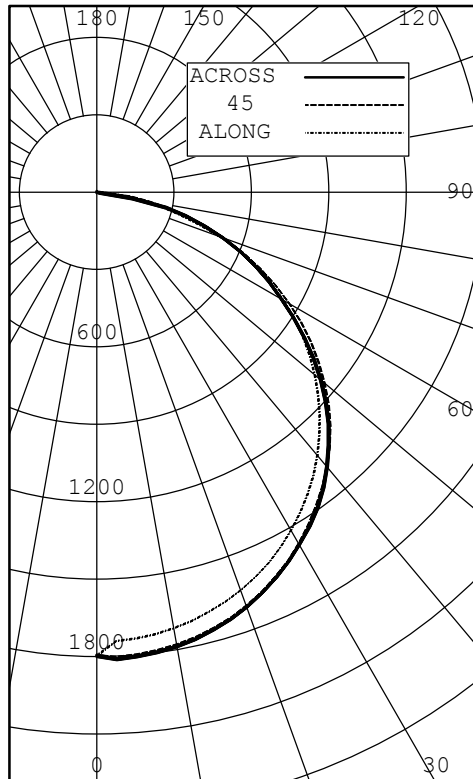


Test Conditions

Test Temperature:	24.9 °C
Voltage:	120.0 VAC
Current:	0.4563 A
Power:	54.53 W
Power Factor:	0.996
Frequency:	60 Hz
Current THD:	8.10 %



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INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	1796	1796	1796	1796	1796	
5	1737	1806	1800	1801	1807	173
10	1717	1786	1781	1783	1789	
15	1685	1753	1750	1753	1756	492
20	1639	1709	1703	1707	1710	
25	1582	1649	1642	1646	1648	754
30	1510	1578	1569	1572	1574	
35	1426	1489	1483	1489	1493	925
40	1330	1389	1387	1390	1388	
45	1221	1277	1280	1271	1270	976
50	1104	1153	1153	1142	1135	
55	975	1020	1013	997	982	894
60	836	879	860	844	826	
65	689	722	700	690	679	688
70	517	550	533	524	522	
75	328	363	364	359	359	377
80	181	190	203	195	140	
85	54	67	2	2	2	56
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	1419	26.60
0-40	2344	43.94
0-60	4213	78.99
0-90	5334	100.00
40-90	2991	56.06
60-90	1121	21.01
90-180	0	0.00
0-180	5334	100.00

EFFICACY (LUMENS PER WATT): 97.9

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS LENGTH: 44.380 INS
WIDTH: 1.880 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.3
SC: 1.3

ANGLE	ALONG	45	ACROSS
45	28262	30804	33486
55	26475	28971	31940
65	23481	25604	29974
75	15662	19250	25848
85	4497	214	385

TESTED IN ACCORDANCE WITH IES PROCEDURES.



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INTENSITY (CANDLEPOWER) DATA
IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0.0	1796	1796	1796	1796	1796	1796	173
2.5	1742	1810	1804	1806	1812	1799	
5.0	1737	1806	1800	1801	1807	1795	
7.5	1729	1797	1792	1793	1800	1787	
10.0	1717	1786	1781	1783	1789	1776	492
12.5	1703	1771	1767	1770	1774	1762	
15.0	1685	1753	1750	1753	1756	1744	
17.5	1664	1733	1728	1732	1735	1723	
20.0	1639	1709	1703	1707	1710	1698	754
22.5	1612	1681	1674	1678	1681	1670	
25.0	1582	1649	1642	1646	1648	1638	
27.5	1548	1615	1608	1611	1613	1604	
30.0	1510	1578	1569	1572	1574	1565	925
32.5	1470	1535	1527	1532	1536	1524	
35.0	1426	1489	1483	1489	1493	1480	
37.5	1380	1441	1437	1444	1443	1433	
40.0	1330	1389	1387	1390	1388	1382	976
42.5	1276	1335	1336	1331	1330	1326	
45.0	1221	1277	1280	1271	1270	1268	
47.5	1164	1216	1219	1208	1205	1207	
50.0	1104	1153	1153	1142	1135	1142	894
52.5	1041	1088	1084	1071	1059	1073	
55.0	975	1020	1013	997	982	1002	
57.5	907	950	939	921	905	929	
60.0	836	879	860	844	826	854	688
62.5	762	802	779	768	753	777	
65.0	689	722	700	690	679	699	
67.5	609	637	616	609	602	617	
70.0	517	550	533	524	522	532	377
72.5	415	457	449	440	441	443	
75.0	328	363	364	359	359	357	
77.5	252	271	281	279	278	274	
80.0	181	190	203	195	140	187	56
82.5	108	123	131	25	10	85	
85.0	54	67	2	2	2	25	
87.5	13	0	1	1	1	2	
90.0	0	0	0	0	0	0	



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COEFFICIENTS OF UTILIZATION

ZONAL CAVITY METHOD

EFFECTIVE FLOOR CAVITY REFLECTANCE = .20

CC WALL	90				80				70				50				30				10				0
	70	50	30	10	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																									
0	1.221	1.221	1.221	1.22	1.191	1.191	1.191	1.19	1.161	1.161	1.161	1.16	1.111	1.111	1.11	1.061	1.061	1.06	1.021	1.021	1.02	1.00			
1	1.121	1.071	1.030	0.99	1.101	1.051	1.010	0.98	1.071	1.031	1.000	0.96	0.990	0.960	0.93	0.950	0.930	0.90	0.910	0.890	0.88	0.86			
2	1.030	0.950	0.880	0.82	1.000	0.930	0.870	0.81	0.980	0.910	0.850	0.80	0.870	0.830	0.78	0.840	0.800	0.77	0.810	0.780	0.75	0.73			
3	0.940	0.830	0.750	0.69	0.920	0.820	0.740	0.68	0.890	0.800	0.730	0.68	0.780	0.710	0.66	0.750	0.700	0.65	0.720	0.680	0.64	0.62			
4	0.870	0.750	0.660	0.59	0.850	0.730	0.650	0.59	0.830	0.720	0.640	0.58	0.700	0.630	0.57	0.670	0.610	0.57	0.650	0.600	0.56	0.54			
5	0.800	0.670	0.570	0.50	0.780	0.650	0.570	0.50	0.750	0.640	0.560	0.50	0.620	0.550	0.50	0.600	0.540	0.49	0.580	0.530	0.48	0.46			
6	0.740	0.590	0.500	0.44	0.720	0.580	0.500	0.44	0.700	0.570	0.490	0.43	0.560	0.480	0.43	0.540	0.470	0.42	0.520	0.470	0.42	0.40			
7	0.670	0.530	0.440	0.38	0.660	0.520	0.440	0.38	0.640	0.510	0.430	0.37	0.500	0.420	0.37	0.480	0.420	0.37	0.470	0.410	0.36	0.34			
8	0.620	0.480	0.390	0.33	0.610	0.470	0.390	0.33	0.590	0.460	0.390	0.33	0.450	0.380	0.33	0.440	0.370	0.32	0.430	0.370	0.32	0.30			
9	0.580	0.440	0.350	0.29	0.560	0.430	0.350	0.29	0.550	0.420	0.340	0.29	0.410	0.340	0.29	0.400	0.330	0.29	0.390	0.330	0.28	0.27			
10	0.530	0.400	0.310	0.26	0.520	0.390	0.310	0.26	0.510	0.380	0.310	0.26	0.370	0.300	0.26	0.370	0.300	0.25	0.360	0.300	0.25	0.23			

THE ABOVE COEFFICIENTS HAVE BEEN CALCULATED BASED ON LUMINAIRE LUMENS
BECAUSE IN AN ABSOLUTE TEST THE BARE LAMP LUMENS ARE UNKNOWN.
LIGHTING DESIGN CALCULATIONS MADE USING THESE COEFFICIENTS SHOULD
THEREFORE USE THE LUMINAIRE LUMENS IN THE CALCULATION FORMULA

LABORATORY RESULTS MAY NOT BE REPRESENTATIVE OF FIELD PERFORMANCE.
BALLAST AND FIELD FACTORS HAVE NOT BEEN APPLIED.

TEST DISTANCE EXCEEDS FIVE TIMES THE GREATEST
LUMINOUS OPENING OF LUMINAIRE.