



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
LS2-4-4200-35K-S50-UNI-XXXX
Project Number
10455369
Test Number
728037

Test Date

2014-08-23

Prepared By

A handwritten signature in black ink, appearing to read 'Bhavik Shah'.

Bhavik Shah, Technician

Approved By

A handwritten signature in black ink, appearing to read '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, no enclosure
Catalog Number: LS2-4-4200-35K-S50-UNI-XXXX
Lamp: 120 white LEDs
Mounting: Surface
Ballast/Driver: One Osram Optotronic OT50W/PRG1400C/UNV/DIM/L

Luminaire

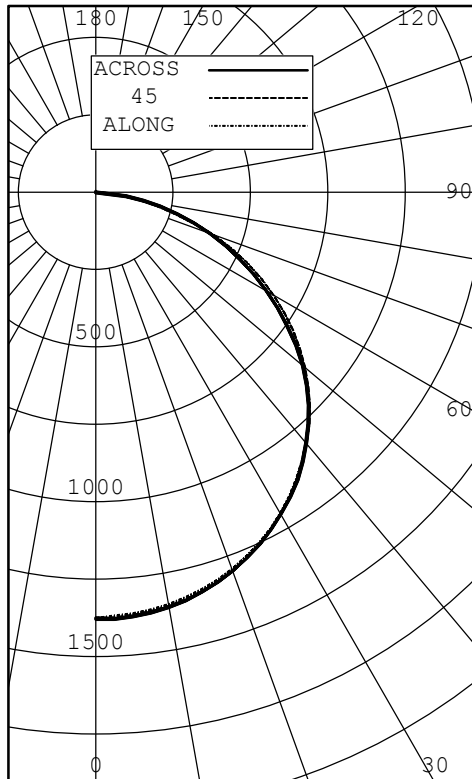


Test Conditions

Test Temperature:	24.8 °C
Voltage:	120.1 VAC
Current:	0.3203 A
Power:	38.29 W
Power Factor:	0.996
Frequency:	60 Hz
Current THD:	7.68 %



INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS



ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	1378	1378	1378	1378	1378	
5	1367	1375	1373	1373	1377	133
10	1352	1361	1358	1360	1362	
15	1327	1336	1333	1335	1336	376
20	1293	1300	1299	1299	1300	
25	1248	1255	1253	1254	1254	577
30	1194	1201	1198	1199	1199	
35	1130	1136	1132	1136	1135	708
40	1055	1062	1058	1060	1058	
45	972	978	978	975	972	751
50	879	884	882	878	874	
55	776	781	778	769	756	689
60	664	671	662	651	636	
65	542	549	538	524	514	528
70	407	420	407	396	393	
75	258	279	274	274	274	290
80	142	145	155	159	157	
85	40	50	47	11	1	57
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	1086	26.43
0-40	1794	43.67
0-60	3234	78.73
0-90	4108	100.00
40-90	2314	56.33
60-90	874	21.27
90-180	0	0.00
0-180	4108	100.00

EFFICACY (LUMENS PER WATT): 107.3

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS LENGTH: 44.380 INS
 WIDTH: 2.750 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.3
 SC: 1.3

ANGLE	ALONG	45	ACROSS
45	17457	17634	17527
55	17181	17285	16802
65	16299	16218	15490
75	12650	13458	13474
85	5887	6881	182

TESTED IN ACCORDANCE WITH IES PROCEDURES.



INTENSITY (CANDLEPOWER) DATA
 IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0.0	1378	1378	1378	1378	1378	1378	
2.5	1371	1379	1377	1375	1381	1377	
5.0	1367	1375	1373	1373	1377	1373	133
7.5	1361	1369	1366	1368	1371	1367	
10.0	1352	1361	1358	1360	1362	1359	
12.5	1340	1349	1347	1349	1350	1348	
15.0	1327	1336	1333	1335	1336	1334	376
17.5	1311	1319	1317	1318	1319	1317	
20.0	1293	1300	1299	1299	1300	1299	
22.5	1272	1279	1278	1278	1278	1278	
25.0	1248	1255	1253	1254	1254	1254	577
27.5	1223	1229	1227	1228	1228	1227	
30.0	1194	1201	1198	1199	1199	1199	
32.5	1163	1170	1167	1168	1168	1168	
35.0	1130	1136	1132	1136	1135	1134	708
37.5	1093	1100	1096	1100	1098	1098	
40.0	1055	1062	1058	1060	1058	1059	
42.5	1015	1021	1019	1018	1016	1018	
45.0	972	978	978	975	972	976	751
47.5	926	932	930	928	925	929	
50.0	879	884	882	878	874	880	
52.5	829	834	831	825	816	828	
55.0	776	781	778	769	756	773	689
57.5	721	727	721	711	697	717	
60.0	664	671	662	651	636	658	
62.5	605	614	600	589	575	598	
65.0	542	549	538	524	514	535	528
67.5	478	485	473	459	454	471	
70.0	407	420	407	396	393	406	
72.5	325	350	340	335	333	339	
75.0	258	279	274	274	274	273	290
77.5	198	208	212	215	214	210	
80.0	142	145	155	159	157	152	
82.5	82	92	102	105	100	97	
85.0	40	50	47	11	1	32	57
87.5	7	13	0	0	0	4	
90.0	0	0	0	0	0	0	



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	.221	.221	.22	1.191	.191	.191	.19	1.161	.161	.161	.16	1.111	.111	.111	.11	1.061	.061	.061	.06	1.021	.021	.021	.02	1.00
	1	1.121	.071	.030	.99	1.101	.051	.010	.98	1.071	.030	.990	.96	0.990	.960	.93	0.950	.920	.90	0.910	.890	.87	0.85			
	2	1.030	.950	.880	.82	1.000	.930	.870	.81	0.980	.910	.850	.80	0.870	.820	.78	0.840	.800	.76	0.810	.780	.75	0.73			
	3	0.940	.830	.750	.68	0.920	.820	.740	.68	0.890	.800	.730	.67	0.770	.710	.66	0.750	.690	.65	0.720	.680	.64	0.62			
	4	0.870	.740	.650	.59	0.850	.730	.650	.58	0.820	.720	.640	.58	0.690	.630	.57	0.670	.610	.56	0.650	.600	.56	0.54			
	5	0.800	.660	.570	.50	0.780	.650	.560	.50	0.750	.640	.560	.50	0.620	.550	.49	0.600	.540	.49	0.580	.530	.48	0.46			
	6	0.730	.590	.500	.44	0.710	.580	.500	.43	0.690	.570	.490	.43	0.550	.480	.43	0.540	.470	.42	0.520	.460	.42	0.40			
	7	0.670	.530	.440	.38	0.650	.520	.430	.38	0.640	.510	.430	.37	0.500	.420	.37	0.480	.410	.36	0.470	.410	.36	0.34			
	8	0.620	.480	.390	.33	0.610	.470	.390	.33	0.590	.460	.380	.33	0.450	.380	.33	0.440	.370	.32	0.430	.370	.32	0.30			
	9	0.580	.440	.350	.29	0.560	.430	.350	.29	0.550	.420	.340	.29	0.410	.340	.29	0.400	.330	.28	0.390	.330	.28	0.26			
	10	0.530	.400	.310	.26	0.520	.390	.310	.26	0.510	.380	.310	.25	0.370	.300	.25	0.360	.300	.25	0.360	.290	.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.