



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
LW14-4-4500-35K-HTA-S50-UNI-XXXX
Project Number
10455369
Test Number
728069

Test Date

2014-08-20

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, formed white enamel steel reflector, frosted linear prismatic plastic enclosure
Catalog Number: LW14-4-4500-35K-HTA-S50-UNI-XXXX
Lamp: 120 white LEDs
Mounting: Surface
Ballast/Driver: One Osram Optotronic OT50W/PRG1400C/UNV/DIM/L

Luminaire

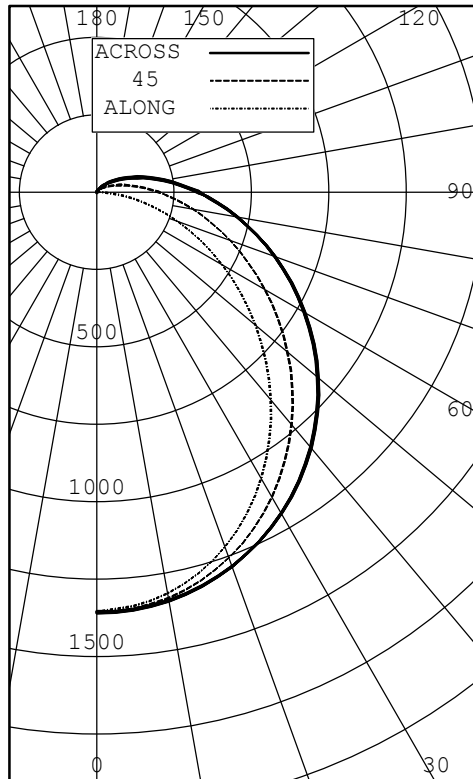


Test Conditions

Test Temperature:	25.5 °C
Voltage:	120.0 VAC
Current:	0.4003 A
Power:	47.88 W
Power Factor:	0.996
Frequency:	60 Hz
Current THD:	7.60 %



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INTENSITY (CANDLEPOWER) SUMMARY OUTPUT

ANGLE	ALONG	22.5	45	67.5	ACROSS	LUMENS
0	1357	1357	1357	1357	1357	
5	1342	1351	1351	1353	1354	130
15	1275	1288	1300	1312	1317	366
25	1146	1167	1199	1232	1244	551
35	972	1002	1060	1117	1139	661
45	773	811	894	975	1007	688
55	568	612	715	817	855	638
65	372	423	541	653	694	532
75	196	257	384	496	536	398
85	53	129	254	357	392	264
90	0	84	201	297	329	
95	0	53	156	242	272	162
105	0	20	89	155	178	94
115	0	7	48	92	109	51
125	0	3	24	51	63	25
135	0	1	11	26	32	11
145	0	1	5	11	14	4
155	0	0	2	4	5	1
165	0	0	1	1	1	0
175	0	0	0	0	0	0
180	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	1047	22.89
0-40	1708	37.34
0-60	3034	66.31
0-90	4228	92.40
40-90	2519	55.06
60-90	1194	26.09
90-180	348	7.60
0-180	4576	100.00

EFFICACY (LUMENS PER WATT): 95.5

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS LENGTH: 45.000 INS
WIDTH: 4.630 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.3
SC (ALONG): 1.2, SC (ACROSS): 1.3

ANGLE	ALONG	45	ACROSS
45	8130	9436	10633
55	7364	9311	11126
65	6543	9552	12264
75	5628	11042	15462
85	4553	21715	33602

TESTED IN ACCORDANCE WITH IES PROCEDURES.



INTENSITY (CANDLEPOWER) DATA

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0	1357	1357	1357	1357	1357	1357	
5	1342	1351	1351	1353	1354	1351	130
10	1316	1327	1332	1338	1340	1331	
15	1275	1288	1300	1312	1317	1299	366
20	1217	1234	1255	1277	1285	1254	
25	1146	1167	1199	1232	1244	1198	551
30	1064	1089	1134	1178	1196	1133	
35	972	1002	1060	1117	1139	1059	661
40	874	909	979	1049	1076	978	
45	773	811	894	975	1007	892	688
50	670	712	805	898	932	804	
55	568	612	715	817	855	714	638
60	468	516	627	735	775	625	
65	372	423	541	653	694	537	532
70	280	336	460	573	614	454	
75	196	257	384	496	536	376	398
80	119	187	315	424	462	304	
85	53	129	254	357	392	241	264
90	0	84	201	297	329	187	
95	0	53	156	242	272	147	162
100	0	32	119	195	222	114	
105	0	20	89	155	178	88	94
110	0	12	66	121	141	67	
115	0	7	48	92	109	51	51
120	0	4	34	70	84	38	
125	0	3	24	51	63	27	25
130	0	1	17	37	46	20	
135	0	1	11	26	32	14	11
140	0	1	8	17	22	9	
145	0	1	5	11	14	6	4
150	0	1	3	7	9	4	
155	0	0	2	4	5	2	1
160	0	0	1	2	3	1	
165	0	0	1	1	1	1	0
170	0	0	0	0	0	0	
175	0	0	0	0	0	0	0
180	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	1.211	1.211	1.211	1.21	1.171	1.171	1.171	1.17	1.141	1.141	1.141	1.14	1.071	1.071	1.07	1.011	1.011	1.01	0.950	0.950	0.95	0.92			
1	1.091	1.030	0.980	0.94	1.061	1.010	0.960	0.92	1.020	0.980	0.930	0.89	0.920	0.880	0.85	0.870	0.840	0.81	0.820	0.790	0.77	0.75			
2	0.990	0.900	0.830	0.76	0.960	0.880	0.810	0.75	0.930	0.850	0.790	0.73	0.800	0.750	0.70	0.760	0.720	0.68	0.720	0.680	0.65	0.62			
3	0.910	0.790	0.700	0.63	0.880	0.770	0.690	0.62	0.850	0.750	0.670	0.61	0.710	0.640	0.59	0.670	0.620	0.57	0.640	0.590	0.55	0.53			
4	0.840	0.710	0.610	0.54	0.810	0.690	0.600	0.53	0.780	0.670	0.590	0.52	0.630	0.560	0.51	0.600	0.540	0.49	0.570	0.520	0.48	0.46			
5	0.770	0.630	0.530	0.46	0.740	0.610	0.520	0.46	0.710	0.600	0.510	0.45	0.570	0.490	0.44	0.540	0.480	0.43	0.510	0.460	0.41	0.39			
6	0.710	0.560	0.470	0.40	0.680	0.550	0.460	0.40	0.660	0.530	0.450	0.39	0.510	0.440	0.38	0.480	0.420	0.37	0.460	0.410	0.36	0.34			
7	0.650	0.500	0.410	0.35	0.630	0.490	0.400	0.34	0.610	0.480	0.400	0.34	0.460	0.380	0.33	0.430	0.370	0.32	0.420	0.360	0.31	0.29			
8	0.600	0.460	0.370	0.31	0.580	0.440	0.360	0.30	0.560	0.430	0.350	0.30	0.410	0.340	0.29	0.400	0.330	0.28	0.380	0.320	0.28	0.26			
9	0.560	0.420	0.330	0.27	0.540	0.410	0.320	0.26	0.520	0.400	0.320	0.26	0.380	0.310	0.26	0.360	0.300	0.25	0.350	0.290	0.24	0.23			
10	0.520	0.380	0.290	0.24	0.500	0.370	0.290	0.24	0.490	0.360	0.290	0.23	0.350	0.280	0.23	0.330	0.270	0.22	0.320	0.260	0.22	0.20			

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.