



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
L450-2-2600-35K-HTA20-S30-20-UNI-XXXX
Project Number
10455369
Test Number
728047

Test Date

2014-08-28

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.
This report shall not be reproduced, except in full, without written approval of Underwriters Laboratories.



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

Luminaire Description: Formed white enamel steel housing, white enamel steel reflectors, frosted plastic lens enclosures
Catalog Number: L450-2-2600-35K-HTA20-S30-20-UNI-XXXX
Lamp: 120 white LEDs
Mounting: Surface
Ballast/Driver: One Osram Optotronic OT30W/PRG1050C/UNV/DIM/L

Luminaire

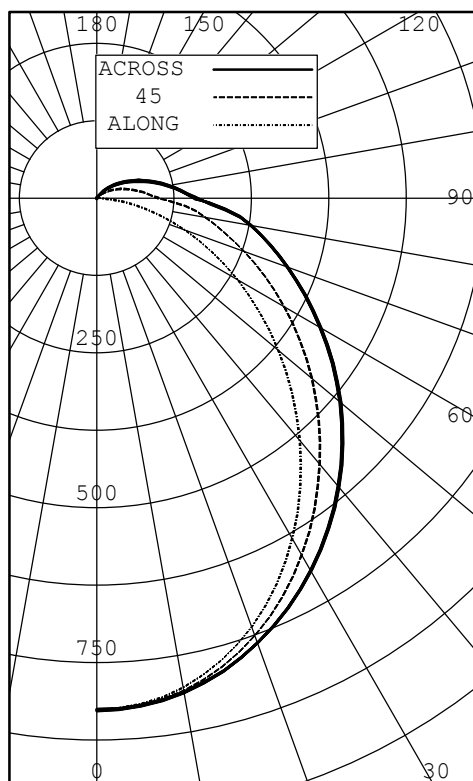


Test Conditions

Test Temperature:	24.7 °C
Voltage:	120.0 VAC
Current:	0.2236 A
Power:	26.73 W
Power Factor:	0.996
Frequency:	60 Hz
Current THD:	5.19 %



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



INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	827	827	827	827	827	
5	820	821	823	823	823	79
15	774	776	783	789	791	220
25	687	694	710	724	730	326
35	573	584	613	641	652	383
45	446	463	507	547	561	389
55	321	343	400	448	465	354
65	205	236	300	353	371	292
75	105	144	213	270	290	218
85	26	76	144	193	209	143
90	0	43	100	144	160	
95	0	30	83	123	137	84
105	0	14	56	88	98	55
115	0	4	34	58	66	32
125	0	0	16	34	40	16
135	0	0	4	15	20	6
145	0	0	0	2	4	1
155	0	0	0	0	0	0
165	0	0	0	0	0	0
175	0	0	0	0	0	0
180	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	625	24.06
0-40	1008	38.79
0-60	1752	67.41
0-90	2405	92.56
40-90	1397	53.77
60-90	653	25.15
90-180	193	7.44
0-180	2598	100.00

EFFICACY (LUMENS PER WATT): 97.3

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS LENGTH: 23.000 INS
WIDTH: 7.500 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.2
SC (ALONG): 1.1, SC (ACROSS): 1.2

ANGLE	ALONG	45	ACROSS
45	5672	5665	5968
55	5032	5237	5686
65	4368	4914	5548
75	3636	4852	5779
85	2644	5706	6579

TESTED IN ACCORDANCE WITH IES PROCEDURES.



INTENSITY (CANDLEPOWER) DATA

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0	827	827	827	827	827	827	
5	820	821	823	823	823	822	79
10	803	804	808	810	811	807	
15	774	776	783	789	791	783	220
20	735	739	750	760	763	750	
25	687	694	710	724	730	709	326
30	632	642	664	684	693	663	
35	573	584	613	641	652	613	383
40	510	524	560	595	608	560	
45	446	463	507	547	561	505	389
50	383	402	454	498	513	450	
55	321	343	400	448	465	396	354
60	262	288	349	400	417	344	
65	205	236	300	353	371	294	292
70	153	188	254	309	329	248	
75	105	144	213	270	290	206	218
80	62	106	178	234	253	169	
85	26	76	144	193	209	133	143
90	0	43	100	144	160	92	
95	0	30	83	123	137	76	84
100	0	22	69	105	117	63	
105	0	14	56	88	98	52	55
110	0	8	44	72	81	41	
115	0	4	34	58	66	32	32
120	0	0	24	45	52	24	
125	0	0	16	34	40	18	16
130	0	0	10	24	29	12	
135	0	0	4	15	20	7	6
140	0	0	0	8	12	4	
145	0	0	0	2	4	1	1
150	0	0	0	0	0	0	
155	0	0	0	0	0	0	0
160	0	0	0	0	0	0	
165	0	0	0	0	0	0	0
170	0	0	0	0	0	0	
175	0	0	0	0	0	0	0
180	0	0	0	0	0	0	



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

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	0.93			
1	1.101	1.040	0.990	0.94	1.061	1.010	0.960	0.92	1.030	0.980	0.940	0.90	0.920	0.890	0.86	0.870	0.840	0.82	0.820	0.800	0.78	0.75			
2	1.000	0.910	0.840	0.77	0.970	0.880	0.810	0.75	0.930	0.860	0.790	0.74	0.810	0.760	0.71	0.770	0.720	0.68	0.730	0.690	0.66	0.63			
3	0.910	0.800	0.710	0.64	0.880	0.780	0.690	0.63	0.850	0.750	0.680	0.62	0.720	0.650	0.60	0.680	0.630	0.58	0.640	0.600	0.56	0.54			
4	0.840	0.710	0.620	0.55	0.810	0.690	0.610	0.54	0.790	0.680	0.600	0.53	0.640	0.570	0.52	0.610	0.550	0.50	0.580	0.530	0.49	0.47			
5	0.780	0.640	0.540	0.47	0.750	0.620	0.530	0.47	0.720	0.600	0.520	0.46	0.570	0.500	0.45	0.550	0.480	0.44	0.520	0.470	0.43	0.40			
6	0.710	0.570	0.480	0.41	0.690	0.560	0.470	0.41	0.660	0.540	0.460	0.40	0.520	0.450	0.39	0.490	0.430	0.38	0.470	0.420	0.37	0.35			
7	0.650	0.510	0.420	0.36	0.630	0.500	0.410	0.35	0.610	0.490	0.410	0.35	0.470	0.390	0.34	0.440	0.380	0.33	0.430	0.370	0.32	0.30			
8	0.610	0.460	0.380	0.32	0.590	0.450	0.370	0.31	0.570	0.440	0.360	0.31	0.420	0.350	0.30	0.410	0.340	0.29	0.390	0.330	0.29	0.27			
9	0.560	0.420	0.340	0.28	0.550	0.410	0.330	0.27	0.530	0.400	0.330	0.27	0.390	0.320	0.27	0.370	0.310	0.26	0.360	0.300	0.25	0.24			
10	0.520	0.390	0.300	0.25	0.510	0.380	0.300	0.24	0.490	0.370	0.290	0.24	0.350	0.290	0.24	0.340	0.280	0.23	0.330	0.270	0.23	0.21			

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.