



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
LS2-2-2100-35K-S30-UNI-XXXX
Project Number
10455369
Test Number
728029

Test Date

2014-08-19

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: LS2-2-2100-35K-S30-UNI-XXXX
Lamp: 60 white LEDs
Mounting: Surface
Ballast/Driver: One Osram Optotronic OT30W/PRG1050C/UNV/DIM/L

Luminaire



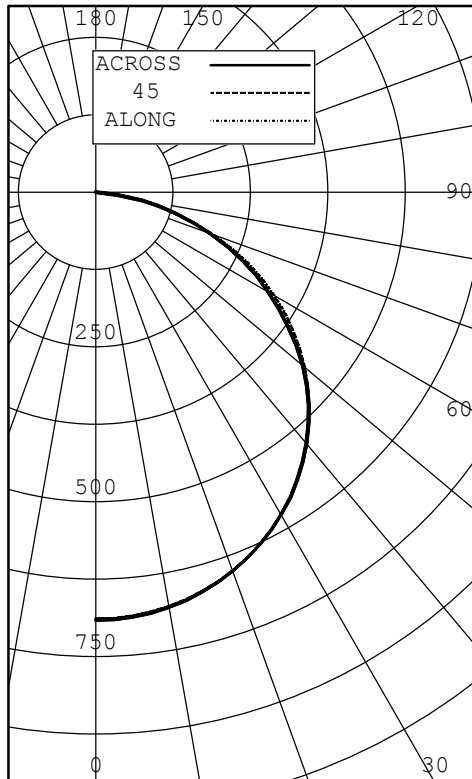
Test Conditions

Test Temperature:	25.1 °C
Voltage:	120.0 VAC
Current:	0.1645 A
Power:	19.60 W
Power Factor:	0.994
Frequency:	60 Hz
Current THD:	5.17 %



INTENSITY (CANDLEPOWER) SUMMARY

OUTPUT
LUMENS



ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	690	690	690	690	690	
5	687	687	687	688	689	66
10	680	679	679	680	681	
15	667	667	666	667	668	188
20	649	650	649	650	650	
25	627	628	627	627	627	289
30	599	600	599	600	600	
35	566	568	567	568	567	354
40	529	530	530	529	529	
45	487	487	488	487	486	375
50	441	440	441	438	437	
55	389	389	389	384	379	345
60	334	334	331	326	321	
65	274	272	269	265	261	265
70	206	208	205	200	199	
75	129	138	138	135	135	144
80	71	71	76	77	76	
85	20	24	17	16	4	27
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	543	26.46
0-40	897	43.72
0-60	1617	78.77
0-90	2053	100.00
40-90	1155	56.28
60-90	436	21.23
90-180	0	0.00
0-180	2053	100.00

EFFICACY (LUMENS PER WATT): 104.7

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS LENGTH: 22.000 INS
 WIDTH: 2.630 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.3
 SC: 1.3

ANGLE	ALONG	45	ACROSS
45	18457	18560	18488
55	18184	18223	17771
65	17355	17117	16626
75	13315	14305	14057
85	6055	5238	1126

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	690	690	690	690	690	690	
2.5	689	689	689	690	691	689	
5.0	687	687	687	688	689	688	66
7.5	684	684	684	685	686	684	
10.0	680	679	679	680	681	680	
12.5	674	673	673	674	675	674	
15.0	667	667	666	667	668	667	188
17.5	659	659	658	659	660	659	
20.0	649	650	649	650	650	650	
22.5	639	639	639	639	640	639	
25.0	627	628	627	627	627	627	289
27.5	613	615	614	614	614	614	
30.0	599	600	599	600	600	600	
32.5	583	585	583	584	585	584	
35.0	566	568	567	568	567	567	354
37.5	548	550	549	549	549	549	
40.0	529	530	530	529	529	530	
42.5	509	510	510	508	508	509	
45.0	487	487	488	487	486	487	375
47.5	465	464	464	463	463	464	
50.0	441	440	441	438	437	439	
52.5	416	415	416	411	409	414	
55.0	389	389	389	384	379	386	345
57.5	363	362	361	355	350	359	
60.0	334	334	331	326	321	329	
62.5	304	303	300	296	292	299	
65.0	274	272	269	265	261	269	265
67.5	242	241	238	233	230	237	
70.0	206	208	205	200	199	204	
72.5	165	174	172	167	167	170	
75.0	129	138	138	135	135	136	144
77.5	99	103	105	105	105	104	
80.0	71	71	76	77	76	74	
82.5	41	45	50	42	35	44	
85.0	20	24	17	16	4	17	27
87.5	4	4	0	0	0	1	
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	.830	.78	0.840	.800	.77	0.810	.780	.75	0.73			
	3	0.940	.830	.750	.69	0.920	.820	.740	.68	0.890	.800	.730	.67	0.770	.710	.66	0.750	.700	.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	.57	0.650	.600	.56	0.54			
	5	0.800	.670	.570	.50	0.780	.650	.570	.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.