



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
LS2-4-2100-35K-S30-UNI-XXXX
Project Number
10455369
Test Number
728035

Test Date

2014-08-29

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

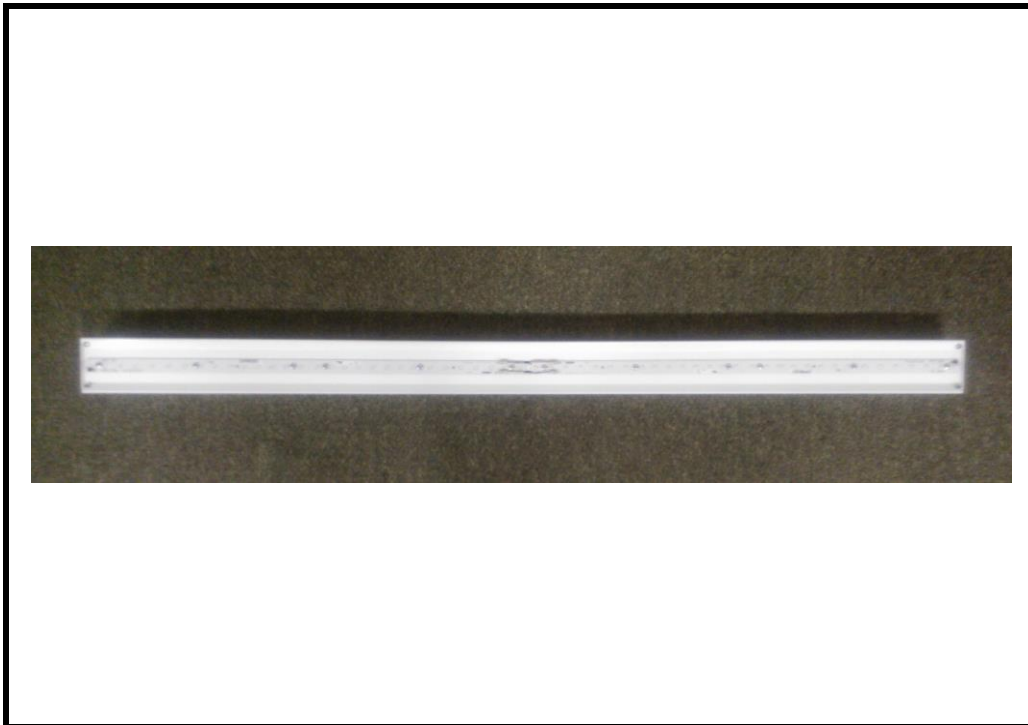
The results contained in this report pertain only to the tested sample.
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Luminaire Description: Formed white enamel steel housing, no enclosure
Catalog Number: LS2-4-2100-35K-S30-UNI-XXXX
Lamp: 60 white LEDs
Mounting: Surface
Ballast/Driver: One Osram Optotronic OT30W/PRG1050C/UNV/DIM/L

Luminaire

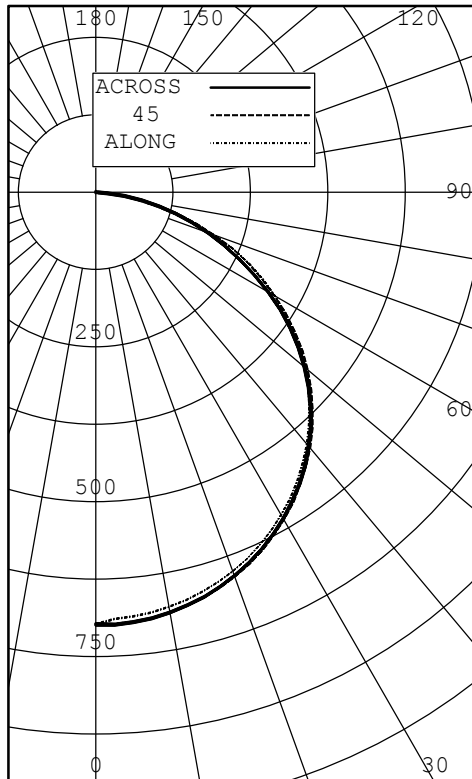


Test Conditions

Test Temperature:	25.1 °C
Voltage:	120.0 VAC
Current:	0.1663 A
Power:	19.83 W
Power Factor:	0.994
Frequency:	60 Hz
Current THD:	4.96 %



INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS



ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	698	698	698	698	698	
5	688	698	697	697	698	67
10	681	690	690	689	690	
15	668	677	677	676	677	190
20	651	659	660	658	659	
25	628	637	638	635	635	293
30	600	609	610	608	607	
35	568	576	576	576	574	359
40	531	538	538	538	535	
45	488	496	495	494	491	380
50	442	448	447	443	441	
55	390	395	392	389	384	348
60	334	339	333	330	322	
65	274	278	272	262	256	266
70	207	212	206	197	193	
75	129	142	140	135	134	145
80	65	73	79	78	76	
85	20	24	24	21	20	30
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	550	26.47
0-40	909	43.75
0-60	1637	78.79
0-90	2078	100.00
40-90	1169	56.25
60-90	441	21.21
90-180	0	0.00
0-180	2078	100.00

EFFICACY (LUMENS PER WATT): 105.0

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS LENGTH: 44.250 INS
 WIDTH: 2.750 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.3
 SC: 1.3

ANGLE	ALONG	45	ACROSS
45	8792	8944	8882
55	8666	8748	8564
65	8255	8229	7737
75	6343	6881	6600
85	2871	3450	2934

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	698	698	698	698	698	698	
2.5	690	700	699	700	700	698	
5.0	688	698	697	697	698	696	67
7.5	685	695	694	694	695	693	
10.0	681	690	690	689	690	688	
12.5	675	683	684	682	684	682	
15.0	668	677	677	676	677	675	190
17.5	660	669	670	668	668	667	
20.0	651	659	660	658	659	658	
22.5	640	649	650	648	648	648	
25.0	628	637	638	635	635	635	293
27.5	615	624	624	622	622	622	
30.0	600	609	610	608	607	608	
32.5	585	593	594	592	591	592	
35.0	568	576	576	576	574	575	359
37.5	550	558	558	558	556	557	
40.0	531	538	538	538	535	537	
42.5	510	517	517	516	514	516	
45.0	488	496	495	494	491	493	380
47.5	466	472	471	469	467	470	
50.0	442	448	447	443	441	445	
52.5	417	422	421	417	413	419	
55.0	390	395	392	389	384	391	348
57.5	363	368	363	360	354	362	
60.0	334	339	333	330	322	332	
62.5	305	310	302	297	288	301	
65.0	274	278	272	262	256	269	266
67.5	242	245	240	229	224	237	
70.0	207	212	206	197	193	204	
72.5	164	178	173	166	163	170	
75.0	129	142	140	135	134	137	145
77.5	95	106	108	106	106	105	
80.0	65	73	79	78	76	75	
82.5	40	45	52	48	47	47	
85.0	20	24	24	21	20	22	30
87.5	3	6	5	5	4	5	
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	.071	.030	.99	1.101	.051	.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	.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	.420	.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.