



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
LS1-2-2100-35K-S30-UNI
Project Number
10470583
Test Number
744376

Test Date

2014-09-12

Prepared By

A handwritten signature in black ink, reading 'Javier Caban'.

Javier Caban, Technician

Approved By

A handwritten signature in black ink, reading '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: LS1-2-2100-35K-S30-UNI
Lamp: 60 white LEDs
Mounting: Surface
Ballast/Driver: One Osram Optotronic OT50W/PRG1400C/UNV/DIM/L

Luminaire

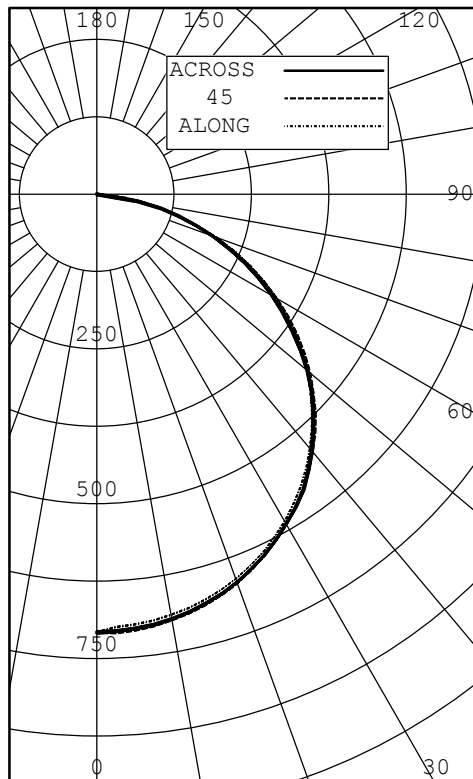


Test Conditions

Test Temperature:	25.2 °C
Voltage:	120.0 VAC
Current:	0.1641 A
Power:	19.57 W
Power Factor:	0.994
Frequency:	60 Hz
Current THD:	4.71 %



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INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS

ANGLE	ALONG	22.5	45	67.5	ACROSS	
0	708	708	708	708	708	
5	698	712	708	702	705	68
10	691	704	699	694	697	
15	678	690	687	682	684	193
20	660	672	668	664	666	
25	637	648	644	641	642	296
30	609	618	615	612	614	
35	575	583	581	580	582	363
40	536	543	543	540	540	
45	491	499	500	494	495	382
50	444	451	449	445	445	
55	391	399	395	389	385	350
60	334	344	336	330	326	
65	274	280	273	267	264	269
70	206	214	208	202	201	
75	130	141	139	138	138	146
80	72	74	78	78	68	
85	21	26	1	1	1	21
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	557	26.68
0-40	920	44.04
0-60	1652	79.11
0-90	2088	100.00
40-90	1169	55.96
60-90	436	20.89
90-180	0	0.00
0-180	2088	100.00

EFFICACY (LUMENS PER WATT): 106.5

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS LENGTH: 22.130 INS
WIDTH: 1.880 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.3
SC: 1.3

ANGLE	ALONG	45	ACROSS
45	20366	22158	26158
55	18310	20212	25096
65	15293	17081	23317
75	9276	11700	19925
85	2195	127	364

TESTED IN ACCORDANCE WITH IES PROCEDURES.



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INTENSITY (CANDLEPOWER) DATA
IN 2.5 DEGREE STEPS

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0.0	708	708	708	708	708	708	
2.5	700	714	710	704	707	708	
5.0	698	712	708	702	705	706	68
7.5	695	709	704	699	701	702	
10.0	691	704	699	694	697	698	
12.5	685	698	694	689	691	692	
15.0	678	690	687	682	684	685	193
17.5	670	682	678	674	676	677	
20.0	660	672	668	664	666	667	
22.5	649	661	656	653	655	655	
25.0	637	648	644	641	642	643	296
27.5	623	634	630	627	629	629	
30.0	609	618	615	612	614	614	
32.5	592	601	598	596	599	598	
35.0	575	583	581	580	582	581	363
37.5	557	564	562	562	562	562	
40.0	536	543	543	540	540	541	
42.5	514	522	522	517	518	519	
45.0	491	499	500	494	495	496	382
47.5	468	475	475	470	471	472	
50.0	444	451	449	445	445	447	
52.5	418	426	423	417	416	421	
55.0	391	399	395	389	385	393	350
57.5	363	371	366	360	355	364	
60.0	334	344	336	330	326	335	
62.5	305	314	304	300	295	305	
65.0	274	280	273	267	264	272	269
67.5	242	247	241	234	232	240	
70.0	206	214	208	202	201	207	
72.5	164	178	174	170	169	172	
75.0	130	141	139	138	138	138	146
77.5	100	105	107	108	107	106	
80.0	72	74	78	78	68	75	
82.5	43	48	47	2	1	30	
85.0	21	26	1	1	1	10	21
87.5	5	0	0	0	0	1	
90.0	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	1.221	1.221	1.221	1.22	1.191	1.191	1.191	1.19	1.161	1.161	1.161	1.16	1.111	1.111	1.11	1.061	1.061	1.06	1.021	1.021	1.02	1.00			
1	1.121	1.071	1.031	1.00	1.101	1.051	1.010	0.98	1.071	1.031	1.000	0.96	0.990	0.960	0.93	0.950	0.930	0.90	0.910	0.890	0.88	0.86			
2	1.030	0.950	0.880	0.82	1.010	0.930	0.870	0.81	0.980	0.910	0.850	0.80	0.870	0.830	0.79	0.840	0.800	0.77	0.810	0.780	0.75	0.73			
3	0.940	0.830	0.750	0.69	0.920	0.820	0.740	0.68	0.900	0.800	0.730	0.68	0.780	0.720	0.67	0.750	0.700	0.65	0.720	0.680	0.64	0.62			
4	0.870	0.750	0.660	0.59	0.850	0.730	0.650	0.59	0.830	0.720	0.650	0.58	0.700	0.630	0.58	0.670	0.610	0.57	0.650	0.600	0.56	0.54			
5	0.800	0.670	0.570	0.51	0.780	0.660	0.570	0.50	0.760	0.640	0.560	0.50	0.620	0.550	0.50	0.600	0.540	0.49	0.580	0.530	0.48	0.46			
6	0.740	0.600	0.500	0.44	0.720	0.590	0.500	0.44	0.700	0.580	0.490	0.43	0.560	0.480	0.43	0.540	0.480	0.43	0.530	0.470	0.42	0.40			
7	0.670	0.530	0.440	0.38	0.660	0.520	0.440	0.38	0.640	0.510	0.430	0.37	0.500	0.420	0.37	0.480	0.420	0.37	0.470	0.410	0.36	0.35			
8	0.620	0.480	0.390	0.33	0.610	0.470	0.390	0.33	0.590	0.470	0.390	0.33	0.450	0.380	0.33	0.440	0.370	0.32	0.430	0.370	0.32	0.30			
9	0.580	0.440	0.350	0.29	0.560	0.430	0.350	0.29	0.550	0.420	0.350	0.29	0.410	0.340	0.29	0.400	0.330	0.29	0.390	0.330	0.28	0.27			
10	0.530	0.400	0.310	0.26	0.520	0.390	0.310	0.26	0.510	0.380	0.310	0.26	0.370	0.300	0.26	0.370	0.300	0.25	0.360	0.300	0.25	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.