



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
LS1-4-2100-35K-S30-UNI
Project Number
10470583
Test Number
744380

Test Date

2014-09-12

Prepared By

A handwritten signature in black ink that reads "Javier Caban".

Javier Caban, Technician

Approved By

A handwritten signature in black ink that reads "Kyle Spaziani".

Kyle Spaziani, Project Handler

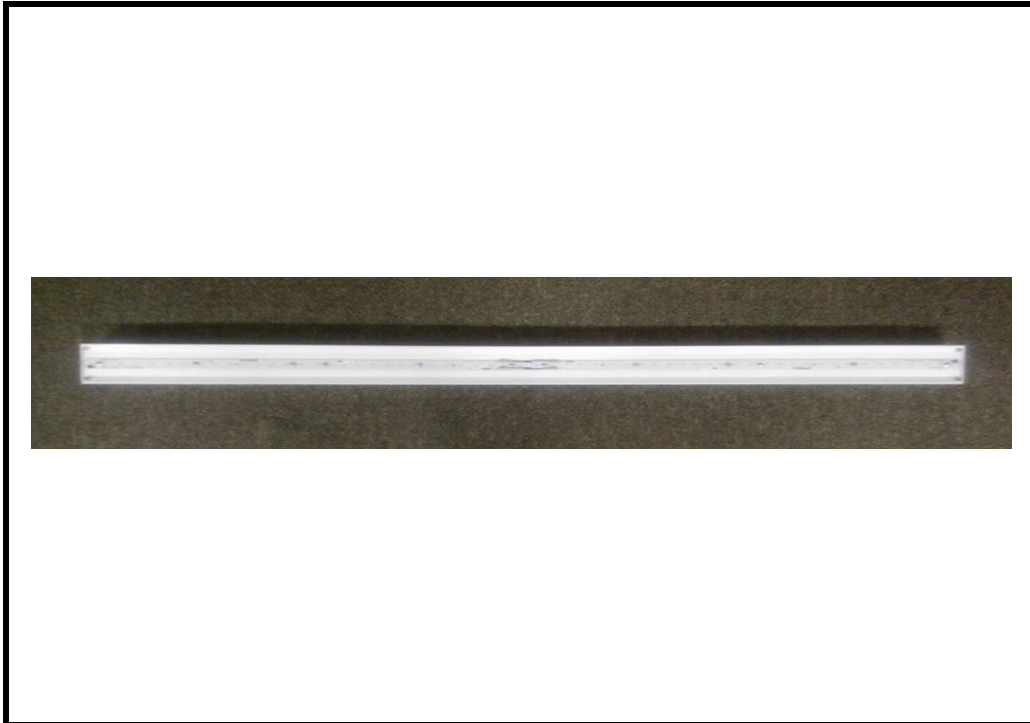
The results contained in this report pertain only to the tested sample.
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Luminaire Description: Formed white enamel steel housing, no enclosure
Catalog Number: LS1-4-2100-35K-S30-UNI
Lamp: 60 white LEDs
Mounting: Surface
Ballast/Driver: One Osram Optotronic OT50W/PRG1400C/UNV/DIM/L

Luminaire

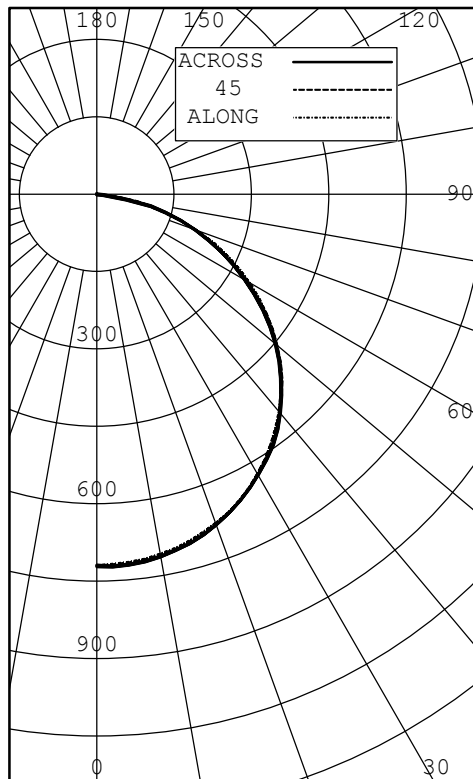


Test Conditions

Test Temperature:	25.4 °C
Voltage:	120.0 VAC
Current:	0.1658 A
Power:	19.77 W
Power Factor:	0.994
Frequency:	60 Hz
Current THD:	4.83 %



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INTENSITY (CANDLEPOWER) SUMMARY OUTPUT

ANGLE	ALONG	22.5	45	67.5	ACROSS	LUMENS
0	721	721	721	721	721	
5	716	719	718	717	721	69
10	708	712	710	709	714	
15	695	699	697	696	700	197
20	677	681	678	677	682	
25	654	656	654	654	657	301
30	624	627	624	624	627	
35	589	592	589	591	595	369
40	549	553	551	552	552	
45	505	506	508	506	505	390
50	455	457	456	455	453	
55	401	405	401	397	394	357
60	342	348	339	337	331	
65	280	285	276	273	268	273
70	211	217	211	208	203	
75	132	144	144	140	139	149
80	69	75	80	70	58	
85	23	25	3	1	1	22
90	0	0	0	0	0	

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	567	26.67
0-40	936	44.03
0-60	1683	79.12
0-90	2127	100.00
40-90	1190	55.97
60-90	444	20.88
90-180	0	0.00
0-180	2127	100.00

EFFICACY (LUMENS PER WATT): 107.4

*** THIS IS AN ABSOLUTE TEST ***

LUMINOUS LENGTH: 44.380 INS
WIDTH: 1.880 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.3
SC: 1.3

ANGLE	ALONG	45	ACROSS
45	11675	12225	13322
55	10895	11456	12800
65	9553	10095	11812
75	6287	7619	9993
85	1905	270	160

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	721	721	721	721	721	721	
2.5	718	721	719	719	723	720	
5.0	716	719	718	717	721	718	69
7.5	713	716	714	713	718	715	
10.0	708	712	710	709	714	710	
12.5	702	706	704	703	708	705	
15.0	695	699	697	696	700	697	197
17.5	687	690	688	687	692	689	
20.0	677	681	678	677	682	679	
22.5	666	669	667	666	670	667	
25.0	654	656	654	654	657	655	301
27.5	640	642	640	640	643	641	
30.0	624	627	624	624	627	625	
32.5	607	610	607	608	611	609	
35.0	589	592	589	591	595	591	369
37.5	570	573	571	573	575	572	
40.0	549	553	551	552	552	552	
42.5	528	530	530	529	529	529	
45.0	505	506	508	506	505	506	390
47.5	480	482	483	481	480	482	
50.0	455	457	456	455	453	456	
52.5	429	432	430	427	424	429	
55.0	401	405	401	397	394	400	357
57.5	372	376	370	368	362	370	
60.0	342	348	339	337	331	340	
62.5	312	319	308	305	300	309	
65.0	280	285	276	273	268	277	273
67.5	248	251	243	240	235	244	
70.0	211	217	211	208	203	211	
72.5	170	182	178	174	171	176	
75.0	132	144	144	140	139	141	149
77.5	99	108	111	108	108	108	
80.0	69	75	80	70	58	72	
82.5	44	47	44	19	14	35	
85.0	23	25	3	1	1	10	22
87.5	6	1	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	.221	.221	.22	1.191	.191	.191	.19	1.161	.161	.161	.16	1.111	.111	.11	1.061	.061	.06	1.021	.021	.02	1.00			
1	1.121	.071	.030	.99	1.101	.051	.010	.98	1.071	.031	.000	.96	0.990	.960	.93	0.950	.930	.90	0.910	.890	.88	0.86			
2	1.030	.950	.880	.82	1.010	.930	.870	.81	0.980	.910	.850	.80	0.870	.830	.79	0.840	.800	.77	0.810	.780	.75	0.73			
3	0.940	.830	.750	.69	0.920	.820	.740	.68	0.900	.800	.730	.68	0.780	.720	.67	0.750	.700	.65	0.720	.680	.64	0.62			
4	0.870	.750	.660	.59	0.850	.730	.650	.59	0.830	.720	.650	.58	0.700	.630	.58	0.670	.610	.57	0.650	.600	.56	0.54			
5	0.800	.670	.570	.51	0.780	.650	.570	.50	0.760	.640	.560	.50	0.620	.550	.50	0.600	.540	.49	0.580	.530	.48	0.46			
6	0.740	.590	.500	.44	0.720	.580	.500	.44	0.700	.570	.490	.43	0.560	.480	.43	0.540	.470	.43	0.530	.470	.42	0.40			
7	0.670	.530	.440	.38	0.660	.520	.440	.38	0.640	.510	.430	.37	0.500	.420	.37	0.480	.420	.37	0.470	.410	.36	0.35			
8	0.620	.480	.390	.33	0.610	.470	.390	.33	0.590	.470	.390	.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	.350	.29	0.410	.340	.29	0.400	.330	.29	0.390	.330	.28	0.27			
10	0.530	.400	.310	.26	0.520	.390	.310	.26	0.510	.380	.310	.26	0.370	.300	.26	0.370	.300	.25	0.360	.300	.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.