



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 Aurdrey Pl  
Fairfield, NJ 07004-3416  
United States

Catalog Number  
**L455-4-3800-35K-HTA20-S50-20-UNI-XXXX**  
Project Number  
**10577631**  
Test Number  
**823420**

Test Date

2014-11-19

Prepared By

*Javier Caban*

Javier Caban, Technician

Approved By

*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, formed white enamel steel reflector, frosted linear prismatic plastic enclosure  
Catalog Number: L455-4-3800-35K-HTA20-S50-20-UNI-XXXX  
Lamp: 120 white LEDs, two board with 60 LEDs each  
Mounting: Surface  
Ballast/Driver: One Optotronic OT50W/PRG1400C/UNV/DIM/L

Luminaire

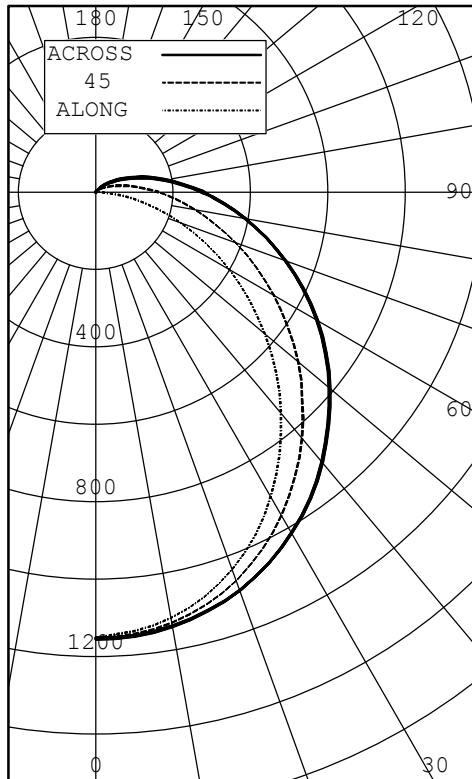


Test Conditions

Test Temperature:	25.0 °C
Voltage:	120.0 VAC
Current:	0.3231 A
Power:	38.59 W
Power Factor:	0.995
Frequency:	60 Hz
Current THD:	8.02 %



INTENSITY (CANDLEPOWER) SUMMARY OUTPUT LUMENS



ANGLE	ALONG	22.5	45	67.5	ACROSS	OUTPUT LUMENS
0	1153	1153	1153	1153	1153	
5	1139	1150	1147	1149	1151	111
15	1083	1097	1104	1115	1121	311
25	976	994	1019	1045	1058	468
35	827	852	897	945	966	561
45	659	689	755	822	850	582
55	483	519	606	692	725	541
65	315	357	456	555	592	451
75	164	213	320	420	457	335
85	43	103	208	300	333	219
90	0	65	162	247	278	
95	0	39	124	199	227	131
105	0	13	67	123	144	74
115	0	3	33	69	84	37
125	0	0	14	35	44	16
135	0	0	4	15	19	6
145	0	0	0	4	6	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	0

ZONAL LUMENS AND PERCENTAGES

ZONE	LUMENS	% LUMINAIRE
0-30	890	23.16
0-40	1451	37.74
0-60	2574	66.96
0-90	3578	93.09
40-90	2128	55.35
60-90	1005	26.13
90-180	266	6.91
0-180	3844	100.00

EFFICACY (LUMENS PER WATT): 99.6

\*\*\* THIS IS AN ABSOLUTE TEST \*\*\*

LUMINOUS LENGTH: 45.000 INS  
 WIDTH: 4.750 INS

LUMINANCE SUMMARY CD./SQ.M.

S/MH: 1.3  
 SC (ALONG): 1.2, SC (ACROSS): 1.3

ANGLE	ALONG	45	ACROSS
45	6473	5843	6158
55	5740	5226	5747
65	4941	4604	5359
75	3949	4032	4994
85	2397	3642	4778

TESTED IN ACCORDANCE WITH IES PROCEDURES.



INTENSITY (CANDLEPOWER) DATA

ANGLE	PLANE						OUTPUT LUMENS
	ALONG	22.5	45	67.5	ACROSS	AVERAGE	
0	1153	1153	1153	1153	1153	1153	
5	1139	1150	1147	1149	1151	1148	111
10	1118	1130	1130	1136	1140	1131	
15	1083	1097	1104	1115	1121	1104	311
20	1035	1051	1067	1085	1093	1067	
25	976	994	1019	1045	1058	1019	468
30	905	928	962	998	1014	962	
35	827	852	897	945	966	898	561
40	744	771	829	886	911	828	
45	659	689	755	822	850	755	582
50	571	604	683	757	788	681	
55	483	519	606	692	725	605	541
60	398	436	530	623	660	530	
65	315	357	456	555	592	455	451
70	237	281	386	487	524	384	
75	164	213	320	420	457	316	335
80	99	153	261	358	393	254	
85	43	103	208	300	333	200	219
90	0	65	162	247	278	153	
95	0	39	124	199	227	119	131
100	0	22	92	158	183	91	
105	0	13	67	123	144	69	74
110	0	7	48	94	111	51	
115	0	3	33	69	84	37	37
120	0	1	22	50	62	26	
125	0	0	14	35	44	18	16
130	0	0	9	23	30	12	
135	0	0	4	15	19	7	6
140	0	0	2	8	12	4	
145	0	0	0	4	6	2	1
150	0	0	0	1	2	1	
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	



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	.211	.211	.21	1.171	.171	.171	.17	1.141	.141	.141	.14	1.071	.071	.07	1.011	.011	.01	0.960	.960	.96	0.93		
	1	1.091	.040	.990	.94	1.061	.010	.960	.92	1.030	.980	.940	.90	0.920	.890	.86	0.870	.840	.82	0.820	.800	.78	0.75		
	2	0.990	.910	.830	.76	0.960	.880	.810	.75	0.930	.850	.790	.73	0.810	.750	.71	0.760	.720	.68	0.720	.690	.66	0.63		
	3	0.910	.790	.700	.63	0.880	.770	.690	.62	0.850	.750	.670	.61	0.710	.650	.59	0.670	.620	.57	0.640	.600	.56	0.53		
	4	0.840	.710	.610	.54	0.810	.690	.600	.53	0.780	.670	.590	.53	0.640	.570	.51	0.610	.550	.50	0.580	.530	.48	0.46		
	5	0.770	.630	.540	.46	0.740	.610	.520	.46	0.720	.600	.510	.45	0.570	.500	.44	0.540	.480	.43	0.520	.460	.42	0.40		
	6	0.710	.560	.470	.40	0.680	.550	.460	.40	0.660	.540	.450	.39	0.510	.440	.38	0.490	.420	.37	0.470	.410	.36	0.34		
	7	0.650	.500	.410	.35	0.630	.490	.410	.35	0.610	.480	.400	.34	0.460	.380	.33	0.440	.370	.32	0.420	.360	.32	0.30		
	8	0.600	.460	.370	.31	0.580	.450	.360	.30	0.560	.440	.360	.30	0.420	.340	.29	0.400	.330	.29	0.380	.320	.28	0.26		
	9	0.560	.420	.330	.27	0.540	.410	.320	.27	0.520	.400	.320	.26	0.380	.310	.26	0.370	.300	.25	0.350	.290	.25	0.23		
	10	0.520	.380	.290	.24	0.500	.370	.290	.24	0.490	.360	.290	.23	0.350	.280	.23	0.330	.270	.22	0.320	.260	.22	0.20		

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.