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Allentown, PA 18106
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Indoor Distribution Test Report

Relevant Standards
IES LM-79-2008, ANSI C82.77-2002

Prepared For
Mercury Lighting
20 Audrey Pl
Fairfield, NJ 07004-3416
United States

Catalog Number
CV4-3-2550-(850 LMFT)-35K-U30PW-UNI
Order Number
12356736
Test Number
12356736.02

Test Date

2018-07-13

Prepared By

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Approved By

Alexa Lambert, Project Handler

The results contained in this report pertain only to the tested sample.
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Luminaire Description: White formed steel housing, clear plastic lens enclosure
Lamp: 120 white LEDs
Mounting: Cove light
Ballast/Driver: One Universal Lighting Technologies D10CC30UNVPW-C driver

Luminaire



Luminaire Characteristics

Luminous Length: 3.00 in.
Luminous Width: 36.00 in.

Summary of Results

Total Luminaire Output: 2551 Lumens
Luminaire Efficacy: 141.3 lm/w
Maximum Candela: 1079 Candela

Test Conditions

Test Temperature: 24.6 °C
Voltage: 120.0 VAC
Current: 0.1516 A
Power: 18.06 W
Power Factor: 0.993
Frequency: 60 Hz
Current THD: 7.95 %

Laboratory results may not be representative of field performance
Ballast factors have not been applied



Distribution - Goniophotometer

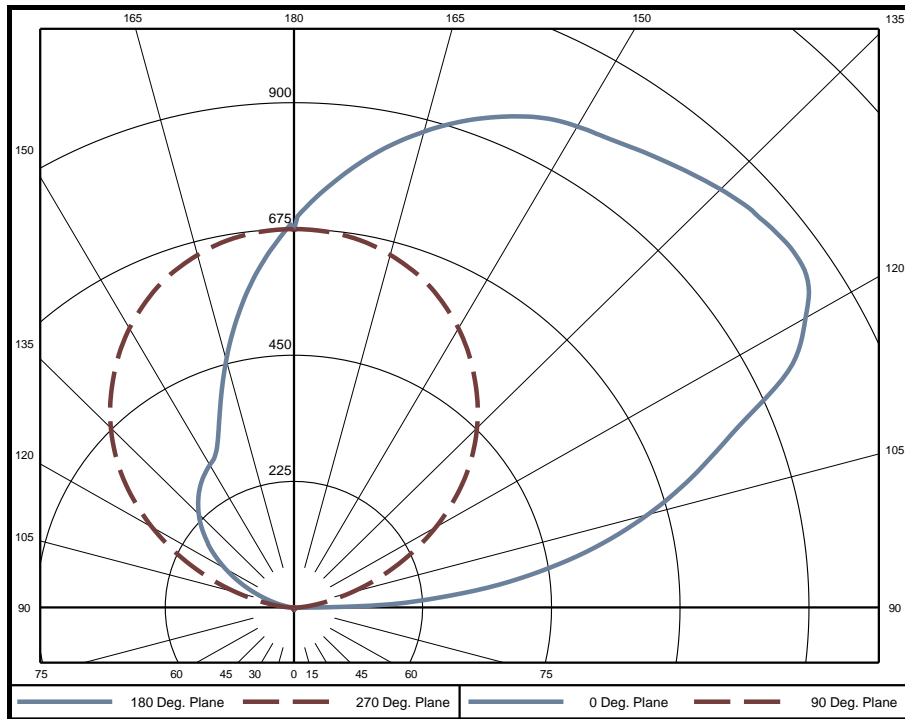
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.6 °C	120.0 VAC	0.1516 A	18.06 W	0.993	60 Hz	7.95 %

Summary of Results

Total Lumen Output:	2551 Lumens
Luminaire Efficacy:	141.3 lm/w
Maximum Candela:	1079 Candela

Polar Plot



Zonal Lumen Summary

Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire	Zone	Lumens	% of Luminaire
0-5	0	0.0%	60-65	0	0.0%	120-125	222.7	8.7%
5-10	0	0.0%	65-70	0	0.0%	125-130	222.6	8.7%
10-15	0	0.0%	70-75	0	0.0%	130-135	216.7	8.5%
15-20	0	0.0%	75-80	0	0.0%	135-140	206.0	8.1%
20-25	0	0.0%	80-85	0	0.0%	140-145	191.3	7.5%
25-30	0	0.0%	85-90	0	0.0%	145-150	173.5	6.8%
30-35	0	0.0%	90-95	34.4	1.3%	150-155	153.2	6.0%
35-40	0	0.0%	95-100	75.4	3.0%	155-160	130.6	5.1%
40-45	0	0.0%	100-105	117.0	4.6%	160-165	105.7	4.1%
45-50	0	0.0%	105-110	156.4	6.1%	165-170	78.0	3.1%
50-55	0	0.0%	110-115	190.3	7.5%	170-175	47.8	1.9%
55-60	0	0.0%	115-120	213.2	8.4%	175-180	16.1	0.6%

Zone	Lumens	% of Luminaire
0-40	0	0.0%
0-60	0	0.0%
0-90	0	0.0%
90-180	2551	100.0%



Candela Tabulation
Horizontal Angle (Degrees)

	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5
0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
35	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
45	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
50	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
55	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
65	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
70	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
75	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
80	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
90	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
95	297	306	215	106	18	6	3	2	2	2	3	6	18	106	215	306
100	486	474	360	238	53	22	15	11	13	11	15	22	53	238	360	474
105	640	621	523	372	103	50	38	31	36	31	38	50	103	372	523	621
110	771	770	688	457	161	86	70	61	66	61	70	86	161	457	688	770
115	928	915	790	522	223	122	107	96	101	96	107	122	223	522	790	915
120	1032	993	829	577	286	155	144	132	138	132	144	155	286	577	829	993
125	1079	1010	852	622	346	185	178	168	174	168	178	185	346	622	852	1010
130	1072	1008	868	657	402	218	208	200	206	200	208	218	402	657	868	1008
135	1055	998	877	685	452	259	233	227	235	227	233	259	452	685	877	998
140	1030	984	879	705	497	308	253	251	259	251	253	308	497	705	879	984
145	1008	969	876	721	538	361	274	269	279	269	274	361	538	721	876	969
150	991	949	867	732	575	416	314	286	294	286	314	416	575	732	867	949
155	966	919	850	736	606	470	369	317	317	317	369	470	606	736	850	919
160	927	883	828	736	632	521	432	376	377	376	432	521	632	736	828	883
165	879	841	800	729	651	566	498	449	457	449	498	566	651	729	800	841
170	823	790	765	716	665	606	562	527	540	527	562	606	665	716	765	790
175	759	731	721	696	673	641	620	600	619	600	620	641	673	696	721	731
180	674	674	674	674	674	674	674	674	674	674	674	674	674	674	674	674

Vertical Angle (Degrees)



Coefficients of Utilization - Zonal Cavity Method

Effective Floor Cavity Reflectance 20%

Ceiling Cavity Reflectance	80				70				50			30			10			0
Wall Reflectance	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
Room Cavity Ratio (RCR)	** Values are expressed as percent of total lumen output delivered to the task surface **																	
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	0
3	72	63	57	51	61	54	49	44	37	34	31	21	20	18	7	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	0