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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
CV4-2-1600-(800 LMFT)-35K-U30PW-UNI
Order Number
12356736
Test Number
12356736.01

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: 80 white LEDs
Mounting: Cove light
Ballast/Driver: One Universal Lighting Technologies D10CC30UNVPW-C driver

Luminaire



Luminaire Characteristics

Luminous Length: 3.00 in.
Luminous Width: 24.00 in.

Summary of Results

Total Luminaire Output:	1673 Lumens
Luminaire Efficacy:	132.5 lm/w
Maximum Candela:	708 Candela

Test Conditions

Test Temperature:	24.3 °C
Voltage:	120.0 VAC
Current:	0.1066 A
Power:	12.62 W
Power Factor:	0.987
Frequency:	60 Hz
Current THD:	10.3 %

The DUT was tested with the sides and top of luminaire in direct contact of at least 12 inches of R-38 fiberglass insulation.

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



Distribution - Goniophotometer

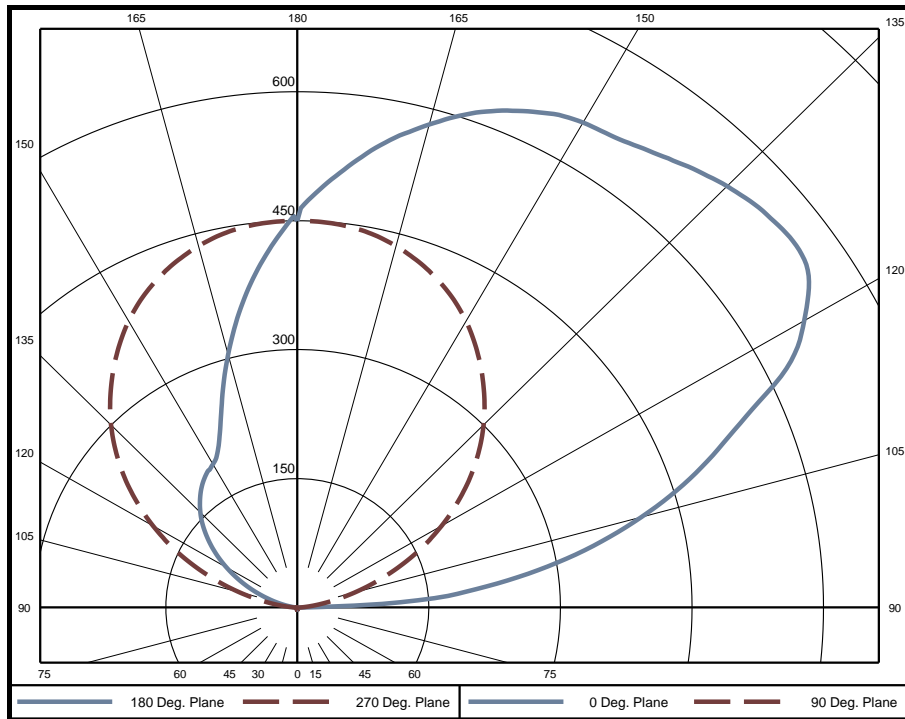
Distribution Test Conditions

Temperature	Voltage	Current	Power	Power Factor	Frequency	Current THD
24.3 °C	120.0 VAC	0.1066 A	12.62 W	0.987	60 Hz	10.3 %

Summary of Results

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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	146.3	8.7%
5-10	0	0.0%	65-70	0	0.0%	125-130	146.8	8.8%
10-15	0	0.0%	70-75	0	0.0%	130-135	143.2	8.6%
15-20	0	0.0%	75-80	0	0.0%	135-140	136.3	8.1%
20-25	0	0.0%	80-85	0	0.0%	140-145	126.7	7.6%
25-30	0	0.0%	85-90	0	0.0%	145-150	115.2	6.9%
30-35	0	0.0%	90-95	19.3	1.2%	150-155	102.1	6.1%
35-40	0	0.0%	95-100	46.8	2.8%	155-160	87.1	5.2%
40-45	0	0.0%	100-105	74.2	4.4%	160-165	70.6	4.2%
45-50	0	0.0%	105-110	100.7	6.0%	165-170	52.1	3.1%
50-55	0	0.0%	110-115	123.4	7.4%	170-175	31.9	1.9%
55-60	0	0.0%	115-120	139.3	8.3%	175-180	10.7	0.6%

Zone	Lumens	% of Luminaire
0-40	0	0.0%
0-60	0	0.0%
0-90	0	0.0%
90-180	1673	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95	183.3	189.2	132.1	63.4	10.5	4.2	2.7	1.8	2.2	1.8	2.7	4.2	10.5	63.4	132.1	189.2
100	300.7	296.4	225.3	146.8	33.5	15.7	11.3	9.2	10.8	9.2	11.3	15.7	33.5	146.8	225.3	296.4
105	405.8	394.0	329.9	234.1	67.7	34.7	27.5	23.7	26.2	23.7	27.5	34.7	67.7	234.1	329.9	394.0
110	497.3	492.0	435.9	296.0	106.8	57.8	48.9	43.7	46.8	43.7	48.9	57.8	106.8	296.0	435.9	492.0
115	590.7	589.4	509.7	339.8	148.9	80.7	72.9	66.7	69.9	66.7	72.9	80.7	148.9	339.8	509.7	589.4
120	667.2	648.6	542.8	376.6	189.8	102.2	96.9	90.4	93.4	90.4	96.9	102.2	189.8	376.6	542.8	648.6
125	705.6	666.5	558.7	406.5	229.1	121.4	119.1	113.4	116.5	113.4	119.1	121.4	229.1	406.5	558.7	666.5
130	704.4	666.1	570.0	431.6	266.3	144.4	138.4	134.3	137.8	134.3	138.4	144.4	266.3	431.6	570.0	666.1
135	693.0	660.5	577.1	451.3	300.3	173.9	154.2	152.1	156.5	152.1	154.2	173.9	300.3	451.3	577.1	660.5
140	675.5	651.1	579.7	467.0	330.8	207.2	167.1	166.6	172.1	166.6	167.1	207.2	330.8	467.0	579.7	651.1
145	659.5	640.6	578.5	479.4	359.1	244.2	180.9	178.2	184.4	178.2	180.9	244.2	359.1	479.4	578.5	640.6
150	651.4	629.1	574.4	489.1	384.8	282.6	209.2	189.0	192.5	189.0	209.2	282.6	384.8	489.1	574.4	629.1
155	636.2	609.8	564.2	492.8	405.7	318.3	247.4	212.1	211.6	212.1	247.4	318.3	405.7	492.8	564.2	609.8
160	613.4	585.5	549.3	492.2	422.5	351.0	289.9	252.2	252.0	252.2	289.9	351.0	422.5	492.2	549.3	585.5
165	581.7	558.6	531.4	488.6	435.3	381.2	333.4	301.8	304.9	301.8	333.4	381.2	435.3	488.6	531.4	558.6
170	546.1	525.2	508.2	480.0	444.5	407.7	375.1	352.4	359.6	352.4	375.1	407.7	444.5	480.0	508.2	525.2
175	503.7	486.8	479.5	466.7	448.8	430.4	413.3	400.4	411.4	400.4	413.3	430.4	448.8	466.7	479.5	486.8
180	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5	449.5

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