

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: METALUX

Report Number: P830397

Luminaire Tested: **OHBL-36SE-MCL-UNV-L840-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830397
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-36SE-MCL-UNV-L840-CD
Description: 36000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

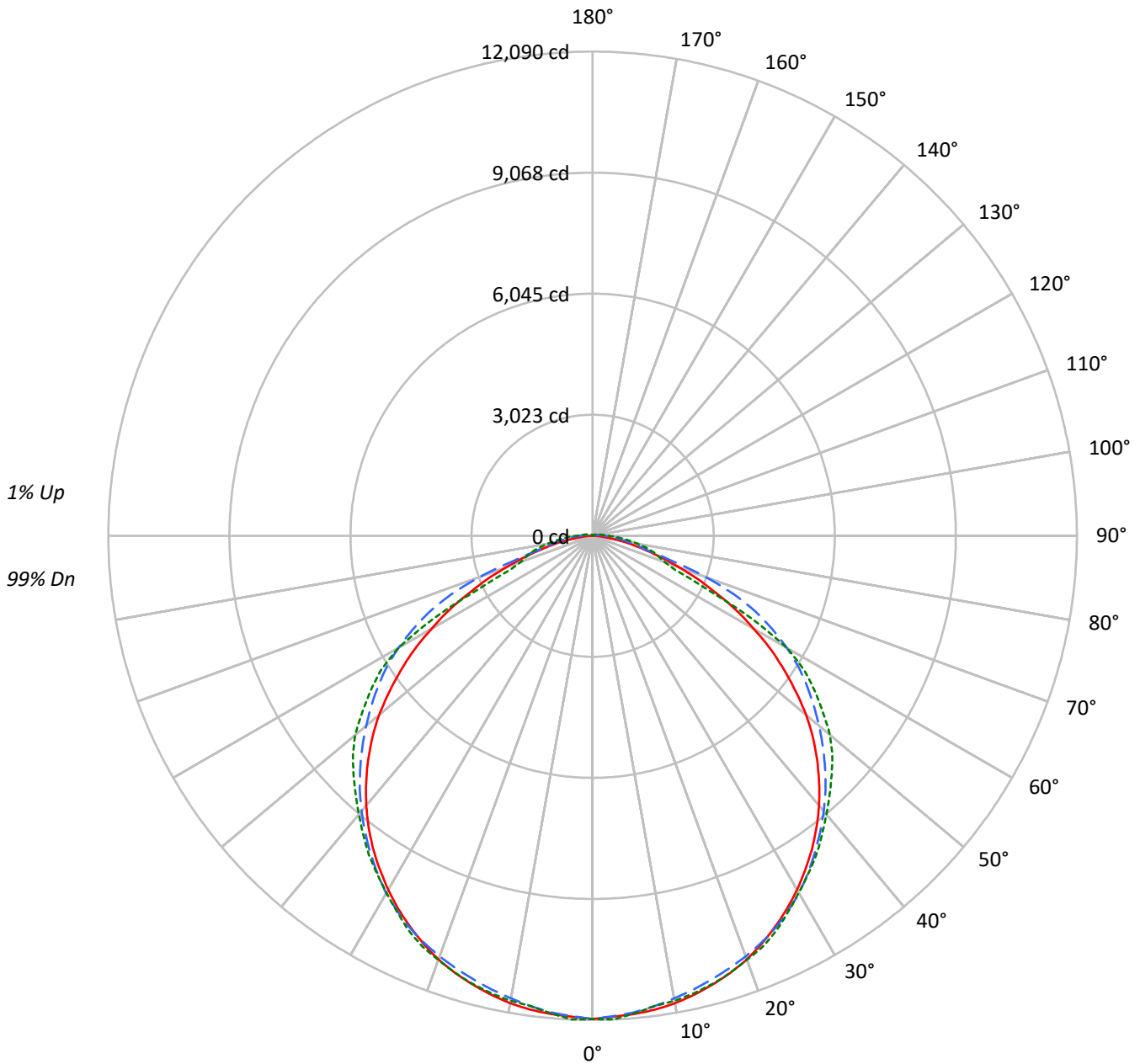
Lumens per Lamp: N/A
Luminaire Lumens: 34102.0 lumens
Efficiency: N/A
Efficacy: 161.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 211
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101	99																			
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86	83																			
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72	70																			
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61	59																			
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53	51																			
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46	44																			
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40	38																			
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34																			
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32	30																			
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29	27																			
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19081	19081	19081
5°	18956	18804	18843
10°	18887	18519	18634
15°	18767	18306	18509
20°	18647	18172	18345
25°	18422	18037	18183
30°	18177	17824	17839
35°	17885	17486	17649
40°	17504	17137	17391
45°	16977	16733	17277
50°	16263	16273	17140
55°	15128	15820	16500
60°	13642	15158	15255
65°	11702	13930	9668
70°	9426	10874	7009
75°	7067	6455	7114
80°	4919	5367	6792
85°	2799	4918	6366



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1137.6	3.3
10°-20°	3262.2	9.6
20°-30°	4982.5	14.6
30°-40°	6045.4	17.7
40°-50°	6336.2	18.6
50°-60°	5741.6	16.8
60°-70°	3849.5	11.3
70°-80°	1728.6	5.1
80°-90°	627.3	1.8
90°-100°	188.8	0.6
100°-110°	89.1	0.3
110°-120°	44.6	0.1
120°-130°	24.6	0.1
130°-140°	16.9	0.0
140°-150°	11.4	0.0
150°-160°	8.5	0.0
160°-170°	5.4	0.0
170°-180°	1.7	0.0
0°-30°	9382.3	27.5
0°-40°	15427.8	45.2
0°-60°	27505.5	80.7
0°-90°	33710.9	98.9
90°-120°	322.5	0.9
90°-150°	375.5	1.1
90°-180°	391.0	1.1
0°-180°	34102.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	12065	12065	12065	12065	12065	
5°	11987	12029	11945	11982	11966	###
15°	11598	11552	11470	11572	11586	3275
25°	10774	10727	10802	10902	10870	4966
35°	9550	9572	9670	9773	9735	5969
45°	7926	8055	8205	8414	8440	6105
55°	5832	6113	6530	6792	6776	5206
65°	3423	3958	4494	3793	3097	3410
75°	1347	1954	1438	1471	1567	1472
85°	232	445	570	689	722	283
90°	2	148	295	370	387	14
95°	2	92	202	246	253	2
105°	7	40	99	120	126	8
115°	14	21	51	64	68	13
125°	12	14	31	37	38	12
135°	16	17	19	28	30	12
145°	16	17	17	19	21	10
155°	17	19	19	19	17	8
165°	19	19	19	19	19	5
175°	19	19	17	16	16	2
180°	17	17	17	17	17	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	12065.3	12065.3	12065.3	12065.3	12065.3
2.5°	12016.5	12067.1	12004.3	12072.3	12089.7
5°	11986.8	12028.7	11944.9	11981.6	11965.9
7.5°	11932.7	11946.7	11847.2	11876.9	11845.5
10°	11852.5	11845.5	11728.6	11786.2	11793.2
12.5°	11733.9	11712.9	11608.2	11695.5	11697.2
15°	11597.8	11552.4	11470.4	11571.6	11585.6
17.5°	11440.8	11381.5	11327.4	11458.2	11437.3
20°	11257.6	11187.8	11177.3	11320.4	11268.1
22.5°	11030.8	10976.7	11001.1	11137.2	11104.1
25°	10774.3	10727.2	10802.3	10901.7	10870.3
27.5°	10503.9	10476.0	10561.5	10638.3	10577.2
30°	10207.4	10191.7	10305.1	10367.9	10291.1
32.5°	9884.6	9889.9	9998.0	10083.5	10012.0
35°	9549.7	9572.4	9670.0	9773.0	9734.6
37.5°	9181.6	9232.2	9329.9	9446.7	9406.6
40°	8792.5	8865.8	8974.0	9115.3	9078.6
42.5°	8372.1	8464.6	8604.1	8761.1	8757.6
45°	7925.5	8054.6	8204.6	8414.0	8440.1
47.5°	7461.4	7606.2	7796.4	8075.5	8115.7
50°	6957.3	7138.7	7376.0	7710.9	7735.3
52.5°	6395.5	6643.3	6957.3	7278.3	7248.6
55°	5832.0	6112.9	6529.9	6791.5	6775.8
57.5°	5270.3	5586.1	6092.0	6278.6	6276.9
60°	4642.3	5041.8	5594.8	5736.1	5596.5
62.5°	4061.3	4490.5	5064.4	4961.5	4483.5
65°	3422.8	3958.4	4494.0	3792.7	3096.6
67.5°	2855.8	3414.1	3817.1	2597.6	2224.3
70°	2285.4	2901.2	2976.2	1927.7	1901.6
72.5°	1779.4	2435.4	2053.3	1650.3	1734.1
75°	1346.8	1953.9	1437.5	1470.7	1566.6
77.5°	982.2	1500.3	1118.3	1289.2	1367.7
80°	675.1	1062.4	912.4	1083.4	1137.4
82.5°	423.9	701.3	731.0	872.3	928.1
85°	232.0	444.9	570.5	689.1	722.2
87.5°	96.0	268.7	436.1	532.1	560.0
90°	1.7	148.3	294.8	369.8	387.3
92.5°	1.7	113.4	240.7	298.3	310.5
95°	1.7	92.5	202.4	246.0	253.0
97.5°	3.5	73.3	169.2	204.1	211.1
100°	5.2	61.1	141.3	171.0	176.2
102.5°	7.0	48.8	118.6	143.1	148.3
105°	7.0	40.1	99.4	120.4	125.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	12.2	24.4	59.3	75.0	78.5
115°	14.0	20.9	50.6	64.5	68.0
117.5°	14.0	17.4	43.6	54.1	57.6
120°	14.0	15.7	38.4	47.1	48.8
122.5°	14.0	14.0	33.1	41.9	43.6
125°	12.2	14.0	31.4	36.6	38.4
127.5°	14.0	14.0	27.9	33.1	34.9
130°	14.0	15.7	24.4	31.4	31.4
132.5°	15.7	17.4	22.7	29.7	29.7
135°	15.7	17.4	19.2	27.9	29.7
137.5°	17.4	17.4	17.4	26.2	27.9
140°	17.4	17.4	15.7	22.7	24.4
142.5°	15.7	17.4	15.7	20.9	22.7
145°	15.7	17.4	17.4	19.2	20.9
147.5°	17.4	17.4	17.4	17.4	19.2
150°	17.4	17.4	17.4	17.4	17.4
152.5°	17.4	17.4	17.4	17.4	17.4
155°	17.4	19.2	19.2	19.2	17.4
157.5°	17.4	19.2	19.2	19.2	19.2
160°	17.4	19.2	19.2	19.2	19.2
162.5°	19.2	19.2	19.2	19.2	19.2
165°	19.2	19.2	19.2	19.2	19.2
167.5°	19.2	20.9	19.2	19.2	19.2
170°	19.2	19.2	19.2	17.4	17.4
172.5°	19.2	19.2	19.2	17.4	17.4
175°	19.2	19.2	17.4	15.7	15.7
177.5°	20.9	19.2	17.4	15.7	14.0
180°	17.4	17.4	17.4	17.4	17.4



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	8.7	33.1	85.5	102.9	106.4
110°	10.5	27.9	71.5	87.2	90.7



(END OF REPORT)