

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: P827201

Luminaire Tested: **OHBL-36SE-MCL-UNV-L840-CD-UPL18**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827201
REPORT IS A COMBINATION OF REPORTS P826174 AND G3-2310-221-8
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-UPL18
Description: 36000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM CLEAR LENS AND 1800 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

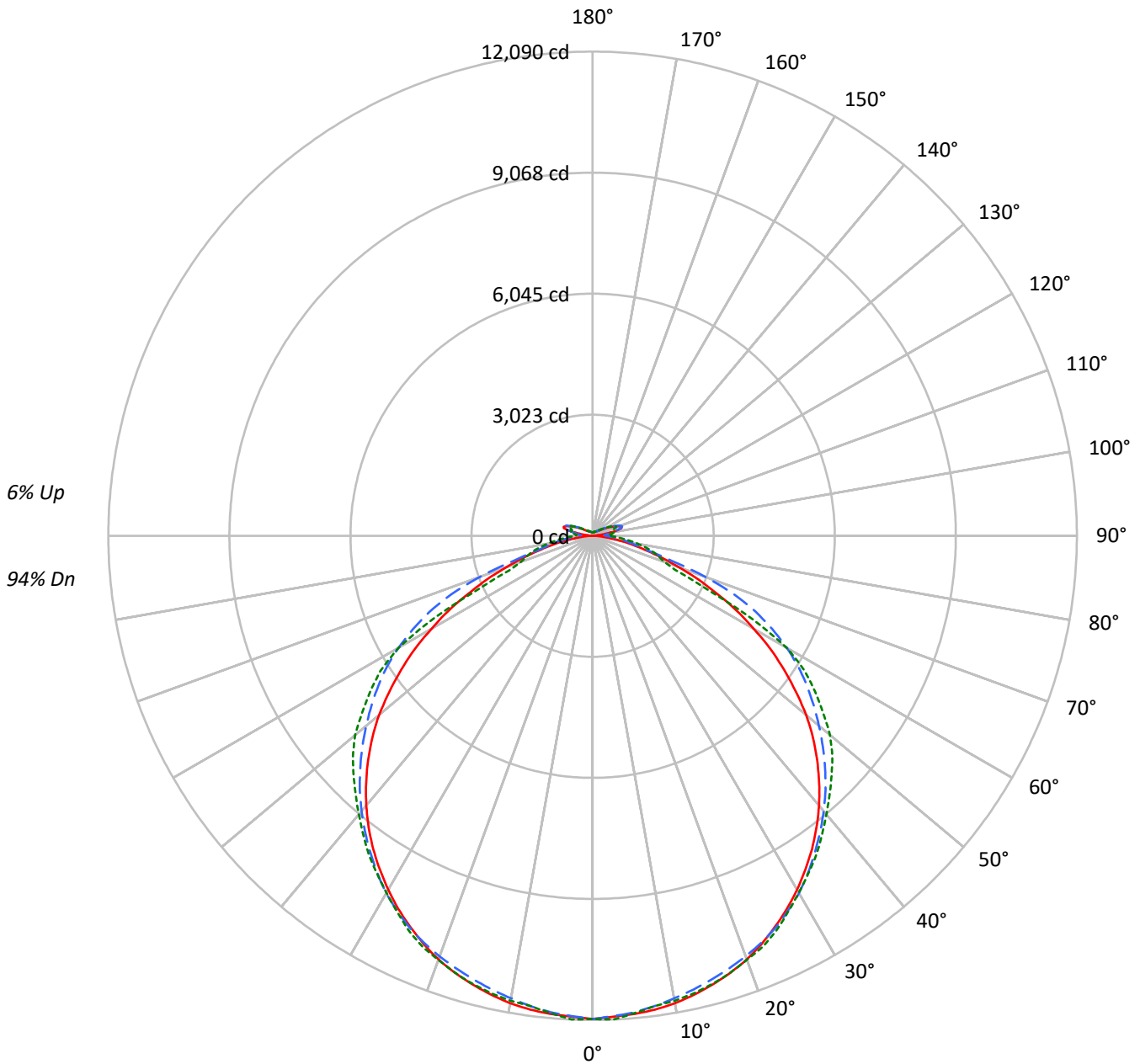
Lumens per Lamp: N/A
Luminaire Lumens: 35891.9 lumens
Efficiency: N/A
Efficacy: 160.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 223.3
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

TEST NUMBER: P827201

CATALOG NUMBER: OHBL-36SE-MCL-UNV-L840-CD-UPL18

Luminous Intensity Polar Plot





TEST NUMBER: P827201

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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	118	118	118	118	114	114	114	114	108	108	108	102	102	102	96	96	96	94																			
1	108	103	99	95	104	100	97	93	95	92	89	90	88	85	85	84	82	79																			
2	98	90	84	78	95	88	82	77	83	78	74	79	75	71	75	72	69	66																			
3	90	79	71	65	87	77	70	64	73	67	62	70	65	60	67	62	59	56																			
4	82	70	62	55	79	69	61	54	65	58	53	62	56	52	59	55	50	48																			
5	75	63	54	47	73	61	53	47	59	51	46	56	50	45	54	48	44	42																			
6	70	56	48	41	67	55	47	41	53	46	40	51	44	39	48	43	38	36																			
7	64	51	43	36	62	50	42	36	48	41	35	46	40	35	44	38	34	32																			
8	60	47	38	32	58	46	38	32	44	37	32	42	36	31	41	35	31	29																			
9	56	43	35	29	54	42	34	29	40	33	28	39	32	28	37	32	28	26																			
10	52	39	32	26	51	39	31	26	37	30	26	36	30	25	35	29	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19081	19081	19081
5°	18876	18804	18923
10°	18728	18519	18792
15°	18529	18306	18747
20°	18328	18172	18664
25°	18022	18037	18586
30°	17694	17824	18326
35°	17314	17486	18231
40°	16843	17137	18074
45°	16223	16733	18080
50°	15416	16273	18081
55°	14202	15820	17576
60°	12654	15158	16446
65°	10686	13930	10587
70°	8424	10874	7843
75°	6116	6455	8220
80°	4031	5367	8287
85°	2045	4918	8714



TEST NUMBER: P827201

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1137.6	3.2
10°-20°	3262.2	9.1
20°-30°	4982.5	13.9
30°-40°	6045.4	16.8
40°-50°	6336.2	17.7
50°-60°	5741.6	16.0
60°-70°	3849.5	10.7
70°-80°	1728.6	4.8
80°-90°	631.8	1.8
90°-100°	360.0	1.0
100°-110°	683.7	1.9
110°-120°	555.5	1.5
120°-130°	270.0	0.8
130°-140°	139.5	0.4
140°-150°	82.5	0.2
150°-160°	50.0	0.1
160°-170°	27.0	0.1
170°-180°	8.3	0.0
0°-30°	9382.3	26.1
0°-40°	15427.8	43.0
0°-60°	27505.5	76.6
0°-90°	33715.4	93.9
90°-120°	1599.3	4.5
90°-150°	2091.3	5.8
90°-180°	2176.0	6.1
0°-180°	35891.9	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°	6	173	329	415	437	17
95°	40	174	331	413	444	122
105°	748	774	725	561	533	711
115°	527	540	569	576	579	530
125°	262	276	300	305	304	247
135°	164	168	175	186	189	130
145°	124	127	130	133	135	79
155°	103	107	108	109	107	48
165°	93	94	94	95	95	27
175°	86	86	85	84	84	8
180°	84	84	84	84	84	



TEST NUMBER: P827201

CATALOG NUMBER: OHBL-36SE-MCL-UNV-L840-CD-UPL18

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°	5.7	173.3	328.8	414.8	437.3
92.5°	14.7	146.4	295.7	374.3	394.5
95°	39.7	174.5	331.4	413.0	444.0
97.5°	198.5	286.3	407.2	486.1	509.1
100°	407.2	483.1	495.3	542.0	553.2
102.5°	636.0	676.8	572.6	553.1	552.3
105°	748.0	774.1	725.4	561.4	532.6



TEST NUMBER: P827201

CATALOG NUMBER: OHBL-36SE-MCL-UNV-L840-CD-UPL18

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	614.2	630.4	653.3	653.0	631.5
115°	527.0	539.9	568.6	576.5	579.0
117.5°	451.0	457.4	485.6	494.1	498.6
120°	379.0	387.7	414.4	420.1	419.8
122.5°	319.0	328.0	352.1	357.9	357.6
125°	262.2	276.0	300.4	304.6	304.4
127.5°	226.0	235.0	257.9	262.1	261.9
130°	198.0	206.7	221.4	229.4	230.4
132.5°	180.7	185.4	196.7	204.7	206.7
135°	163.7	168.4	175.2	185.9	188.7
137.5°	152.4	155.4	159.4	170.2	172.9
140°	141.4	144.4	145.7	154.7	157.4
142.5°	130.7	135.4	136.7	142.9	145.7
145°	123.7	127.4	130.4	133.2	134.9
147.5°	118.4	120.4	122.4	124.4	126.2
150°	112.4	114.4	116.4	117.4	118.4
152.5°	108.4	109.4	111.4	112.4	112.4
155°	103.4	107.2	108.2	109.2	107.4
157.5°	100.4	103.2	104.2	105.2	105.2
160°	97.4	99.2	100.2	101.2	101.2
162.5°	96.2	96.2	97.2	98.2	98.2
165°	93.2	94.2	94.2	95.2	95.2
167.5°	91.2	92.9	92.2	92.2	93.2
170°	89.2	89.2	90.2	88.4	88.4
172.5°	87.2	88.2	88.2	86.4	86.4
175°	86.2	86.2	85.4	83.7	83.7
177.5°	86.9	86.2	84.4	82.7	81.0
180°	84.4	84.4	84.4	84.4	84.4



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	756.7	781.1	775.5	638.9	555.4
110°	695.5	720.9	734.5	690.2	624.7



(END OF REPORT)