

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: P827058

Luminaire Tested: **OHBL-12SE-MCL-UNV-L840-CD-UPL18**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827058
REPORT IS A COMBINATION OF REPORTS P826150 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-12SE-MCL-UNV-L840-CD-UPL18
Description: 12000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM CLEAR LENS AND 1800 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

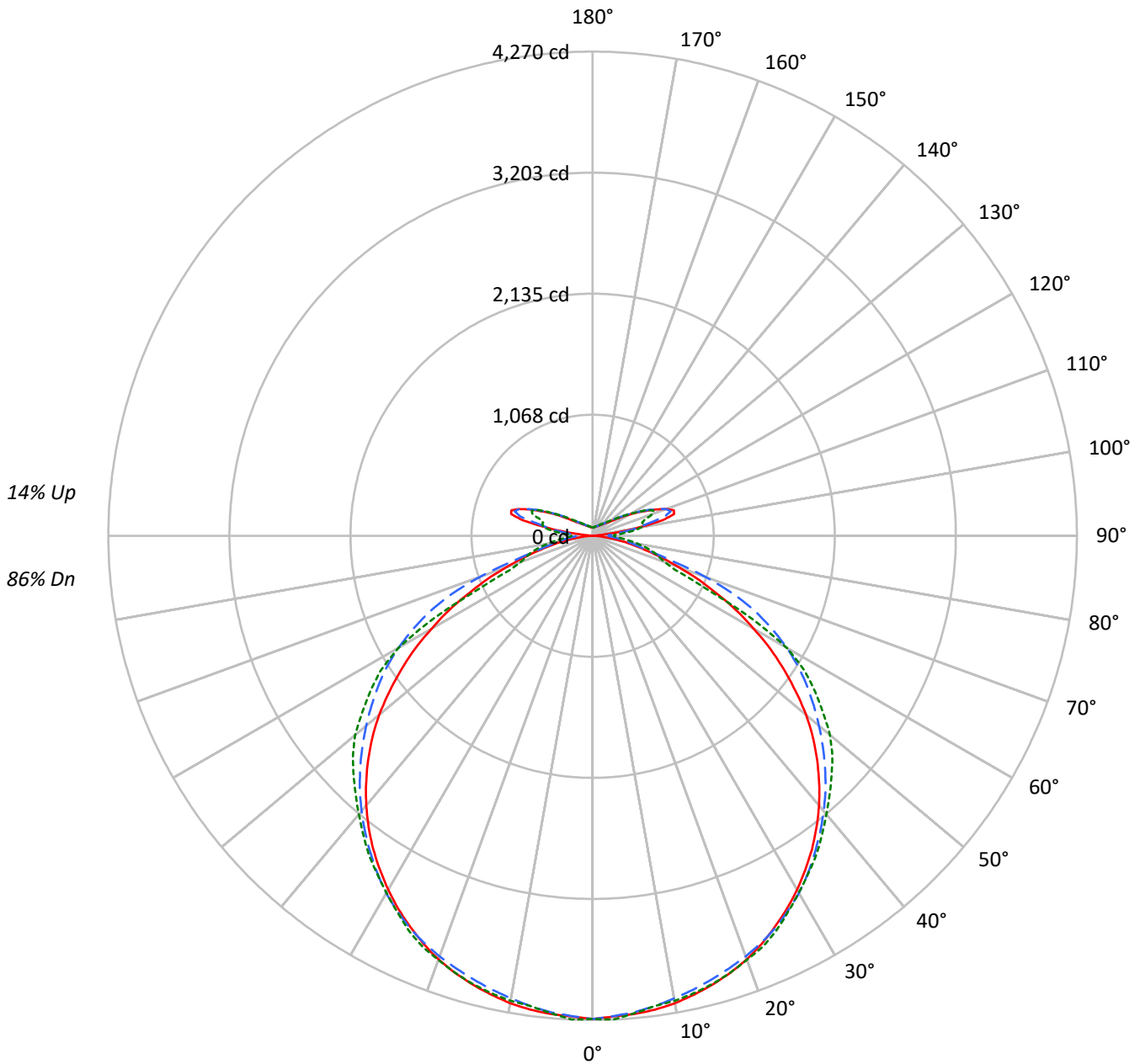
Lumens per Lamp: N/A
Luminaire Lumens: 13833.9 lumens
Efficiency: N/A
Efficacy: 168.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 82.3
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

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20	
RC	80				70				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	116	116	116	116	111	111	111	111	103	103	103	96	96	96	89	89	89	86				86
1	106	101	97	94	102	98	94	91	91	88	85	85	83	80	79	77	76	73				73
2	97	89	82	77	93	86	80	75	80	75	71	75	71	67	70	67	64	61				61
3	88	78	70	64	84	75	68	62	70	64	60	66	61	57	62	58	54	52				52
4	81	69	61	54	77	67	59	53	63	56	51	59	53	49	55	50	47	44				44
5	74	62	53	47	71	60	52	46	56	49	44	53	47	42	49	45	41	38				38
6	68	55	47	40	66	54	46	40	51	44	38	48	42	37	45	40	36	33				33
7	63	50	42	36	61	49	41	35	46	39	34	43	37	33	41	36	32	29				29
8	59	46	37	32	57	44	37	31	42	35	30	40	34	29	37	32	28	26				26
9	55	42	34	28	53	41	33	28	39	32	27	36	31	26	35	29	25	24				24
10	51	38	31	26	49	37	30	25	36	29	25	34	28	24	32	27	23	21				21

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13863	13863	13863
5°	13599	13580	13748
10°	13379	13295	13653
15°	13126	13064	13620
20°	12872	12889	13560
25°	12545	12712	13503
30°	12201	12477	13315
35°	11818	12152	13245
40°	11370	11815	13132
45°	10817	11435	13136
50°	10135	11008	13137
55°	9184	10575	12770
60°	8021	9987	11949
65°	6607	9012	7691
70°	5039	6868	5698
75°	3495	3942	5972
80°	2147	3110	6021
85°	962	2597	6332



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.8	2.9
10°-20°	1152.1	8.3
20°-30°	1759.7	12.7
30°-40°	2135.1	15.4
40°-50°	2237.8	16.2
50°-60°	2027.8	14.7
60°-70°	1359.5	9.8
70°-80°	610.5	4.4
80°-90°	226.0	1.6
90°-100°	237.9	1.7
100°-110°	626.1	4.5
110°-120°	526.6	3.8
120°-130°	254.0	1.8
130°-140°	128.5	0.9
140°-150°	75.2	0.5
150°-160°	44.5	0.3
160°-170°	23.5	0.2
170°-180°	7.2	0.1
0°-30°	3313.6	24.0
0°-40°	5448.7	39.4
0°-60°	9714.3	70.2
0°-90°	11910.3	86.1
90°-120°	1390.7	10.1
90°-150°	1848.4	13.4
90°-180°	1924.0	13.9
0°-180°	13833.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4261	4261	4261	4261	4261	
5°	4234	4248	4219	4232	4226	403
15°	4096	4080	4051	4087	4092	1156
25°	3805	3789	3815	3850	3839	1754
35°	3373	3381	3415	3452	3438	2108
45°	2799	2845	2898	2972	2981	2156
55°	2060	2159	2306	2399	2393	1839
65°	1209	1398	1587	1340	1094	1204
75°	476	690	508	519	553	520
85°	82	157	202	243	255	100
90°	5	77	138	176	187	8
95°	39	115	200	254	280	120
105°	744	748	661	484	451	706
115°	518	526	536	535	535	522
125°	254	267	280	281	280	239
135°	154	157	163	168	170	122
145°	114	116	119	121	121	72
155°	92	95	96	97	96	43
165°	81	82	82	83	83	23
175°	74	74	74	74	74	7
180°	73	73	73	73	73	



TEST NUMBER: P827058

CATALOG NUMBER: OHBL-12SE-MCL-UNV-L840-CD-UPL18

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4261.2	4261.2	4261.2	4261.2	4261.2
2.5°	4243.9	4261.8	4239.6	4263.6	4269.8
5°	4233.5	4248.2	4218.7	4231.6	4226.1
7.5°	4214.4	4219.3	4184.2	4194.6	4183.5
10°	4186.0	4183.5	4142.3	4162.6	4165.1
12.5°	4144.1	4136.7	4099.8	4130.6	4131.2
15°	4096.1	4080.0	4051.1	4086.8	4091.7
17.5°	4040.6	4019.7	4000.6	4046.8	4039.4
20°	3975.9	3951.3	3947.6	3998.1	3979.6
22.5°	3895.8	3876.7	3885.3	3933.4	3921.7
25°	3805.2	3788.6	3815.1	3850.2	3839.1
27.5°	3709.7	3699.9	3730.1	3757.2	3735.6
30°	3605.0	3599.5	3639.5	3661.7	3634.6
32.5°	3491.0	3492.9	3531.1	3561.3	3536.0
35°	3372.7	3380.7	3415.2	3451.6	3438.0
37.5°	3242.7	3260.6	3295.1	3336.4	3322.2
40°	3105.3	3131.2	3169.4	3219.3	3206.4
42.5°	2956.8	2989.5	3038.8	3094.2	3093.0
45°	2799.1	2844.7	2897.7	2971.6	2980.9
47.5°	2635.2	2686.3	2753.5	2852.1	2866.3
50°	2457.1	2521.2	2605.0	2723.3	2731.9
52.5°	2258.7	2346.2	2457.1	2570.5	2560.0
55°	2059.7	2158.9	2306.2	2398.6	2393.1
57.5°	1861.3	1972.9	2151.5	2217.5	2216.8
60°	1639.5	1780.6	1975.9	2025.8	1976.6
62.5°	1434.4	1585.9	1788.6	1752.3	1583.5
65°	1208.9	1398.0	1587.2	1339.5	1093.6
67.5°	1008.6	1205.8	1348.1	917.4	785.6
70°	807.1	1024.6	1051.1	680.8	671.6
72.5°	628.5	860.1	725.2	582.9	612.4
75°	475.7	690.1	507.7	519.4	553.3
77.5°	346.9	529.9	394.9	455.3	483.0
80°	238.4	375.2	322.2	382.6	401.7
82.5°	149.7	247.7	258.2	308.1	327.8
85°	81.9	157.1	201.5	243.4	255.1
87.5°	33.9	94.9	154.0	187.9	197.8
90°	4.6	77.4	138.1	175.6	186.8
92.5°	13.6	73.0	140.0	181.4	193.7
95°	38.6	114.7	200.5	253.9	280.3
97.5°	196.2	238.9	297.8	354.1	372.6
100°	403.8	443.6	403.9	431.4	439.2
102.5°	631.5	645.3	495.9	460.5	456.4
105°	743.5	748.2	661.1	483.5	451.4



TEST NUMBER: P827058

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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	606.3	614.6	614.9	604.5	580.7
115°	517.9	526.4	535.9	534.8	535.0
117.5°	441.9	446.2	457.4	459.1	461.3
120°	369.9	377.5	389.6	389.6	388.3
122.5°	309.9	318.9	330.7	330.8	329.4
125°	254.3	266.9	280.1	280.9	279.6
127.5°	216.9	225.9	239.9	240.7	239.3
130°	188.9	196.5	205.6	209.1	210.1
132.5°	170.5	174.2	182.0	185.5	187.5
135°	153.5	157.2	162.8	167.9	169.5
137.5°	141.2	144.2	148.2	153.2	154.9
140°	130.2	133.2	135.5	140.0	141.6
142.5°	120.5	124.2	126.5	129.4	131.0
145°	113.5	116.2	119.2	120.8	121.4
147.5°	107.2	109.2	111.2	113.2	113.8
150°	101.2	103.2	105.2	106.2	107.2
152.5°	97.2	98.2	100.2	101.2	101.2
155°	92.2	94.8	95.8	96.8	96.2
157.5°	89.2	90.8	91.8	92.8	92.8
160°	86.2	86.8	87.8	88.8	88.8
162.5°	83.8	83.8	84.8	85.8	85.8
165°	80.8	81.8	81.8	82.8	82.8
167.5°	78.8	79.4	79.8	79.8	80.8
170°	76.8	76.8	77.8	77.2	77.2
172.5°	74.8	75.8	75.8	75.2	75.2
175°	73.8	73.8	74.2	73.5	73.5
177.5°	73.4	73.8	73.2	72.5	71.9
180°	73.2	73.2	73.2	73.2	73.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	751.1	759.7	720.2	572.4	486.6
110°	688.7	702.9	688.3	633.8	566.0



(END OF REPORT)