

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: P827083

Luminaire Tested: **OHBL-15SE-MFL-UNV-L840-CD-UPL15**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827083
REPORT IS A COMBINATION OF REPORTS P826115 AND G3-2310-221-10
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-15SE-MFL-UNV-L840-CD-UPL15
Description: 15000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM FROSTED LENS AND 1500 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

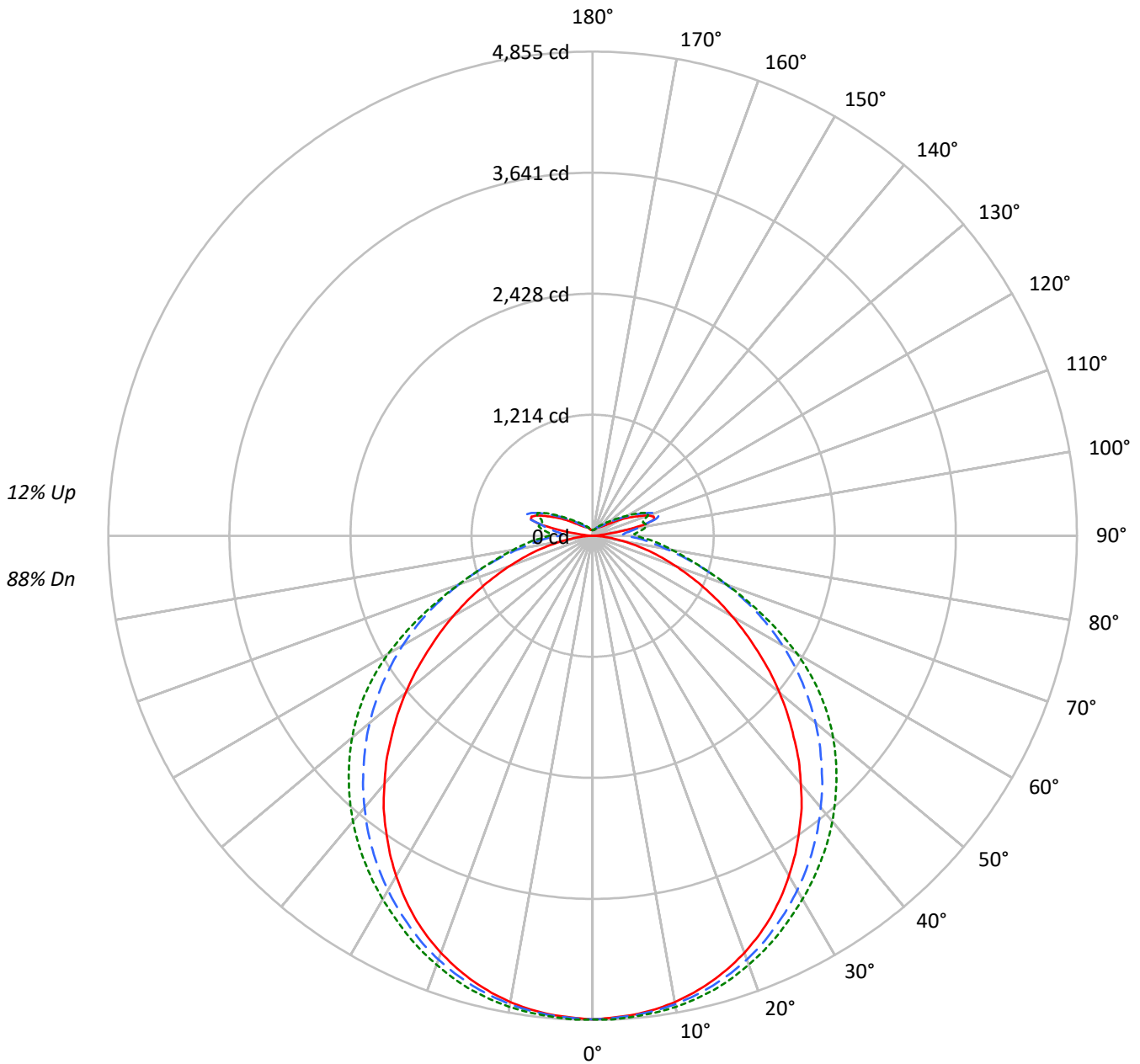
Lumens per Lamp: N/A
Luminaire Lumens: 16034.2 lumens
Efficiency: N/A
Efficacy: 164.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 97.3
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									
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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	91	91	91	88																			
1	105	100	96	92	101	97	93	89	90	87	84	84	82	80	79	77	75	72																			
2	96	87	80	75	92	84	78	73	79	74	69	74	70	66	69	66	63	60																			
3	87	77	68	62	84	74	67	61	69	63	58	65	60	55	61	57	53	50																			
4	80	68	59	52	77	66	58	51	62	55	49	58	52	47	54	49	45	43																			
5	73	61	52	45	70	59	50	44	55	48	43	52	46	41	49	44	39	37																			
6	68	54	46	39	65	53	45	39	50	43	37	47	41	36	44	39	35	32																			
7	63	49	41	35	60	48	40	34	45	38	33	43	36	32	40	35	31	29																			
8	58	45	36	31	56	44	36	30	41	34	29	39	33	28	37	32	28	26																			
9	54	41	33	28	52	40	32	27	38	31	26	36	30	26	34	29	25	23																			
10	51	38	30	25	49	37	30	25	35	28	24	33	27	23	32	26	23	21																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	15778	15778	15778
5°	15480	15536	15743
10°	15178	15307	15727
15°	14819	15054	15686
20°	14407	14765	15595
25°	13923	14427	15506
30°	13329	14067	15419
35°	12652	13688	15360
40°	11883	13262	15312
45°	11014	12802	15236
50°	10085	12329	15137
55°	9002	11768	14903
60°	7903	11117	14315
65°	6734	10312	13257
70°	5499	9314	12125
75°	4264	8164	11531
80°	2854	7172	12079
85°	1423	6792	15143



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.6	2.9
10°-20°	1318.4	8.2
20°-30°	1993.8	12.4
30°-40°	2393.6	14.9
40°-50°	2472.2	15.4
50°-60°	2224.2	13.9
60°-70°	1675.5	10.4
70°-80°	1011.7	6.3
80°-90°	498.6	3.1
90°-100°	353.9	2.2
100°-110°	623.5	3.9
110°-120°	503.4	3.1
120°-130°	247.6	1.5
130°-140°	124.8	0.8
140°-150°	70.5	0.4
150°-160°	39.0	0.2
160°-170°	18.3	0.1
170°-180°	5.6	0.0
0°-30°	3771.8	23.5
0°-40°	6165.4	38.5
0°-60°	10861.9	67.7
0°-90°	14047.8	87.6
90°-120°	1480.8	9.2
90°-150°	1923.6	12.0
90°-180°	1986.0	12.4
0°-180°	16034.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4850	4850	4850	4850	4850	
5°	4819	4832	4826	4845	4839	458
15°	4624	4647	4668	4708	4712	1304
25°	4223	4270	4330	4398	4408	1943
35°	3611	3695	3847	3963	3987	2257
45°	2850	2994	3244	3421	3458	2200
55°	2019	2228	2566	2760	2793	1810
65°	1232	1484	1816	1906	1885	1224
75°	580	833	1052	1079	1068	619
85°	121	319	527	599	610	140
90°	3	147	330	418	438	10
95°	34	156	332	429	463	105
105°	641	673	663	547	523	607
115°	446	463	521	546	542	450
125°	220	236	278	297	300	208
135°	133	140	157	177	182	106
145°	103	104	107	118	122	65
155°	85	87	88	87	89	38
165°	63	63	64	64	64	18
175°	57	57	57	58	58	6
180°	57	57	57	57	57	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4849.9	4849.9	4849.9	4849.9	4849.9
2.5°	4835.7	4847.5	4840.4	4855.9	4854.7
5°	4819.1	4832.1	4826.2	4845.2	4839.2
7.5°	4790.6	4804.8	4803.6	4825.0	4822.6
10°	4749.0	4764.5	4769.2	4797.7	4797.7
12.5°	4692.1	4712.2	4724.1	4758.5	4759.7
15°	4624.4	4647.0	4668.3	4707.5	4712.2
17.5°	4542.5	4571.0	4600.7	4645.8	4651.7
20°	4449.9	4482.0	4522.3	4569.8	4576.9
22.5°	4343.1	4381.1	4433.3	4489.1	4497.4
25°	4223.2	4269.5	4330.0	4397.7	4408.4
27.5°	4086.7	4140.1	4222.0	4298.0	4307.5
30°	3938.3	4001.2	4103.3	4193.5	4209.0
32.5°	3781.7	3854.1	3979.9	4080.8	4102.1
35°	3610.7	3695.0	3846.9	3963.3	3987.0
37.5°	3442.2	3534.8	3706.9	3839.8	3868.3
40°	3245.2	3360.3	3557.3	3704.5	3738.9
42.5°	3060.0	3184.6	3407.8	3568.0	3601.2
45°	2849.9	2993.5	3244.0	3420.8	3457.6
47.5°	2652.9	2808.4	3086.1	3268.9	3306.9
50°	2445.1	2616.1	2917.6	3108.7	3147.8
52.5°	2237.4	2421.4	2743.1	2941.3	2978.1
55°	2019.0	2227.9	2566.2	2759.7	2792.9
57.5°	1816.1	2036.8	2384.6	2568.6	2588.8
60°	1615.5	1844.5	2199.4	2360.9	2368.0
62.5°	1419.6	1660.6	2009.5	2137.7	2128.2
65°	1232.1	1483.7	1816.1	1906.3	1884.9
67.5°	1051.6	1311.6	1617.8	1676.0	1647.5
70°	880.7	1144.2	1425.5	1455.2	1429.1
72.5°	730.0	985.2	1230.9	1255.8	1236.8
75°	580.4	833.2	1051.6	1078.9	1068.3
77.5°	440.4	686.1	886.7	922.3	924.6
80°	316.9	551.9	743.0	798.8	805.9
82.5°	208.9	428.5	623.2	694.4	705.1
85°	121.1	319.3	527.0	599.4	610.1
87.5°	52.2	230.3	423.7	489.0	502.1
90°	3.0	146.6	330.5	417.8	438.3
92.5°	13.6	131.3	304.8	394.0	417.0
95°	33.9	156.3	332.5	429.2	462.9
97.5°	173.1	258.2	399.8	485.4	514.1
100°	344.1	425.7	468.7	533.6	550.1
102.5°	549.1	578.6	535.4	540.3	542.6
105°	641.3	672.7	662.6	546.9	523.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	518.5	548.0	597.2	610.1	596.8
115°	445.5	463.3	520.7	546.0	541.8
117.5°	384.7	395.7	447.2	471.3	472.9
120°	322.7	336.2	379.9	401.6	405.4
122.5°	268.7	282.6	326.8	346.3	348.9
125°	220.5	236.1	277.7	297.0	299.6
127.5°	188.3	197.7	236.5	257.9	259.5
130°	164.3	170.5	202.6	223.8	227.3
132.5°	147.3	153.7	177.7	197.7	203.4
135°	133.3	139.7	156.9	176.7	182.5
137.5°	123.3	127.7	141.2	158.8	164.5
140°	114.5	118.7	127.6	142.9	148.6
142.5°	108.7	110.7	115.1	130.1	133.7
145°	102.9	103.7	106.9	118.4	121.9
147.5°	97.9	99.9	101.9	106.6	111.2
150°	92.9	96.1	95.9	98.1	101.6
152.5°	88.9	91.1	91.9	90.7	94.1
155°	84.9	87.1	87.9	86.7	88.9
157.5°	70.0	71.0	72.0	73.0	73.0
160°	67.0	68.0	69.0	69.0	70.0
162.5°	65.0	66.0	66.0	67.0	67.0
165°	63.0	63.0	64.0	64.0	64.0
167.5°	61.0	61.0	62.0	62.0	63.0
170°	59.0	60.0	60.0	60.0	61.0
172.5°	58.0	58.0	59.0	59.0	59.0
175°	57.0	57.0	57.0	58.0	58.0
177.5°	56.0	57.0	57.0	57.0	57.0
180°	57.0	57.0	57.0	57.0	57.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	641.3	676.7	702.1	603.9	536.9
110°	592.3	627.0	665.1	647.3	591.2



(END OF REPORT)