

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: P827084

Luminaire Tested: **OHBL-15SE-MFL-UNV-L840-CD-UPL24**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P827084
REPORT IS A COMBINATION OF REPORTS P826223 AND G3-2310-221-6
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-UPL24
Description: 15000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM FROSTED LENS AND 2400 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

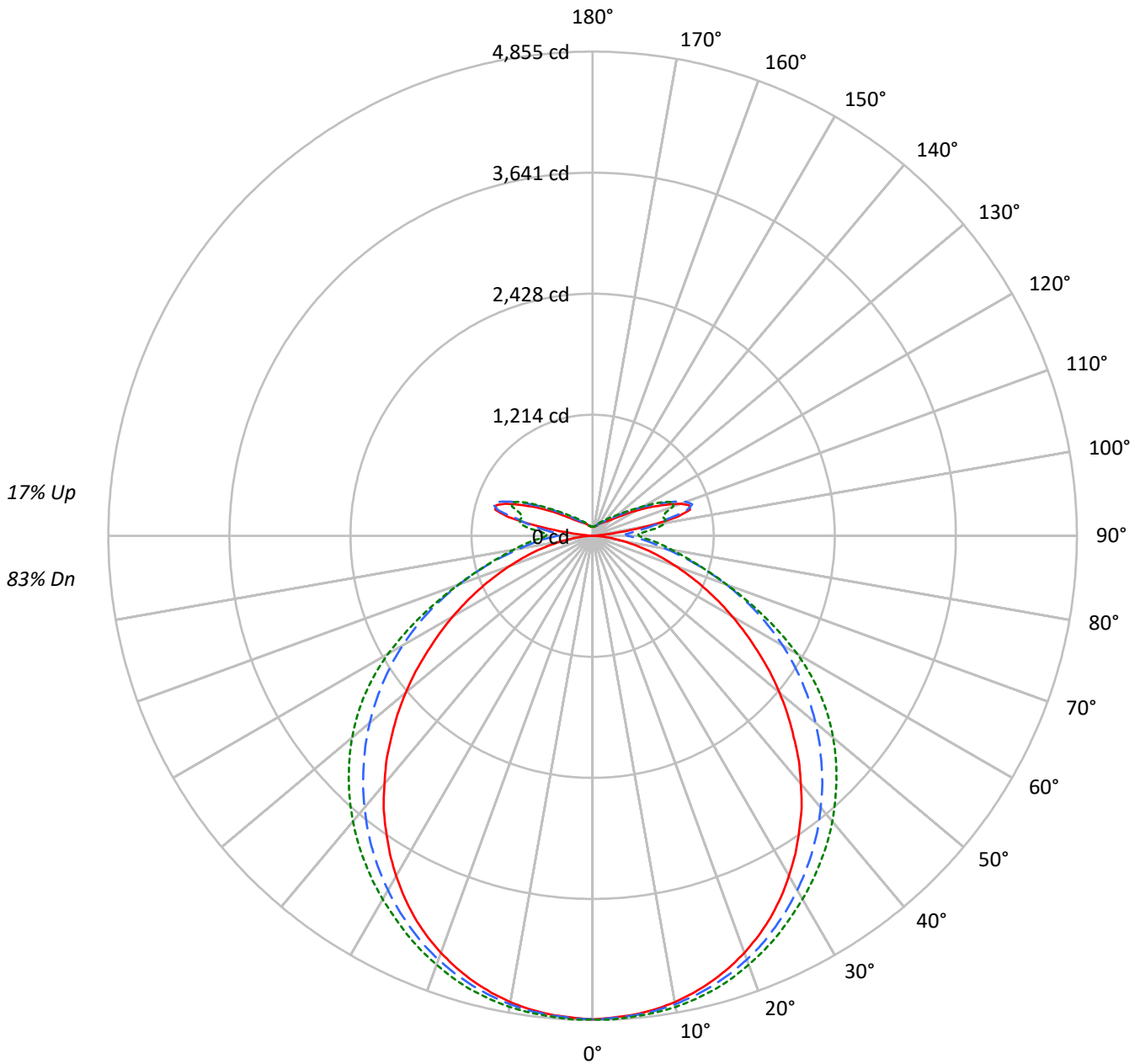
Lumens per Lamp: N/A
Luminaire Lumens: 16935.3 lumens
Efficiency: N/A
Efficacy: 162.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 104.4
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									
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	50	30	10	0						
RCR																														
0	115	115	115	115	110	110	110	110	102	102	102	94	94	94	86	86	86	83												
1	104	100	95	91	100	96	92	88	88	85	82	81	79	77	75	73	72	68												
2	95	87	80	74	91	83	77	72	77	72	68	71	67	64	66	63	60	57												
3	86	76	68	61	82	73	66	60	68	62	57	63	58	53	58	54	50	48												
4	79	67	59	52	75	65	57	51	60	53	48	56	50	46	52	47	43	41												
5	73	60	51	45	69	58	50	44	54	47	42	50	44	40	47	42	38	35												
6	67	54	45	39	64	52	44	38	49	41	36	45	39	35	42	37	33	31												
7	62	49	40	34	59	47	39	33	44	37	32	41	35	31	38	33	29	27												
8	58	44	36	30	55	43	35	30	40	33	29	38	32	27	35	30	26	24												
9	54	41	33	27	52	39	32	27	37	30	26	35	29	25	33	27	24	22												
10	50	37	30	25	48	36	29	24	34	28	23	32	26	22	30	25	21	20												

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	2.7
10°-20°	1318.4	7.8
20°-30°	1993.8	11.8
30°-40°	2393.6	14.1
40°-50°	2472.2	14.6
50°-60°	2224.2	13.1
60°-70°	1675.5	9.9
70°-80°	1011.7	6.0
80°-90°	501.0	3.0
90°-100°	440.1	2.6
100°-110°	923.8	5.5
110°-120°	760.3	4.5
120°-130°	370.7	2.2
130°-140°	186.5	1.1
140°-150°	106.2	0.6
150°-160°	59.8	0.4
160°-170°	29.0	0.2
170°-180°	8.8	0.1
0°-30°	3771.8	22.3
0°-40°	6165.4	36.4
0°-60°	10861.9	64.1
0°-90°	14050.1	83.0
90°-120°	2124.1	12.5
90°-150°	2787.6	16.5
90°-180°	2885.0	17.0
0°-180°	16935.3	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°	5	159	348	442	464	11
95°	59	195	398	515	556	170
105°	1011	1041	975	772	730	960
115°	702	726	780	805	804	708
125°	348	369	412	432	433	326
135°	208	215	236	256	262	165
145°	157	160	164	174	179	99
155°	128	131	132	132	133	58
165°	100	101	102	102	102	29
175°	90	91	91	92	92	9
180°	90	90	90	90	90	



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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°	5.0	158.6	348.5	441.8	464.3
92.5°	20.6	148.3	330.8	432.0	458.0
95°	58.9	195.3	397.5	515.2	555.9
97.5°	276.1	362.2	508.8	629.4	673.1
100°	559.1	647.7	642.7	719.6	738.1
102.5°	860.1	902.6	766.4	746.3	746.6
105°	1011.3	1040.7	974.6	771.9	730.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	817.5	852.0	894.2	902.1	874.8
115°	701.5	726.3	779.7	805.0	803.8
117.5°	602.7	616.7	668.2	693.3	697.9
120°	500.7	521.2	572.9	591.6	590.4
122.5°	421.7	439.6	484.8	505.3	502.9
125°	347.5	369.1	411.7	432.0	432.6
127.5°	294.3	309.7	350.5	372.9	375.5
130°	257.3	266.5	302.6	323.8	328.3
132.5°	229.3	238.7	264.7	287.7	291.4
135°	208.3	214.7	235.9	255.7	262.5
137.5°	191.3	196.7	212.2	231.8	236.5
140°	177.5	182.7	193.6	209.9	215.6
142.5°	165.7	169.7	176.1	191.1	194.7
145°	156.9	159.7	163.9	174.4	178.9
147.5°	147.9	151.9	153.9	160.6	164.2
150°	140.9	144.1	145.9	148.1	152.6
152.5°	133.9	137.1	138.9	138.7	141.1
155°	127.9	131.1	131.9	131.7	132.9
157.5°	111.0	113.0	115.0	116.0	116.0
160°	107.0	108.0	110.0	111.0	111.0
162.5°	103.0	104.0	105.0	106.0	106.0
165°	100.0	101.0	102.0	102.0	102.0
167.5°	97.0	97.0	98.0	99.0	99.0
170°	94.0	95.0	95.0	96.0	96.0
172.5°	92.0	93.0	93.0	93.0	94.0
175°	90.0	91.0	91.0	92.0	92.0
177.5°	90.0	90.0	90.0	90.0	90.0
180°	90.0	90.0	90.0	90.0	90.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1015.3	1053.7	1048.1	880.9	764.9
110°	937.3	976.0	995.1	951.3	859.2



(END OF REPORT)