

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: P827085

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P827085
REPORT IS A COMBINATION OF REPORTS P826116 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-N-UNV-L840-CD-UPL15
Description: 15000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENS AND 1500 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

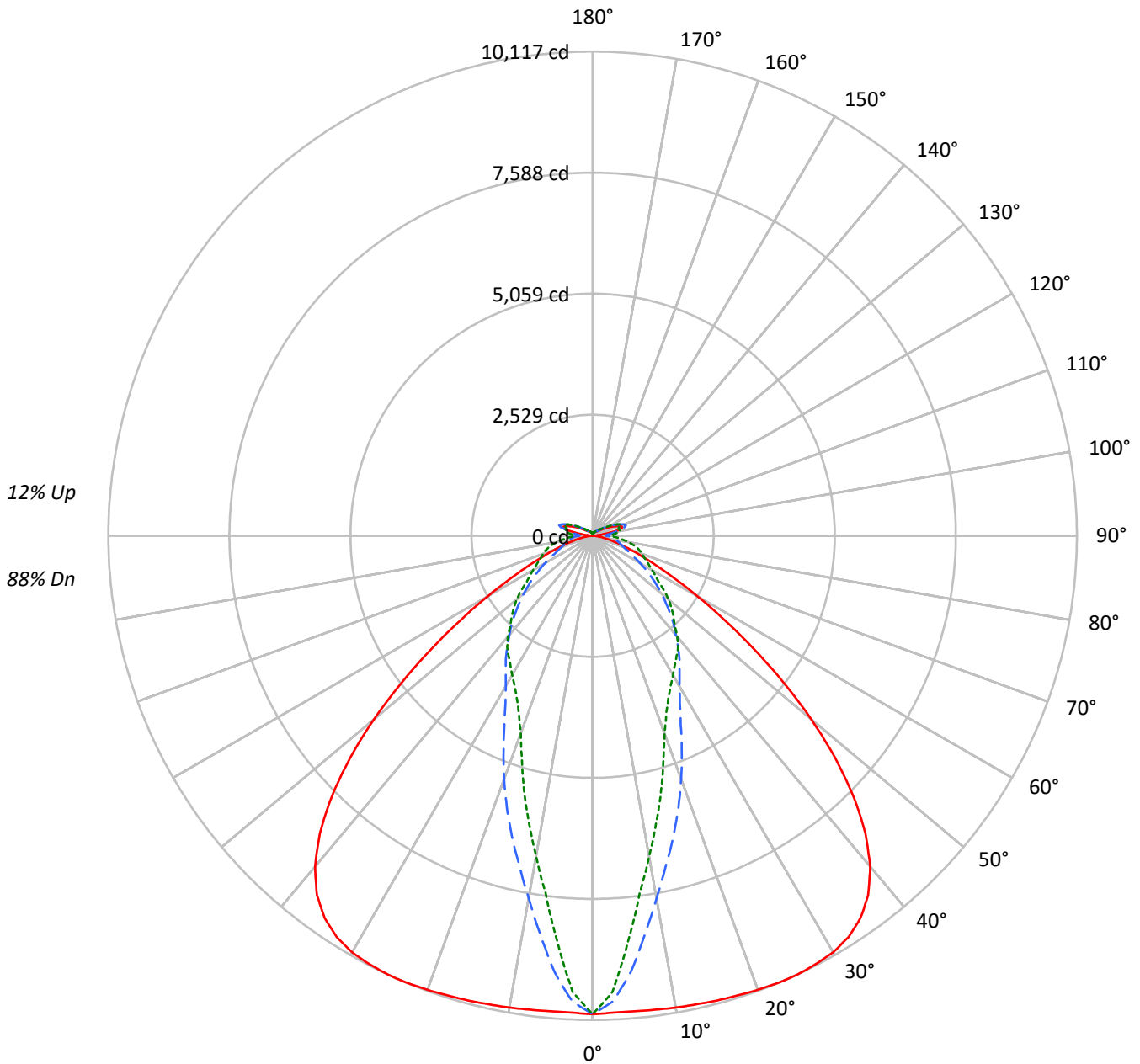
Lumens per Lamp: N/A
Luminaire Lumens: 16270.2 lumens
Efficiency: N/A
Efficacy: 167.2 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 0.88' x H: 0.17')
CIE Type: Semi-Direct

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	107	102	98	95	103	99	95	92	92	90	87	86	84	82	81	79	78	75																			
2	98	91	84	79	94	88	82	77	82	78	74	77	74	70	73	70	67	64																			
3	90	81	74	68	87	78	72	66	74	68	64	69	65	61	65	62	58	56																			
4	83	73	65	59	80	71	63	58	67	60	56	63	58	54	59	55	52	49																			
5	77	66	58	52	75	64	56	51	61	54	49	57	52	48	54	50	46	44																			
6	72	60	52	46	69	58	51	45	55	49	44	53	47	43	50	45	41	39																			
7	67	55	47	41	65	53	46	41	51	44	40	48	43	38	46	41	37	35																			
8	63	50	43	37	61	49	42	37	47	41	36	45	39	35	43	38	34	32																			
9	59	47	39	34	57	46	38	34	44	37	33	42	36	32	40	35	31	29																			
10	56	43	36	31	54	42	35	31	41	34	30	39	33	29	37	32	29	27																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	32516	32516	32516
5°	32040	29448	27665
10°	31996	24669	22292
15°	32207	20981	18387
20°	32682	17641	14949
25°	33354	14516	13169
30°	34012	12428	12305
35°	34182	11251	11797
40°	33026	10089	11270
45°	29802	9043	10517
50°	24593	7915	9963
55°	18204	6857	8964
60°	12355	5803	8700
65°	7980	4915	8670
70°	5161	4512	9322
75°	3313	4512	10329
80°	2013	4766	11305
85°	928	5480	13482



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	841.3	5.2
10°-20°	1979.2	12.2
20°-30°	2480.9	15.2
30°-40°	2632.5	16.2
40°-50°	2380.2	14.6
50°-60°	1725.8	10.6
60°-70°	1083.0	6.7
70°-80°	716.7	4.4
80°-90°	416.7	2.6
90°-100°	345.7	2.1
100°-110°	642.7	4.0
110°-120°	518.8	3.2
120°-130°	249.4	1.5
130°-140°	123.0	0.8
140°-150°	70.8	0.4
150°-160°	39.7	0.2
160°-170°	18.3	0.1
170°-180°	5.6	0.0
0°-30°	5301.4	32.6
0°-40°	7933.9	48.8
0°-60°	12039.9	74.0
0°-90°	14256.4	87.6
90°-120°	1507.1	9.3
90°-150°	1950.3	12.0
90°-180°	2014.0	12.4
0°-180°	16270.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9995	9995	9995	9995	9995	
5°	9975	9719	9148	8724	8504	953
15°	10051	8192	6506	5786	5524	2850
25°	10117	6334	4357	3867	3744	4674
35°	9755	4211	3162	3063	3062	6064
45°	7712	2667	2292	2347	2387	5875
55°	4083	1653	1495	1622	1680	3689
65°	1460	959	866	1109	1233	1519
75°	451	516	581	903	957	503
85°	79	214	425	592	543	95
90°	3	111	275	385	393	7
95°	32	135	324	437	473	103
105°	641	666	690	585	560	607
115°	446	466	546	571	565	450
125°	222	238	283	296	294	209
135°	134	140	156	171	172	107
145°	102	105	109	119	118	65
155°	84	88	91	92	91	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°	9994.6	9994.6	9994.6	9994.6	9994.6
2.5°	9973.7	9916.6	9738.7	9630.3	9538.9
5°	9974.6	9718.7	9148.0	8723.7	8504.0
7.5°	9988.9	9420.0	8391.8	7772.5	7530.9
10°	10010.8	9050.0	7686.0	7025.8	6800.4
12.5°	10026.9	8633.4	7064.8	6386.6	6139.2
15°	10050.7	8192.0	6506.4	5786.3	5523.8
17.5°	10072.6	7776.3	5954.7	5202.3	4910.3
20°	10094.5	7328.3	5403.0	4627.7	4387.1
22.5°	10115.4	6855.5	4864.6	4181.6	4017.1
25°	10117.3	6334.3	4356.6	3866.8	3744.0
27.5°	10092.6	5794.0	3944.8	3603.3	3527.2
30°	10049.8	5269.8	3625.1	3413.0	3358.8
32.5°	9943.2	4735.2	3377.8	3229.4	3198.0
35°	9754.9	4211.1	3161.9	3063.0	3062.0
37.5°	9458.1	3745.9	2927.9	2910.8	2931.7
40°	9019.6	3338.8	2706.3	2751.9	2751.9
42.5°	8434.6	2985.0	2505.5	2552.2	2539.8
45°	7711.6	2667.3	2291.5	2346.7	2386.6
47.5°	6873.6	2387.6	2072.7	2179.3	2234.4
50°	5962.3	2121.2	1873.0	2009.0	2071.8
52.5°	5007.3	1874.9	1678.0	1834.0	1884.4
55°	4082.7	1653.2	1495.3	1621.8	1679.9
57.5°	3245.6	1442.1	1316.5	1436.4	1556.2
60°	2525.5	1260.4	1148.1	1319.4	1439.2
62.5°	1929.1	1098.7	990.2	1210.0	1329.8
65°	1460.1	958.8	865.6	1109.1	1232.8
67.5°	1100.6	838.0	768.6	1035.9	1156.7
70°	826.6	721.0	690.6	990.2	1098.7
72.5°	610.7	613.5	628.8	950.3	1033.0
75°	450.9	516.5	581.2	902.7	956.9
77.5°	322.5	428.1	538.4	845.6	864.7
80°	223.5	349.1	493.7	770.5	754.3
82.5°	139.8	279.7	453.7	687.7	643.0
85°	79.0	214.0	425.2	591.7	543.2
87.5°	35.2	159.8	371.9	461.3	430.9
90°	3.0	111.4	275.4	385.2	393.1
92.5°	11.9	102.2	273.3	381.7	401.2
95°	31.8	134.8	323.9	436.9	473.2
97.5°	170.8	242.2	407.6	509.0	538.4
100°	342.7	413.5	486.4	566.1	582.6
102.5°	548.7	569.7	559.2	577.2	578.9
105°	640.6	665.9	689.9	585.3	560.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	518.5	548.3	625.9	639.3	626.1
115°	446.5	465.5	546.5	571.2	565.0
117.5°	385.4	397.7	469.2	491.0	490.0
120°	323.4	338.8	396.9	414.9	413.9
122.5°	269.4	285.0	337.6	350.8	348.8
125°	222.4	238.2	283.2	295.5	293.5
127.5°	190.5	199.4	238.8	252.1	249.1
130°	166.5	173.4	202.2	216.5	216.5
132.5°	148.5	154.4	176.5	190.9	191.9
135°	134.5	140.4	155.8	171.1	172.1
137.5°	124.5	129.4	141.0	154.3	155.3
140°	114.5	119.4	128.1	140.5	141.5
142.5°	108.5	111.4	117.2	128.7	128.7
145°	102.4	105.4	109.3	118.9	117.9
147.5°	97.4	101.3	104.3	109.0	109.1
150°	92.4	97.3	98.3	102.1	101.2
152.5°	88.4	92.3	94.3	96.2	96.2
155°	84.4	88.3	91.2	92.2	91.3
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°	640.6	673.0	731.6	639.4	573.1
110°	592.6	624.2	695.2	679.4	624.1



(END OF REPORT)