

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: P830565

Luminaire Tested: **OHBL-48SE-N-UNV-L840-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830565
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-48SE-N-UNV-L840-CD
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

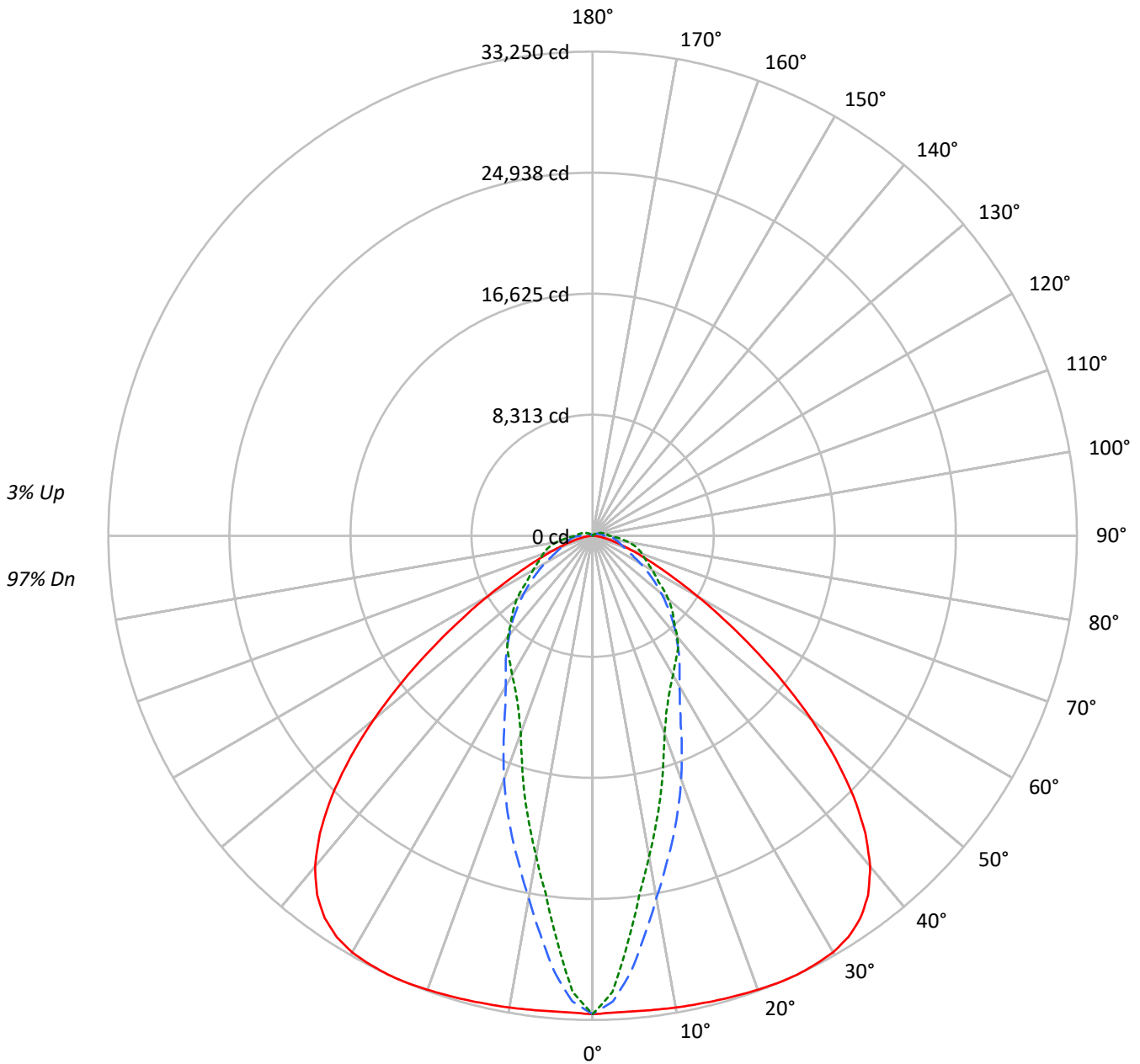
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48478.0 lumens
Efficiency: N/A
Efficacy: 167.9 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 288.8
Input Voltage (V): NR
Input Current (Ain): 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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	99	99	99	97		
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	85	85	85	85	82		
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	73	73	73	73	71		
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	64	64	64	64	62		
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	56	56	56	56	54		
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	50	50	50	50	48		
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	45	45	45	45	43		
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	41	41	41	41	39		
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	37	37	37	37	35		
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	34	34	34	34	32		
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	32	32	32	32	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	56101	56101	56101
5°	55987	51090	47501
10°	56619	43035	38089
15°	57725	36805	31262
20°	59346	31120	25285
25°	61399	25759	22155
30°	63521	22191	20582
35°	64843	20224	19609
40°	63733	18268	18603
45°	58632	16508	17223
50°	49467	14585	16165
55°	37588	12775	14385
60°	26341	10956	13771
65°	17718	9435	13482
70°	12101	8855	14144
75°	8397	9132	15113
80°	5780	10114	15558
85°	3381	12651	16321



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2765.0	5.7
10°-20°	6504.5	13.4
20°-30°	8153.3	16.8
30°-40°	8651.5	17.8
40°-50°	7822.4	16.1
50°-60°	5671.7	11.7
60°-70°	3559.3	7.3
70°-80°	2355.4	4.9
80°-90°	1357.0	2.8
90°-100°	657.4	1.4
100°-110°	453.8	0.9
110°-120°	280.0	0.6
120°-130°	135.6	0.3
130°-140°	62.4	0.1
140°-150°	34.1	0.1
150°-160°	14.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	17422.7	35.9
0°-40°	26074.2	53.8
0°-60°	39568.3	81.6
0°-90°	46840.0	96.6
90°-120°	1391.2	2.9
90°-150°	1623.2	3.3
90°-180°	1638.0	3.4
0°-180°	48478.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	32846	32846	32846	32846	32846	
5°	32781	31940	30064	28670	27948	###
15°	33031	26922	21383	19016	18154	9367
25°	33250	20817	14318	12708	12304	15361
35°	32059	13840	10391	10066	10063	19929
45°	25344	8766	7531	7712	7844	19307
55°	13417	5433	4914	5330	5521	12123
65°	4799	3151	2845	3645	4052	4993
75°	1482	1698	1910	2967	3145	1652
85°	260	703	1397	1944	1785	311
90°	0	294	810	1141	1150	17
95°	12	206	713	969	1013	11
105°	25	138	519	688	706	25
115°	34	97	350	438	447	34
125°	38	50	178	225	222	33
135°	31	38	78	122	122	25
145°	38	41	47	72	69	23
155°	38	47	50	53	47	12
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830565

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	32846.4	32846.4	32846.4	32846.4	32846.4
2.5°	32777.7	32590.1	32005.5	31649.1	31349.0
5°	32780.8	31939.8	30064.2	28669.9	27947.8
7.5°	32827.7	30958.2	27578.9	25543.8	24749.7
10°	32899.6	29742.2	25259.3	23089.7	22348.8
12.5°	32952.7	28372.9	23217.9	20989.0	20176.2
15°	33030.9	26922.4	21382.8	19016.4	18153.5
17.5°	33102.8	25556.3	19569.7	17096.9	16137.2
20°	33174.7	24083.8	17756.5	15208.7	14417.8
22.5°	33243.5	22530.1	15987.1	13742.5	13201.7
25°	33249.7	20817.0	14317.8	12707.8	12304.5
27.5°	33168.4	19041.4	12964.1	11841.8	11591.8
30°	33027.7	17318.9	11913.7	11216.6	11038.4
32.5°	32677.6	15562.0	11100.9	10613.3	10510.1
35°	32058.6	13839.5	10391.3	10066.2	10063.1
37.5°	31083.3	12310.8	9622.3	9566.0	9634.8
40°	29642.1	10972.8	8893.9	9043.9	9043.9
42.5°	27719.5	9809.9	8234.3	8387.5	8346.8
45°	25343.7	8765.7	7530.9	7712.2	7843.5
47.5°	22589.5	7846.6	6811.9	7162.0	7343.3
50°	19594.7	6971.3	6155.4	6602.4	6808.7
52.5°	16456.0	6161.6	5514.5	6027.2	6192.9
55°	13417.4	5433.2	4914.3	5330.1	5520.8
57.5°	10666.4	4739.2	4326.6	4720.5	5114.4
60°	8299.9	4142.1	3773.3	4336.0	4729.9
62.5°	6339.8	3610.7	3254.3	3976.5	4370.4
65°	4798.6	3151.2	2844.8	3645.1	4051.5
67.5°	3617.0	2754.1	2525.9	3404.4	3801.4
70°	2716.6	2369.6	2269.6	3254.3	3610.7
72.5°	2007.0	2016.4	2066.4	3123.0	3395.0
75°	1481.8	1697.5	1910.1	2966.7	3144.9
77.5°	1059.8	1406.8	1769.4	2779.1	2841.7
80°	734.6	1147.3	1622.5	2532.2	2479.0
82.5°	459.5	919.1	1491.2	2260.2	2113.3
85°	259.5	703.4	1397.4	1944.5	1785.0
87.5°	115.7	525.2	1222.3	1516.2	1416.1
90°	0.0	293.9	809.7	1141.0	1150.4
92.5°	6.3	243.8	747.1	1044.1	1075.4
95°	12.5	206.3	712.8	969.1	1012.9
97.5°	15.6	181.3	669.0	900.3	937.8
100°	18.8	162.6	615.9	828.4	859.7
102.5°	21.9	150.1	565.8	753.4	778.4
105°	25.0	137.6	518.9	687.8	706.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	31.3	106.3	390.8	493.9	509.6
115°	34.4	96.9	350.1	437.7	447.0
117.5°	37.5	84.4	306.4	384.5	387.6
120°	37.5	75.0	262.6	328.2	328.2
122.5°	37.5	62.5	218.8	272.0	268.8
125°	37.5	50.0	178.2	225.1	222.0
127.5°	34.4	40.6	143.8	187.6	184.4
130°	34.4	40.6	115.7	159.4	159.4
132.5°	31.3	37.5	93.8	137.6	137.6
135°	31.3	37.5	78.2	121.9	121.9
137.5°	31.3	40.6	65.6	106.3	106.3
140°	31.3	37.5	56.3	93.8	93.8
142.5°	34.4	37.5	50.0	81.3	81.3
145°	37.5	40.6	46.9	71.9	68.8
147.5°	37.5	43.8	46.9	62.5	59.4
150°	37.5	46.9	46.9	56.3	53.1
152.5°	37.5	46.9	46.9	53.1	50.0
155°	37.5	46.9	50.0	53.1	46.9
157.5°	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	25.0	128.2	475.2	615.9	637.7
110°	28.1	115.7	434.5	550.2	572.1



(END OF REPORT)