

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: P830569

Luminaire Tested: **OHBL-48SE-N-UNV-L940-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830569
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-L940-CD
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

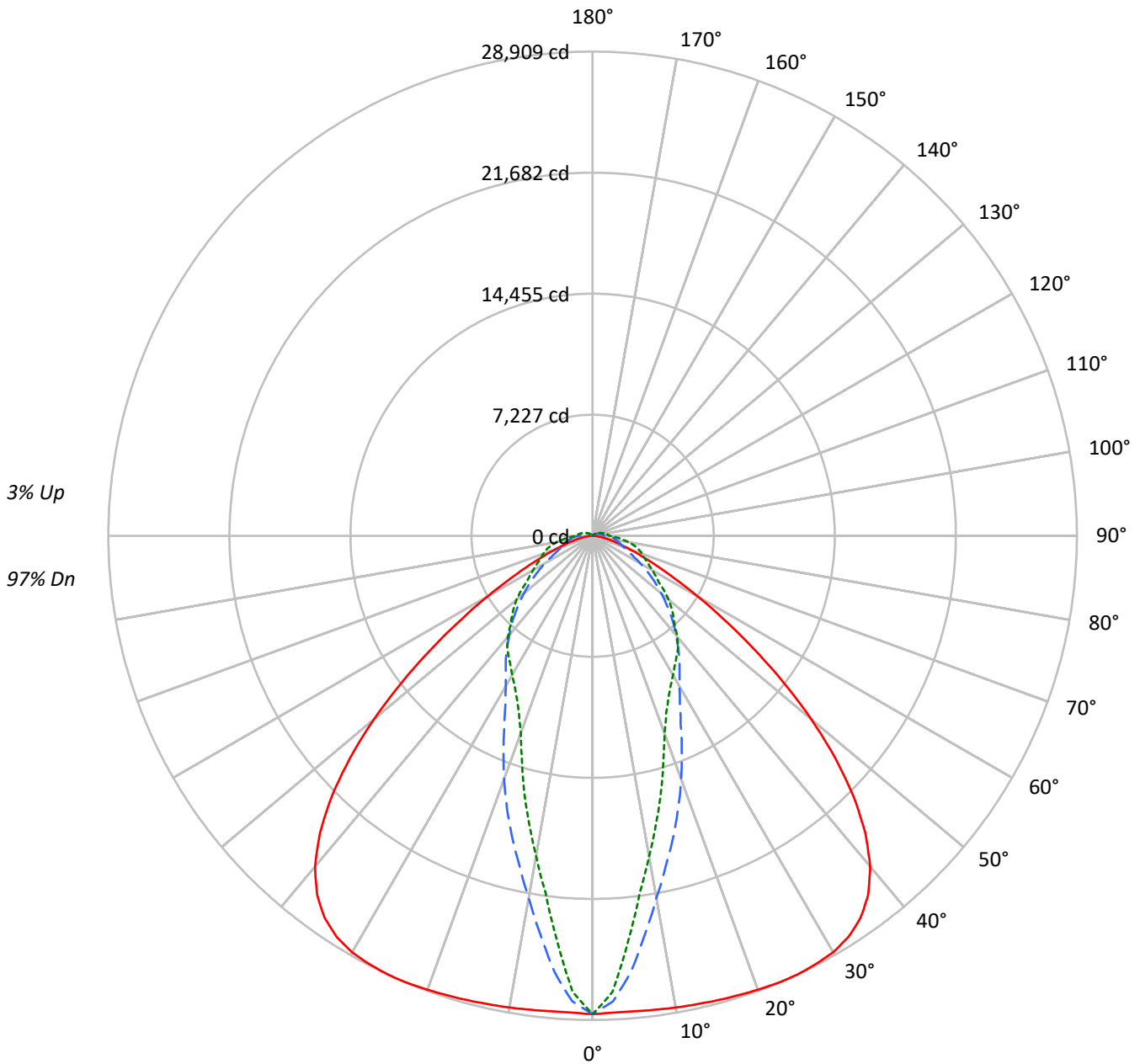
Lumens per Lamp: N/A
Luminaire Lumens: 42149.0 lumens
Efficiency: N/A
Efficacy: 145.9 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	48777	48777	48777
5°	48678	44420	41300
10°	49227	37417	33116
15°	50189	32000	27181
20°	51598	27057	21984
25°	53383	22396	19263
30°	55228	19294	17895
35°	56377	17583	17049
40°	55412	15883	16174
45°	50977	14353	14974
50°	43009	12681	14055
55°	32680	11107	12507
60°	22902	9525	11974
65°	15405	8203	11722
70°	10521	7699	12298
75°	7301	7940	13139
80°	5026	8794	13527
85°	2940	10999	14191



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2404.0	5.7
10°-20°	5655.3	13.4
20°-30°	7088.8	16.8
30°-40°	7522.0	17.8
40°-50°	6801.1	16.1
50°-60°	4931.3	11.7
60°-70°	3094.6	7.3
70°-80°	2047.9	4.9
80°-90°	1179.8	2.8
90°-100°	571.6	1.4
100°-110°	394.5	0.9
110°-120°	243.4	0.6
120°-130°	117.9	0.3
130°-140°	54.2	0.1
140°-150°	29.6	0.1
150°-160°	12.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	15148.1	35.9
0°-40°	22670.1	53.8
0°-60°	34402.5	81.6
0°-90°	40724.8	96.6
90°-120°	1209.5	2.9
90°-150°	1411.3	3.3
90°-180°	1424.0	3.4
0°-180°	42149.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28558	28558	28558	28558	28558	
5°	28501	27770	26139	24927	24299	###
15°	28719	23408	18591	16534	15784	8144
25°	28909	18099	12448	11049	10698	13355
35°	27873	12033	9035	8752	8749	17327
45°	22035	7621	6548	6705	6820	16786
55°	11666	4724	4273	4634	4800	10540
65°	4172	2740	2473	3169	3522	4342
75°	1288	1476	1661	2579	2734	1436
85°	226	612	1215	1691	1552	270
90°	0	256	704	992	1000	15
95°	11	179	620	843	881	10
105°	22	120	451	598	614	22
115°	30	84	304	380	389	29
125°	33	44	155	196	193	28
135°	27	33	68	106	106	21
145°	33	35	41	62	60	20
155°	33	41	44	46	41	10
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	28558.2	28558.2	28558.2	28558.2	28558.2
2.5°	28498.4	28335.3	27827.0	27517.2	27256.3
5°	28501.1	27770.0	26139.2	24926.9	24299.1
7.5°	28541.9	26916.5	23978.3	22208.9	21518.5
10°	28604.4	25859.2	21961.6	20075.3	19431.1
12.5°	28650.6	24668.7	20186.7	18248.8	17542.1
15°	28718.6	23407.6	18591.2	16533.7	15783.5
17.5°	28781.1	22219.8	17014.8	14864.8	14030.4
20°	28843.6	20939.6	15438.3	13223.1	12535.5
22.5°	28903.4	19588.7	13899.9	11948.4	11478.2
25°	28908.8	18099.3	12448.5	11048.7	10698.1
27.5°	28838.2	16555.4	11271.6	10295.8	10078.4
30°	28715.8	15057.8	10358.4	9752.2	9597.3
32.5°	28411.4	13530.3	9651.7	9227.7	9138.0
35°	27873.3	12032.7	9034.7	8752.0	8749.3
37.5°	27025.2	10703.5	8366.1	8317.1	8376.9
40°	25772.2	9540.2	7732.8	7863.2	7863.2
42.5°	24100.6	8529.1	7159.3	7292.4	7257.1
45°	22035.0	7621.3	6547.7	6705.3	6819.5
47.5°	19640.4	6822.2	5922.6	6227.0	6384.6
50°	17036.5	6061.2	5351.8	5740.5	5919.8
52.5°	14307.6	5357.2	4794.6	5240.3	5384.4
55°	11665.7	4723.9	4272.7	4634.2	4800.0
57.5°	9273.9	4120.5	3761.7	4104.2	4446.7
60°	7216.3	3601.4	3280.6	3769.9	4112.4
62.5°	5512.1	3139.3	2829.5	3457.3	3799.8
65°	4172.2	2739.8	2473.4	3169.2	3522.5
67.5°	3144.7	2394.6	2196.2	2959.9	3305.1
70°	2362.0	2060.3	1973.3	2829.5	3139.3
72.5°	1745.0	1753.1	1796.6	2715.3	2951.8
75°	1288.3	1475.9	1660.7	2579.4	2734.3
77.5°	921.4	1223.1	1538.4	2416.3	2470.7
80°	638.7	997.5	1410.7	2201.6	2155.4
82.5°	399.5	799.1	1296.5	1965.1	1837.4
85°	225.6	611.6	1215.0	1690.6	1552.0
87.5°	100.6	456.6	1062.7	1318.2	1231.3
90°	0.0	255.5	704.0	992.1	1000.2
92.5°	5.4	212.0	649.6	907.8	935.0
95°	10.9	179.4	619.7	842.6	880.6
97.5°	13.6	157.6	581.7	782.8	815.4
100°	16.3	141.3	535.4	720.3	747.5
102.5°	19.0	130.5	492.0	655.0	676.8
105°	21.7	119.6	451.2	598.0	614.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	27.2	92.4	339.8	429.4	443.0
115°	29.9	84.3	304.4	380.5	388.7
117.5°	32.6	73.4	266.4	334.3	337.0
120°	32.6	65.2	228.3	285.4	285.4
122.5°	32.6	54.4	190.3	236.5	233.7
125°	32.6	43.5	154.9	195.7	193.0
127.5°	29.9	35.3	125.0	163.1	160.4
130°	29.9	35.3	100.6	138.6	138.6
132.5°	27.2	32.6	81.5	119.6	119.6
135°	27.2	32.6	68.0	106.0	106.0
137.5°	27.2	35.3	57.1	92.4	92.4
140°	27.2	32.6	48.9	81.5	81.5
142.5°	29.9	32.6	43.5	70.7	70.7
145°	32.6	35.3	40.8	62.5	59.8
147.5°	32.6	38.1	40.8	54.4	51.6
150°	32.6	40.8	40.8	48.9	46.2
152.5°	32.6	40.8	40.8	46.2	43.5
155°	32.6	40.8	43.5	46.2	40.8
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°	21.7	111.4	413.1	535.4	554.5
110°	24.5	100.6	377.8	478.4	497.4



(END OF REPORT)