

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: P830561

Luminaire Tested: **OHBL-48SE-N-UNV-L740-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830561
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-L740-CD
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

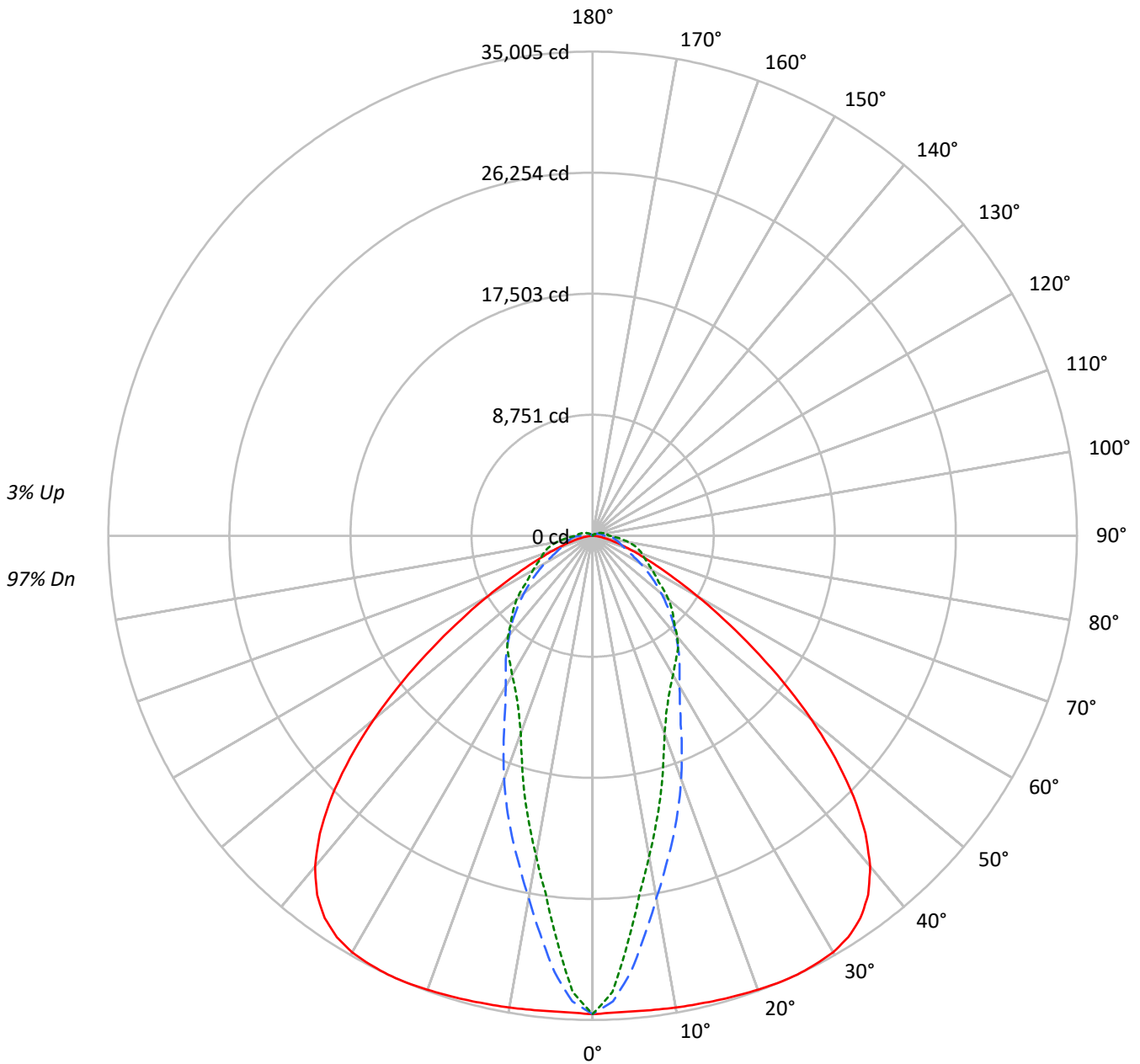
Lumens per Lamp: N/A
Luminaire Lumens: 51037.0 lumens
Efficiency: N/A
Efficacy: 176.7 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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°	59063	59063	59063
5°	58943	53787	50009
10°	59608	45307	40099
15°	60772	38748	32912
20°	62479	32763	26620
25°	64640	27118	23325
30°	66874	23362	21668
35°	68266	21291	20644
40°	67097	19232	19585
45°	61727	17380	18132
50°	52078	15355	17018
55°	39572	13449	15144
60°	27731	11534	14498
65°	18653	9933	14194
70°	12739	9322	14891
75°	8840	9614	15910
80°	6086	10648	16380
85°	3560	13319	17184



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2910.9	5.7
10°-20°	6847.8	13.4
20°-30°	8583.6	16.8
30°-40°	9108.2	17.8
40°-50°	8235.3	16.1
50°-60°	5971.1	11.7
60°-70°	3747.2	7.3
70°-80°	2479.7	4.9
80°-90°	1428.6	2.8
90°-100°	692.1	1.4
100°-110°	477.7	0.9
110°-120°	294.8	0.6
120°-130°	142.8	0.3
130°-140°	65.7	0.1
140°-150°	35.9	0.1
150°-160°	15.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	18342.4	35.9
0°-40°	27450.6	53.8
0°-60°	41657.0	81.6
0°-90°	49312.5	96.6
90°-120°	1464.6	2.9
90°-150°	1708.9	3.3
90°-180°	1725.0	3.4
0°-180°	51037.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	34580	34580	34580	34580	34580	
5°	34511	33626	31651	30183	29423	###
15°	34774	28344	22512	20020	19112	9862
25°	35005	21916	15074	13379	12954	16172
35°	33751	14570	10940	10598	10594	20981
45°	26682	9228	7928	8119	8258	20326
55°	14126	5720	5174	5611	5812	12763
65°	5052	3318	2995	3838	4265	5257
75°	1560	1787	2011	3123	3311	1739
85°	273	740	1471	2047	1879	327
90°	0	309	852	1201	1211	18
95°	13	217	750	1020	1066	12
105°	26	145	546	724	744	26
115°	36	102	369	461	471	35
125°	40	53	188	237	234	34
135°	33	40	82	128	128	26
145°	40	43	49	76	72	24
155°	40	49	53	56	49	12
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°	34580.3	34580.3	34580.3	34580.3	34580.3
2.5°	34507.9	34310.4	33695.0	33319.8	33003.8
5°	34511.2	33625.9	31651.2	30183.3	29423.0
7.5°	34560.5	32592.4	29034.7	26892.1	26056.2
10°	34636.2	31312.2	26592.6	24308.6	23528.6
12.5°	34692.2	29870.6	24443.5	22096.9	21241.2
15°	34774.5	28343.5	22511.6	20020.2	19111.8
17.5°	34850.2	26905.3	20602.7	17999.4	16989.0
20°	34925.9	25355.1	18693.8	16011.5	15178.9
22.5°	34998.3	23719.4	16831.0	14468.0	13898.6
25°	35004.8	21915.9	15073.5	13378.6	12954.0
27.5°	34919.3	20046.5	13648.5	12466.9	12203.6
30°	34771.2	18233.1	12542.6	11808.7	11621.1
32.5°	34402.6	16383.4	11686.9	11173.5	11064.9
35°	33750.9	14570.0	10939.8	10597.6	10594.3
37.5°	32724.1	12960.6	10130.2	10071.0	10143.4
40°	31206.8	11552.0	9363.4	9521.3	9521.3
42.5°	29182.8	10327.7	8668.9	8830.2	8787.4
45°	26681.5	9228.4	7928.4	8119.3	8257.5
47.5°	23782.0	8260.8	7171.5	7540.1	7731.0
50°	20629.0	7339.3	6480.3	6950.9	7168.2
52.5°	17324.7	6486.9	5805.6	6345.4	6519.8
55°	14125.7	5720.0	5173.7	5611.4	5812.2
57.5°	11229.5	4989.4	4555.0	4969.7	5384.3
60°	8738.0	4360.8	3972.4	4564.8	4979.5
62.5°	6674.5	3801.3	3426.1	4186.4	4601.1
65°	5051.9	3317.5	2995.0	3837.5	4265.4
67.5°	3807.9	2899.5	2659.3	3584.1	4002.1
70°	2860.0	2494.7	2389.4	3426.1	3801.3
72.5°	2112.9	2122.8	2175.5	3287.9	3574.2
75°	1560.0	1787.1	2010.9	3123.3	3310.9
77.5°	1115.7	1481.0	1862.8	2925.8	2991.7
80°	773.4	1207.9	1708.1	2665.8	2609.9
82.5°	483.8	967.6	1569.9	2379.5	2224.8
85°	273.2	740.5	1471.2	2047.1	1879.3
87.5°	121.8	552.9	1286.8	1596.2	1490.9
90°	0.0	309.4	852.4	1201.3	1211.1
92.5°	6.6	256.7	786.6	1099.2	1132.2
95°	13.2	217.2	750.4	1020.3	1066.3
97.5°	16.5	190.9	704.3	947.9	987.4
100°	19.7	171.1	648.4	872.2	905.1
102.5°	23.0	158.0	595.7	793.2	819.5
105°	26.3	144.8	546.3	724.1	743.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	32.9	111.9	411.4	520.0	536.5
115°	36.2	102.0	368.6	460.8	470.6
117.5°	39.5	88.9	322.5	404.8	408.1
120°	39.5	79.0	276.5	345.6	345.6
122.5°	39.5	65.8	230.4	286.3	283.0
125°	39.5	52.7	187.6	237.0	233.7
127.5°	36.2	42.8	151.4	197.5	194.2
130°	36.2	42.8	121.8	167.8	167.8
132.5°	32.9	39.5	98.7	144.8	144.8
135°	32.9	39.5	82.3	128.4	128.4
137.5°	32.9	42.8	69.1	111.9	111.9
140°	32.9	39.5	59.2	98.7	98.7
142.5°	36.2	39.5	52.7	85.6	85.6
145°	39.5	42.8	49.4	75.7	72.4
147.5°	39.5	46.1	49.4	65.8	62.5
150°	39.5	49.4	49.4	59.2	55.9
152.5°	39.5	49.4	49.4	55.9	52.7
155°	39.5	49.4	52.7	55.9	49.4
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°	26.3	134.9	500.3	648.4	671.4
110°	29.6	121.8	457.5	579.2	602.3



(END OF REPORT)