

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: P830553

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-48SE-MFL-UNV-L840-CD
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

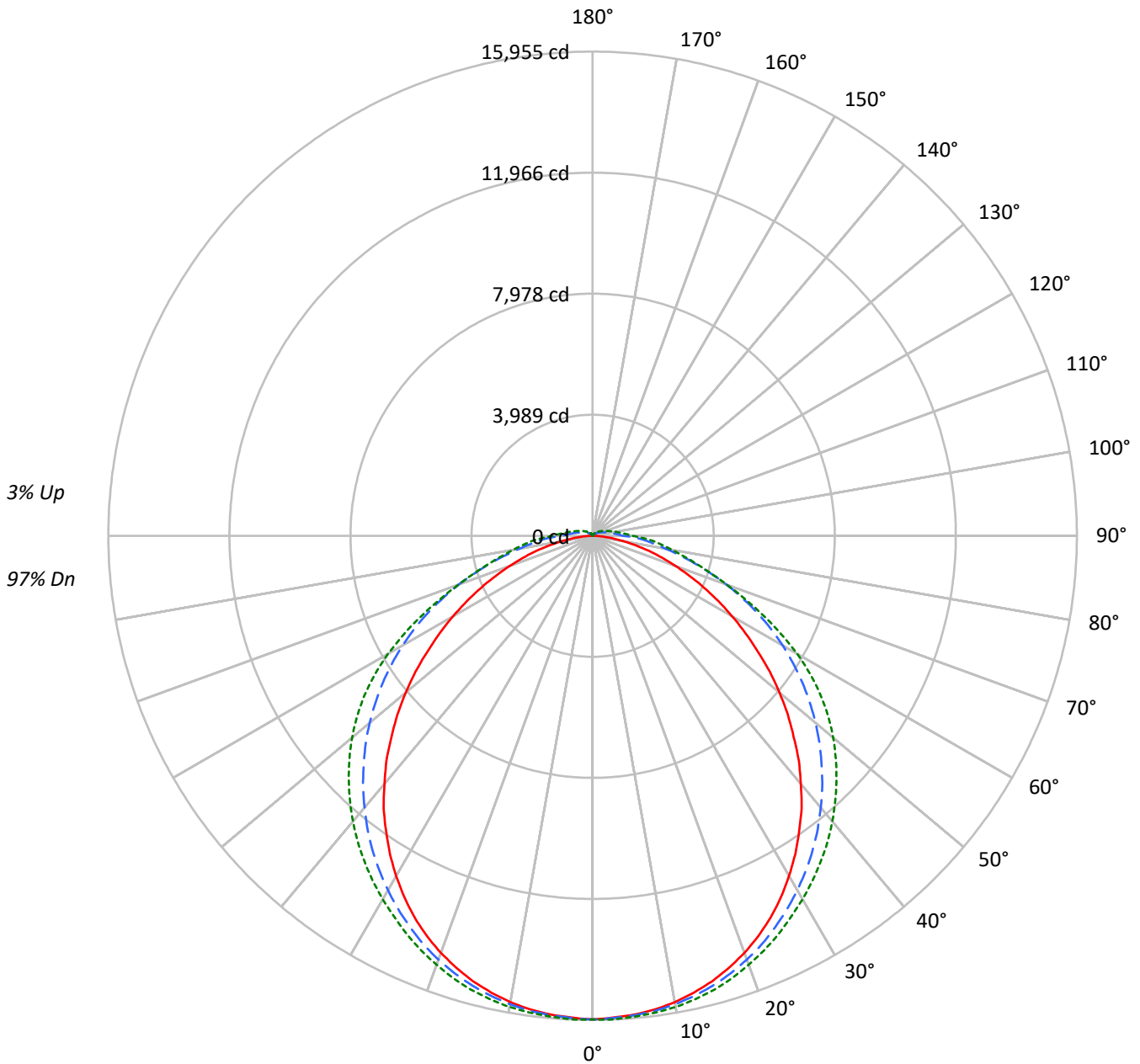
Lumens per Lamp: N/A
Luminaire Lumens: 47702.9 lumens
Efficiency: N/A
Efficacy: 165.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	80																	
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	66																	
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	56																	
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	47																	
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	41																	
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	36																	
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	32																	
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	28																	
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	25																	
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	23																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27224	27224	27224
5°	27050	26954	27031
10°	26860	26704	26872
15°	26560	26408	26669
20°	26162	26048	26380
25°	25630	25602	26087
30°	24893	25118	25792
35°	24002	24606	25533
40°	22931	24013	25276
45°	21668	23370	24952
50°	20287	22719	24561
55°	18588	21924	23916
60°	16849	20988	22659
65°	14951	19795	20614
70°	12893	18279	18399
75°	10809	16524	16871
80°	8195	15222	16623
85°	5185	15680	18334



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1510.3	3.2
10°-20°	4332.9	9.1
20°-30°	6552.7	13.7
30°-40°	7866.6	16.5
40°-50°	8124.9	17.0
50°-60°	7309.9	15.3
60°-70°	5506.4	11.5
70°-80°	3325.0	7.0
80°-90°	1626.2	3.4
90°-100°	684.5	1.4
100°-110°	390.7	0.8
110°-120°	229.4	0.5
120°-130°	129.7	0.3
130°-140°	68.3	0.1
140°-150°	33.2	0.1
150°-160°	12.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	12395.9	26.0
0°-40°	20262.5	42.5
0°-60°	35697.3	74.8
0°-90°	46154.8	96.8
90°-120°	1304.6	2.7
90°-150°	1535.8	3.2
90°-180°	1548.0	3.2
0°-180°	47702.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15939	15939	15939	15939	15939	
5°	15838	15881	15861	15924	15904	###
15°	15198	15272	15342	15471	15487	4285
25°	13879	14032	14230	14453	14488	6384
35°	11866	12144	12643	13025	13103	7418
45°	9366	9838	10661	11242	11363	7231
55°	6635	7322	8434	9070	9179	5949
65°	4049	4876	5968	6265	6195	4023
75°	1908	2738	3456	3546	3511	2035
85°	398	1049	1732	1970	2005	460
90°	0	410	991	1248	1299	25
95°	20	277	741	944	979	16
105°	27	160	429	562	585	27
115°	31	90	265	355	371	32
125°	31	43	160	230	242	28
135°	27	35	82	140	156	21
145°	39	35	39	70	82	23
155°	39	43	39	35	39	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°	15939.1	15939.1	15939.1	15939.1	15939.1
2.5°	15892.3	15931.3	15907.9	15958.6	15954.7
5°	15837.7	15880.6	15861.1	15923.5	15904.0
7.5°	15744.0	15790.9	15787.0	15857.2	15849.4
10°	15607.5	15658.2	15673.8	15767.5	15767.5
12.5°	15420.3	15486.6	15525.6	15638.7	15642.6
15°	15197.9	15272.0	15342.3	15471.0	15486.6
17.5°	14928.8	15022.4	15119.9	15268.1	15287.6
20°	14624.5	14729.8	14862.4	15018.5	15041.9
22.5°	14273.4	14398.2	14569.9	14753.2	14780.5
25°	13879.4	14031.5	14230.5	14452.8	14488.0
27.5°	13430.8	13606.4	13875.5	14125.2	14156.4
30°	12943.2	13149.9	13485.4	13781.9	13832.6
32.5°	12428.3	12666.2	13079.7	13411.3	13481.5
35°	11866.5	12143.5	12642.8	13025.1	13103.1
37.5°	11312.6	11616.9	12182.5	12619.4	12713.0
40°	10665.1	11043.5	11691.0	12174.7	12287.8
42.5°	10056.5	10466.1	11199.5	11726.1	11835.3
45°	9366.1	9838.1	10661.2	11242.4	11363.3
47.5°	8718.5	9229.5	10142.3	10743.1	10867.9
50°	8035.9	8597.6	9588.4	10216.5	10345.2
52.5°	7353.2	7957.8	9015.0	9666.4	9787.4
55°	6635.4	7322.0	8433.8	9069.6	9178.8
57.5°	5968.4	6693.9	7836.9	8441.6	8507.9
60°	5309.1	6062.0	7228.4	7758.9	7782.3
62.5°	4665.5	5457.4	6604.2	7025.5	6994.3
65°	4049.1	4876.1	5968.4	6264.9	6194.6
67.5°	3456.2	4310.5	5316.9	5508.1	5414.5
70°	2894.5	3760.5	4685.0	4782.5	4696.7
72.5°	2399.1	3237.7	4045.2	4127.2	4064.7
75°	1907.5	2738.4	3456.2	3545.9	3510.8
77.5°	1447.2	2254.7	2914.0	3031.0	3038.8
80°	1041.5	1813.9	2442.0	2625.3	2648.7
82.5°	686.6	1408.2	2048.0	2282.0	2317.1
85°	397.9	1049.3	1732.0	1970.0	2005.1
87.5°	171.6	756.8	1392.6	1607.2	1650.1
90°	0.0	409.6	990.8	1248.3	1299.0
92.5°	11.7	339.4	850.4	1084.5	1127.4
95°	19.5	277.0	741.2	944.0	979.1
97.5°	23.4	234.1	643.6	823.1	858.2
100°	23.4	202.8	557.8	721.7	752.9
102.5°	23.4	179.4	487.6	631.9	659.3
105°	27.3	159.9	429.1	561.7	585.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	31.2	105.3	296.5	397.9	413.5
115°	31.2	89.7	265.3	355.0	370.6
117.5°	35.1	78.0	234.1	319.9	331.6
120°	35.1	66.3	206.7	284.8	300.4
122.5°	35.1	54.6	183.3	257.5	269.2
125°	31.2	42.9	159.9	230.2	241.9
127.5°	27.3	35.1	136.5	206.7	218.5
130°	27.3	31.2	117.0	183.3	195.0
132.5°	27.3	35.1	97.5	159.9	175.5
135°	27.3	35.1	81.9	140.4	156.0
137.5°	27.3	35.1	66.3	120.9	136.5
140°	31.2	35.1	54.6	101.4	117.0
142.5°	35.1	35.1	42.9	85.8	97.5
145°	39.0	35.1	39.0	70.2	81.9
147.5°	39.0	39.0	39.0	54.6	66.3
150°	39.0	42.9	39.0	42.9	54.6
152.5°	39.0	42.9	39.0	35.1	42.9
155°	39.0	42.9	39.0	35.1	39.0
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°	27.3	140.4	378.4	499.3	518.8
110°	27.3	124.8	335.5	444.7	464.2



(END OF REPORT)