

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: P830781

Luminaire Tested: **OHBL-72SE-N-UNV-L840-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830781
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-72SE-N-UNV-L840-CD
Description: 72000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

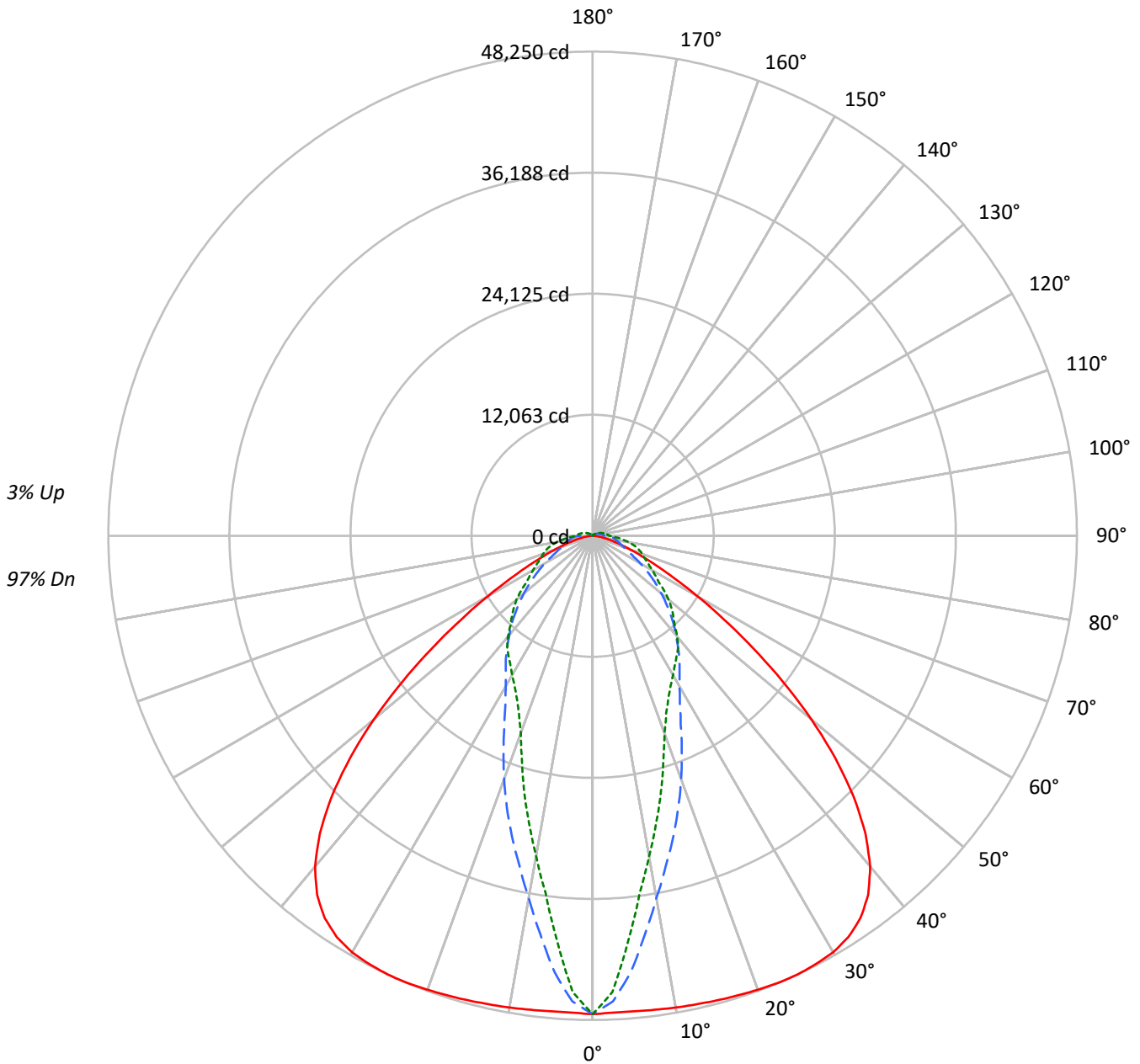
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 70348.0 lumens
Efficiency: N/A
Efficacy: 170.0 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 413.7
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				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	0
RCR																					
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	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	82
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	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	62
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	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	48
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	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	39
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	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	32
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	75380	75380	75380
5°	75227	68678	63866
10°	76076	57876	51243
15°	77561	49521	42086
20°	79740	41891	34063
25°	82498	34691	29867
30°	85350	29902	27767
35°	87126	27267	26476
40°	85635	24646	25140
45°	78780	22287	23299
50°	66466	19706	21893
55°	50505	17277	19509
60°	35393	14835	18709
65°	23807	12796	18355
70°	16259	12033	19313
75°	11283	12447	20723
80°	7767	13850	21481
85°	4543	17481	22833



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4012.4	5.7
10°-20°	9438.8	13.4
20°-30°	11831.5	16.8
30°-40°	12554.5	17.8
40°-50°	11351.3	16.1
50°-60°	8230.4	11.7
60°-70°	5165.0	7.3
70°-80°	3418.0	4.9
80°-90°	1969.1	2.8
90°-100°	954.0	1.4
100°-110°	658.5	0.9
110°-120°	406.3	0.6
120°-130°	196.8	0.3
130°-140°	90.5	0.1
140°-150°	49.4	0.1
150°-160°	21.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	25282.6	35.9
0°-40°	37837.2	53.8
0°-60°	57418.9	81.6
0°-90°	67971.0	96.6
90°-120°	2018.8	2.9
90°-150°	2355.5	3.3
90°-180°	2377.0	3.4
0°-180°	70348.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	47664	47664	47664	47664	47664	
5°	47569	46349	43627	41604	40556	###
15°	47932	39068	31029	27595	26343	13593
25°	48250	30208	20777	18441	17856	22291
35°	46521	20083	15079	14607	14603	28920
45°	36777	12720	10928	11191	11382	28017
55°	19470	7884	7131	7735	8011	17592
65°	6964	4573	4128	5290	5879	7246
75°	2150	2463	2772	4305	4564	2397
85°	376	1021	2028	2822	2590	451
90°	0	426	1175	1656	1669	24
95°	18	299	1034	1406	1470	16
105°	36	200	753	998	1025	37
115°	50	141	508	635	649	49
125°	54	73	259	327	322	47
135°	45	54	113	177	177	36
145°	54	59	68	104	100	33
155°	54	68	73	77	68	17
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°	47664.5	47664.5	47664.5	47664.5	47664.5
2.5°	47564.7	47292.5	46444.2	45927.1	45491.6
5°	47569.3	46349.0	43627.1	41603.8	40555.9
7.5°	47637.3	44924.5	40020.6	37067.4	35915.1
10°	47741.6	43159.8	36654.5	33506.2	32431.1
12.5°	47818.8	41172.9	33692.2	30457.8	29278.3
15°	47932.2	39067.9	31029.3	27595.2	26343.2
17.5°	48036.5	37085.5	28398.2	24809.9	23417.2
20°	48140.8	34948.8	25767.1	22069.8	20922.1
22.5°	48240.7	32694.2	23199.4	19942.3	19157.4
25°	48249.7	30208.2	20777.0	18440.7	17855.5
27.5°	48131.8	27631.5	18812.7	17184.1	16821.2
30°	47927.6	25132.0	17288.4	16276.8	16018.2
32.5°	47419.6	22582.5	16108.9	15401.3	15251.6
35°	46521.3	20082.9	15079.2	14607.4	14602.8
37.5°	45106.0	17864.6	13963.2	13881.5	13981.4
40°	43014.7	15923.0	12906.2	13124.0	13124.0
42.5°	40224.7	14235.4	11949.0	12171.3	12112.3
45°	36777.0	12720.2	10928.3	11191.4	11382.0
47.5°	32780.4	11386.5	9884.9	10393.0	10656.1
50°	28434.5	10116.3	8932.3	9581.0	9880.4
52.5°	23879.9	8941.4	8002.3	8746.3	8986.7
55°	19470.5	7884.4	7131.3	7734.7	8011.4
57.5°	15478.4	6877.3	6278.5	6850.0	7421.6
60°	12044.3	6010.8	5475.5	6292.1	6863.7
62.5°	9199.9	5239.6	4722.4	5770.4	6342.0
65°	6963.5	4572.7	4128.2	5289.5	5879.2
67.5°	5248.7	3996.6	3665.5	4940.2	5516.3
70°	3942.2	3438.6	3293.5	4722.4	5239.6
72.5°	2912.4	2926.0	2998.6	4531.9	4926.6
75°	2150.3	2463.3	2771.8	4305.1	4563.7
77.5°	1537.9	2041.4	2567.6	4032.9	4123.6
80°	1066.1	1664.9	2354.4	3674.5	3597.4
82.5°	666.9	1333.7	2163.9	3279.9	3066.6
85°	376.5	1020.7	2027.8	2821.7	2590.3
87.5°	167.8	762.1	1773.8	2200.2	2055.0
90°	0.0	426.4	1174.9	1655.8	1669.4
92.5°	9.1	353.8	1084.2	1515.2	1560.5
95°	18.1	299.4	1034.3	1406.3	1469.8
97.5°	22.7	263.1	970.8	1306.5	1360.9
100°	27.2	235.9	893.7	1202.2	1247.5
102.5°	31.8	217.7	821.1	1093.3	1129.6
105°	36.3	199.6	753.1	998.0	1025.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	45.4	154.2	567.1	716.8	739.4
115°	49.9	140.6	508.1	635.1	648.7
117.5°	54.4	122.5	444.6	558.0	562.5
120°	54.4	108.9	381.1	476.3	476.3
122.5°	54.4	90.7	317.6	394.7	390.1
125°	54.4	72.6	258.6	326.6	322.1
127.5°	49.9	59.0	208.7	272.2	267.7
130°	49.9	59.0	167.8	231.4	231.4
132.5°	45.4	54.4	136.1	199.6	199.6
135°	45.4	54.4	113.4	176.9	176.9
137.5°	45.4	59.0	95.3	154.2	154.2
140°	45.4	54.4	81.7	136.1	136.1
142.5°	49.9	54.4	72.6	117.9	117.9
145°	54.4	59.0	68.0	104.3	99.8
147.5°	54.4	63.5	68.0	90.7	86.2
150°	54.4	68.0	68.0	81.7	77.1
152.5°	54.4	68.0	68.0	77.1	72.6
155°	54.4	68.0	72.6	77.1	68.0
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°	36.3	186.0	689.5	893.7	925.4
110°	40.8	167.8	630.6	798.4	830.2



(END OF REPORT)