

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: P827217

Luminaire Tested: **OHBL-48SE-A-UNV-L840-CD-UPL24**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P827217
REPORT IS A COMBINATION OF REPORTS P826257 AND G3-2310-221-6
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-48SE-A-UNV-L840-CD-UPL24
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENSAND 2400 LUMEN UPLIGHT MODULE
Light Source: -
Ballast/Driver: -

Summary

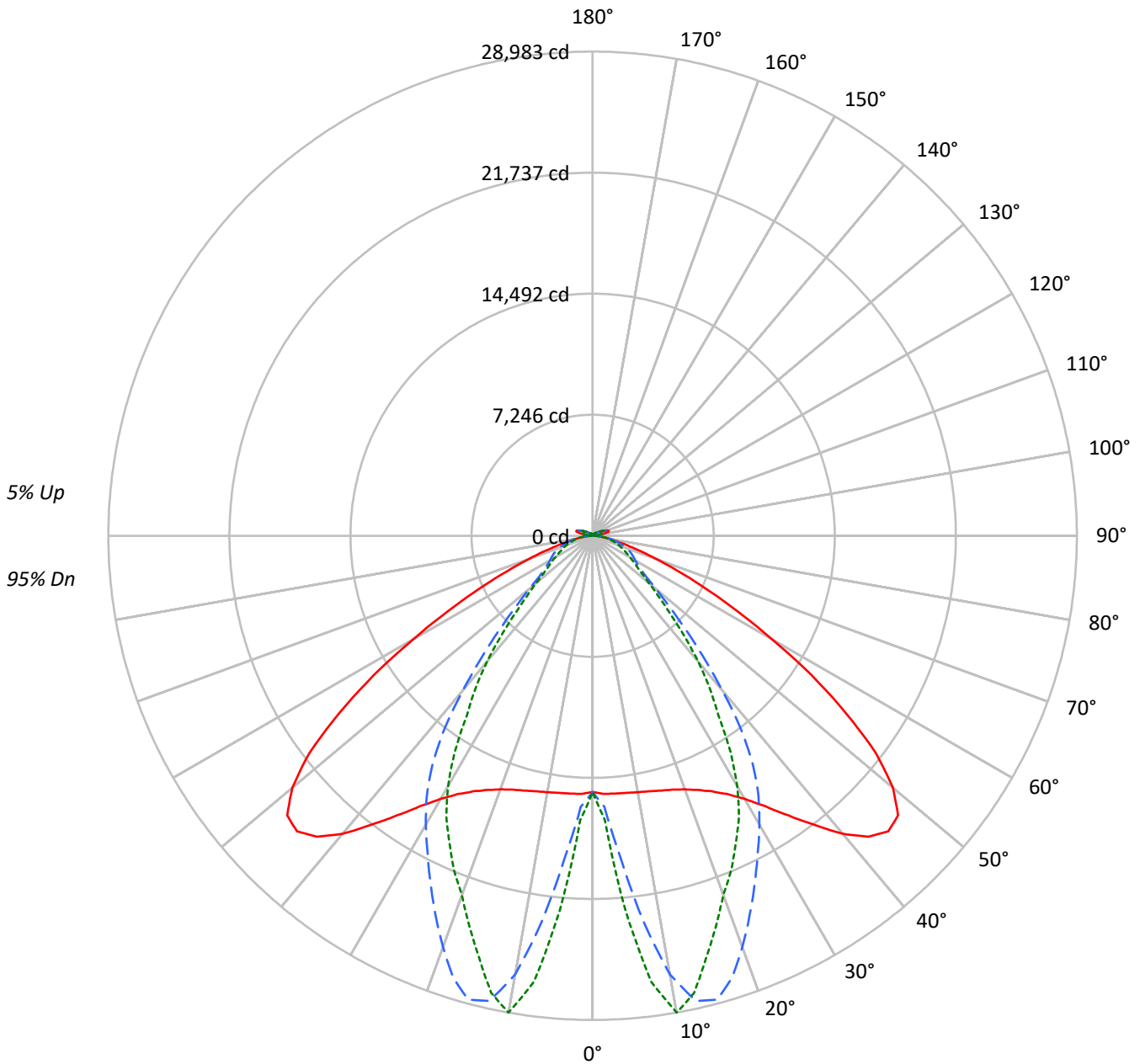
Lumens per Lamp: N/A
Luminaire Lumens: 51637.3 lumens
Efficiency: N/A
Efficacy: 168.6 lumens/watt
Spacing Criteria (0/90/45): 2.18 / 1.37 / 1.3
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 306.2
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	103	103	103	98	98	98	95																			
1	109	105	102	99	106	103	100	97	98	95	93	93	91	89	89	87	86	83																			
2	101	94	89	84	98	92	87	82	88	84	80	84	80	77	80	78	75	73																			
3	94	85	78	72	91	83	76	71	79	74	69	76	71	68	73	69	66	64																			
4	87	76	69	63	84	75	68	62	72	66	61	69	64	60	66	62	58	56																			
5	81	69	61	56	78	68	61	55	65	59	54	63	57	53	61	56	52	50																			
6	75	63	55	49	73	62	55	49	60	53	48	58	52	48	56	51	47	45																			
7	70	58	50	44	68	57	49	44	55	48	44	53	47	43	52	46	42	40																			
8	65	53	45	40	64	52	45	40	51	44	39	49	43	39	48	42	38	37																			
9	61	49	42	37	60	48	41	36	47	40	36	46	40	36	44	39	35	33																			
10	58	46	38	33	56	45	38	33	44	37	33	42	37	33	41	36	32	31																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26196	26196	26196
5°	26330	32947	38401
10°	26564	45424	49879
15°	27197	49483	45780
20°	28321	45913	40913
25°	30387	41291	37423
30°	33884	37180	33277
35°	39834	32542	26518
40°	47897	24782	21104
45°	54941	16884	15021
50°	55699	11582	11109
55°	48213	9114	9076
60°	36014	8528	8165
65°	24685	8555	7734
70°	15783	8252	7491
75°	9491	7638	7167
80°	5585	6711	7395
85°	2688	5763	6857



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2002.3	3.9
10°-20°	7067.1	13.7
20°-30°	10413.8	20.2
30°-40°	10943.2	21.2
40°-50°	8373.6	16.2
50°-60°	5056.3	9.8
60°-70°	3085.5	6.0
70°-80°	1684.1	3.3
80°-90°	597.3	1.2
90°-100°	231.8	0.4
100°-110°	804.9	1.6
110°-120°	690.5	1.3
120°-130°	331.2	0.6
130°-140°	165.7	0.3
140°-150°	96.1	0.2
150°-160°	56.0	0.1
160°-170°	29.0	0.1
170°-180°	8.8	0.0
0°-30°	19483.1	37.7
0°-40°	30426.4	58.9
0°-60°	43856.3	84.9
0°-90°	49223.2	95.3
90°-120°	1727.2	3.3
90°-150°	2320.3	4.5
90°-180°	2414.0	4.7
0°-180°	51637.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15337	15337	15337	15337	15337	
5°	15491	16620	19388	21649	22484	###
15°	15793	24598	28748	26827	26196	4490
25°	16876	28548	22951	20779	20266	7887
35°	20442	22862	16720	13925	13110	12968
45°	25020	13045	7702	6778	6493	18905
55°	18504	4424	3506	3250	3240	16351
65°	7418	2800	2580	2207	2095	7601
75°	1975	1742	1598	1318	1265	2273
85°	294	540	637	580	526	363
90°	5	34	47	62	69	19
95°	53	111	172	228	258	165
105°	1003	992	844	601	552	952
115°	692	699	699	697	691	698
125°	338	356	363	362	359	317
135°	200	204	211	213	215	158
145°	145	149	152	153	154	92
155°	116	118	120	121	121	54
165°	100	101	102	102	102	29
175°	90	91	91	92	92	9
180°	90	90	90	90	90	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15337.4	15337.4	15337.4	15337.4	15337.4
2.5°	15463.0	15620.8	16243.0	16888.8	17046.0
5°	15491.3	16619.9	19388.1	21648.6	22483.8
7.5°	15524.1	18238.4	23284.9	26052.5	26938.4
10°	15586.6	20285.2	26661.5	28648.4	28983.1
12.5°	15664.2	22453.6	28519.5	28447.1	28024.9
15°	15793.1	24598.3	28748.3	26826.6	26195.8
17.5°	15928.6	26412.9	27750.0	25062.6	24513.5
20°	16148.9	27759.8	26197.1	23494.7	22870.5
22.5°	16466.6	28500.4	24568.7	22076.7	21669.6
25°	16876.4	28548.4	22951.4	20779.1	20266.1
27.5°	17425.5	27886.1	21401.3	19507.8	18965.8
30°	18172.7	26618.1	19960.9	17974.7	17302.5
32.5°	19187.5	24793.0	18475.9	16124.0	15370.2
35°	20442.4	22862.0	16720.5	13924.6	13110.4
37.5°	21811.7	20717.9	14590.2	11977.2	11503.0
40°	23284.9	18508.7	12065.3	10154.7	9815.4
42.5°	24434.5	16106.9	9720.0	8438.8	8077.8
45°	25020.5	13045.3	7702.2	6777.5	6492.7
47.5°	24792.3	10126.5	6106.0	5385.2	5299.7
50°	23460.5	7477.3	4888.0	4436.1	4400.6
52.5°	21378.2	5573.3	4037.6	3758.0	3696.9
55°	18503.5	4423.6	3506.2	3249.7	3239.8
57.5°	15535.3	3758.0	3182.6	2983.9	2914.9
60°	12369.2	3350.9	2937.2	2713.0	2572.9
62.5°	9695.7	3066.2	2757.0	2452.5	2321.6
65°	7418.1	2800.4	2579.5	2207.2	2094.7
67.5°	5529.9	2547.2	2362.4	1949.4	1883.6
70°	4029.0	2287.4	2115.1	1733.7	1681.7
72.5°	2871.5	2028.3	1867.8	1531.1	1473.9
75°	1975.0	1741.6	1597.5	1318.0	1264.7
77.5°	1332.5	1448.9	1331.2	1125.3	1102.9
80°	889.9	1149.0	1076.6	953.7	939.8
82.5°	540.0	834.0	849.7	775.4	737.9
85°	294.0	540.0	636.6	580.1	526.2
87.5°	115.1	299.2	438.7	394.0	370.9
90°	5.0	34.0	47.0	62.0	69.0
92.5°	17.0	45.0	72.0	102.0	115.0
95°	53.0	111.0	172.0	228.0	258.0
97.5°	269.0	291.0	313.0	379.0	412.0
100°	552.0	586.0	473.0	500.0	509.0
102.5°	853.0	848.0	618.0	554.0	546.0
105°	1003.0	992.0	844.0	601.0	552.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	808.0	820.0	804.0	781.0	749.0
115°	692.0	699.0	699.0	697.0	691.0
117.5°	592.0	593.0	597.0	596.0	597.0
120°	490.0	501.0	510.0	505.0	499.0
122.5°	411.0	423.0	429.0	427.0	421.0
125°	338.0	356.0	363.0	362.0	359.0
127.5°	286.0	299.0	309.0	310.0	309.0
130°	249.0	257.0	267.0	268.0	269.0
132.5°	221.0	228.0	235.0	239.0	238.0
135°	200.0	204.0	211.0	213.0	215.0
137.5°	183.0	186.0	192.0	195.0	195.0
140°	168.0	172.0	177.0	179.0	180.0
142.5°	155.0	159.0	163.0	165.0	165.0
145°	145.0	149.0	152.0	153.0	154.0
147.5°	136.0	140.0	142.0	144.0	144.0
150°	129.0	131.0	134.0	135.0	136.0
152.5°	122.0	124.0	127.0	128.0	128.0
155°	116.0	118.0	120.0	121.0	121.0
157.5°	111.0	113.0	115.0	116.0	116.0
160°	107.0	108.0	110.0	111.0	111.0
162.5°	103.0	104.0	105.0	106.0	106.0
165°	100.0	101.0	102.0	102.0	102.0
167.5°	97.0	97.0	98.0	99.0	99.0
170°	94.0	95.0	95.0	96.0	96.0
172.5°	92.0	93.0	93.0	93.0	94.0
175°	90.0	91.0	91.0	92.0	92.0
177.5°	90.0	90.0	90.0	90.0	90.0
180°	90.0	90.0	90.0	90.0	90.0



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	1007.0	1011.0	933.0	729.0	607.0
110°	929.0	938.0	893.0	816.0	718.0



(END OF REPORT)