

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: P830516

Luminaire Tested: **OHBL-48HE-W-UNV-L835-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-48HE-W-UNV-L835-CD
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

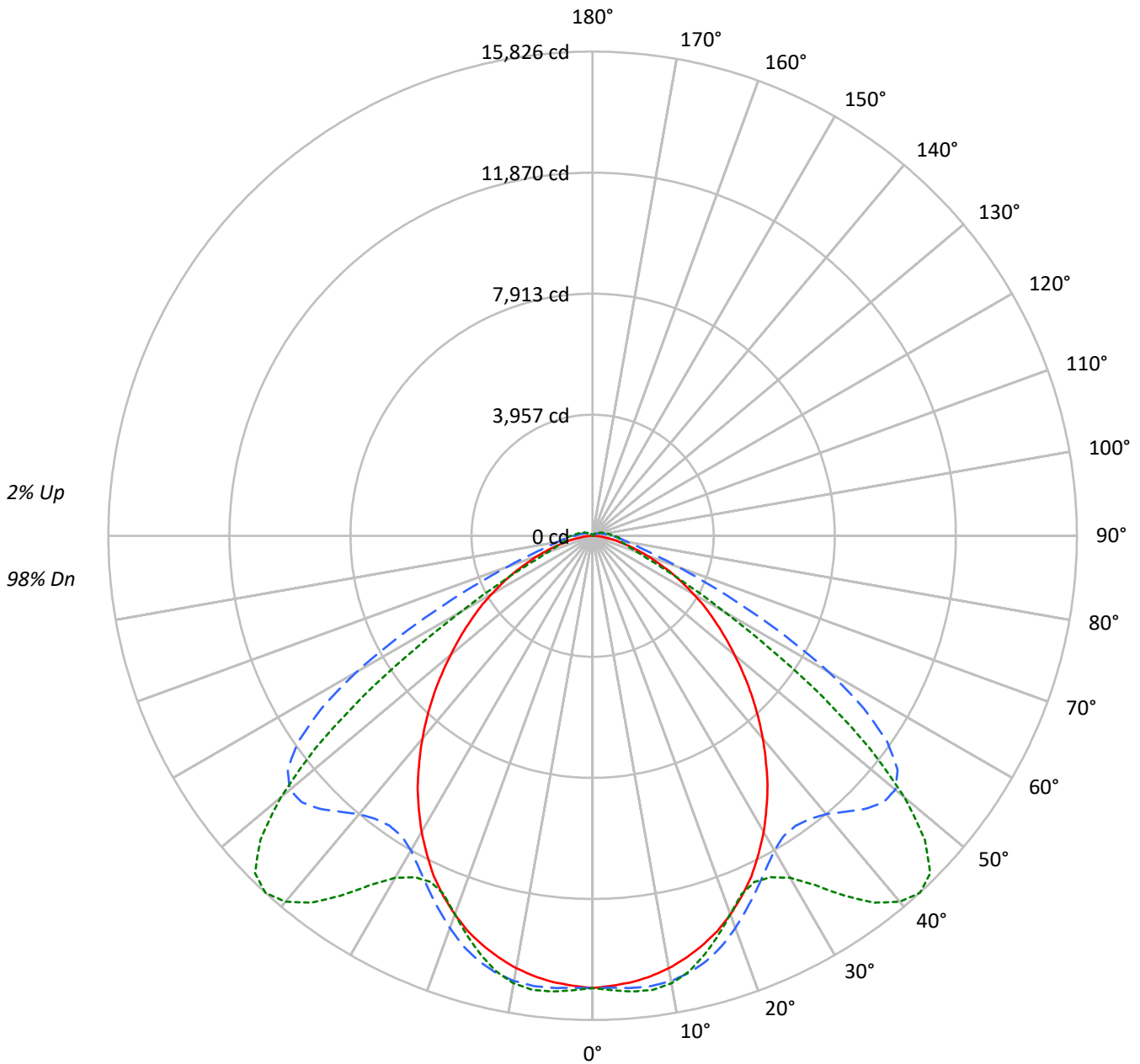
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44263.9 lumens
Efficiency: N/A
Efficacy: 166.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 266
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				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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	98			
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85	83			
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72	70			
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	59			
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52	50			
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45	43			
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38			
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35	33			
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29			
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28	26			
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	24			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23380	23380	23380
5°	23162	23357	23546
10°	22871	23332	23475
15°	22425	22957	22625
20°	21814	22178	21420
25°	20996	21233	20893
30°	19908	20533	22370
35°	18667	20924	26034
40°	17227	22675	29914
45°	15721	25739	31933
50°	14151	28484	29477
55°	12675	28476	22307
60°	11172	24118	13475
65°	9585	16678	8036
70°	7788	10803	5678
75°	5924	7763	5098
80°	4253	6849	5447
85°	2886	7589	7675



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1412.7	3.2
10°-20°	4000.4	9.0
20°-30°	5853.9	13.2
30°-40°	7602.5	17.2
40°-50°	9283.6	21.0
50°-60°	8175.7	18.5
60°-70°	4260.4	9.6
70°-80°	1827.0	4.1
80°-90°	877.4	2.0
90°-100°	412.2	0.9
100°-110°	256.2	0.6
110°-120°	151.5	0.3
120°-130°	82.3	0.2
130°-140°	41.3	0.1
140°-150°	19.9	0.0
150°-160°	6.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	11267.0	25.5
0°-40°	18869.5	42.6
0°-60°	36328.8	82.1
0°-90°	43293.6	97.8
90°-120°	819.9	1.9
90°-150°	963.4	2.2
90°-180°	970.0	2.2
0°-180°	44263.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14783	14783	14783	14783	14783	
5°	14646	14758	14838	14968	14952	###
15°	13858	14248	14385	14276	14161	3902
25°	12280	12937	12717	12477	12490	5635
35°	9967	11020	11572	13495	14359	6212
45°	7339	9234	12621	15281	15600	5659
55°	4886	8089	11753	10305	9160	4385
65°	2804	5604	5381	2992	2574	2774
75°	1129	2622	1729	1183	1123	1231
85°	239	934	880	861	871	267
90°	3	338	580	663	679	17
95°	6	198	462	542	558	5
105°	13	112	300	360	367	13
115°	19	64	185	226	233	20
125°	22	32	108	140	144	19
135°	19	19	51	86	89	15
145°	26	19	22	42	48	15
155°	26	26	19	19	19	8
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CATALOG NUMBER: OHBL-48HE-W-UNV-L835-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14783.4	14783.4	14783.4	14783.4	14783.4
2.5°	14719.6	14783.4	14786.6	14875.9	14866.3
5°	14646.2	14757.9	14837.6	14968.4	14952.4
7.5°	14525.0	14700.4	14840.8	14984.3	14971.5
10°	14352.8	14592.0	14777.0	14895.0	14856.7
12.5°	14129.5	14445.3	14627.1	14652.6	14579.2
15°	13858.4	14247.5	14384.7	14276.2	14161.4
17.5°	13552.2	14008.3	14056.2	13820.1	13676.6
20°	13169.5	13689.4	13641.5	13316.2	13156.7
22.5°	12745.3	13338.5	13185.4	12844.1	12691.1
25°	12279.6	12936.6	12716.6	12477.4	12490.1
27.5°	11734.2	12480.5	12266.8	12375.3	12579.4
30°	11179.2	12002.1	11871.3	12502.9	12904.7
32.5°	10570.0	11510.9	11628.9	12876.0	13533.1
35°	9967.2	11019.7	11571.5	13494.8	14359.2
37.5°	9300.6	10522.2	11664.0	14209.3	15115.1
40°	8653.1	10037.4	11874.5	14850.3	15615.8
42.5°	7992.9	9603.6	12228.6	15229.9	15826.3
45°	7339.1	9233.6	12620.9	15280.9	15599.9
47.5°	6685.2	8921.1	12892.0	14875.9	14729.1
50°	6053.7	8643.6	12911.1	13903.1	13303.4
52.5°	5463.6	8388.4	12560.3	12353.0	11421.6
55°	4886.3	8088.6	11753.3	10305.3	9160.3
57.5°	4360.1	7674.0	10509.4	8104.5	6854.3
60°	3801.9	7112.6	8901.9	5929.3	4943.7
62.5°	3288.4	6414.1	7099.8	4127.2	3553.1
65°	2803.6	5604.0	5380.7	2991.8	2573.9
67.5°	2290.1	4765.1	3970.9	2181.6	1913.7
70°	1888.2	3986.9	2956.7	1696.8	1540.5
72.5°	1476.7	3246.9	2210.3	1377.9	1291.8
75°	1129.1	2621.8	1728.7	1183.3	1122.7
77.5°	832.5	2073.2	1390.6	1046.2	988.7
80°	583.7	1633.0	1164.2	934.5	912.2
82.5°	392.3	1263.0	991.9	889.9	893.1
85°	239.2	934.5	880.3	861.2	870.7
87.5°	114.8	663.4	755.9	784.6	794.2
90°	3.2	338.1	580.5	663.4	679.4
92.5°	0.0	258.4	510.3	593.2	609.2
95°	6.4	197.7	462.5	542.2	558.2
97.5°	6.4	162.7	414.6	497.6	507.1
100°	9.6	140.3	370.0	449.7	459.3
102.5°	9.6	124.4	331.7	401.9	408.3
105°	12.8	111.6	299.8	360.4	366.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	19.1	76.5	210.5	255.2	261.5
115°	19.1	63.8	185.0	226.5	232.8
117.5°	22.3	57.4	162.7	200.9	204.1
120°	22.3	47.8	140.3	178.6	181.8
122.5°	22.3	38.3	124.4	159.5	162.7
125°	22.3	31.9	108.4	140.3	143.5
127.5°	19.1	22.3	92.5	124.4	127.6
130°	19.1	19.1	76.5	108.4	114.8
132.5°	19.1	19.1	63.8	95.7	102.1
135°	19.1	19.1	51.0	86.1	89.3
137.5°	19.1	19.1	41.5	73.4	79.7
140°	19.1	19.1	31.9	63.8	67.0
142.5°	22.3	19.1	28.7	54.2	57.4
145°	25.5	19.1	22.3	41.5	47.8
147.5°	25.5	22.3	22.3	35.1	38.3
150°	25.5	25.5	19.1	25.5	31.9
152.5°	25.5	25.5	19.1	19.1	25.5
155°	25.5	25.5	19.1	19.1	19.1
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°	15.9	98.9	267.9	322.1	328.5
110°	15.9	86.1	236.0	287.1	293.4



(END OF REPORT)