

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: P830492

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830492
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-48HE-N-UNV-L835-CD
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

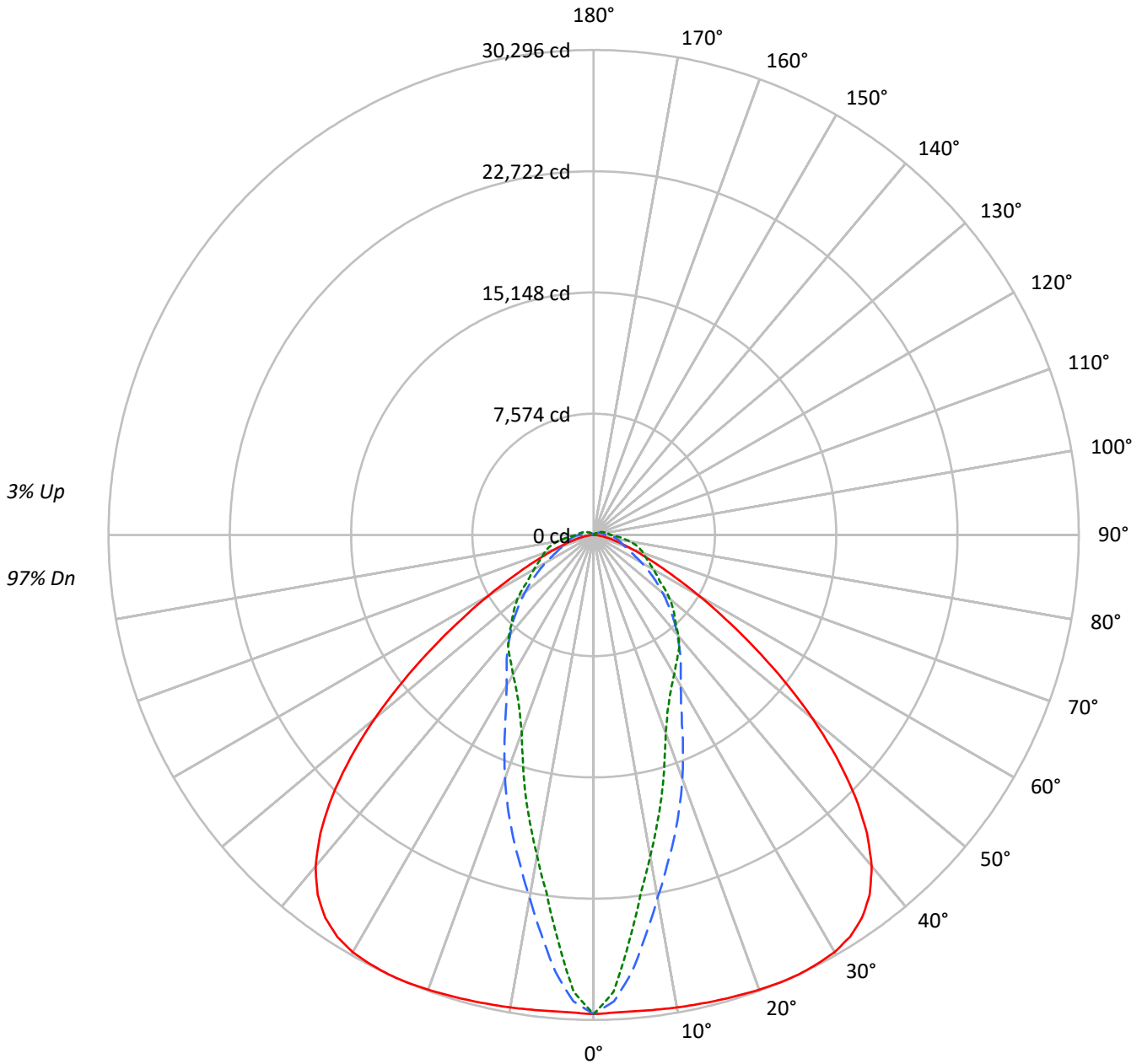
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44172.0 lumens
Efficiency: N/A
Efficacy: 166.1 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): 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					
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	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	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	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	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	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	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	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	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	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	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	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	32	32	32	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	47332	47332	47332
5°	47235	43123	40102
10°	47768	36341	32176
15°	48701	31094	26426
20°	50069	26304	21388
25°	51801	21783	18754
30°	53592	18776	17435
35°	54707	17121	16624
40°	53771	15475	15786
45°	49467	13994	14629
50°	41735	12374	13747
55°	31712	10849	12250
60°	22223	9315	11747
65°	14949	8034	11525
70°	10209	7556	12127
75°	7085	7815	13012
80°	4877	8697	13488
85°	2852	10977	14337



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2519.4	5.7
10°-20°	5926.7	13.4
20°-30°	7429.1	16.8
30°-40°	7883.1	17.8
40°-50°	7127.5	16.1
50°-60°	5167.9	11.7
60°-70°	3243.1	7.3
70°-80°	2146.2	4.9
80°-90°	1236.4	2.8
90°-100°	599.0	1.4
100°-110°	413.4	0.9
110°-120°	255.1	0.6
120°-130°	123.6	0.3
130°-140°	56.8	0.1
140°-150°	31.0	0.1
150°-160°	13.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	15875.1	35.9
0°-40°	23758.2	53.8
0°-60°	36053.7	81.6
0°-90°	42679.5	96.6
90°-120°	1267.6	2.9
90°-150°	1479.1	3.3
90°-180°	1493.0	3.4
0°-180°	44172.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29929	29929	29929	29929	29929	
5°	29869	29103	27394	26123	25465	###
15°	30097	24531	19484	17327	16541	8535
25°	30296	18968	13046	11579	11212	13996
35°	29211	12610	9468	9172	9169	18159
45°	23093	7987	6862	7027	7147	17592
55°	12226	4951	4478	4857	5030	11046
65°	4372	2871	2592	3321	3692	4550
75°	1350	1547	1740	2703	2866	1505
85°	236	641	1273	1772	1626	283
90°	0	268	738	1040	1048	15
95°	11	188	650	883	923	10
105°	23	125	473	627	644	23
115°	31	88	319	399	407	31
125°	34	46	162	205	202	30
135°	28	34	71	111	111	22
145°	34	37	43	66	63	21
155°	34	43	46	48	43	11
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830492

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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	29928.9	29928.9	29928.9	29928.9	29928.9
2.5°	29866.2	29695.3	29162.6	28837.9	28564.5
5°	29869.1	29102.8	27393.7	26123.3	25465.3
7.5°	29911.8	28208.4	25129.2	23274.9	22551.3
10°	29977.3	27100.4	23015.6	21038.8	20363.7
12.5°	30025.7	25852.7	21155.6	19124.6	18384.0
15°	30096.9	24531.0	19483.5	17327.2	16541.1
17.5°	30162.5	23286.3	17831.4	15578.3	14703.8
20°	30228.0	21944.6	16179.3	13857.8	13137.1
22.5°	30290.6	20528.9	14567.1	12521.9	12029.1
25°	30296.3	18968.0	13046.0	11579.0	11211.6
27.5°	30222.3	17350.0	11812.6	10790.0	10562.1
30°	30094.1	15780.5	10855.5	10220.3	10058.0
32.5°	29775.1	14179.7	10114.9	9670.6	9576.6
35°	29211.1	12610.2	9468.3	9172.1	9169.2
37.5°	28322.3	11217.3	8767.6	8716.3	8779.0
40°	27009.2	9998.1	8103.9	8240.6	8240.6
42.5°	25257.4	8938.5	7502.9	7642.4	7605.4
45°	23092.6	7987.1	6862.0	7027.2	7146.8
47.5°	20583.1	7149.7	6206.8	6525.8	6691.1
50°	17854.2	6352.1	5608.6	6016.0	6204.0
52.5°	14994.4	5614.3	5024.7	5491.9	5642.8
55°	12225.6	4950.6	4477.8	4856.6	5030.4
57.5°	9719.0	4318.3	3942.3	4301.2	4660.1
60°	7562.7	3774.2	3438.1	3950.8	4309.7
62.5°	5776.7	3290.0	2965.3	3623.3	3982.2
65°	4372.4	2871.3	2592.1	3321.3	3691.6
67.5°	3295.7	2509.5	2301.6	3102.0	3463.7
70°	2475.3	2159.1	2068.0	2965.3	3290.0
72.5°	1828.7	1837.3	1882.8	2845.6	3093.4
75°	1350.2	1546.7	1740.4	2703.2	2865.6
77.5°	965.6	1281.8	1612.2	2532.3	2589.3
80°	669.4	1045.4	1478.4	2307.3	2258.8
82.5°	418.7	837.5	1358.7	2059.4	1925.6
85°	236.4	640.9	1273.3	1771.7	1626.5
87.5°	105.4	478.5	1113.8	1381.5	1290.4
90°	0.0	267.8	737.8	1039.7	1048.2
92.5°	5.7	222.2	680.8	951.4	979.9
95°	11.4	188.0	649.5	883.0	922.9
97.5°	14.2	165.2	609.6	820.4	854.5
100°	17.1	148.1	561.1	754.8	783.3
102.5°	19.9	136.7	515.6	686.5	709.3
105°	22.8	125.3	472.8	626.7	643.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	28.5	96.8	356.1	450.1	464.3
115°	31.3	88.3	319.0	398.8	407.3
117.5°	34.2	76.9	279.2	350.4	353.2
120°	34.2	68.4	239.3	299.1	299.1
122.5°	34.2	57.0	199.4	247.8	245.0
125°	34.2	45.6	162.4	205.1	202.2
127.5°	31.3	37.0	131.0	170.9	168.1
130°	31.3	37.0	105.4	145.3	145.3
132.5°	28.5	34.2	85.5	125.3	125.3
135°	28.5	34.2	71.2	111.1	111.1
137.5°	28.5	37.0	59.8	96.8	96.8
140°	28.5	34.2	51.3	85.5	85.5
142.5°	31.3	34.2	45.6	74.1	74.1
145°	34.2	37.0	42.7	65.5	62.7
147.5°	34.2	39.9	42.7	57.0	54.1
150°	34.2	42.7	42.7	51.3	48.4
152.5°	34.2	42.7	42.7	48.4	45.6
155°	34.2	42.7	45.6	48.4	42.7
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°	22.8	116.8	433.0	561.1	581.1
110°	25.6	105.4	395.9	501.3	521.3



(END OF REPORT)