

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: P830515

Luminaire Tested: **OHBL-48HE-W-UNV-L830-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830515
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-L830-CD
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

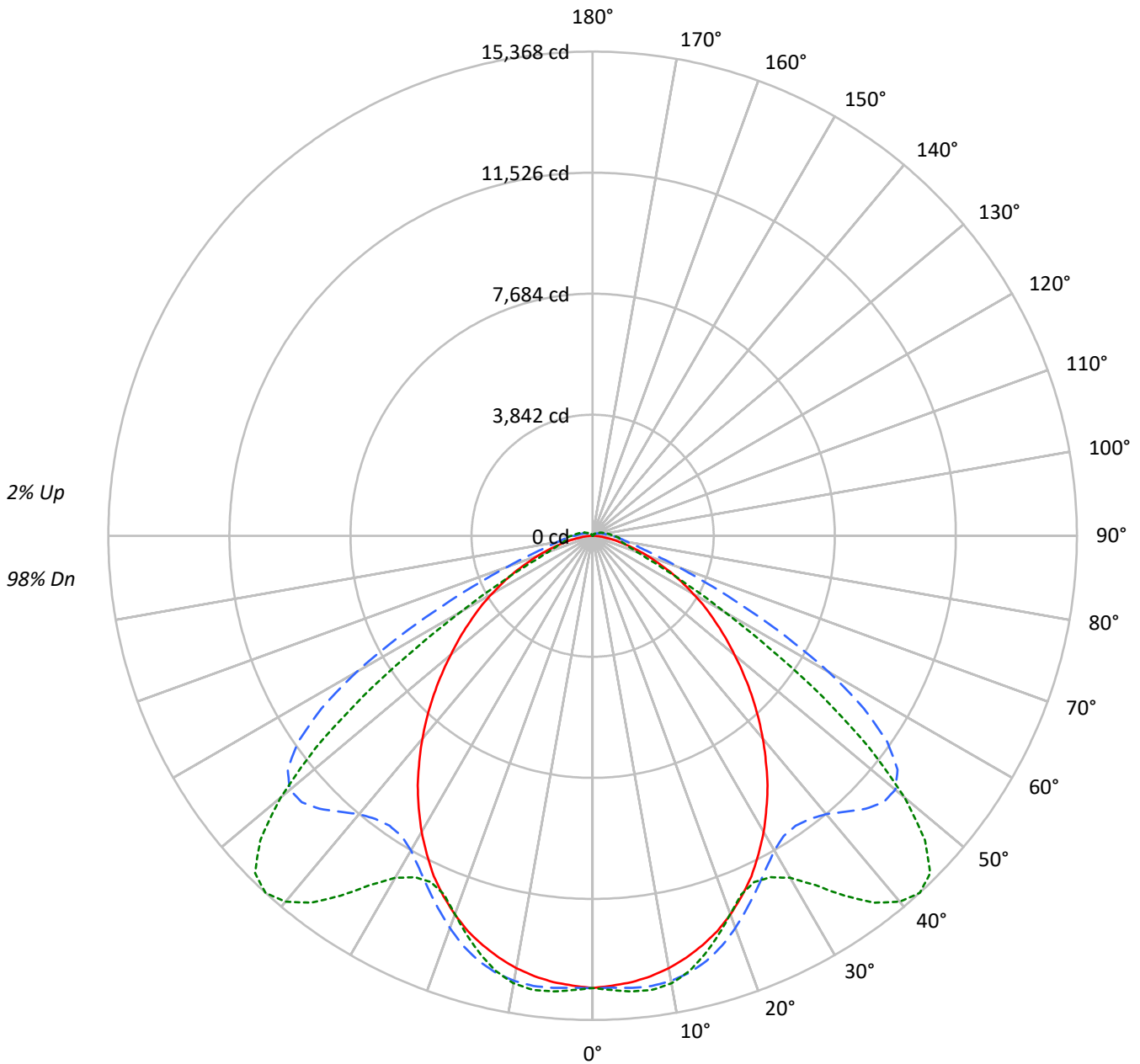
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42981.0 lumens
Efficiency: N/A
Efficacy: 161.6 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									
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	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°	22702	22702	22702
5°	22490	22680	22864
10°	22208	22656	22794
15°	21775	22291	21969
20°	21182	21535	20800
25°	20387	20618	20287
30°	19331	19938	21721
35°	18126	20318	25279
40°	16727	22018	29047
45°	15265	24993	31007
50°	13740	27659	28623
55°	12307	27650	21660
60°	10848	23419	13085
65°	9307	16194	7803
70°	7562	10490	5514
75°	5753	7538	4950
80°	4130	6650	5289
85°	2803	7369	7453



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1371.8	3.2
10°-20°	3884.4	9.0
20°-30°	5684.2	13.2
30°-40°	7382.1	17.2
40°-50°	9014.5	21.0
50°-60°	7938.7	18.5
60°-70°	4136.9	9.6
70°-80°	1774.0	4.1
80°-90°	852.0	2.0
90°-100°	400.3	0.9
100°-110°	248.8	0.6
110°-120°	147.1	0.3
120°-130°	80.0	0.2
130°-140°	40.1	0.1
140°-150°	19.3	0.0
150°-160°	6.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	10940.4	25.5
0°-40°	18322.6	42.6
0°-60°	35275.8	82.1
0°-90°	42038.7	97.8
90°-120°	796.2	1.9
90°-150°	935.6	2.2
90°-180°	942.0	2.2
0°-180°	42981.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14355	14355	14355	14355	14355	
5°	14222	14330	14408	14534	14519	###
15°	13457	13835	13968	13862	13751	3789
25°	11924	12562	12348	12116	12128	5472
35°	9678	10700	11236	13104	13943	6032
45°	7126	8966	12255	14838	15148	5495
55°	4745	7854	11413	10007	8895	4258
65°	2722	5442	5225	2905	2499	2693
75°	1096	2546	1679	1149	1090	1195
85°	232	907	855	836	846	259
90°	3	328	564	644	660	16
95°	6	192	449	526	542	5
105°	12	108	291	350	356	13
115°	19	62	180	220	226	19
125°	22	31	105	136	139	18
135°	19	19	50	84	87	14
145°	25	19	22	40	46	15
155°	25	25	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-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14354.9	14354.9	14354.9	14354.9	14354.9
2.5°	14292.9	14354.9	14358.0	14444.7	14435.4
5°	14221.7	14330.1	14407.5	14534.5	14519.0
7.5°	14104.0	14274.3	14410.6	14550.0	14537.6
10°	13936.8	14169.0	14348.7	14463.3	14426.1
12.5°	13720.0	14026.6	14203.1	14227.9	14156.7
15°	13456.7	13834.6	13967.7	13862.4	13750.9
17.5°	13159.4	13602.3	13648.7	13419.6	13280.2
20°	12787.8	13292.6	13246.1	12930.2	12775.4
22.5°	12375.8	12951.9	12803.2	12471.9	12323.2
25°	11923.7	12561.7	12348.0	12115.7	12128.1
27.5°	11394.1	12118.8	11911.3	12016.6	12214.8
30°	10855.2	11654.2	11527.3	12140.5	12530.7
32.5°	10263.7	11177.3	11291.9	12502.8	13140.8
35°	9678.3	10700.3	11236.1	13103.7	13943.0
37.5°	9031.0	10217.2	11325.9	13797.4	14677.0
40°	8402.3	9746.4	11530.4	14419.9	15163.2
42.5°	7761.2	9325.2	11874.1	14788.5	15367.6
45°	7126.3	8966.0	12255.1	14838.0	15147.7
47.5°	6491.4	8662.5	12518.3	14444.7	14302.2
50°	5878.2	8393.0	12536.9	13500.1	12917.8
52.5°	5305.3	8145.3	12196.2	11994.9	11090.6
55°	4744.7	7854.1	11412.7	10006.6	8894.8
57.5°	4233.7	7451.5	10204.8	7869.6	6655.6
60°	3691.7	6906.4	8643.9	5757.4	4800.4
62.5°	3193.1	6228.2	6894.1	4007.6	3450.1
65°	2722.3	5441.5	5224.7	2905.0	2499.3
67.5°	2223.7	4627.0	3855.8	2118.4	1858.2
70°	1833.5	3871.3	2871.0	1647.6	1495.9
72.5°	1433.9	3152.8	2146.3	1337.9	1254.3
75°	1096.4	2545.8	1678.6	1149.0	1090.2
77.5°	808.3	2013.1	1350.3	1015.8	960.1
80°	566.8	1585.7	1130.4	907.4	885.8
82.5°	380.9	1226.4	963.2	864.1	867.2
85°	232.3	907.4	854.8	836.2	845.5
87.5°	111.5	644.2	734.0	761.9	771.2
90°	3.1	328.3	563.7	644.2	659.7
92.5°	0.0	250.9	495.5	576.1	591.5
95°	6.2	192.0	449.1	526.5	542.0
97.5°	6.2	158.0	402.6	483.1	492.4
100°	9.3	136.3	359.3	436.7	446.0
102.5°	9.3	120.8	322.1	390.2	396.4
105°	12.4	108.4	291.1	350.0	356.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	18.6	74.3	204.4	247.8	254.0
115°	18.6	61.9	179.6	219.9	226.1
117.5°	21.7	55.7	158.0	195.1	198.2
120°	21.7	46.5	136.3	173.4	176.5
122.5°	21.7	37.2	120.8	154.9	158.0
125°	21.7	31.0	105.3	136.3	139.4
127.5°	18.6	21.7	89.8	120.8	123.9
130°	18.6	18.6	74.3	105.3	111.5
132.5°	18.6	18.6	61.9	92.9	99.1
135°	18.6	18.6	49.6	83.6	86.7
137.5°	18.6	18.6	40.3	71.2	77.4
140°	18.6	18.6	31.0	61.9	65.0
142.5°	21.7	18.6	27.9	52.7	55.7
145°	24.8	18.6	21.7	40.3	46.5
147.5°	24.8	21.7	21.7	34.1	37.2
150°	24.8	24.8	18.6	24.8	31.0
152.5°	24.8	24.8	18.6	18.6	24.8
155°	24.8	24.8	18.6	18.6	18.6
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°	15.5	96.0	260.2	312.8	319.0
110°	15.5	83.6	229.2	278.7	284.9



(END OF REPORT)