

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: P830490

Luminaire Tested: **OHBL-48HE-N-UNV-L750-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830490
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-L750-CD
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 5000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

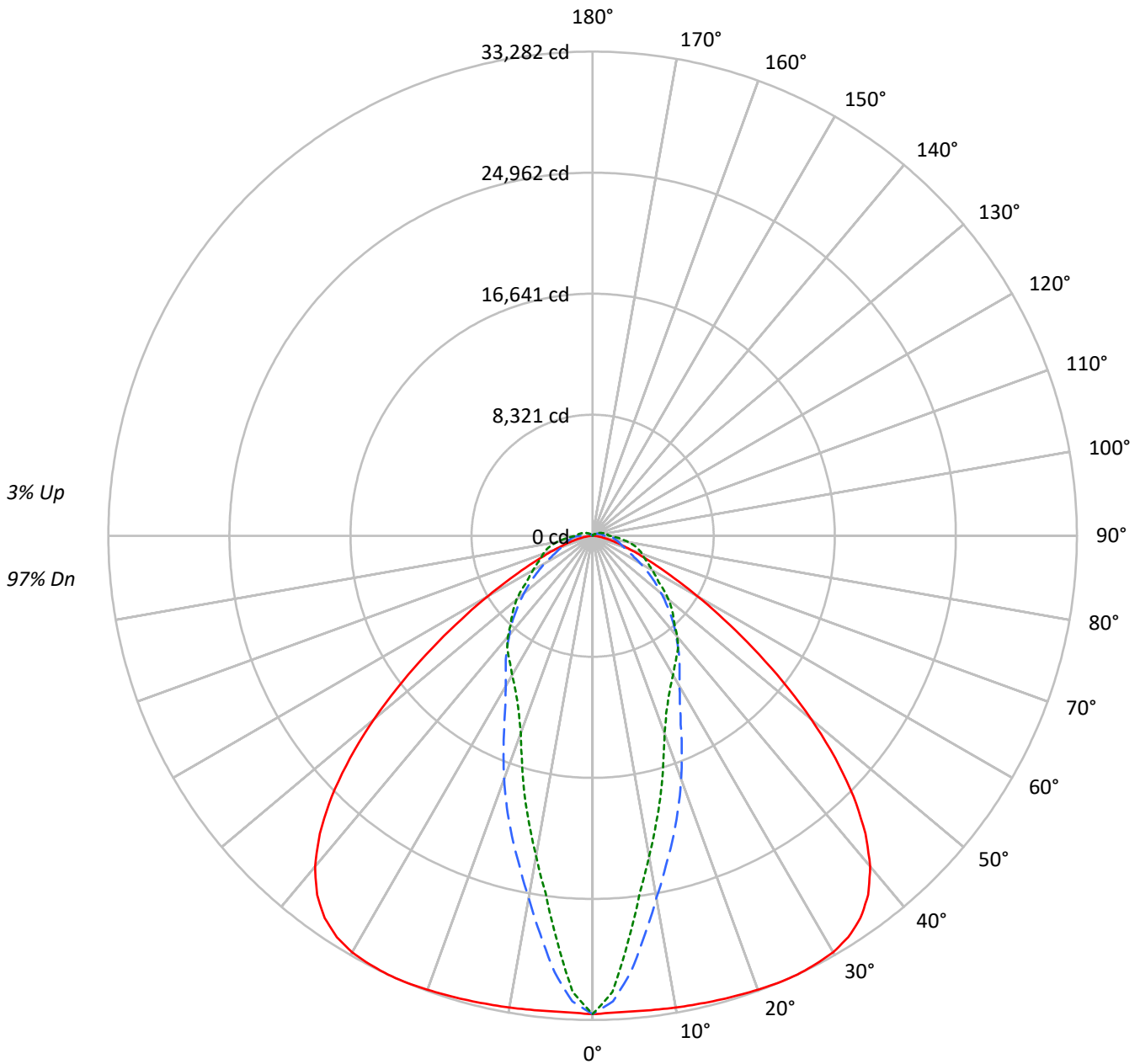
Lumens per Lamp: N/A
Luminaire Lumens: 48525.0 lumens
Efficiency: N/A
Efficacy: 182.4 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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									
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	104	104	104	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	82																	
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	71																	
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	62																	
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	54																	
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	48																	
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	43																	
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	39																	
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	35																	
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	32																	
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	30																	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	51996	51996	51996
5°	51890	47373	44054
10°	52476	39922	35347
15°	53501	34159	29030
20°	55003	28896	23496
25°	56906	23930	20602
30°	58873	20626	19153
35°	60098	18808	18263
40°	59070	17000	17341
45°	54341	15374	16071
50°	45848	13593	15101
55°	34837	11918	13457
60°	24414	10233	12905
65°	16422	8826	12661
70°	11215	8300	13322
75°	7782	8585	14295
80°	5358	9553	14817
85°	3133	12058	15750



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2767.7	5.7
10°-20°	6510.8	13.4
20°-30°	8161.2	16.8
30°-40°	8659.9	17.8
40°-50°	7829.9	16.1
50°-60°	5677.2	11.7
60°-70°	3562.7	7.3
70°-80°	2357.7	4.9
80°-90°	1358.3	2.8
90°-100°	658.0	1.4
100°-110°	454.2	0.9
110°-120°	280.3	0.6
120°-130°	135.8	0.3
130°-140°	62.4	0.1
140°-150°	34.1	0.1
150°-160°	14.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	17439.6	35.9
0°-40°	26099.5	53.8
0°-60°	39606.7	81.6
0°-90°	46885.4	96.6
90°-120°	1392.5	2.9
90°-150°	1624.8	3.3
90°-180°	1640.0	3.4
0°-180°	48525.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	32878	32878	32878	32878	32878	
5°	32813	31971	30093	28698	27975	###
15°	33063	26948	21404	19035	18171	9376
25°	33282	20837	14332	12720	12316	15376
35°	32090	13853	10401	10076	10073	19949
45°	25368	8774	7538	7720	7851	19325
55°	13430	5438	4919	5335	5526	12135
65°	4803	3154	2848	3649	4055	4998
75°	1483	1699	1912	2970	3148	1653
85°	260	704	1399	1946	1787	311
90°	0	294	810	1142	1152	17
95°	12	206	714	970	1014	11
105°	25	138	519	688	707	25
115°	34	97	350	438	448	34
125°	38	50	178	225	222	33
135°	31	38	78	122	122	25
145°	38	41	47	72	69	23
155°	38	47	50	53	47	12
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830490

CATALOG NUMBER: OHBL-48HE-N-UNV-L750-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	32878.3	32878.3	32878.3	32878.3	32878.3
2.5°	32809.4	32621.7	32036.5	31679.8	31379.4
5°	32812.6	31970.8	30093.3	28697.7	27974.9
7.5°	32859.5	30988.3	27605.6	25568.5	24773.7
10°	32931.5	29771.0	25283.8	23112.1	22370.5
12.5°	32984.7	28400.4	23240.4	21009.3	20195.7
15°	33062.9	26948.5	21403.6	19034.8	18171.1
17.5°	33134.9	25581.0	19588.7	17113.5	16152.8
20°	33206.8	24107.2	17773.7	15223.5	14431.8
22.5°	33275.7	22552.0	16002.6	13755.9	13214.5
25°	33281.9	20837.2	14331.6	12720.1	12316.4
27.5°	33200.6	19059.8	12976.7	11853.3	11603.0
30°	33059.8	17335.6	11925.3	11227.5	11049.1
32.5°	32709.3	15577.0	11111.7	10623.6	10520.3
35°	32089.7	13852.9	10401.4	10076.0	10072.8
37.5°	31113.4	12322.7	9631.6	9575.3	9644.1
40°	29670.9	10983.4	8902.5	9052.7	9052.7
42.5°	27746.4	9819.4	8242.3	8395.6	8354.9
45°	25368.2	8774.2	7538.2	7719.7	7851.1
47.5°	22611.4	7854.2	6818.5	7168.9	7350.4
50°	19613.7	6978.1	6161.4	6608.8	6815.4
52.5°	16472.0	6167.6	5519.9	6033.1	6198.9
55°	13430.4	5438.5	4919.1	5335.2	5526.1
57.5°	10676.8	4743.8	4330.8	4725.1	5119.3
60°	8308.0	4146.2	3776.9	4340.2	4734.4
62.5°	6346.0	3614.2	3257.5	3980.3	4374.6
65°	4803.3	3154.2	2847.6	3648.6	4055.4
67.5°	3620.5	2756.8	2528.4	3407.7	3805.1
70°	2719.3	2371.9	2271.8	3257.5	3614.2
72.5°	2008.9	2018.3	2068.4	3126.0	3398.3
75°	1483.2	1699.1	1911.9	2969.6	3148.0
77.5°	1060.8	1408.1	1771.1	2781.8	2844.4
80°	735.4	1148.4	1624.0	2534.6	2481.4
82.5°	460.0	920.0	1492.6	2262.4	2115.3
85°	259.7	704.1	1398.7	1946.3	1786.8
87.5°	115.8	525.7	1223.5	1517.7	1417.5
90°	0.0	294.1	810.5	1142.2	1151.5
92.5°	6.3	244.1	747.9	1045.1	1076.4
95°	12.5	206.5	713.5	970.0	1013.9
97.5°	15.6	181.5	669.6	901.2	938.8
100°	18.8	162.7	616.4	829.2	860.5
102.5°	21.9	150.2	566.4	754.1	779.2
105°	25.0	137.7	519.4	688.4	707.2



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CATALOG NUMBER: OHBL-48HE-N-UNV-L750-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	31.3	106.4	391.1	494.4	510.1
115°	34.4	97.0	350.5	438.1	447.5
117.5°	37.6	84.5	306.7	384.9	388.0
120°	37.6	75.1	262.9	328.6	328.6
122.5°	37.6	62.6	219.0	272.2	269.1
125°	37.6	50.1	178.4	225.3	222.2
127.5°	34.4	40.7	143.9	187.8	184.6
130°	34.4	40.7	115.8	159.6	159.6
132.5°	31.3	37.6	93.9	137.7	137.7
135°	31.3	37.6	78.2	122.0	122.0
137.5°	31.3	40.7	65.7	106.4	106.4
140°	31.3	37.6	56.3	93.9	93.9
142.5°	34.4	37.6	50.1	81.4	81.4
145°	37.6	40.7	46.9	72.0	68.8
147.5°	37.6	43.8	46.9	62.6	59.5
150°	37.6	46.9	46.9	56.3	53.2
152.5°	37.6	46.9	46.9	53.2	50.1
155°	37.6	46.9	50.1	53.2	46.9
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°	25.0	128.3	475.6	616.4	638.4
110°	28.2	115.8	435.0	550.7	572.6



(END OF REPORT)