

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: P830488

Luminaire Tested: **OHBL-48HE-N-UNV-L735-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830488
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-L735-CD
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

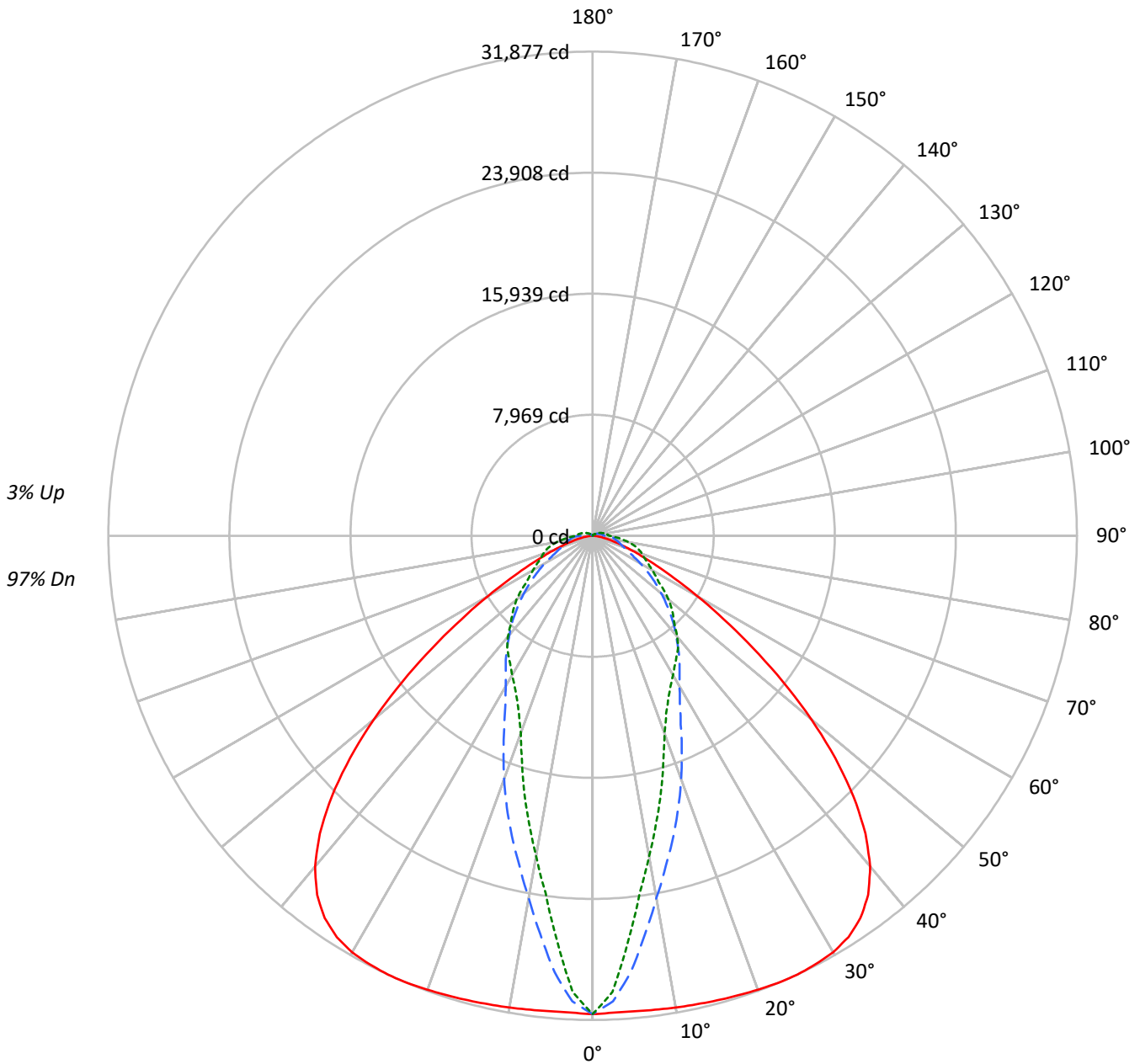
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46477.0 lumens
Efficiency: N/A
Efficacy: 174.7 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°	49802	49802	49802
5°	49700	45374	42194
10°	50261	38237	33855
15°	51243	32717	27805
20°	52682	27677	22505
25°	54504	22920	19732
30°	56388	19756	18345
35°	57562	18014	17492
40°	56576	16283	16609
45°	52048	14725	15393
50°	43913	13019	14464
55°	33367	11415	12889
60°	23383	9801	12360
65°	15729	8454	12127
70°	10742	7950	12760
75°	7454	8223	13691
80°	5131	9150	14192
85°	3002	11549	15085



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2650.9	5.7
10°-20°	6236.0	13.4
20°-30°	7816.7	16.8
30°-40°	8294.4	17.8
40°-50°	7499.5	16.1
50°-60°	5437.6	11.7
60°-70°	3412.4	7.3
70°-80°	2258.2	4.9
80°-90°	1301.0	2.8
90°-100°	630.3	1.4
100°-110°	435.0	0.9
110°-120°	268.4	0.6
120°-130°	130.0	0.3
130°-140°	59.8	0.1
140°-150°	32.7	0.1
150°-160°	14.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	16703.5	35.9
0°-40°	24998.0	53.8
0°-60°	37935.1	81.6
0°-90°	44906.6	96.6
90°-120°	1333.7	2.9
90°-150°	1556.2	3.3
90°-180°	1570.0	3.4
0°-180°	46477.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	31491	31491	31491	31491	31491	
5°	31428	30622	28823	27486	26794	###
15°	31668	25811	20500	18231	17404	8981
25°	31877	19958	13727	12183	11797	14727
35°	30735	13268	9962	9651	9648	19107
45°	24298	8404	7220	7394	7520	18510
55°	12864	5209	4712	5110	5293	11623
65°	4601	3021	2727	3495	3884	4787
75°	1421	1627	1831	2844	3015	1584
85°	249	674	1340	1864	1711	298
90°	0	282	776	1094	1103	16
95°	12	198	683	929	971	11
105°	24	132	498	659	677	24
115°	33	93	336	420	429	32
125°	36	48	171	216	213	31
135°	30	36	75	117	117	24
145°	36	39	45	69	66	22
155°	36	45	48	51	45	11
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830488

CATALOG NUMBER: OHBL-48HE-N-UNV-L735-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	31490.6	31490.6	31490.6	31490.6	31490.6
2.5°	31424.7	31244.9	30684.4	30342.8	30055.0
5°	31427.7	30621.5	28823.2	27486.5	26794.2
7.5°	31472.7	29680.4	26440.5	24489.4	23728.1
10°	31541.6	28514.5	24216.7	22136.7	21426.3
12.5°	31592.5	27201.8	22259.5	20122.6	19343.4
15°	31667.5	25811.1	20500.2	18231.4	17404.2
17.5°	31736.4	24501.4	18761.9	16391.2	15471.1
20°	31805.3	23089.7	17023.6	14580.9	13822.7
22.5°	31871.3	21600.2	15327.2	13175.3	12656.8
25°	31877.3	19957.8	13726.8	12183.3	11796.6
27.5°	31799.3	18255.4	12429.0	11353.1	11113.3
30°	31664.5	16604.0	11422.0	10753.6	10582.8
32.5°	31328.8	14919.6	10642.7	10175.2	10076.3
35°	30735.4	13268.2	9962.4	9650.7	9647.7
37.5°	29800.3	11802.6	9225.1	9171.2	9237.1
40°	28418.6	10519.9	8526.8	8670.6	8670.6
42.5°	26575.4	9404.9	7894.4	8041.2	8002.3
45°	24297.6	8403.9	7220.0	7393.9	7519.8
47.5°	21657.1	7522.7	6530.7	6866.4	7040.2
50°	18785.9	6683.6	5901.3	6329.9	6527.7
52.5°	15776.8	5907.3	5286.9	5778.4	5937.3
55°	12863.6	5209.0	4711.5	5110.1	5292.9
57.5°	10226.1	4543.6	4148.0	4525.6	4903.3
60°	7957.3	3971.2	3617.5	4157.0	4534.6
62.5°	6078.1	3461.7	3120.0	3812.3	4190.0
65°	4600.6	3021.1	2727.4	3494.6	3884.3
67.5°	3467.7	2640.5	2421.7	3263.9	3644.5
70°	2604.5	2271.8	2175.9	3120.0	3461.7
72.5°	1924.1	1933.1	1981.1	2994.1	3254.9
75°	1420.6	1627.4	1831.2	2844.3	3015.1
77.5°	1016.0	1348.7	1696.4	2664.4	2724.4
80°	704.3	1099.9	1555.5	2427.7	2376.7
82.5°	440.6	881.2	1429.6	2166.9	2026.0
85°	248.8	674.3	1339.7	1864.2	1711.4
87.5°	110.9	503.5	1171.9	1453.6	1357.7
90°	0.0	281.7	776.3	1093.9	1102.9
92.5°	6.0	233.8	716.3	1001.0	1031.0
95°	12.0	197.8	683.3	929.1	971.1
97.5°	15.0	173.8	641.4	863.2	899.1
100°	18.0	155.8	590.4	794.2	824.2
102.5°	21.0	143.9	542.5	722.3	746.3
105°	24.0	131.9	497.5	659.4	677.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	30.0	101.9	374.6	473.5	488.5
115°	33.0	92.9	335.7	419.6	428.6
117.5°	36.0	80.9	293.7	368.6	371.6
120°	36.0	71.9	251.8	314.7	314.7
122.5°	36.0	59.9	209.8	260.7	257.8
125°	36.0	48.0	170.8	215.8	212.8
127.5°	33.0	39.0	137.9	179.8	176.8
130°	33.0	39.0	110.9	152.9	152.9
132.5°	30.0	36.0	89.9	131.9	131.9
135°	30.0	36.0	74.9	116.9	116.9
137.5°	30.0	39.0	62.9	101.9	101.9
140°	30.0	36.0	53.9	89.9	89.9
142.5°	33.0	36.0	48.0	77.9	77.9
145°	36.0	39.0	45.0	68.9	65.9
147.5°	36.0	42.0	45.0	59.9	56.9
150°	36.0	45.0	45.0	53.9	51.0
152.5°	36.0	45.0	45.0	51.0	48.0
155°	36.0	45.0	48.0	51.0	45.0
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°	24.0	122.9	455.6	590.4	611.4
110°	27.0	110.9	416.6	527.5	548.5



(END OF REPORT)