

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: P830491

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830491
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-L830-CD
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

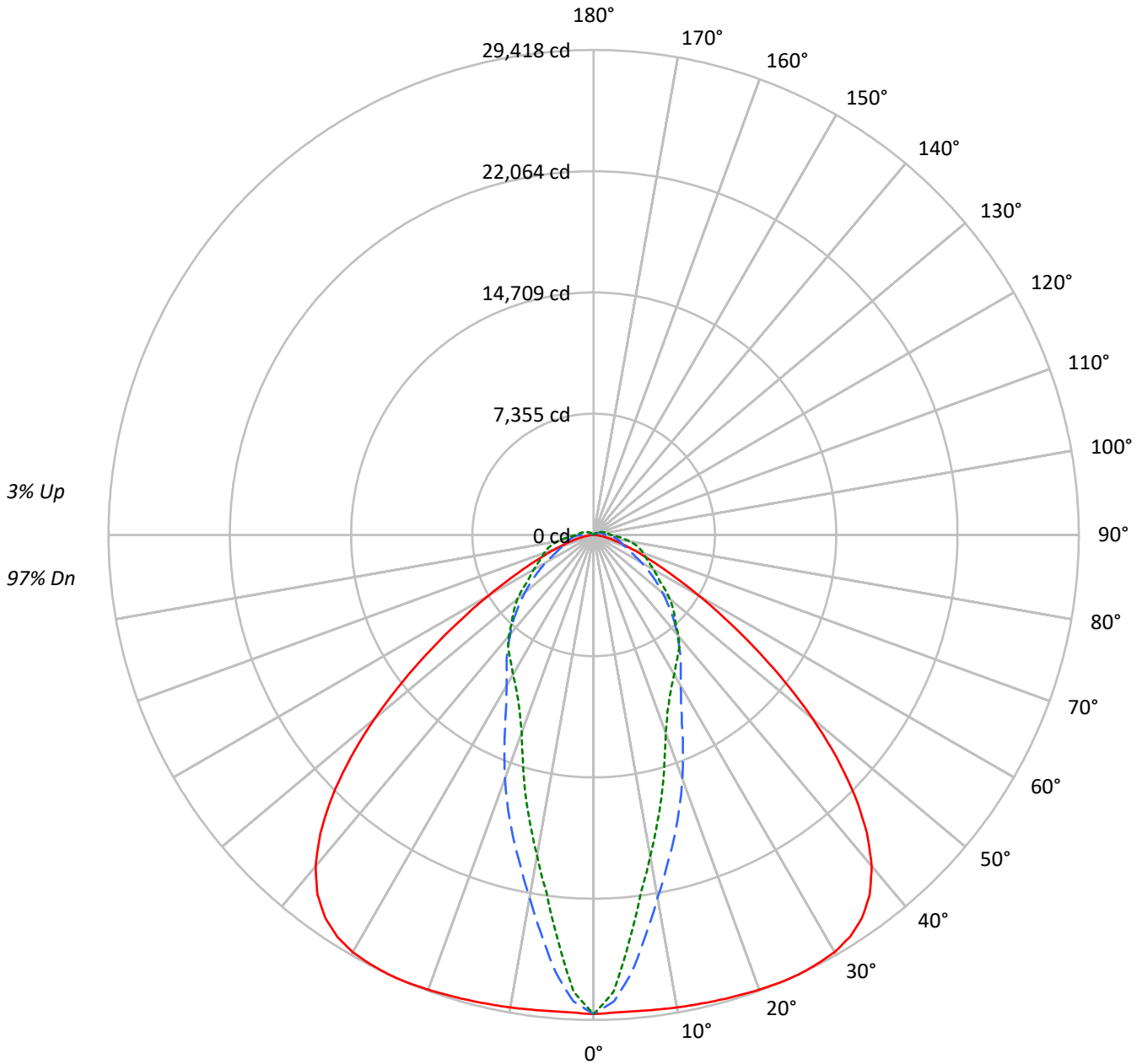
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42892.0 lumens
Efficiency: N/A
Efficacy: 161.2 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

TEST NUMBER: P830491
CATALOG NUMBER: OHBL-48HE-N-UNV-L830-CD

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	0
RCR																					
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	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	82
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	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	62
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	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	48
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	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	39
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	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	32
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	45960	45960	45960
5°	45867	41874	38940
10°	46384	35288	31244
15°	47290	30193	25661
20°	48618	25542	20769
25°	50300	21152	18210
30°	52039	18232	16930
35°	53122	16625	16143
40°	52212	15027	15328
45°	48033	13589	14205
50°	40525	12015	13348
55°	30793	10534	11895
60°	21579	9045	11407
65°	14515	7802	11191
70°	9913	7337	11775
75°	6879	7589	12635
80°	4736	8444	13097
85°	2770	10659	13921



TEST NUMBER: P830491

CATALOG NUMBER: OHBL-48HE-N-UNV-L830-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2446.4	5.7
10°-20°	5755.0	13.4
20°-30°	7213.8	16.8
30°-40°	7654.6	17.8
40°-50°	6921.0	16.1
50°-60°	5018.2	11.7
60°-70°	3149.2	7.3
70°-80°	2084.0	4.9
80°-90°	1200.6	2.8
90°-100°	581.7	1.4
100°-110°	401.5	0.9
110°-120°	247.7	0.6
120°-130°	120.0	0.3
130°-140°	55.2	0.1
140°-150°	30.1	0.1
150°-160°	13.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	15415.1	35.9
0°-40°	23069.8	53.8
0°-60°	35008.9	81.6
0°-90°	41442.7	96.6
90°-120°	1230.9	2.9
90°-150°	1436.2	3.3
90°-180°	1449.0	3.4
0°-180°	42892.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29062	29062	29062	29062	29062	
5°	29004	28260	26600	25366	24727	###
15°	29225	23820	18919	16825	16062	8288
25°	29418	18418	12668	11244	10887	13591
35°	28365	12245	9194	8906	8904	17633
45°	22423	7756	6663	6824	6940	17082
55°	11871	4807	4348	4716	4885	10726
65°	4246	2788	2517	3225	3585	4418
75°	1311	1502	1690	2625	2782	1461
85°	230	622	1236	1720	1579	275
90°	0	260	716	1010	1018	15
95°	11	183	631	857	896	10
105°	22	122	459	608	625	22
115°	30	86	310	387	396	30
125°	33	44	158	199	196	29
135°	28	33	69	108	108	22
145°	33	36	42	64	61	20
155°	33	42	44	47	42	10
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830491

CATALOG NUMBER: OHBL-48HE-N-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	29061.6	29061.6	29061.6	29061.6	29061.6
2.5°	29000.8	28834.8	28317.6	28002.3	27736.7
5°	29003.5	28259.5	26599.9	25366.3	24727.4
7.5°	29045.0	27391.0	24401.0	22600.4	21897.9
10°	29108.6	26315.0	22348.7	20429.2	19773.6
12.5°	29155.7	25103.6	20542.6	18570.4	17851.3
15°	29224.8	23820.2	18919.0	16825.1	16061.8
17.5°	29288.4	22611.5	17314.7	15126.9	14277.7
20°	29352.0	21308.7	15710.5	13456.2	12756.5
22.5°	29412.9	19934.1	14145.0	12159.0	11680.5
25°	29418.4	18418.3	12668.0	11243.5	10886.7
27.5°	29346.5	16847.3	11470.3	10477.3	10256.1
30°	29222.0	15323.2	10541.0	9924.2	9766.5
32.5°	28912.3	13768.8	9821.8	9390.3	9299.1
35°	28364.6	12244.8	9193.9	8906.3	8903.5
37.5°	27501.6	10892.2	8513.5	8463.7	8524.6
40°	26226.5	9708.4	7869.1	8001.8	8001.8
42.5°	24525.5	8679.5	7285.5	7421.0	7385.0
45°	22423.4	7755.7	6663.1	6823.5	6939.7
47.5°	19986.6	6942.5	6027.0	6336.7	6497.2
50°	17336.8	6168.0	5446.1	5841.6	6024.2
52.5°	14559.9	5451.6	4879.1	5332.7	5479.3
55°	11871.4	4807.2	4348.0	4715.9	4884.6
57.5°	9437.4	4193.1	3828.0	4176.6	4525.1
60°	7343.5	3664.9	3338.5	3836.3	4184.9
62.5°	5609.3	3194.6	2879.3	3518.3	3866.8
65°	4245.7	2788.1	2517.0	3225.1	3584.6
67.5°	3200.2	2436.8	2234.9	3012.1	3363.4
70°	2403.6	2096.6	2008.1	2879.3	3194.6
72.5°	1775.7	1784.0	1828.3	2763.2	3003.8
75°	1311.1	1501.9	1690.0	2624.9	2782.5
77.5°	937.6	1244.7	1565.5	2458.9	2514.2
80°	650.0	1015.1	1435.5	2240.4	2193.4
82.5°	406.6	813.2	1319.3	1999.8	1869.8
85°	229.6	622.3	1236.4	1720.4	1579.3
87.5°	102.3	464.7	1081.5	1341.5	1253.0
90°	0.0	260.0	716.4	1009.6	1017.9
92.5°	5.5	215.7	661.1	923.8	951.5
95°	11.1	182.6	630.6	857.4	896.2
97.5°	13.8	160.4	591.9	796.6	829.8
100°	16.6	143.8	544.9	733.0	760.6
102.5°	19.4	132.8	500.6	666.6	688.7
105°	22.1	121.7	459.1	608.5	625.1



TEST NUMBER: P830491

CATALOG NUMBER: OHBL-48HE-N-UNV-L830-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	27.7	94.0	345.7	437.0	450.8
115°	30.4	85.7	309.8	387.2	395.5
117.5°	33.2	74.7	271.1	340.2	343.0
120°	33.2	66.4	232.3	290.4	290.4
122.5°	33.2	55.3	193.6	240.6	237.9
125°	33.2	44.3	157.7	199.1	196.4
127.5°	30.4	36.0	127.2	166.0	163.2
130°	30.4	36.0	102.3	141.1	141.1
132.5°	27.7	33.2	83.0	121.7	121.7
135°	27.7	33.2	69.1	107.9	107.9
137.5°	27.7	36.0	58.1	94.0	94.0
140°	27.7	33.2	49.8	83.0	83.0
142.5°	30.4	33.2	44.3	71.9	71.9
145°	33.2	36.0	41.5	63.6	60.9
147.5°	33.2	38.7	41.5	55.3	52.6
150°	33.2	41.5	41.5	49.8	47.0
152.5°	33.2	41.5	41.5	47.0	44.3
155°	33.2	41.5	44.3	47.0	41.5
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°	22.1	113.4	420.4	544.9	564.2
110°	24.9	102.3	384.5	486.8	506.2



(END OF REPORT)