

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: P830495

Luminaire Tested: **OHBL-48HE-N-UNV-L930-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830495
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-L930-CD
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

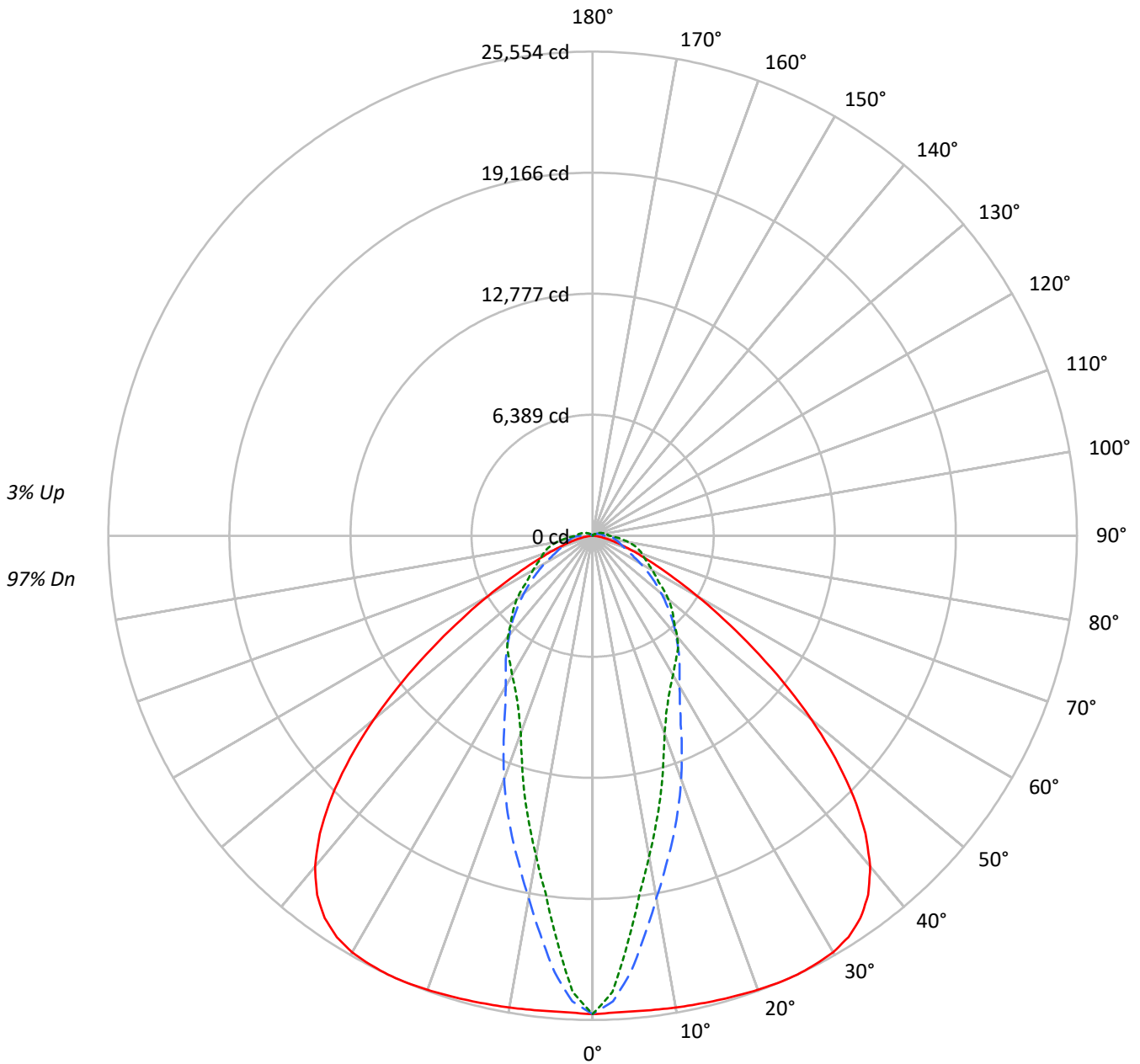
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37258.0 lumens
Efficiency: N/A
Efficacy: 140.1 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									
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°	39923	39923	39923
5°	39842	36374	33825
10°	40291	30653	27140
15°	41078	26227	22290
20°	42232	22187	18041
25°	43693	18373	15818
30°	45203	15837	14706
35°	46144	14441	14022
40°	45354	13053	13315
45°	41724	11804	12340
50°	35202	10437	11595
55°	26748	9151	10332
60°	18745	7857	9909
65°	12609	6777	9721
70°	8611	6373	10229
75°	5975	6592	10975
80°	4114	7336	11377
85°	2406	9259	12093



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2125.0	5.7
10°-20°	4999.0	13.4
20°-30°	6266.2	16.8
30°-40°	6649.2	17.8
40°-50°	6011.9	16.1
50°-60°	4359.0	11.7
60°-70°	2735.5	7.3
70°-80°	1810.3	4.9
80°-90°	1042.9	2.8
90°-100°	505.3	1.4
100°-110°	348.7	0.9
110°-120°	215.2	0.6
120°-130°	104.2	0.3
130°-140°	47.9	0.1
140°-150°	26.2	0.1
150°-160°	11.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	13390.3	35.9
0°-40°	20039.5	53.8
0°-60°	30410.4	81.6
0°-90°	35999.1	96.6
90°-120°	1069.2	2.9
90°-150°	1247.5	3.3
90°-180°	1259.0	3.4
0°-180°	37258.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25244	25244	25244	25244	25244	
5°	25194	24548	23106	22034	21479	###
15°	25386	20691	16434	14615	13952	7199
25°	25554	15999	11004	9767	9457	11806
35°	24639	10636	7986	7736	7734	15317
45°	19478	6737	5788	5927	6028	14838
55°	10312	4176	3777	4096	4243	9317
65°	3688	2422	2186	2801	3114	3838
75°	1139	1305	1468	2280	2417	1269
85°	199	541	1074	1494	1372	239
90°	0	226	622	877	884	13
95°	10	159	548	745	778	8
105°	19	106	399	529	543	19
115°	26	74	269	336	344	26
125°	29	38	137	173	171	25
135°	24	29	60	94	94	19
145°	29	31	36	55	53	17
155°	29	36	38	41	36	9
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830495

CATALOG NUMBER: OHBL-48HE-N-UNV-L930-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	25244.3	25244.3	25244.3	25244.3	25244.3
2.5°	25191.4	25047.3	24598.0	24324.1	24093.4
5°	25193.8	24547.5	23106.0	22034.4	21479.4
7.5°	25229.9	23793.1	21195.9	19631.8	19021.5
10°	25285.1	22858.5	19413.1	17745.7	17176.3
12.5°	25326.0	21806.1	17844.2	16131.2	15506.5
15°	25386.0	20691.3	16433.9	14615.1	13952.0
17.5°	25441.3	19641.4	15040.4	13139.9	12402.3
20°	25496.6	18509.8	13646.9	11688.7	11080.9
22.5°	25549.4	17315.7	12287.0	10561.9	10146.2
25°	25554.2	15999.0	11004.0	9766.6	9456.7
27.5°	25491.8	14634.3	9963.6	9101.1	8908.9
30°	25383.6	13310.5	9156.4	8620.6	8483.6
32.5°	25114.5	11960.2	8531.7	8156.9	8077.6
35°	24638.8	10636.4	7986.3	7736.4	7734.0
37.5°	23889.2	9461.5	7395.3	7352.0	7404.9
40°	22781.6	8433.2	6835.4	6950.8	6950.8
42.5°	21304.0	7539.4	6328.5	6446.2	6415.0
45°	19478.0	6736.9	5787.9	5927.3	6028.2
47.5°	17361.3	6030.6	5235.3	5504.4	5643.7
50°	15059.6	5357.8	4730.8	5074.3	5232.9
52.5°	12647.4	4735.6	4238.2	4632.2	4759.6
55°	10312.0	4175.7	3776.9	4096.5	4243.0
57.5°	8197.7	3642.4	3325.2	3627.9	3930.7
60°	6378.9	3183.5	2900.0	3332.4	3635.2
62.5°	4872.5	2775.0	2501.1	3056.1	3358.9
65°	3688.0	2421.8	2186.4	2801.4	3113.8
67.5°	2779.8	2116.7	1941.3	2616.4	2921.6
70°	2087.9	1821.2	1744.3	2501.1	2775.0
72.5°	1542.5	1549.7	1588.1	2400.2	2609.2
75°	1138.8	1304.6	1468.0	2280.1	2417.0
77.5°	814.5	1081.2	1359.9	2135.9	2184.0
80°	564.6	881.8	1247.0	1946.1	1905.3
82.5°	353.2	706.4	1146.0	1737.1	1624.2
85°	199.4	540.6	1074.0	1494.4	1371.9
87.5°	88.9	403.6	939.4	1165.3	1088.4
90°	0.0	225.8	622.3	877.0	884.2
92.5°	4.8	187.4	574.2	802.5	826.5
95°	9.6	158.6	547.8	744.8	778.4
97.5°	12.0	139.4	514.2	692.0	720.8
100°	14.4	124.9	473.3	636.7	660.7
102.5°	16.8	115.3	434.9	579.0	598.3
105°	19.2	105.7	398.8	528.6	543.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	24.0	81.7	300.3	379.6	391.6
115°	26.4	74.5	269.1	336.4	343.6
117.5°	28.8	64.9	235.5	295.5	297.9
120°	28.8	57.7	201.8	252.3	252.3
122.5°	28.8	48.1	168.2	209.0	206.6
125°	28.8	38.4	136.9	173.0	170.6
127.5°	26.4	31.2	110.5	144.2	141.8
130°	26.4	31.2	88.9	122.5	122.5
132.5°	24.0	28.8	72.1	105.7	105.7
135°	24.0	28.8	60.1	93.7	93.7
137.5°	24.0	31.2	50.5	81.7	81.7
140°	24.0	28.8	43.2	72.1	72.1
142.5°	26.4	28.8	38.4	62.5	62.5
145°	28.8	31.2	36.0	55.3	52.9
147.5°	28.8	33.6	36.0	48.1	45.6
150°	28.8	36.0	36.0	43.2	40.8
152.5°	28.8	36.0	36.0	40.8	38.4
155°	28.8	36.0	38.4	40.8	36.0
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°	19.2	98.5	365.2	473.3	490.1
110°	21.6	88.9	334.0	422.9	439.7



(END OF REPORT)