

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: P830485

Luminaire Tested: **OHBL-48HE-MFL-UNV-L940-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830485  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-48HE-MFL-UNV-L940-CD  
Description: 48000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

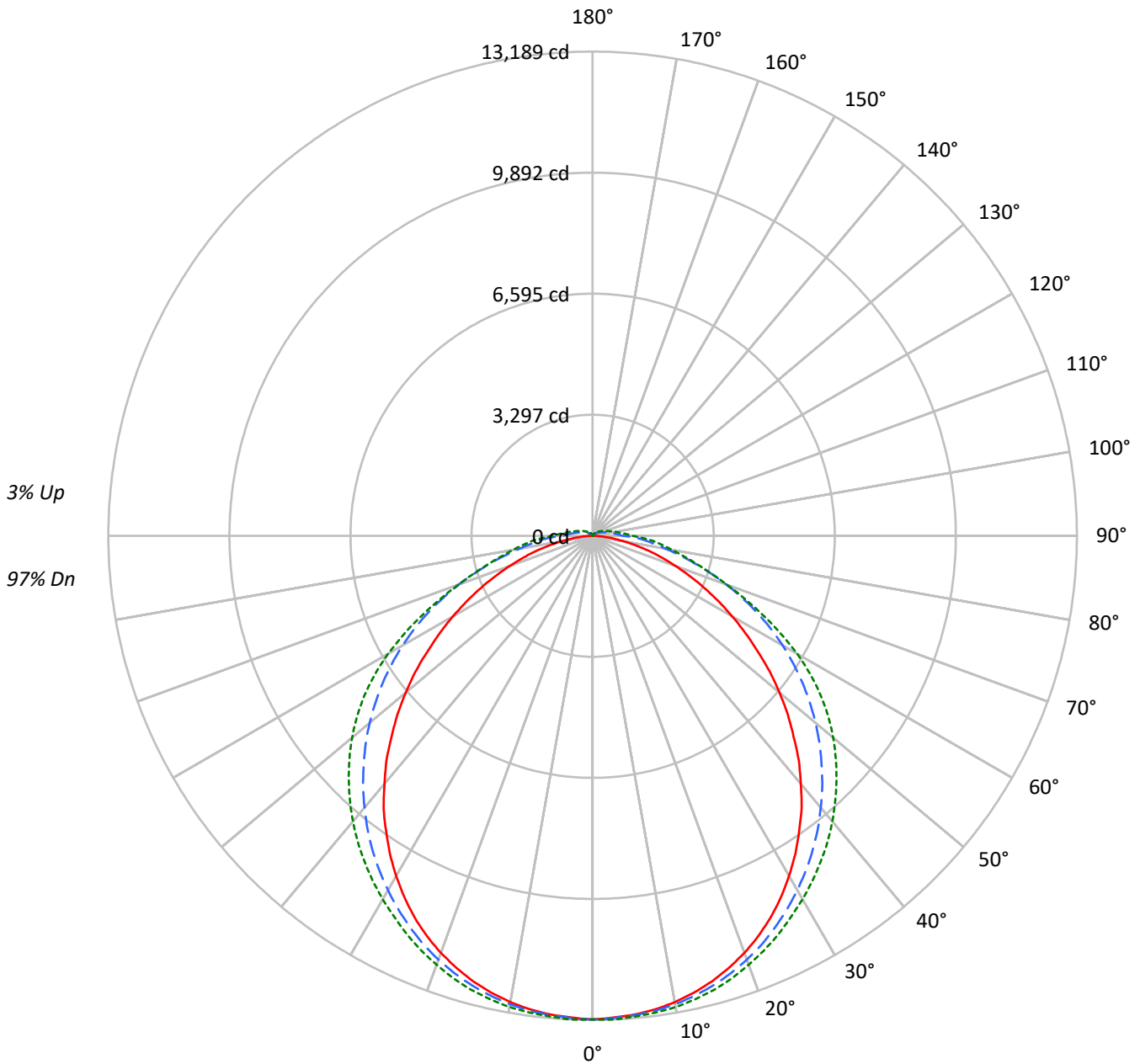
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39434.0 lumens  
Efficiency: N/A  
Efficacy: 148.2 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
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<sub>in</sub>): 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	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	80																	
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	66																	
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	56																	
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	47																	
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	41																	
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	36																	
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	32																	
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	28																	
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	25																	
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	23																	

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	20838	20838	20838
5°	20704	20640	20703
10°	20559	20458	20595
15°	20330	20241	20453
20°	20025	19974	20245
25°	19618	19642	20034
30°	19054	19281	19822
35°	18372	18898	19639
40°	17552	18455	19458
45°	16585	17974	19228
50°	15528	17487	18949
55°	14228	16891	18477
60°	12897	16189	17535
65°	11444	15293	15987
70°	9868	14150	14311
75°	8274	12830	13179
80°	6273	11875	13074
85°	3968	12343	14610



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1248.5	3.2
10°-20°	3581.8	9.1
20°-30°	5416.8	13.7
30°-40°	6503.0	16.5
40°-50°	6716.5	17.0
50°-60°	6042.8	15.3
60°-70°	4551.9	11.5
70°-80°	2748.6	7.0
80°-90°	1344.3	3.4
90°-100°	565.8	1.4
100°-110°	323.0	0.8
110°-120°	189.6	0.5
120°-130°	107.2	0.3
130°-140°	56.5	0.1
140°-150°	27.4	0.1
150°-160°	10.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	10247.2	26.0
0°-40°	16750.1	42.5
0°-60°	29509.4	74.8
0°-90°	38154.2	96.8
90°-120°	1078.4	2.7
90°-150°	1269.6	3.2
90°-180°	1280.0	3.2
0°-180°	39434.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	13176	13176	13176	13176	13176	
5°	13092	13128	13112	13163	13147	###
15°	12564	12625	12683	12789	12802	3542
25°	11474	11599	11764	11948	11977	5277
35°	9810	10038	10451	10767	10832	6132
45°	7742	8133	8813	9294	9394	5977
55°	5485	6053	6972	7497	7588	4918
65°	3347	4031	4934	5179	5121	3325
75°	1577	2264	2857	2931	2902	1682
85°	329	867	1432	1628	1658	380
90°	0	339	819	1032	1074	21
95°	16	229	613	780	809	14
105°	23	132	355	464	484	23
115°	26	74	219	293	306	26
125°	26	36	132	190	200	23
135°	23	29	68	116	129	18
145°	32	29	32	58	68	19
155°	32	36	32	29	32	10
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-MFL-UNV-L940-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	13176.2	13176.2	13176.2	13176.2	13176.2
2.5°	13137.5	13169.7	13150.4	13192.3	13189.1
5°	13092.3	13127.8	13111.7	13163.3	13147.1
7.5°	13014.9	13053.6	13050.4	13108.4	13102.0
10°	12902.1	12944.0	12956.9	13034.3	13034.3
12.5°	12747.3	12802.1	12834.3	12927.9	12931.1
15°	12563.5	12624.7	12682.8	12789.2	12802.1
17.5°	12341.0	12418.3	12499.0	12621.5	12637.6
20°	12089.4	12176.5	12286.1	12415.1	12434.5
22.5°	11799.2	11902.4	12044.3	12195.8	12218.4
25°	11473.5	11599.3	11763.7	11947.5	11976.6
27.5°	11102.7	11247.8	11470.3	11676.7	11702.5
30°	10699.6	10870.5	11147.8	11392.9	11434.8
32.5°	10273.9	10470.6	10812.4	11086.5	11144.6
35°	9809.6	10038.5	10451.3	10767.3	10831.8
37.5°	9351.7	9603.2	10070.8	10431.9	10509.3
40°	8816.3	9129.1	9664.4	10064.3	10157.8
42.5°	8313.3	8651.9	9258.1	9693.5	9783.8
45°	7742.5	8132.7	8813.1	9293.6	9393.6
47.5°	7207.2	7629.7	8384.2	8880.8	8984.0
50°	6642.9	7107.3	7926.3	8445.5	8551.9
52.5°	6078.6	6578.4	7452.3	7990.8	8090.8
55°	5485.2	6052.8	6971.8	7497.4	7587.7
57.5°	4933.8	5533.6	6478.4	6978.3	7033.1
60°	4388.8	5011.2	5975.4	6413.9	6433.3
62.5°	3856.7	4511.4	5459.4	5807.7	5781.9
65°	3347.2	4030.9	4933.8	5178.9	5120.8
67.5°	2857.1	3563.3	4395.3	4553.3	4475.9
70°	2392.7	3108.6	3872.9	3953.5	3882.5
72.5°	1983.2	2676.5	3344.0	3411.7	3360.1
75°	1576.9	2263.7	2857.1	2931.3	2902.2
77.5°	1196.4	1863.9	2408.9	2505.6	2512.0
80°	861.0	1499.5	2018.7	2170.2	2189.6
82.5°	567.5	1164.1	1693.0	1886.5	1915.5
85°	328.9	867.4	1431.8	1628.5	1657.5
87.5°	141.9	625.6	1151.2	1328.6	1364.1
90°	0.0	338.6	819.1	1031.9	1073.8
92.5°	9.7	280.5	703.0	896.5	931.9
95°	16.1	229.0	612.7	780.4	809.4
97.5°	19.3	193.5	532.1	680.4	709.4
100°	19.3	167.7	461.1	596.6	622.4
102.5°	19.3	148.3	403.1	522.4	545.0
105°	22.6	132.2	354.7	464.4	483.7



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	25.8	87.1	245.1	328.9	341.8
115°	25.8	74.2	219.3	293.4	306.3
117.5°	29.0	64.5	193.5	264.4	274.1
120°	29.0	54.8	170.9	235.4	248.3
122.5°	29.0	45.1	151.6	212.8	222.5
125°	25.8	35.5	132.2	190.3	199.9
127.5°	22.6	29.0	112.9	170.9	180.6
130°	22.6	25.8	96.7	151.6	161.2
132.5°	22.6	29.0	80.6	132.2	145.1
135°	22.6	29.0	67.7	116.1	129.0
137.5°	22.6	29.0	54.8	100.0	112.9
140°	25.8	29.0	45.1	83.8	96.7
142.5°	29.0	29.0	35.5	70.9	80.6
145°	32.2	29.0	32.2	58.0	67.7
147.5°	32.2	32.2	32.2	45.1	54.8
150°	32.2	35.5	32.2	35.5	45.1
152.5°	32.2	35.5	32.2	29.0	35.5
155°	32.2	35.5	32.2	29.0	32.2
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°	22.6	116.1	312.8	412.8	428.9
110°	22.6	103.2	277.3	367.6	383.7



(END OF REPORT)