

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: P830057

Luminaire Tested: **OHBL-24HE-N-UNV-L740-CD**

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P830057  
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-24HE-N-UNV-L740-CD  
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND NARROW LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

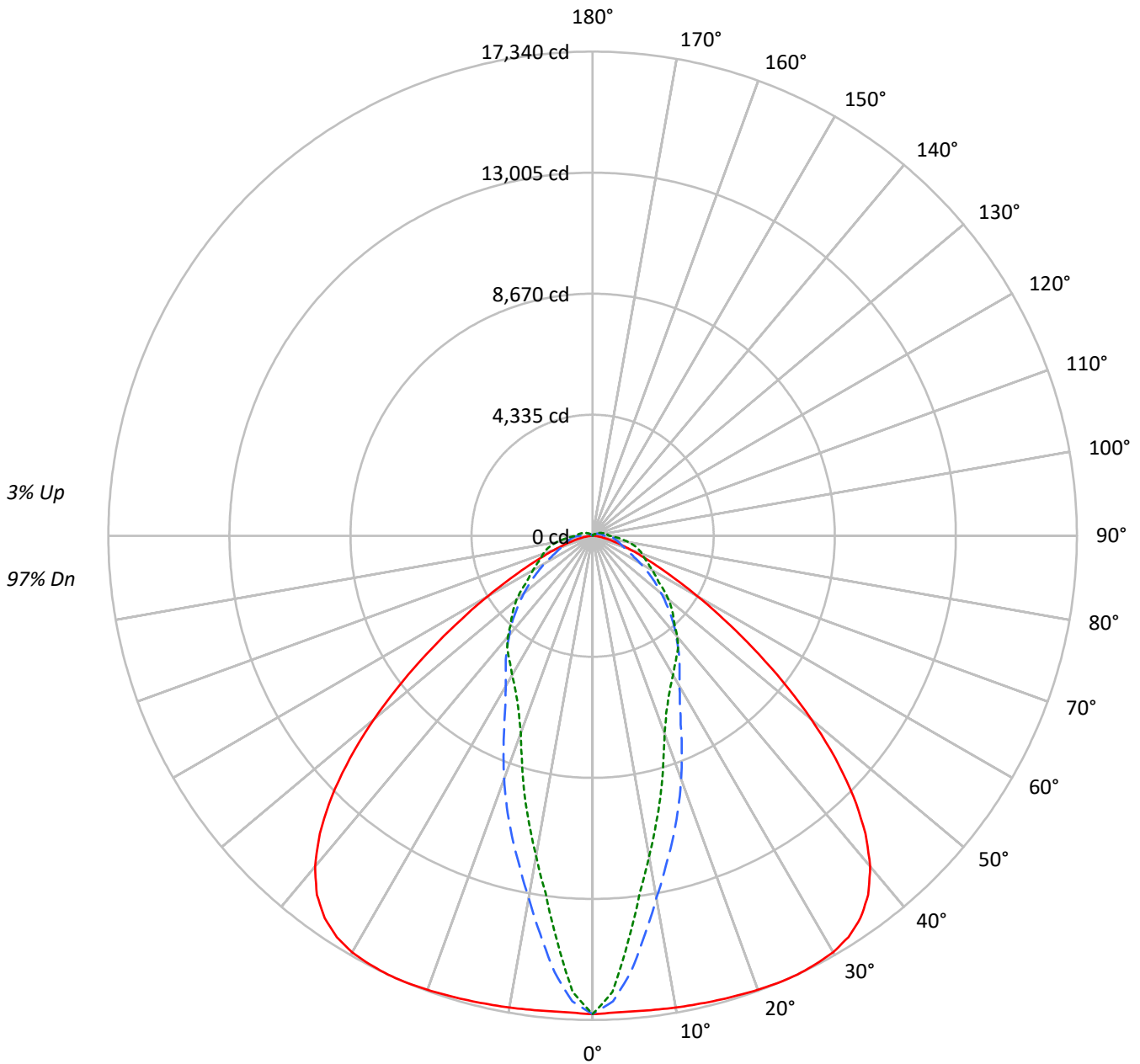
Lumens per Lamp: N/A  
Luminaire Lumens: 25282.0 lumens  
Efficiency: N/A  
Efficacy: 190.1 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78  
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 133  
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	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°	27091	27091	27091
5°	27035	24682	22952
10°	27340	20800	18416
15°	27874	17797	15125
20°	28657	15055	12242
25°	29649	12468	10734
30°	30673	10746	9979
35°	31312	9799	9515
40°	30776	8857	9035
45°	28312	8010	8373
50°	23887	7082	7868
55°	18151	6209	7011
60°	12720	5331	6724
65°	8556	4599	6597
70°	5843	4324	6941
75°	4055	4473	7448
80°	2791	4977	7720
85°	1632	6283	8206



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1442.0	5.7
10°-20°	3392.2	13.4
20°-30°	4252.0	16.8
30°-40°	4511.9	17.8
40°-50°	4079.5	16.1
50°-60°	2957.9	11.7
60°-70°	1856.2	7.3
70°-80°	1228.4	4.9
80°-90°	707.7	2.8
90°-100°	342.9	1.4
100°-110°	236.6	0.9
110°-120°	146.0	0.6
120°-130°	70.7	0.3
130°-140°	32.5	0.1
140°-150°	17.8	0.1
150°-160°	7.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	9086.2	35.9
0°-40°	13598.1	53.8
0°-60°	20635.5	81.6
0°-90°	24427.8	96.6
90°-120°	725.5	2.9
90°-150°	846.5	3.3
90°-180°	854.0	3.4
0°-180°	25282.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	17130	17130	17130	17130	17130	
5°	17096	16657	15679	14952	14575	###
15°	17226	14040	11152	9917	9467	4885
25°	17340	10856	7467	6627	6417	8011
35°	16719	7218	5419	5250	5248	10393
45°	13217	4572	3928	4022	4090	10069
55°	6997	2834	2563	2780	2879	6322
65°	2503	1643	1484	1901	2113	2604
75°	773	885	996	1547	1640	861
85°	135	367	729	1014	931	162
90°	0	153	422	595	600	9
95°	6	108	372	505	528	6
105°	13	72	271	359	368	13
115°	18	50	183	228	233	18
125°	20	26	93	117	116	17
135°	16	20	41	64	64	13
145°	20	21	24	38	36	12
155°	20	24	26	28	24	6
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	17129.9	17129.9	17129.9	17129.9	17129.9
2.5°	17094.0	16996.2	16691.3	16505.5	16349.0
5°	17095.7	16657.1	15678.9	14951.8	14575.2
7.5°	17120.1	16145.2	14382.8	13321.4	12907.3
10°	17157.6	15511.0	13173.1	12041.6	11655.2
12.5°	17185.3	14796.9	12108.5	10946.1	10522.2
15°	17226.1	14040.4	11151.5	9917.3	9467.3
17.5°	17263.6	13328.0	10205.9	8916.3	8415.8
20°	17301.1	12560.1	9260.3	7931.6	7519.1
22.5°	17337.0	11749.8	8337.5	7166.9	6884.9
25°	17340.2	10856.4	7466.9	6627.3	6417.0
27.5°	17297.8	9930.4	6761.0	6175.7	6045.3
30°	17224.5	9032.0	6213.2	5849.6	5756.7
32.5°	17041.9	8115.8	5789.3	5535.0	5481.2
35°	16719.1	7217.5	5419.2	5249.7	5248.0
37.5°	16210.4	6420.2	5018.2	4988.8	5024.7
40°	15458.8	5722.5	4638.3	4716.6	4716.6
42.5°	14456.2	5116.0	4294.3	4374.2	4353.0
45°	13217.1	4571.5	3927.5	4022.0	4090.5
47.5°	11780.8	4092.1	3552.5	3735.1	3829.7
50°	10218.9	3635.6	3210.1	3443.3	3550.9
52.5°	8582.1	3213.4	2875.9	3143.3	3229.7
55°	6997.4	2833.5	2562.9	2779.7	2879.2
57.5°	5562.7	2471.6	2256.4	2461.8	2667.2
60°	4328.5	2160.2	1967.8	2261.3	2466.7
62.5°	3306.3	1883.0	1697.2	2073.8	2279.2
65°	2502.6	1643.4	1483.6	1901.0	2112.9
67.5°	1886.3	1436.3	1317.3	1775.4	1982.5
70°	1416.8	1235.8	1183.6	1697.2	1883.0
72.5°	1046.7	1051.6	1077.6	1628.7	1770.5
75°	772.8	885.3	996.1	1547.2	1640.1
77.5°	552.7	733.6	922.8	1449.4	1482.0
80°	383.1	598.3	846.1	1320.6	1292.9
82.5°	239.7	479.3	777.7	1178.7	1102.1
85°	135.3	366.8	728.8	1014.1	930.9
87.5°	60.3	273.9	637.5	790.7	738.5
90°	0.0	153.3	422.3	595.1	600.0
92.5°	3.3	127.2	389.6	544.5	560.8
95°	6.5	107.6	371.7	505.4	528.2
97.5°	8.2	94.6	348.9	469.5	489.1
100°	9.8	84.8	321.2	432.0	448.3
102.5°	11.4	78.3	295.1	392.9	406.0
105°	13.0	71.7	270.6	358.7	368.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	16.3	55.4	203.8	257.6	265.7
115°	17.9	50.5	182.6	228.2	233.1
117.5°	19.6	44.0	159.8	200.5	202.2
120°	19.6	39.1	136.9	171.2	171.2
122.5°	19.6	32.6	114.1	141.8	140.2
125°	19.6	26.1	92.9	117.4	115.8
127.5°	17.9	21.2	75.0	97.8	96.2
130°	17.9	21.2	60.3	83.1	83.1
132.5°	16.3	19.6	48.9	71.7	71.7
135°	16.3	19.6	40.8	63.6	63.6
137.5°	16.3	21.2	34.2	55.4	55.4
140°	16.3	19.6	29.3	48.9	48.9
142.5°	17.9	19.6	26.1	42.4	42.4
145°	19.6	21.2	24.5	37.5	35.9
147.5°	19.6	22.8	24.5	32.6	31.0
150°	19.6	24.5	24.5	29.3	27.7
152.5°	19.6	24.5	24.5	27.7	26.1
155°	19.6	24.5	26.1	27.7	24.5
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°	13.0	66.8	247.8	321.2	332.6
110°	14.7	60.3	226.6	286.9	298.4



(END OF REPORT)