

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: P830067

Luminaire Tested: **OHBL-24HE-NL-UNV-L730-CD**

Issue Date: 5/3/2024



**Test Information**

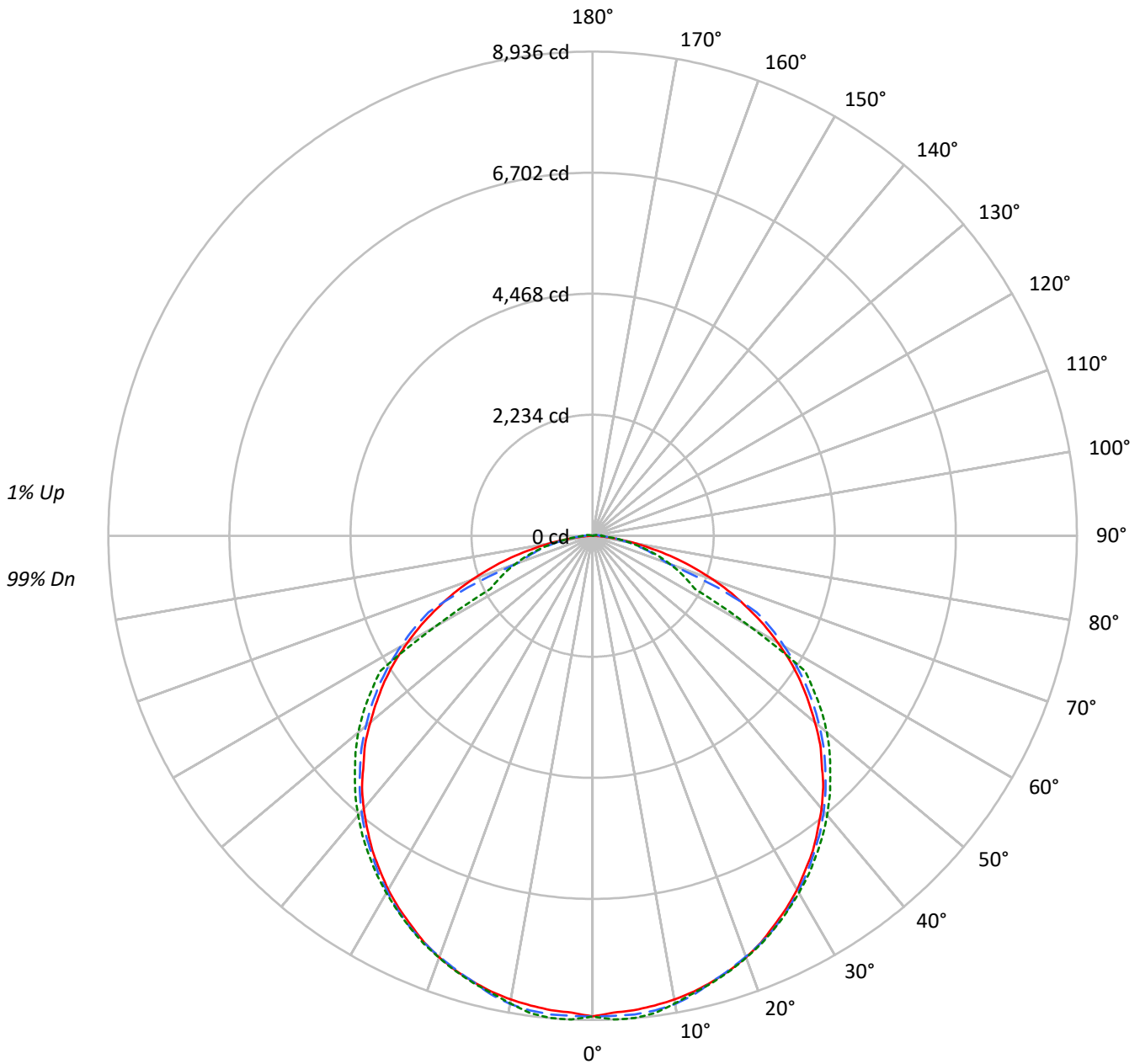
Test Method: LM-79-08  
Report Number: P830067  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-24HE-NL-UNV-L730-CD  
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND NO LENS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24906.0 lumens  
Efficiency: N/A  
Efficacy: 187.3 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39  
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 133  
Input Voltage (V): NR  
Input Current (Ain): 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: P830067  
CATALOG NUMBER: OHBL-24HE-NL-UNV-L730-CD

### 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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	99																			
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86	84																			
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73	71																			
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62	60																			
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51																			
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44																			
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39																			
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34																			
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30																			
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27																			
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25																			

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

	0°	45°	90°
0°	14029	14029	14029
5°	13952	14078	14184
10°	13956	14088	14070
15°	13953	13951	13981
20°	13934	13913	13947
25°	13839	13909	13920
30°	13775	13846	13900
35°	13685	13761	13890
40°	13567	13696	13898
45°	13372	13574	13869
50°	13170	13438	13882
55°	12918	13253	13730
60°	12485	12929	10689
65°	11813	12500	7194
70°	10926	6636	6982
75°	9530	6306	6667
80°	7329	5784	6110
85°	3700	5846	5986



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	842.8	3.4
10°-20°	2413.1	9.7
20°-30°	3671.7	14.7
30°-40°	4464.3	17.9
40°-50°	4694.0	18.8
50°-60°	4286.1	17.2
60°-70°	2747.6	11.0
70°-80°	1297.9	5.2
80°-90°	359.9	1.4
90°-100°	95.3	0.4
100°-110°	26.1	0.1
110°-120°	7.2	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	6927.5	27.8
0°-40°	11391.8	45.7
0°-60°	20371.9	81.8
0°-90°	24777.4	99.5
90°-120°	128.6	0.5
90°-150°	128.6	0.5
90°-180°	129.0	0.5
0°-180°	24906.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	8871	8871	8871	8871	8871	
5°	8788	8823	8868	8916	8935	836
15°	8522	8586	8521	8533	8539	2406
25°	7931	7943	7971	7984	7977	3659
35°	7089	7047	7128	7215	7194	4430
45°	5979	5968	6069	6212	6201	4621
55°	4685	4649	4807	4967	4980	4178
65°	3157	3157	3340	1916	1922	3130
75°	1560	1589	1032	1086	1091	1644
85°	204	258	322	349	330	301
90°	0	87	143	170	167	9
95°	5	45	103	139	139	3
105°	8	17	25	25	23	8
115°	8	11	16	11	2	5
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P830067

CATALOG NUMBER: OHBL-24HE-NL-UNV-L730-CD

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	8870.9	8870.9	8870.9	8870.9	<i>8870.9</i>
2.5°	<i>8808.6</i>	<i>8838.2</i>	<i>8870.9</i>	<i>8912.9</i>	<i>8936.1</i>
5°	8788.3	8822.6	8867.7	8916.0	<i>8934.7</i>
7.5°	8744.8	8792.9	8836.6	8870.9	<i>8881.8</i>
10°	8690.3	8747.9	8772.8	8769.7	<i>8761.9</i>
12.5°	8617.1	8677.9	8670.2	8634.2	<i>8640.5</i>
15°	8522.2	8585.9	8520.7	8533.0	<i>8539.3</i>
17.5°	8410.1	8472.4	8396.1	8421.0	<i>8422.6</i>
20°	8279.4	8326.1	8266.9	8287.2	<i>8287.2</i>
22.5°	8122.2	8154.8	8129.9	8144.0	<i>8147.1</i>
25°	7930.7	7943.1	7971.1	7983.6	<i>7977.3</i>
27.5°	7747.1	7731.5	7786.0	7815.5	<i>7799.9</i>
30°	7543.1	7518.2	7582.0	7630.3	<i>7611.7</i>
32.5°	7309.6	7294.1	7367.3	7424.8	<i>7413.9</i>
35°	7088.6	7046.6	7127.5	7214.7	<i>7194.4</i>
37.5°	6827.1	6802.2	6894.0	6985.9	<i>6975.0</i>
40°	6571.8	6529.8	6634.1	6743.0	<i>6732.1</i>
42.5°	6297.9	6248.0	6361.7	6492.5	<i>6480.0</i>
45°	5978.7	5967.8	6069.0	6212.2	<i>6201.3</i>
47.5°	5695.6	5641.0	5782.6	5921.2	<i>5933.7</i>
50°	5352.9	5332.8	5462.0	5630.1	<i>5642.5</i>
52.5°	5018.4	5004.4	5139.7	5309.4	<i>5331.2</i>
55°	4685.2	4649.4	4806.6	4967.0	<i>4979.5</i>
57.5°	4328.9	4291.5	4451.8	4626.2	<i>4652.6</i>
60°	3947.4	3911.6	4087.5	4249.5	<i>3379.3</i>
62.5°	3566.0	3541.2	3724.9	2638.4	<i>2126.4</i>
65°	3156.7	3156.7	3340.3	1916.1	<i>1922.4</i>
67.5°	2773.9	2749.0	2490.6	1721.5	<i>1721.5</i>
70°	2362.9	2372.3	1435.1	1508.4	<i>1509.9</i>
72.5°	1950.4	1984.7	1239.1	1298.1	<i>1301.2</i>
75°	1559.6	1589.3	1032.0	1086.5	<i>1091.1</i>
77.5°	1145.7	881.0	829.6	871.8	<i>873.3</i>
80°	804.7	555.7	635.1	675.5	<i>670.9</i>
82.5°	470.0	389.1	465.4	495.1	<i>493.4</i>
85°	203.9	258.4	322.2	348.7	<i>329.9</i>
87.5°	65.3	160.3	200.7	216.4	<i>214.7</i>
90°	0.0	87.2	143.2	169.6	<i>166.6</i>
92.5°	0.0	68.4	124.6	155.7	<i>157.2</i>
95°	4.6	45.2	102.8	138.6	<i>138.6</i>
97.5°	3.1	32.6	73.2	108.9	<i>112.1</i>
100°	3.1	26.4	48.3	77.8	<i>79.4</i>
102.5°	7.7	21.8	29.5	49.8	<i>51.4</i>
105°	7.7	17.1	24.9	24.9	<i>23.4</i>



TEST NUMBER: P830067

CATALOG NUMBER: OHBL-24HE-NL-UNV-L730-CD

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	9.4	12.5	17.1	12.5	1.5
115°	7.7	10.9	15.5	10.9	1.5
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
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°	7.7	15.5	21.8	14.0	4.6
110°	9.4	14.0	18.6	12.5	1.5



(END OF REPORT)