

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: P830040

Luminaire Tested: **OHBL-24HE-MCL-UNV-L935-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830040
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24HE-MCL-UNV-L935-CD
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

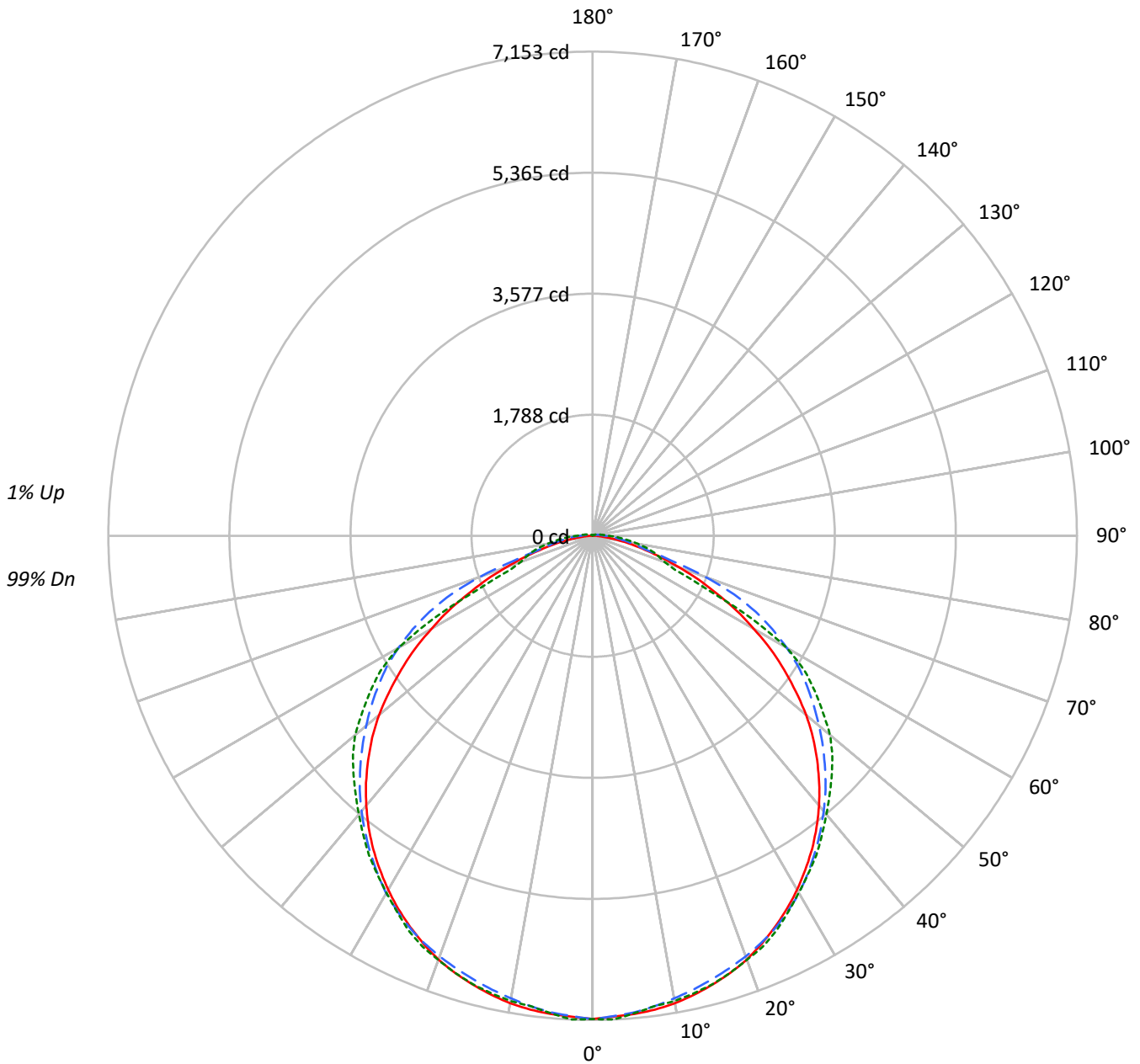
Lumens per Lamp: N/A
Luminaire Lumens: 20178.0 lumens
Efficiency: N/A
Efficacy: 151.7 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 133
Input Voltage (V): NR
Input Current (A_{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	119	119	119	119	116	116	116	116	110	110	110	106	106	106	101	101	101				99																
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86				83																
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72				70																
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61				59																
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53				51																
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46				44																
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40				38																
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36				34																
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32				30																
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29				27																
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26				24																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11290	11290	11290
5°	11216	11126	11150
10°	11175	10958	11026
15°	11104	10832	10952
20°	11033	10752	10855
25°	10900	10672	10759
30°	10756	10546	10555
35°	10582	10346	10443
40°	10357	10140	10290
45°	10045	9901	10223
50°	9623	9629	10142
55°	8951	9361	9763
60°	8072	8969	9026
65°	6924	8242	5720
70°	5577	6434	4147
75°	4181	3820	4209
80°	2911	3176	4019
85°	1657	2910	3766



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	673.1	3.3
10°-20°	1930.3	9.6
20°-30°	2948.1	14.6
30°-40°	3577.1	17.7
40°-50°	3749.1	18.6
50°-60°	3397.2	16.8
60°-70°	2277.7	11.3
70°-80°	1022.8	5.1
80°-90°	371.2	1.8
90°-100°	111.7	0.6
100°-110°	52.7	0.3
110°-120°	26.4	0.1
120°-130°	14.6	0.1
130°-140°	10.0	0.0
140°-150°	6.7	0.0
150°-160°	5.0	0.0
160°-170°	3.2	0.0
170°-180°	1.0	0.0
0°-30°	5551.5	27.5
0°-40°	9128.6	45.2
0°-60°	16274.9	80.7
0°-90°	19946.6	98.9
90°-120°	190.8	0.9
90°-150°	222.2	1.1
90°-180°	231.0	1.1
0°-180°	20178.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7139	7139	7139	7139	7139	
5°	7092	7117	7068	7089	7080	675
15°	6862	6836	6787	6847	6855	1938
25°	6375	6347	6392	6450	6432	2939
35°	5650	5664	5722	5783	5760	3532
45°	4690	4766	4855	4978	4994	3613
55°	3451	3617	3864	4018	4009	3080
65°	2025	2342	2659	2244	1832	2018
75°	797	1156	851	870	927	871
85°	137	263	338	408	427	168
90°	1	88	174	219	229	8
95°	1	55	120	146	150	1
105°	4	24	59	71	74	5
115°	8	12	30	38	40	8
125°	7	8	19	22	23	7
135°	9	10	11	16	18	7
145°	9	10	10	11	12	6
155°	10	11	11	11	10	5
165°	11	11	11	11	11	3
175°	11	11	10	9	9	1
180°	10	10	10	10	10	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7139.0	7139.0	7139.0	7139.0	<i>7139.0</i>
2.5°	<i>7110.1</i>	<i>7140.0</i>	<i>7102.9</i>	<i>7143.1</i>	<i>7153.4</i>
5°	7092.5	7117.3	7067.8	7089.4	<i>7080.2</i>
7.5°	7060.5	7068.8	7010.0	7027.5	<i>7008.9</i>
10°	7013.1	7008.9	6939.8	6973.8	<i>6978.0</i>
12.5°	6942.9	6930.5	6868.5	6920.2	<i>6921.2</i>
15°	6862.4	6835.5	6787.0	6846.9	<i>6855.1</i>
17.5°	6769.5	6734.4	6702.4	6779.8	<i>6767.4</i>
20°	6661.1	6619.8	6613.6	6698.2	<i>6667.3</i>
22.5°	6526.9	6494.9	6509.3	6589.8	<i>6570.2</i>
25°	6375.1	6347.3	6391.6	6450.5	<i>6431.9</i>
27.5°	6215.1	6198.6	6249.2	6294.6	<i>6258.5</i>
30°	6039.7	6030.4	6097.5	6134.6	<i>6089.2</i>
32.5°	5848.7	5851.8	5915.8	5966.4	<i>5924.0</i>
35°	5650.5	5663.9	5721.7	5782.6	<i>5759.9</i>
37.5°	5432.7	5462.6	5520.4	5589.6	<i>5565.9</i>
40°	5202.5	5245.9	5309.9	5393.5	<i>5371.8</i>
42.5°	4953.7	5008.4	5091.0	5183.9	<i>5181.9</i>
45°	4689.5	4765.9	4854.6	4978.5	<i>4994.0</i>
47.5°	4414.9	4500.6	4613.1	4778.3	<i>4802.0</i>
50°	4116.6	4223.9	4364.3	4562.5	<i>4577.0</i>
52.5°	3784.2	3930.8	4116.6	4306.5	<i>4289.0</i>
55°	3450.8	3617.0	3863.7	4018.5	<i>4009.2</i>
57.5°	3118.4	3305.2	3604.6	3715.0	<i>3714.0</i>
60°	2746.8	2983.2	3310.4	3394.0	<i>3311.4</i>
62.5°	2403.1	2657.0	2996.6	2935.7	<i>2652.9</i>
65°	2025.3	2342.2	2659.1	2244.1	<i>1832.2</i>
67.5°	1689.8	2020.1	2258.5	1537.0	<i>1316.1</i>
70°	1352.2	1716.6	1761.0	1140.6	<i>1125.1</i>
72.5°	1052.9	1441.0	1215.0	976.5	<i>1026.0</i>
75°	796.9	1156.1	850.6	870.2	<i>927.0</i>
77.5°	581.2	887.7	661.7	762.8	<i>809.3</i>
80°	399.5	628.6	539.9	641.0	<i>673.0</i>
82.5°	250.8	415.0	432.5	516.1	<i>549.2</i>
85°	137.3	263.2	337.5	407.7	<i>427.3</i>
87.5°	56.8	159.0	258.1	314.8	<i>331.4</i>
90°	1.0	87.7	174.4	218.8	<i>229.2</i>
92.5°	1.0	67.1	142.4	176.5	<i>183.7</i>
95°	1.0	54.7	119.7	145.5	<i>149.7</i>
97.5°	2.1	43.4	100.1	120.8	<i>124.9</i>
100°	3.1	36.1	83.6	101.2	<i>104.3</i>
102.5°	4.1	28.9	70.2	84.6	<i>87.7</i>
105°	4.1	23.7	58.8	71.2	<i>74.3</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	7.2	14.5	35.1	44.4	46.5
115°	8.3	12.4	29.9	38.2	40.3
117.5°	8.3	10.3	25.8	32.0	34.1
120°	8.3	9.3	22.7	27.9	28.9
122.5°	8.3	8.3	19.6	24.8	25.8
125°	7.2	8.3	18.6	21.7	22.7
127.5°	8.3	8.3	16.5	19.6	20.6
130°	8.3	9.3	14.5	18.6	18.6
132.5°	9.3	10.3	13.4	17.5	17.5
135°	9.3	10.3	11.4	16.5	17.5
137.5°	10.3	10.3	10.3	15.5	16.5
140°	10.3	10.3	9.3	13.4	14.5
142.5°	9.3	10.3	9.3	12.4	13.4
145°	9.3	10.3	10.3	11.4	12.4
147.5°	10.3	10.3	10.3	10.3	11.4
150°	10.3	10.3	10.3	10.3	10.3
152.5°	10.3	10.3	10.3	10.3	10.3
155°	10.3	11.4	11.4	11.4	10.3
157.5°	10.3	11.4	11.4	11.4	11.4
160°	10.3	11.4	11.4	11.4	11.4
162.5°	11.4	11.4	11.4	11.4	11.4
165°	11.4	11.4	11.4	11.4	11.4
167.5°	11.4	12.4	11.4	11.4	11.4
170°	11.4	11.4	11.4	10.3	10.3
172.5°	11.4	11.4	11.4	10.3	10.3
175°	11.4	11.4	10.3	9.3	9.3
177.5°	12.4	11.4	10.3	9.3	8.3
180°	10.3	10.3	10.3	10.3	10.3



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	5.2	19.6	50.6	60.9	63.0
110°	6.2	16.5	42.3	51.6	53.7



(END OF REPORT)