

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: P830104

Luminaire Tested: **OHBL-24SE-MCL-UNV-L735-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830104
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-24SE-MCL-UNV-L735-CD
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

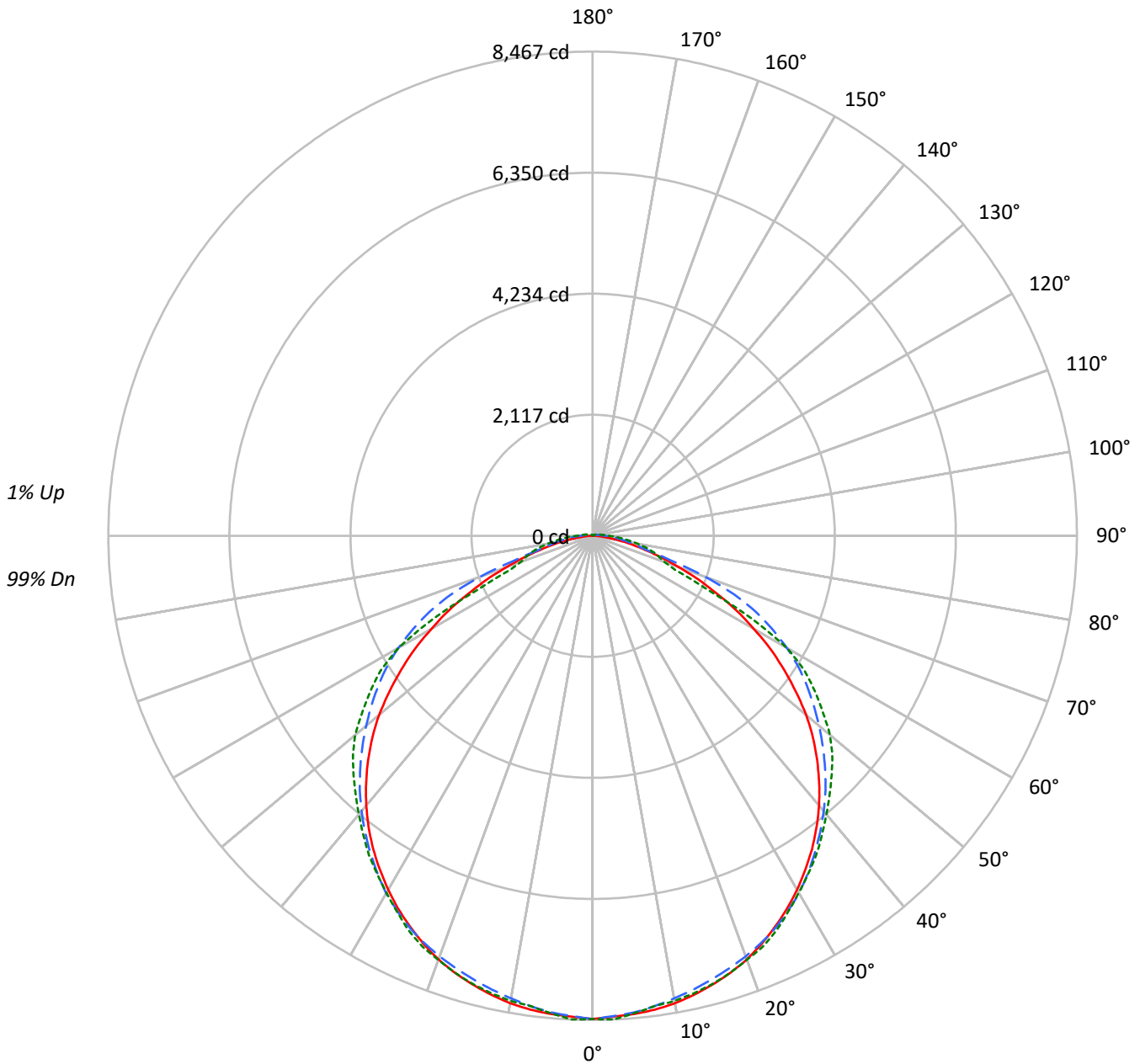
Lumens per Lamp: N/A
Luminaire Lumens: 23883.0 lumens
Efficiency: N/A
Efficacy: 173.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 138
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°	14432	14432	14432
5°	14338	14216	14243
10°	14285	13994	14076
15°	14195	13827	13973
20°	14104	13719	13840
25°	13934	13611	13708
30°	13749	13443	13438
35°	13527	13180	13285
40°	13240	12909	13079
45°	12841	12596	12980
50°	12301	12240	12862
55°	11442	11888	12365
60°	10318	11377	11412
65°	8851	10439	7217
70°	7129	8132	5217
75°	5345	4813	5272
80°	3720	3983	4999
85°	2117	3617	4625



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	796.7	3.3
10°-20°	2284.7	9.6
20°-30°	3489.4	14.6
30°-40°	4233.9	17.7
40°-50°	4437.5	18.6
50°-60°	4021.0	16.8
60°-70°	2695.9	11.3
70°-80°	1210.6	5.1
80°-90°	439.3	1.8
90°-100°	132.2	0.6
100°-110°	62.4	0.3
110°-120°	31.3	0.1
120°-130°	17.3	0.1
130°-140°	11.9	0.0
140°-150°	8.0	0.0
150°-160°	5.9	0.0
160°-170°	3.8	0.0
170°-180°	1.2	0.0
0°-30°	6570.8	27.5
0°-40°	10804.7	45.2
0°-60°	19263.2	80.7
0°-90°	23609.1	98.9
90°-120°	225.9	0.9
90°-150°	263.0	1.1
90°-180°	274.0	1.1
0°-180°	23883.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8450	8450	8450	8450	8450	
5°	8395	8424	8366	8391	8380	798
15°	8122	8091	8033	8104	8114	2293
25°	7546	7513	7565	7635	7613	3478
35°	6688	6704	6772	6844	6818	4180
45°	5550	5641	5746	5893	5911	4276
55°	4084	4281	4573	4756	4745	3646
65°	2397	2772	3147	2656	2169	2388
75°	943	1368	1007	1030	1097	1031
85°	162	312	400	483	506	198
90°	1	104	206	259	271	10
95°	1	65	142	172	177	2
105°	5	28	70	84	88	6
115°	10	15	35	45	48	9
125°	9	10	22	26	27	9
135°	11	12	13	20	21	9
145°	11	12	12	13	15	7
155°	12	13	13	13	12	6
165°	13	13	13	13	13	4
175°	13	13	12	11	11	1
180°	12	12	12	12	12	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8449.8	8449.8	8449.8	8449.8	<i>8449.8</i>
2.5°	<i>8415.6</i>	<i>8451.0</i>	<i>8407.1</i>	<i>8454.7</i>	<i>8466.9</i>
5°	8394.8	8424.2	8365.5	8391.2	<i>8380.2</i>
7.5°	8357.0	8366.7	8297.1	8317.9	<i>8295.9</i>
10°	8300.8	8295.9	8214.0	8254.3	<i>8259.2</i>
12.5°	8217.7	8203.0	8129.7	8190.8	<i>8192.0</i>
15°	8122.4	8090.6	8033.2	8104.1	<i>8113.8</i>
17.5°	8012.4	7970.9	7933.0	8024.6	<i>8010.0</i>
20°	7884.1	7835.3	7827.9	7928.1	<i>7891.5</i>
22.5°	7725.3	7687.4	7704.5	7799.8	<i>7776.6</i>
25°	7545.7	7512.7	7565.3	7634.9	<i>7612.9</i>
27.5°	7356.3	7336.8	7396.7	7450.4	<i>7407.6</i>
30°	7148.6	7137.6	7217.1	7261.0	<i>7207.3</i>
32.5°	6922.6	6926.3	7002.0	7061.9	<i>7011.8</i>
35°	6688.0	6703.9	6772.3	6844.4	<i>6817.5</i>
37.5°	6430.2	6465.7	6534.1	6615.9	<i>6587.8</i>
40°	6157.8	6209.1	6284.8	6383.8	<i>6358.1</i>
42.5°	5863.3	5928.1	6025.8	6135.8	<i>6133.3</i>
45°	5550.5	5641.0	5746.0	5892.6	<i>5911.0</i>
47.5°	5225.6	5327.0	5460.1	5655.6	<i>5683.7</i>
50°	4872.5	4999.5	5165.7	5400.3	<i>5417.4</i>
52.5°	4479.0	4652.5	4872.5	5097.3	<i>5076.5</i>
55°	4084.4	4281.1	4573.1	4756.4	<i>4745.4</i>
57.5°	3691.0	3912.1	4266.5	4397.2	<i>4396.0</i>
60°	3251.2	3530.9	3918.2	4017.2	<i>3919.5</i>
62.5°	2844.3	3144.9	3546.8	3474.7	<i>3140.0</i>
65°	2397.1	2772.2	3147.3	2656.1	<i>2168.7</i>
67.5°	2000.1	2391.0	2673.3	1819.2	<i>1557.8</i>
70°	1600.5	2031.8	2084.4	1350.1	<i>1331.7</i>
72.5°	1246.2	1705.6	1438.0	1155.8	<i>1214.4</i>
75°	943.2	1368.4	1006.7	1030.0	<i>1097.2</i>
77.5°	687.9	1050.7	783.2	902.9	<i>957.9</i>
80°	472.8	744.1	639.0	758.7	<i>796.6</i>
82.5°	296.9	491.2	511.9	610.9	<i>650.0</i>
85°	162.5	311.6	399.5	482.6	<i>505.8</i>
87.5°	67.2	188.2	305.4	372.6	<i>392.2</i>
90°	1.2	103.9	206.5	259.0	<i>271.2</i>
92.5°	1.2	79.4	168.6	208.9	<i>217.5</i>
95°	1.2	64.8	141.7	172.3	<i>177.2</i>
97.5°	2.4	51.3	118.5	142.9	<i>147.8</i>
100°	3.7	42.8	99.0	119.7	<i>123.4</i>
102.5°	4.9	34.2	83.1	100.2	<i>103.9</i>
105°	4.9	28.1	69.6	84.3	<i>88.0</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.6	17.1	41.5	52.5	55.0
115°	9.8	14.7	35.4	45.2	47.6
117.5°	9.8	12.2	30.5	37.9	40.3
120°	9.8	11.0	26.9	33.0	34.2
122.5°	9.8	9.8	23.2	29.3	30.5
125°	8.6	9.8	22.0	25.7	26.9
127.5°	9.8	9.8	19.5	23.2	24.4
130°	9.8	11.0	17.1	22.0	22.0
132.5°	11.0	12.2	15.9	20.8	20.8
135°	11.0	12.2	13.4	19.5	20.8
137.5°	12.2	12.2	12.2	18.3	19.5
140°	12.2	12.2	11.0	15.9	17.1
142.5°	11.0	12.2	11.0	14.7	15.9
145°	11.0	12.2	12.2	13.4	14.7
147.5°	12.2	12.2	12.2	12.2	13.4
150°	12.2	12.2	12.2	12.2	12.2
152.5°	12.2	12.2	12.2	12.2	12.2
155°	12.2	13.4	13.4	13.4	12.2
157.5°	12.2	13.4	13.4	13.4	13.4
160°	12.2	13.4	13.4	13.4	13.4
162.5°	13.4	13.4	13.4	13.4	13.4
165°	13.4	13.4	13.4	13.4	13.4
167.5°	13.4	14.7	13.4	13.4	13.4
170°	13.4	13.4	13.4	12.2	12.2
172.5°	13.4	13.4	13.4	12.2	12.2
175°	13.4	13.4	12.2	11.0	11.0
177.5°	14.7	13.4	12.2	11.0	9.8
180°	12.2	12.2	12.2	12.2	12.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	6.1	23.2	59.9	72.1	74.5
110°	7.3	19.5	50.1	61.1	63.5



(END OF REPORT)