

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: P830109

Luminaire Tested: **OHBL-24SE-MCL-UNV-L840-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830109
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-L840-CD
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

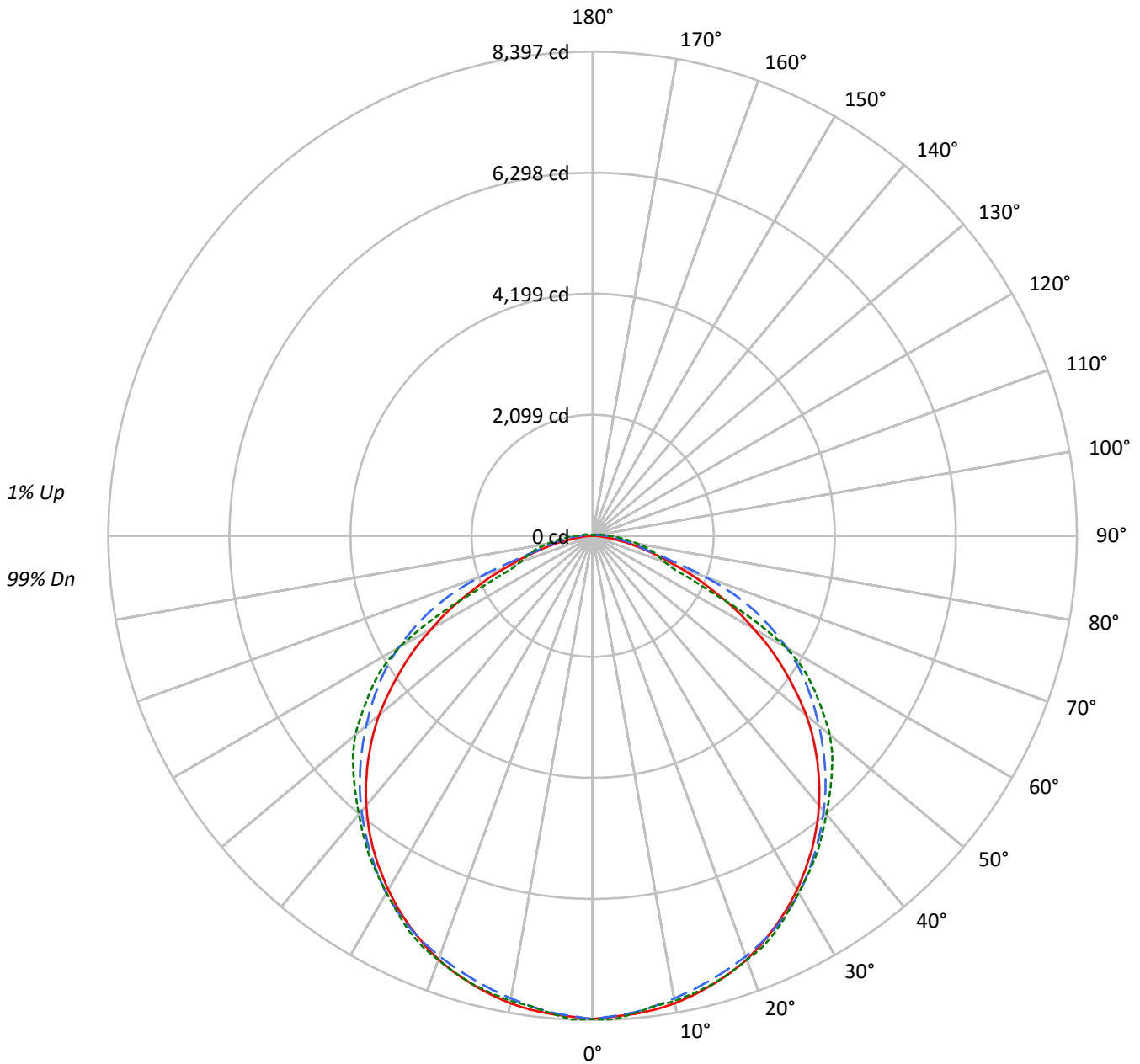
Lumens per Lamp: N/A
Luminaire Lumens: 23686.0 lumens
Efficiency: N/A
Efficacy: 171.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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°	14313	14313	14313
5°	14220	14099	14126
10°	14167	13879	13960
15°	14078	13713	13857
20°	13988	13606	13726
25°	13819	13498	13595
30°	13635	13332	13327
35°	13416	13072	13175
40°	13131	12803	12971
45°	12735	12492	12872
50°	12199	12139	12756
55°	11348	11790	12262
60°	10233	11283	11318
65°	8778	10352	7157
70°	7070	8065	5174
75°	5301	4773	5229
80°	3690	3950	4958
85°	2101	3587	4586



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	790.2	3.3
10°-20°	2265.8	9.6
20°-30°	3460.6	14.6
30°-40°	4198.9	17.7
40°-50°	4400.9	18.6
50°-60°	3987.9	16.8
60°-70°	2673.7	11.3
70°-80°	1200.6	5.1
80°-90°	435.7	1.8
90°-100°	131.1	0.6
100°-110°	61.9	0.3
110°-120°	31.0	0.1
120°-130°	17.1	0.1
130°-140°	11.8	0.0
140°-150°	7.9	0.0
150°-160°	5.9	0.0
160°-170°	3.8	0.0
170°-180°	1.2	0.0
0°-30°	6516.6	27.5
0°-40°	10715.6	45.2
0°-60°	19104.3	80.7
0°-90°	23414.3	98.9
90°-120°	224.0	0.9
90°-150°	260.8	1.1
90°-180°	272.0	1.1
0°-180°	23686.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8380	8380	8380	8380	8380	
5°	8326	8355	8296	8322	8311	792
15°	8055	8024	7967	8037	8047	2274
25°	7484	7451	7503	7572	7550	3449
35°	6633	6649	6716	6788	6761	4146
45°	5505	5594	5699	5844	5862	4241
55°	4051	4246	4535	4717	4706	3616
65°	2377	2749	3121	2634	2151	2369
75°	935	1357	998	1022	1088	1022
85°	161	309	396	479	502	197
90°	1	103	205	257	269	10
95°	1	64	141	171	176	2
105°	5	28	69	84	87	6
115°	10	14	35	45	47	9
125°	8	10	22	25	27	8
135°	11	12	13	19	21	9
145°	11	12	12	13	14	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°	8380.1	8380.1	8380.1	8380.1	<i>8380.1</i>
2.5°	<i>8346.2</i>	<i>8381.3</i>	<i>8337.7</i>	<i>8385.0</i>	<i>8397.1</i>
5°	8325.6	8354.7	8296.5	8322.0	<i>8311.1</i>
7.5°	8288.0	8297.7	8228.7	8249.3	<i>8227.5</i>
10°	8232.3	8227.5	8146.3	8186.3	<i>8191.1</i>
12.5°	8149.9	8135.4	8062.7	8123.2	<i>8124.5</i>
15°	8055.4	8023.9	7966.9	8037.2	<i>8046.9</i>
17.5°	7946.3	7905.1	7867.6	7958.5	<i>7943.9</i>
20°	7819.1	7770.6	7763.4	7862.7	<i>7826.4</i>
22.5°	7661.6	7624.0	7641.0	7735.5	<i>7712.5</i>
25°	7483.5	7450.8	7502.9	7571.9	<i>7550.1</i>
27.5°	7295.7	7276.3	7335.6	7389.0	<i>7346.5</i>
30°	7089.7	7078.8	7157.5	7201.1	<i>7147.8</i>
32.5°	6865.5	6869.1	6944.3	7003.6	<i>6954.0</i>
35°	6632.9	6648.6	6716.5	6788.0	<i>6761.3</i>
37.5°	6377.2	6412.3	6480.2	6561.4	<i>6533.5</i>
40°	6107.0	6157.9	6233.0	6331.1	<i>6305.7</i>
42.5°	5815.0	5879.2	5976.1	6085.2	<i>6082.7</i>
45°	5504.8	5594.4	5698.6	5844.0	<i>5862.2</i>
47.5°	5182.4	5283.0	5415.1	5609.0	<i>5636.8</i>
50°	4832.3	4958.3	5123.1	5355.7	<i>5372.7</i>
52.5°	4442.1	4614.2	4832.3	5055.2	<i>5034.6</i>
55°	4050.7	4245.8	4535.4	4717.2	<i>4706.2</i>
57.5°	3660.5	3879.9	4231.3	4360.9	<i>4359.7</i>
60°	3224.3	3501.8	3885.9	3984.1	<i>3887.1</i>
62.5°	2820.8	3118.9	3517.6	3446.1	<i>3114.1</i>
65°	2377.4	2749.4	3121.3	2634.2	<i>2150.8</i>
67.5°	1983.6	2371.3	2651.2	1804.2	<i>1544.9</i>
70°	1587.3	2015.1	2067.2	1338.9	<i>1320.8</i>
72.5°	1235.9	1691.5	1426.2	1146.3	<i>1204.4</i>
75°	935.4	1357.1	998.4	1021.5	<i>1088.1</i>
77.5°	682.2	1042.1	776.7	895.4	<i>950.0</i>
80°	468.9	737.9	633.7	752.5	<i>790.0</i>
82.5°	294.4	487.1	507.7	605.9	<i>644.6</i>
85°	161.2	309.0	396.2	478.6	<i>501.6</i>
87.5°	66.6	186.6	302.9	369.6	<i>389.0</i>
90°	1.2	103.0	204.8	256.9	<i>269.0</i>
92.5°	1.2	78.8	167.2	207.2	<i>215.7</i>
95°	1.2	64.2	140.6	170.8	<i>175.7</i>
97.5°	2.4	50.9	117.5	141.8	<i>146.6</i>
100°	3.6	42.4	98.1	118.7	<i>122.4</i>
102.5°	4.8	33.9	82.4	99.4	<i>103.0</i>
105°	4.8	27.9	69.1	83.6	<i>87.2</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.5	17.0	41.2	52.1	54.5
115°	9.7	14.5	35.1	44.8	47.3
117.5°	9.7	12.1	30.3	37.6	40.0
120°	9.7	10.9	26.7	32.7	33.9
122.5°	9.7	9.7	23.0	29.1	30.3
125°	8.5	9.7	21.8	25.4	26.7
127.5°	9.7	9.7	19.4	23.0	24.2
130°	9.7	10.9	17.0	21.8	21.8
132.5°	10.9	12.1	15.8	20.6	20.6
135°	10.9	12.1	13.3	19.4	20.6
137.5°	12.1	12.1	12.1	18.2	19.4
140°	12.1	12.1	10.9	15.8	17.0
142.5°	10.9	12.1	10.9	14.5	15.8
145°	10.9	12.1	12.1	13.3	14.5
147.5°	12.1	12.1	12.1	12.1	13.3
150°	12.1	12.1	12.1	12.1	12.1
152.5°	12.1	12.1	12.1	12.1	12.1
155°	12.1	13.3	13.3	13.3	12.1
157.5°	12.1	13.3	13.3	13.3	13.3
160°	12.1	13.3	13.3	13.3	13.3
162.5°	13.3	13.3	13.3	13.3	13.3
165°	13.3	13.3	13.3	13.3	13.3
167.5°	13.3	14.5	13.3	13.3	13.3
170°	13.3	13.3	13.3	12.1	12.1
172.5°	13.3	13.3	13.3	12.1	12.1
175°	13.3	13.3	12.1	10.9	10.9
177.5°	14.5	13.3	12.1	10.9	9.7
180°	12.1	12.1	12.1	12.1	12.1



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	6.1	23.0	59.4	71.5	73.9
110°	7.3	19.4	49.7	60.6	63.0



(END OF REPORT)