

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: P830096

Luminaire Tested: **OHBL-24SE-A-UNV-L835-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830096
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-A-UNV-L835-CD
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

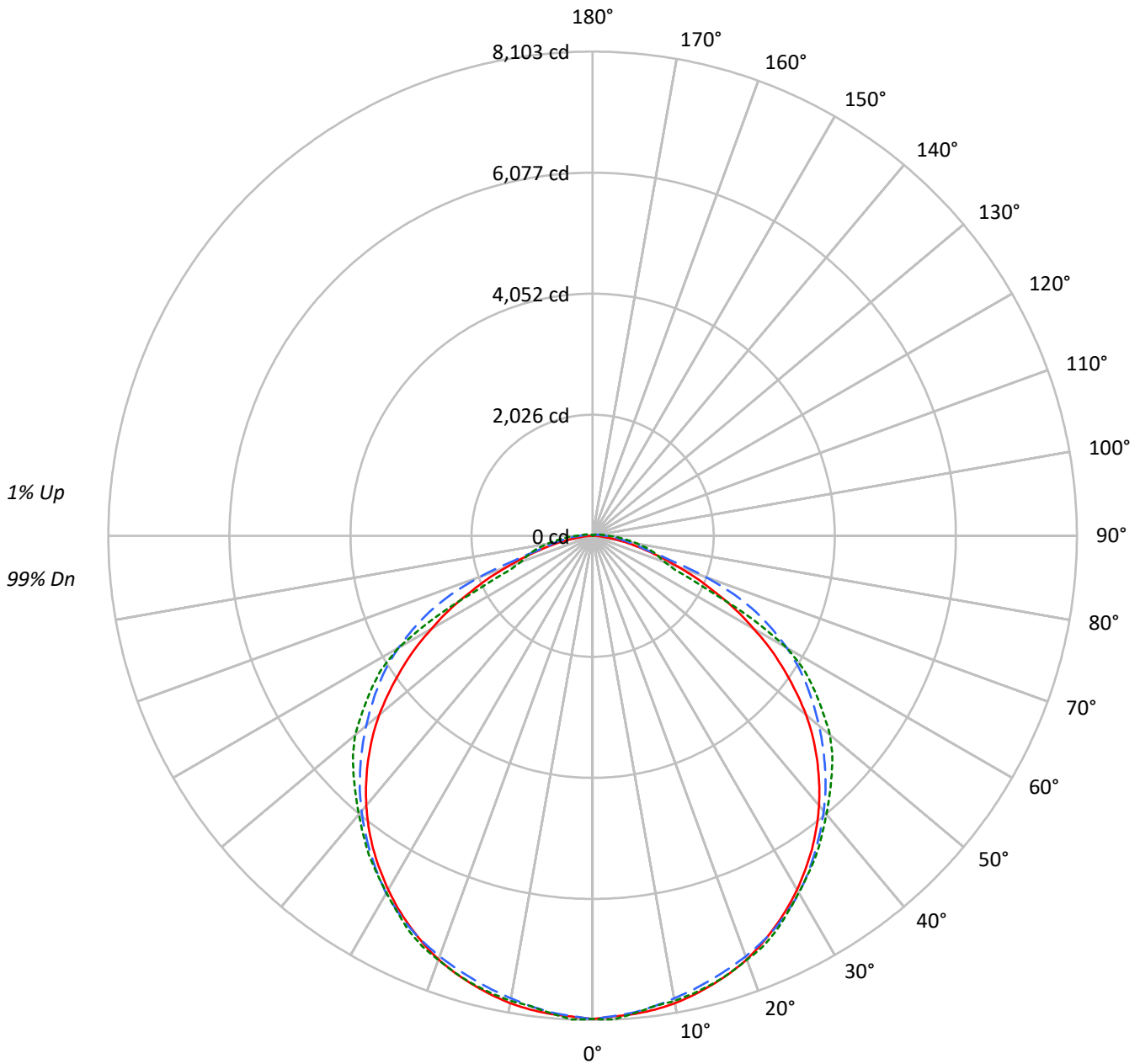
Lumens per Lamp: N/A
Luminaire Lumens: 22856.0 lumens
Efficiency: N/A
Efficacy: 165.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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°	13812	13812	13812
5°	13721	13605	13631
10°	13671	13393	13471
15°	13584	13233	13372
20°	13497	13129	13245
25°	13335	13025	13118
30°	13157	12865	12861
35°	12946	12614	12713
40°	12670	12354	12516
45°	12289	12054	12421
50°	11772	11713	12309
55°	10950	11377	11833
60°	9874	10888	10921
65°	8471	9990	6906
70°	6823	7782	4993
75°	5115	4606	5046
80°	3561	3812	4784
85°	2026	3461	4426



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	762.5	3.3
10°-20°	2186.4	9.6
20°-30°	3339.4	14.6
30°-40°	4051.8	17.7
40°-50°	4246.7	18.6
50°-60°	3848.1	16.8
60°-70°	2580.0	11.3
70°-80°	1158.6	5.1
80°-90°	420.4	1.8
90°-100°	126.5	0.6
100°-110°	59.7	0.3
110°-120°	29.9	0.1
120°-130°	16.5	0.1
130°-140°	11.4	0.0
140°-150°	7.6	0.0
150°-160°	5.7	0.0
160°-170°	3.7	0.0
170°-180°	1.2	0.0
0°-30°	6288.3	27.5
0°-40°	10340.1	45.2
0°-60°	18434.9	80.7
0°-90°	22593.8	98.9
90°-120°	216.2	0.9
90°-150°	251.7	1.1
90°-180°	262.0	1.1
0°-180°	22856.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8086	8086	8086	8086	8086	
5°	8034	8062	8006	8030	8020	764
15°	7773	7743	7688	7756	7765	2195
25°	7221	7190	7240	7307	7286	3329
35°	6400	6416	6481	6550	6524	4000
45°	5312	5398	5499	5639	5657	4092
55°	3909	4097	4376	4552	4541	3489
65°	2294	2653	3012	2542	2075	2286
75°	903	1310	964	986	1050	986
85°	156	298	382	462	484	190
90°	1	99	198	248	260	9
95°	1	62	136	165	170	2
105°	5	27	67	81	84	5
115°	9	14	34	43	46	9
125°	8	9	21	25	26	8
135°	10	12	13	19	20	8
145°	10	12	12	13	14	7
155°	12	13	13	13	12	5
165°	13	13	13	13	13	4
175°	13	13	12	10	10	1
180°	12	12	12	12	12	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8086.5	8086.5	8086.5	8086.5	<i>8086.5</i>
2.5°	<i>8053.7</i>	<i>8087.6</i>	<i>8045.5</i>	<i>8091.1</i>	<i>8102.8</i>
5°	8033.9	8061.9	8005.8	8030.3	<i>8019.8</i>
7.5°	7997.6	8007.0	7940.3	7960.2	<i>7939.1</i>
10°	7943.8	7939.1	7860.8	7899.4	<i>7904.1</i>
12.5°	7864.3	7850.3	7780.1	7838.6	<i>7839.8</i>
15°	7773.1	7742.7	7687.8	7755.6	<i>7764.9</i>
17.5°	7667.9	7628.1	7591.9	7679.6	<i>7665.5</i>
20°	7545.1	7498.3	7491.3	7587.2	<i>7552.1</i>
22.5°	7393.1	7356.9	7373.2	7464.4	<i>7442.2</i>
25°	7221.2	7189.7	7239.9	7306.6	<i>7285.5</i>
27.5°	7040.0	7021.3	7078.6	7130.0	<i>7089.1</i>
30°	6841.2	6830.7	6906.7	6948.8	<i>6897.4</i>
32.5°	6624.9	6628.4	6700.9	6758.2	<i>6710.3</i>
35°	6400.4	6415.6	6481.1	6550.1	<i>6524.4</i>
37.5°	6153.7	6187.6	6253.1	6331.4	<i>6304.5</i>
40°	5893.0	5942.1	6014.6	6109.3	<i>6084.7</i>
42.5°	5611.2	5673.2	5766.7	5871.9	<i>5869.6</i>
45°	5311.9	5398.4	5498.9	5639.3	<i>5656.8</i>
47.5°	5000.8	5097.9	5225.3	5412.4	<i>5439.3</i>
50°	4662.9	4784.5	4943.6	5168.0	<i>5184.4</i>
52.5°	4286.4	4452.5	4662.9	4878.1	<i>4858.2</i>
55°	3908.8	4097.0	4376.5	4551.9	<i>4541.3</i>
57.5°	3532.3	3743.9	4083.0	4208.1	<i>4206.9</i>
60°	3111.4	3379.1	3749.8	3844.5	<i>3750.9</i>
62.5°	2722.0	3009.6	3394.3	3325.3	<i>3004.9</i>
65°	2294.1	2653.0	3012.0	2541.9	<i>2075.4</i>
67.5°	1914.0	2288.2	2558.3	1741.0	<i>1490.8</i>
70°	1531.7	1944.4	1994.7	1292.0	<i>1274.5</i>
72.5°	1192.6	1632.3	1376.2	1106.1	<i>1162.2</i>
75°	902.7	1309.6	963.5	985.7	<i>1050.0</i>
77.5°	658.3	1005.5	749.5	864.1	<i>916.7</i>
80°	452.5	712.1	611.5	726.1	<i>762.3</i>
82.5°	284.1	470.0	489.9	584.6	<i>622.0</i>
85°	155.5	298.2	382.3	461.9	<i>484.1</i>
87.5°	64.3	180.1	292.3	356.6	<i>375.3</i>
90°	1.2	99.4	197.6	247.9	<i>259.6</i>
92.5°	1.2	76.0	161.4	199.9	<i>208.1</i>
95°	1.2	62.0	135.6	164.9	<i>169.5</i>
97.5°	2.3	49.1	113.4	136.8	<i>141.5</i>
100°	3.5	40.9	94.7	114.6	<i>118.1</i>
102.5°	4.7	32.7	79.5	95.9	<i>99.4</i>
105°	4.7	26.9	66.6	80.7	<i>84.2</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.2	16.4	39.8	50.3	52.6
115°	9.4	14.0	33.9	43.3	45.6
117.5°	9.4	11.7	29.2	36.2	38.6
120°	9.4	10.5	25.7	31.6	32.7
122.5°	9.4	9.4	22.2	28.1	29.2
125°	8.2	9.4	21.0	24.6	25.7
127.5°	9.4	9.4	18.7	22.2	23.4
130°	9.4	10.5	16.4	21.0	21.0
132.5°	10.5	11.7	15.2	19.9	19.9
135°	10.5	11.7	12.9	18.7	19.9
137.5°	11.7	11.7	11.7	17.5	18.7
140°	11.7	11.7	10.5	15.2	16.4
142.5°	10.5	11.7	10.5	14.0	15.2
145°	10.5	11.7	11.7	12.9	14.0
147.5°	11.7	11.7	11.7	11.7	12.9
150°	11.7	11.7	11.7	11.7	11.7
152.5°	11.7	11.7	11.7	11.7	11.7
155°	11.7	12.9	12.9	12.9	11.7
157.5°	11.7	12.9	12.9	12.9	12.9
160°	11.7	12.9	12.9	12.9	12.9
162.5°	12.9	12.9	12.9	12.9	12.9
165°	12.9	12.9	12.9	12.9	12.9
167.5°	12.9	14.0	12.9	12.9	12.9
170°	12.9	12.9	12.9	11.7	11.7
172.5°	12.9	12.9	12.9	11.7	11.7
175°	12.9	12.9	11.7	10.5	10.5
177.5°	14.0	12.9	11.7	10.5	9.4
180°	11.7	11.7	11.7	11.7	11.7



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	5.8	22.2	57.3	69.0	71.3
110°	7.0	18.7	47.9	58.5	60.8



(END OF REPORT)