

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: P830145

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830145
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-24SE-NL-UNV-L840-CD
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

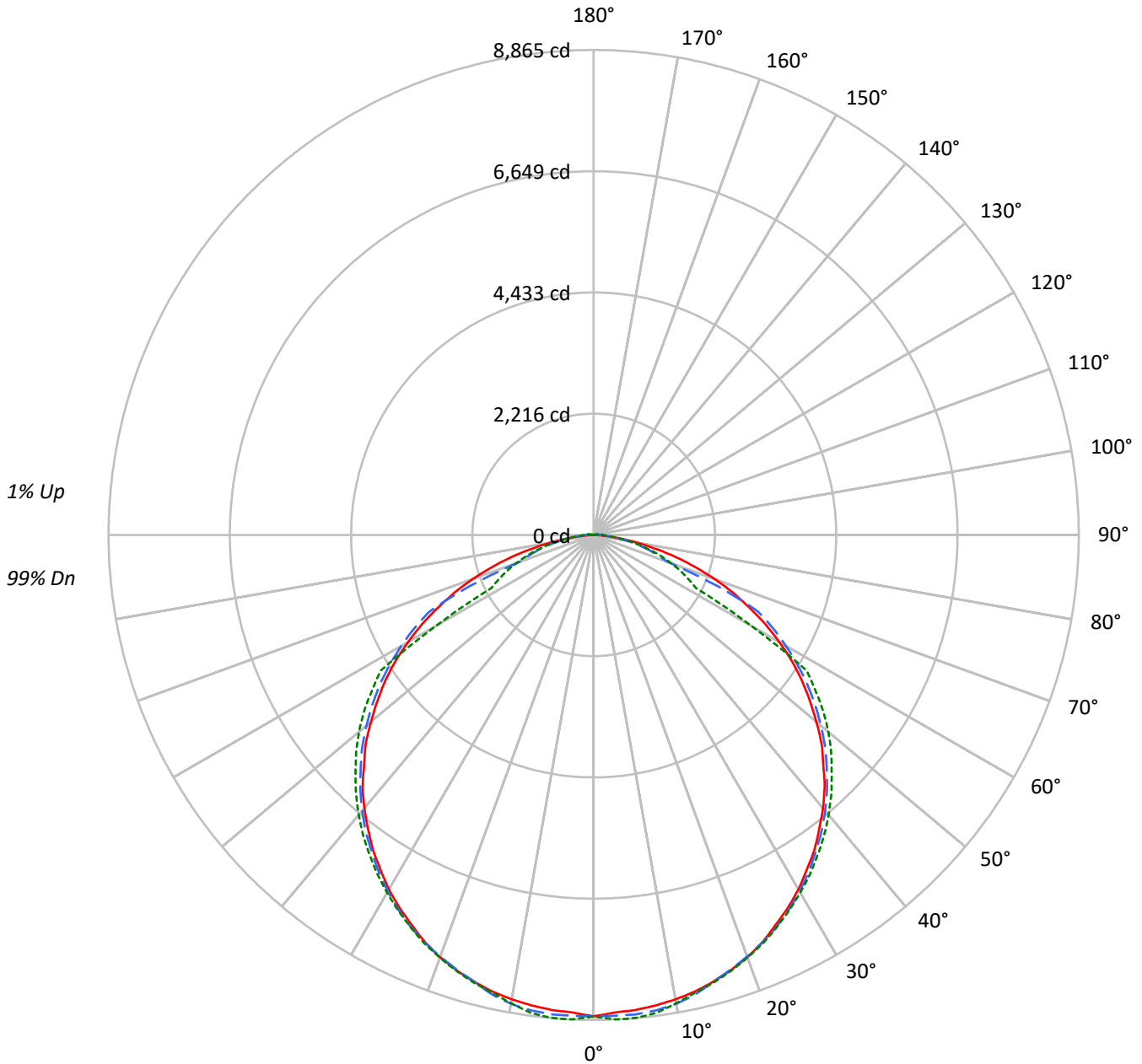
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24707.0 lumens
Efficiency: N/A
Efficacy: 179.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 138
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

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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	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°	15030	15030	15030
5°	14947	15082	15196
10°	14951	15093	15075
15°	14949	14946	14979
20°	14929	14906	14942
25°	14826	14902	14914
30°	14758	14834	14892
35°	14662	14742	14881
40°	14536	14673	14890
45°	14326	14542	14859
50°	14110	14398	14873
55°	13840	14199	14709
60°	13377	13851	11451
65°	12656	13392	7707
70°	11706	7109	7480
75°	10210	6756	7143
80°	7852	6198	6546
85°	3963	6263	6414



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	836.0	3.4
10°-20°	2393.8	9.7
20°-30°	3642.3	14.7
30°-40°	4428.6	17.9
40°-50°	4656.4	18.8
50°-60°	4251.9	17.2
60°-70°	2725.7	11.0
70°-80°	1287.6	5.2
80°-90°	357.0	1.4
90°-100°	94.6	0.4
100°-110°	25.9	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°	6872.2	27.8
0°-40°	11300.8	45.7
0°-60°	20209.1	81.8
0°-90°	24579.4	99.5
90°-120°	127.6	0.5
90°-150°	127.6	0.5
90°-180°	128.0	0.5
0°-180°	24707.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8800	8800	8800	8800	8800	
5°	8718	8752	8797	8845	8863	829
15°	8454	8517	8453	8465	8471	2387
25°	7867	7880	7907	7920	7914	3630
35°	7032	6990	7070	7157	7137	4395
45°	5931	5920	6020	6163	6152	4584
55°	4648	4612	4768	4927	4940	4145
65°	3132	3132	3314	1901	1907	3105
75°	1547	1577	1024	1078	1082	1631
85°	202	256	320	346	327	299
90°	0	86	142	168	165	9
95°	5	45	102	138	138	3
105°	8	17	25	25	23	8
115°	8	11	15	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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8800.0	8800.0	8800.0	8800.0	<i>8800.0</i>
2.5°	<i>8738.2</i>	<i>8767.6</i>	<i>8800.0</i>	<i>8841.7</i>	<i>8864.7</i>
5°	8718.1	8752.1	8796.9	8844.8	<i>8863.3</i>
7.5°	8674.9	8722.7	8766.0	8800.0	<i>8810.8</i>
10°	8620.8	8678.0	8702.7	8699.6	<i>8691.9</i>
12.5°	8548.2	8608.6	8600.9	8565.2	<i>8571.5</i>
15°	8454.1	8517.3	8452.6	8464.9	<i>8471.1</i>
17.5°	8342.9	8404.7	8329.0	8353.7	<i>8355.3</i>
20°	8213.3	8259.5	8200.8	8220.9	<i>8220.9</i>
22.5°	8057.3	8089.7	8065.0	8078.9	<i>8082.0</i>
25°	7867.3	7879.6	7907.4	7919.8	<i>7913.6</i>
27.5°	7685.2	7669.7	7723.8	7753.1	<i>7737.5</i>
30°	7482.8	7458.1	7521.4	7569.3	<i>7550.8</i>
32.5°	7251.2	7235.8	7308.4	7365.5	<i>7354.7</i>
35°	7032.0	6990.3	7070.5	7157.0	<i>7136.9</i>
37.5°	6772.5	6747.8	6838.9	6930.1	<i>6919.3</i>
40°	6519.3	6477.6	6581.1	6689.1	<i>6678.3</i>
42.5°	6247.6	6198.0	6310.8	6440.6	<i>6428.2</i>
45°	5930.9	5920.1	6020.5	6162.6	<i>6151.8</i>
47.5°	5650.1	5595.9	5736.4	5873.9	<i>5886.3</i>
50°	5310.2	5290.2	5418.4	5585.2	<i>5597.4</i>
52.5°	4978.3	4964.4	5098.6	5267.0	<i>5288.6</i>
55°	4647.8	4612.3	4768.2	4927.3	<i>4939.7</i>
57.5°	4294.3	4257.2	4416.3	4589.2	<i>4615.4</i>
60°	3915.9	3880.4	4054.8	4215.5	<i>3352.3</i>
62.5°	3537.6	3512.9	3695.2	2617.3	<i>2109.4</i>
65°	3131.5	3131.5	3313.6	1900.8	<i>1907.0</i>
67.5°	2751.7	2727.0	2470.7	1707.7	<i>1707.7</i>
70°	2344.0	2353.3	1423.6	1496.3	<i>1497.8</i>
72.5°	1934.8	1968.8	1229.2	1287.7	<i>1290.8</i>
75°	1547.2	1576.6	1023.7	1077.8	<i>1082.4</i>
77.5°	1136.5	874.0	823.0	864.8	<i>866.3</i>
80°	798.3	551.3	630.1	670.1	<i>665.5</i>
82.5°	466.2	386.0	461.7	491.1	<i>489.5</i>
85°	202.2	256.3	319.6	345.9	<i>327.3</i>
87.5°	64.7	159.1	199.1	214.7	<i>213.0</i>
90°	0.0	86.5	142.1	168.2	<i>165.3</i>
92.5°	0.0	67.8	123.6	154.5	<i>156.0</i>
95°	4.6	44.8	102.0	137.5	<i>137.5</i>
97.5°	3.1	32.4	72.6	108.1	<i>111.2</i>
100°	3.1	26.2	47.9	77.2	<i>78.8</i>
102.5°	7.7	21.6	29.3	49.4	<i>51.0</i>
105°	7.7	17.0	24.7	24.7	<i>23.2</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	9.3	12.4	17.0	12.4	1.5
115°	7.7	10.8	15.4	10.8	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	15.4	21.6	13.9	4.6
110°	9.3	13.9	18.5	12.4	1.5



(END OF REPORT)