

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: P830074

Luminaire Tested: **OHBL-24HE-NL-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830074
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-24HE-NL-UNV-L850-CD
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

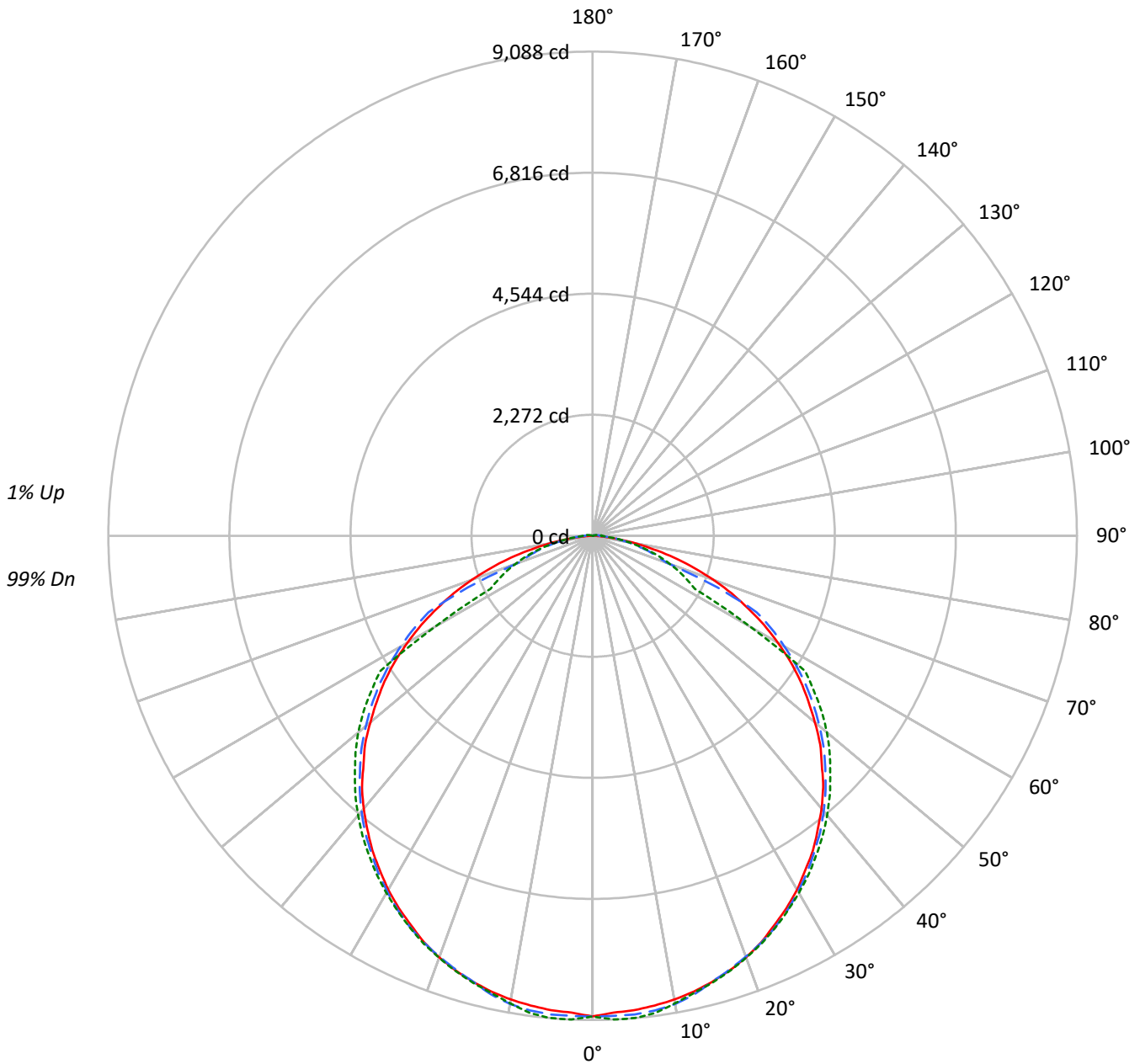
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25330.0 lumens
Efficiency: N/A
Efficacy: 190.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')
CIE Type: Direct

Input Watts (W): 133
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°	14268	14268	14268
5°	14189	14317	14425
10°	14193	14328	14310
15°	14190	14188	14219
20°	14171	14150	14184
25°	14074	14146	14157
30°	14009	14081	14136
35°	13918	13995	14126
40°	13798	13929	14135
45°	13599	13805	14106
50°	13394	13667	14119
55°	13138	13479	13963
60°	12698	13149	10871
65°	12014	12712	7316
70°	11112	6749	7100
75°	9692	6413	6781
80°	7453	5882	6214
85°	3762	5946	6088



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	857.1	3.4
10°-20°	2454.1	9.7
20°-30°	3734.2	14.7
30°-40°	4540.3	17.9
40°-50°	4773.9	18.8
50°-60°	4359.1	17.2
60°-70°	2794.4	11.0
70°-80°	1320.0	5.2
80°-90°	366.0	1.4
90°-100°	96.9	0.4
100°-110°	26.5	0.1
110°-120°	7.4	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°	7045.5	27.8
0°-40°	11585.7	45.7
0°-60°	20718.7	81.8
0°-90°	25199.2	99.5
90°-120°	130.8	0.5
90°-150°	130.8	0.5
90°-180°	131.0	0.5
0°-180°	25330.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9022	9022	9022	9022	9022	
5°	8938	8973	9019	9068	9087	850
15°	8667	8732	8666	8678	8685	2447
25°	8066	8078	8107	8120	8113	3722
35°	7209	7166	7249	7338	7317	4505
45°	6080	6069	6172	6318	6307	4700
55°	4765	4729	4888	5052	5064	4250
65°	3210	3210	3397	1949	1955	3183
75°	1586	1616	1050	1105	1110	1672
85°	207	263	328	355	336	306
90°	0	89	146	172	169	9
95°	5	46	105	141	141	3
105°	8	17	25	25	24	8
115°	8	11	16	11	2	6
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°	9021.9	9021.9	9021.9	9021.9	9021.9
2.5°	8958.5	8988.7	9021.9	9064.6	9088.3
5°	8937.9	8972.8	9018.7	9067.8	9086.8
7.5°	8893.7	8942.6	8987.0	9021.9	9033.0
10°	8838.2	8896.9	8922.2	8919.0	8911.1
12.5°	8763.8	8825.6	8817.8	8781.2	8787.6
15°	8667.2	8732.1	8665.7	8678.3	8684.7
17.5°	8553.3	8616.6	8539.0	8564.3	8566.0
20°	8420.4	8467.8	8407.6	8428.2	8428.2
22.5°	8260.5	8293.7	8268.4	8282.6	8285.8
25°	8065.7	8078.3	8106.8	8119.5	8113.2
27.5°	7879.0	7863.1	7918.6	7948.6	7932.6
30°	7671.5	7646.2	7711.1	7760.2	7741.2
32.5°	7434.0	7418.3	7492.7	7551.2	7540.1
35°	7209.3	7166.5	7248.8	7337.5	7316.9
37.5°	6943.3	6918.0	7011.3	7104.9	7093.8
40°	6683.7	6640.9	6747.0	6857.8	6846.7
42.5°	6405.1	6354.3	6470.0	6603.0	6590.3
45°	6080.5	6069.4	6172.3	6318.0	6306.9
47.5°	5792.5	5737.0	5881.0	6022.0	6034.7
50°	5444.1	5423.6	5555.0	5726.0	5738.6
52.5°	5103.8	5089.6	5227.2	5399.8	5422.0
55°	4764.9	4728.6	4888.5	5051.6	5064.3
57.5°	4402.6	4364.5	4527.6	4704.9	4731.8
60°	4014.6	3978.2	4157.1	4321.8	3436.9
62.5°	3626.8	3601.5	3788.3	2683.3	2162.6
65°	3210.4	3210.4	3397.1	1948.7	1955.1
67.5°	2821.1	2795.8	2533.0	1750.8	1750.8
70°	2403.1	2412.6	1459.5	1534.1	1535.6
72.5°	1983.6	2018.4	1260.2	1320.2	1323.4
75°	1586.2	1616.4	1049.5	1105.0	1109.7
77.5°	1165.2	896.0	843.7	886.6	888.1
80°	818.4	565.2	645.9	687.0	682.3
82.5°	478.0	395.7	473.3	503.5	501.8
85°	207.3	262.8	327.7	354.6	335.5
87.5°	66.4	163.1	204.1	220.1	218.4
90°	0.0	88.7	145.6	172.5	169.4
92.5°	0.0	69.6	126.7	158.4	159.9
95°	4.7	45.9	104.6	141.0	141.0
97.5°	3.2	33.2	74.4	110.8	114.0
100°	3.2	26.8	49.1	79.1	80.8
102.5°	7.9	22.1	30.0	50.6	52.3
105°	7.9	17.4	25.3	25.3	23.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	9.6	12.7	17.4	12.7	1.5
115°	7.9	11.1	15.8	11.1	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°	7.9	15.8	22.1	14.2	4.7
110°	9.6	14.2	18.9	12.7	1.5



(END OF REPORT)