

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: P830025

Luminaire Tested: **OHBL-24HE-A-UNV-L840-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830025
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-24HE-A-UNV-L840-CD
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

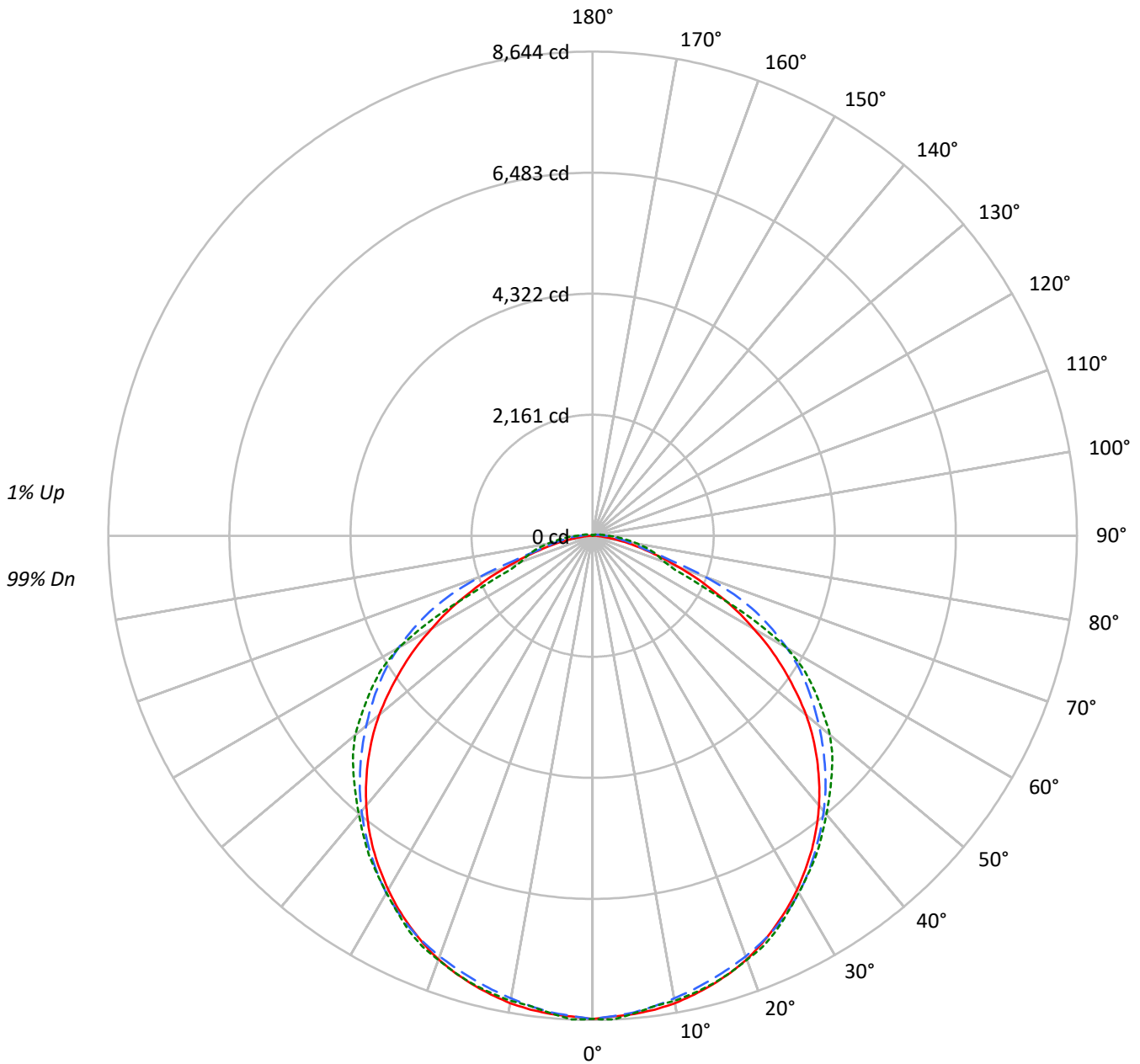
Lumens per Lamp: N/A
Luminaire Lumens: 24381.0 lumens
Efficiency: N/A
Efficacy: 183.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 133
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°	13642	13642	13642
5°	13553	13444	13472
10°	13503	13240	13322
15°	13417	13088	13233
20°	13331	12992	13116
25°	13171	12895	13000
30°	12996	12743	12754
35°	12787	12501	12618
40°	12515	12252	12434
45°	12138	11963	12352
50°	11627	11634	12254
55°	10816	11311	11797
60°	9753	10837	10906
65°	8366	9959	6912
70°	6739	7774	5011
75°	5052	4615	5086
80°	3517	3837	4856
85°	2002	3516	4552



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	813.4	3.3
10°-20°	2332.3	9.6
20°-30°	3562.2	14.6
30°-40°	4322.1	17.7
40°-50°	4530.0	18.6
50°-60°	4104.9	16.8
60°-70°	2752.2	11.3
70°-80°	1235.8	5.1
80°-90°	448.5	1.8
90°-100°	135.0	0.6
100°-110°	63.7	0.3
110°-120°	31.9	0.1
120°-130°	17.6	0.1
130°-140°	12.1	0.0
140°-150°	8.2	0.0
150°-160°	6.1	0.0
160°-170°	3.9	0.0
170°-180°	1.2	0.0
0°-30°	6707.8	27.5
0°-40°	11030.0	45.2
0°-60°	19664.9	80.7
0°-90°	24101.3	98.9
90°-120°	230.6	0.9
90°-150°	268.5	1.1
90°-180°	280.0	1.1
0°-180°	24381.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8626	8626	8626	8626	8626	
5°	8570	8600	8540	8566	8555	815
15°	8292	8259	8201	8273	8283	2341
25°	7703	7669	7723	7794	7772	3551
35°	6828	6844	6914	6987	6960	4267
45°	5666	5759	5866	6016	6034	4365
55°	4170	4370	4668	4856	4844	3722
65°	2447	2830	3213	2712	2214	2438
75°	963	1397	1028	1051	1120	1052
85°	166	318	408	493	516	202
90°	1	106	211	264	277	10
95°	1	66	145	176	181	2
105°	5	29	71	86	90	6
115°	10	15	36	46	49	9
125°	9	10	22	26	27	9
135°	11	12	14	20	21	9
145°	11	12	12	14	15	7
155°	12	14	14	14	12	6
165°	14	14	14	14	14	4
175°	14	14	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°	8626.0	8626.0	8626.0	8626.0	8626.0
2.5°	8591.1	8627.3	8582.4	8631.0	8643.5
5°	8569.9	8599.8	8540.0	8566.2	8554.9
7.5°	8531.2	8541.2	8470.1	8491.3	8468.9
10°	8473.9	8468.9	8385.3	8426.5	8431.4
12.5°	8389.0	8374.1	8299.2	8361.6	8362.8
15°	8291.8	8259.3	8200.7	8273.0	8283.0
17.5°	8179.5	8137.1	8098.4	8192.0	8177.0
20°	8048.5	7998.6	7991.2	8093.4	8056.0
22.5°	7886.4	7847.7	7865.2	7962.5	7938.8
25°	7703.0	7669.4	7723.0	7794.1	7771.6
27.5°	7509.7	7489.8	7550.9	7605.8	7562.1
30°	7297.7	7286.5	7367.5	7412.4	7357.6
32.5°	7066.9	7070.7	7148.0	7209.1	7158.0
35°	6827.5	6843.7	6913.5	6987.1	6959.7
37.5°	6564.3	6600.5	6670.3	6753.9	6725.2
40°	6286.2	6338.6	6415.9	6516.9	6490.7
42.5°	5985.6	6051.7	6151.5	6263.7	6261.2
45°	5666.3	5758.6	5865.8	6015.5	6034.2
47.5°	5334.5	5438.0	5574.0	5773.5	5802.2
50°	4974.1	5103.8	5273.4	5512.9	5530.3
52.5°	4572.4	4749.5	4974.1	5203.5	5182.3
55°	4169.6	4370.4	4668.5	4855.6	4844.3
57.5°	3768.0	3993.7	4355.4	4488.9	4487.6
60°	3318.9	3604.6	3999.9	4101.0	4001.2
62.5°	2903.6	3210.4	3620.8	3547.2	3205.4
65°	2447.1	2830.0	3212.9	2711.5	2213.9
67.5°	2041.8	2440.9	2729.0	1857.2	1590.3
70°	1633.9	2074.2	2127.8	1378.2	1359.5
72.5°	1272.2	1741.2	1468.0	1179.9	1239.8
75°	962.9	1396.9	1027.7	1051.4	1120.0
77.5°	702.2	1072.6	799.5	921.7	977.8
80°	482.7	759.6	652.3	774.5	813.2
82.5°	303.1	501.4	522.6	623.6	663.5
85°	165.9	318.1	407.9	492.7	516.4
87.5°	68.6	192.1	311.8	380.4	400.4
90°	1.2	106.0	210.8	264.4	276.9
92.5°	1.2	81.1	172.1	213.3	222.0
95°	1.2	66.1	144.7	175.9	180.9
97.5°	2.5	52.4	121.0	145.9	150.9
100°	3.7	43.7	101.0	122.2	126.0
102.5°	5.0	34.9	84.8	102.3	106.0
105°	5.0	28.7	71.1	86.1	89.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.7	17.5	42.4	53.6	56.1
115°	10.0	15.0	36.2	46.1	48.6
117.5°	10.0	12.5	31.2	38.7	41.2
120°	10.0	11.2	27.4	33.7	34.9
122.5°	10.0	10.0	23.7	29.9	31.2
125°	8.7	10.0	22.5	26.2	27.4
127.5°	10.0	10.0	20.0	23.7	24.9
130°	10.0	11.2	17.5	22.5	22.5
132.5°	11.2	12.5	16.2	21.2	21.2
135°	11.2	12.5	13.7	20.0	21.2
137.5°	12.5	12.5	12.5	18.7	20.0
140°	12.5	12.5	11.2	16.2	17.5
142.5°	11.2	12.5	11.2	15.0	16.2
145°	11.2	12.5	12.5	13.7	15.0
147.5°	12.5	12.5	12.5	12.5	13.7
150°	12.5	12.5	12.5	12.5	12.5
152.5°	12.5	12.5	12.5	12.5	12.5
155°	12.5	13.7	13.7	13.7	12.5
157.5°	12.5	13.7	13.7	13.7	13.7
160°	12.5	13.7	13.7	13.7	13.7
162.5°	13.7	13.7	13.7	13.7	13.7
165°	13.7	13.7	13.7	13.7	13.7
167.5°	13.7	15.0	13.7	13.7	13.7
170°	13.7	13.7	13.7	12.5	12.5
172.5°	13.7	13.7	13.7	12.5	12.5
175°	13.7	13.7	12.5	11.2	11.2
177.5°	15.0	13.7	12.5	11.2	10.0
180°	12.5	12.5	12.5	12.5	12.5



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	6.2	23.7	61.1	73.6	76.1
110°	7.5	20.0	51.1	62.4	64.9



(END OF REPORT)