

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: P830072

Luminaire Tested: **OHBL-24HE-NL-UNV-L835-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830072
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-L835-CD
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

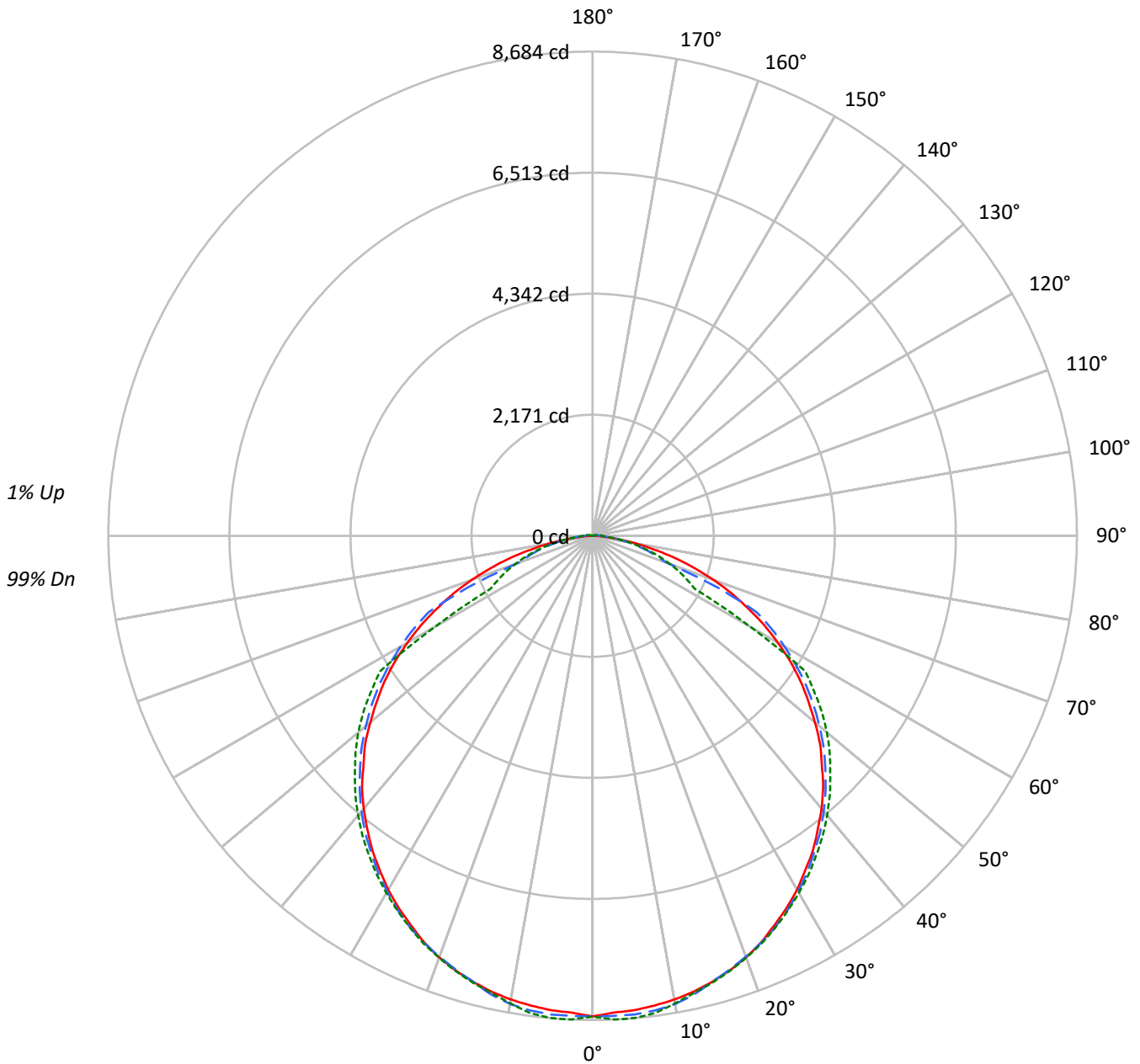
Lumens per Lamp: N/A
Luminaire Lumens: 24204.0 lumens
Efficiency: N/A
Efficacy: 182.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')
CIE Type: Direct

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°	13634	13634	13634
5°	13558	13681	13784
10°	13562	13691	13674
15°	13560	13557	13587
20°	13541	13521	13554
25°	13449	13517	13528
30°	13386	13455	13508
35°	13300	13373	13498
40°	13185	13310	13507
45°	12995	13191	13479
50°	12799	13060	13491
55°	12554	12880	13343
60°	12133	12564	10387
65°	11480	12147	6991
70°	10618	6449	6785
75°	9261	6128	6479
80°	7122	5621	5938
85°	3595	5681	5817



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	819.0	3.4
10°-20°	2345.1	9.7
20°-30°	3568.2	14.7
30°-40°	4338.4	17.9
40°-50°	4561.7	18.8
50°-60°	4165.3	17.2
60°-70°	2670.2	11.0
70°-80°	1261.4	5.2
80°-90°	349.8	1.4
90°-100°	92.6	0.4
100°-110°	25.4	0.1
110°-120°	7.0	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°	6732.3	27.8
0°-40°	11070.7	45.7
0°-60°	19797.7	81.8
0°-90°	24079.0	99.5
90°-120°	125.0	0.5
90°-150°	125.0	0.5
90°-180°	125.0	0.5
0°-180°	24204.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8621	8621	8621	8621	8621	
5°	8541	8574	8618	8665	8683	812
15°	8282	8344	8280	8292	8299	2338
25°	7707	7719	7746	7759	7752	3556
35°	6889	6848	6927	7011	6992	4305
45°	5810	5800	5898	6037	6026	4491
55°	4553	4518	4671	4827	4839	4061
65°	3068	3068	3246	1862	1868	3041
75°	1516	1544	1003	1056	1060	1598
85°	198	251	313	339	321	293
90°	0	85	139	165	162	9
95°	4	44	100	135	135	2
105°	8	17	24	24	23	8
115°	8	11	15	11	1	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°	8620.8	8620.8	8620.8	8620.8	8620.8
2.5°	8560.3	8589.1	8620.8	8661.7	8684.3
5°	8540.6	8573.9	8617.8	8664.7	8682.8
7.5°	8498.3	8545.1	8587.5	8620.8	8631.4
10°	8445.3	8501.4	8525.6	8522.5	8515.0
12.5°	8374.2	8433.3	8425.8	8390.9	8396.9
15°	8282.0	8343.9	8280.5	8292.5	8298.6
17.5°	8173.1	8233.6	8159.4	8183.6	8185.2
20°	8046.1	8091.4	8033.9	8053.6	8053.6
22.5°	7893.3	7925.0	7900.8	7914.4	7917.5
25°	7707.2	7719.2	7746.4	7758.6	7752.5
27.5°	7528.8	7513.5	7566.6	7595.2	7580.0
30°	7330.5	7306.3	7368.3	7415.2	7397.1
32.5°	7103.6	7088.5	7159.6	7215.5	7204.9
35°	6888.8	6848.0	6926.6	7011.3	6991.6
37.5°	6634.6	6610.4	6699.7	6789.0	6778.4
40°	6386.6	6345.7	6447.1	6553.0	6542.4
42.5°	6120.4	6071.9	6182.4	6309.5	6297.4
45°	5810.2	5799.6	5897.9	6037.1	6026.5
47.5°	5535.0	5482.0	5619.6	5754.3	5766.4
50°	5202.1	5182.5	5308.1	5471.4	5483.5
52.5°	4877.0	4863.3	4994.8	5159.8	5180.9
55°	4553.1	4518.4	4671.2	4827.0	4839.2
57.5°	4206.9	4170.5	4326.4	4495.8	4521.4
60°	3836.1	3801.4	3972.3	4129.7	3284.1
62.5°	3465.5	3441.4	3619.9	2564.0	2066.4
65°	3067.7	3067.7	3246.1	1862.1	1868.2
67.5°	2695.7	2671.5	2420.4	1673.0	1673.0
70°	2296.3	2305.4	1394.6	1465.9	1467.3
72.5°	1895.4	1928.7	1204.2	1261.5	1264.6
75°	1515.7	1544.5	1002.9	1055.9	1060.4
77.5°	1113.4	856.2	806.2	847.2	848.6
80°	782.0	540.0	617.2	656.5	652.0
82.5°	456.8	378.1	452.3	481.1	479.5
85°	198.1	251.1	313.1	338.9	320.6
87.5°	63.4	155.8	195.1	210.3	208.7
90°	0.0	84.7	139.2	164.8	161.9
92.5°	0.0	66.5	121.1	151.3	152.8
95°	4.5	43.9	99.9	134.7	134.7
97.5°	3.0	31.7	71.1	105.9	108.9
100°	3.0	25.6	46.9	75.6	77.2
102.5°	7.5	21.1	28.7	48.4	50.0
105°	7.5	16.7	24.2	24.2	22.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	9.1	12.2	16.7	12.2	1.4
115°	7.5	10.6	15.1	10.6	1.4
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°	7.5	15.1	21.1	13.6	4.5
110°	9.1	13.6	18.1	12.2	1.4



(END OF REPORT)