

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: P830068

Luminaire Tested: **OHBL-24HE-NL-UNV-L735-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830068
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-L735-CD
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

Summary

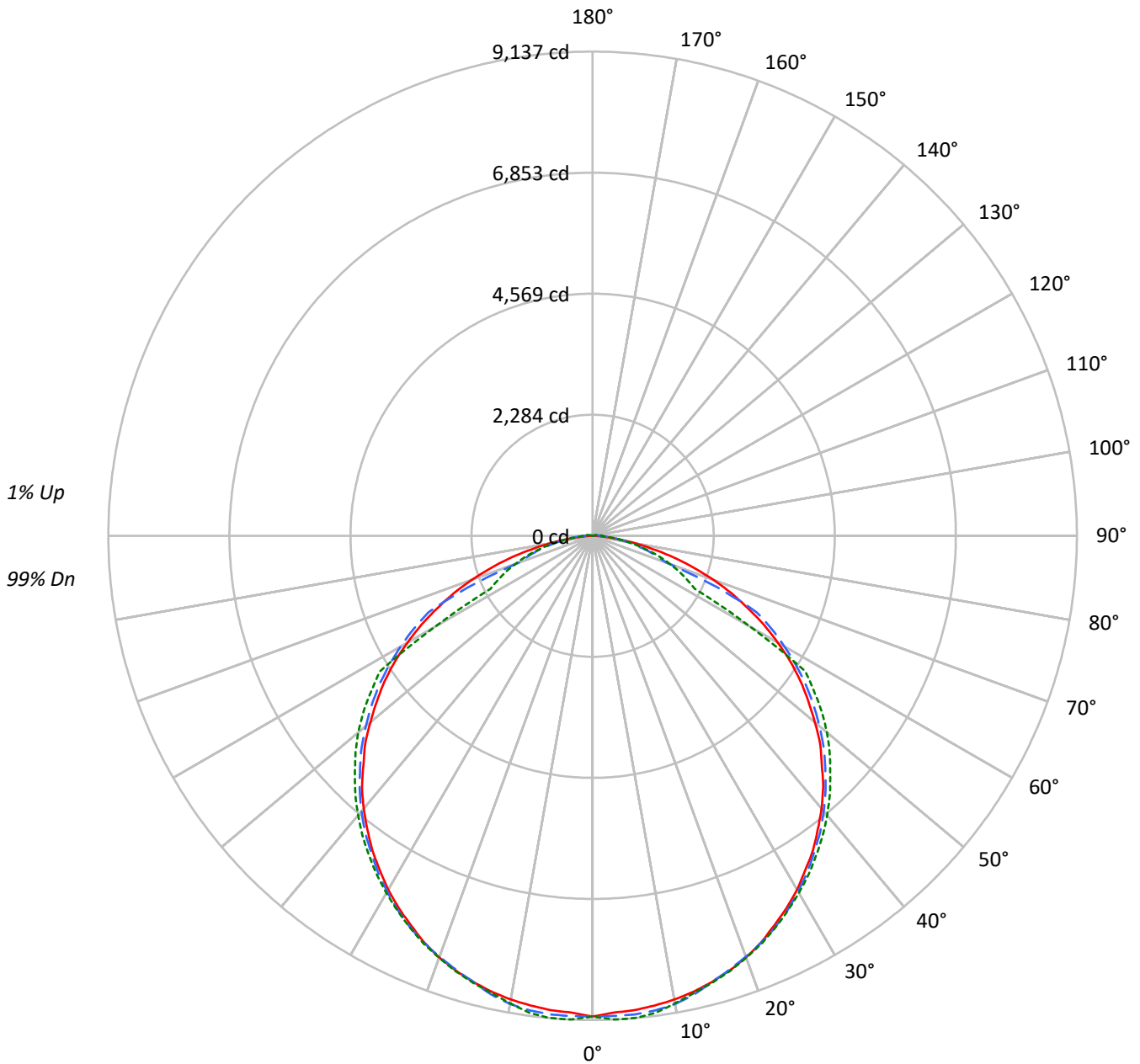
Lumens per Lamp: N/A
Luminaire Lumens: 25467.0 lumens
Efficiency: N/A
Efficacy: 191.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.8' x L: 3.78' x H: 0')
CIE Type: Direct

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				20				20	
RC	80				70				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				99
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86	84				84
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73	71				71
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62	60				60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51				51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44				44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39				39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34				34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30				30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27				27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25				25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	14345	14345	14345
5°	14266	14395	14503
10°	14270	14405	14387
15°	14267	14265	14296
20°	14248	14226	14261
25°	14150	14223	14234
30°	14085	14158	14213
35°	13994	14070	14202
40°	13873	14004	14211
45°	13673	13879	14182
50°	13467	13741	14195
55°	13209	13551	14039
60°	12767	13220	10930
65°	12079	12781	7356
70°	11172	6785	7139
75°	9745	6448	6817
80°	7494	5914	6248
85°	3781	5977	6122



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	861.7	3.4
10°-20°	2467.4	9.7
20°-30°	3754.4	14.7
30°-40°	4564.8	17.9
40°-50°	4799.7	18.8
50°-60°	4382.7	17.2
60°-70°	2809.5	11.0
70°-80°	1327.2	5.2
80°-90°	368.0	1.4
90°-100°	97.5	0.4
100°-110°	26.7	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°	7083.6	27.8
0°-40°	11648.4	45.7
0°-60°	20830.8	81.8
0°-90°	25335.5	99.5
90°-120°	131.5	0.5
90°-150°	131.5	0.5
90°-180°	132.0	0.5
0°-180°	25467.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9071	9071	9071	9071	9071	
5°	8986	9021	9068	9117	9136	855
15°	8714	8779	8713	8725	8732	2460
25°	8109	8122	8151	8163	8157	3742
35°	7248	7205	7288	7377	7356	4530
45°	6113	6102	6206	6352	6341	4725
55°	4791	4754	4915	5079	5092	4272
65°	3228	3228	3416	1959	1966	3200
75°	1595	1625	1055	1111	1116	1681
85°	208	264	329	357	337	308
90°	0	89	146	173	170	9
95°	5	46	105	142	142	3
105°	8	18	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°	9070.7	9070.7	9070.7	9070.7	9070.7
2.5°	9007.0	9037.3	9070.7	9113.7	9137.4
5°	8986.3	9021.3	9067.5	9116.9	9135.9
7.5°	8941.8	8991.0	9035.6	9070.7	9081.8
10°	8886.0	8945.0	8970.4	8967.2	8959.3
12.5°	8811.2	8873.4	8865.4	8828.7	8835.1
15°	8714.1	8779.3	8712.6	8725.2	8731.6
17.5°	8599.5	8663.2	8585.2	8610.7	8612.3
20°	8465.9	8513.6	8453.1	8473.8	8473.8
22.5°	8305.2	8338.5	8313.1	8327.4	8330.6
25°	8109.3	8122.0	8150.6	8163.4	8157.0
27.5°	7921.6	7905.6	7961.4	7991.6	7975.5
30°	7713.0	7687.6	7752.8	7802.2	7783.1
32.5°	7474.2	7458.4	7533.2	7592.0	7580.9
35°	7248.3	7205.3	7288.0	7377.2	7356.4
37.5°	6980.8	6955.4	7049.3	7143.3	7132.2
40°	6719.8	6676.8	6783.5	6894.9	6883.8
42.5°	6439.8	6388.7	6505.0	6638.8	6626.0
45°	6113.4	6102.2	6205.7	6352.1	6341.0
47.5°	5823.9	5768.1	5912.8	6054.5	6067.3
50°	5473.5	5453.0	5585.1	5757.0	5769.6
52.5°	5131.4	5117.1	5255.5	5429.0	5451.3
55°	4790.7	4754.2	4914.9	5078.9	5091.7
57.5°	4426.4	4388.2	4552.1	4730.4	4757.4
60°	4036.3	3999.7	4179.5	4345.2	3455.5
62.5°	3646.4	3620.9	3808.8	2697.8	2174.3
65°	3227.8	3227.8	3415.5	1959.3	1965.7
67.5°	2836.3	2810.9	2546.7	1760.2	1760.2
70°	2416.1	2425.7	1467.4	1542.4	1543.9
72.5°	1994.3	2029.4	1267.0	1327.3	1330.5
75°	1594.8	1625.1	1055.2	1111.0	1115.7
77.5°	1171.5	900.9	848.3	891.4	892.9
80°	822.8	568.2	649.4	690.7	686.0
82.5°	480.6	397.9	475.9	506.2	504.5
85°	208.4	264.2	329.4	356.6	337.4
87.5°	66.7	164.0	205.2	221.3	219.6
90°	0.0	89.1	146.4	173.4	170.4
92.5°	0.0	69.9	127.4	159.2	160.8
95°	4.7	46.2	105.1	141.7	141.7
97.5°	3.2	33.4	74.8	111.4	114.6
100°	3.2	27.0	49.4	79.5	81.2
102.5°	7.9	22.2	30.2	50.9	52.6
105°	7.9	17.5	25.4	25.4	23.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	9.6	12.8	17.5	12.8	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	22.2	14.3	4.7
110°	9.6	14.3	19.0	12.8	1.5



(END OF REPORT)