

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: P830048

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830048
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-24HE-MFL-UNV-L835-CD
Description: 24000 LUMEN OHBL HE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

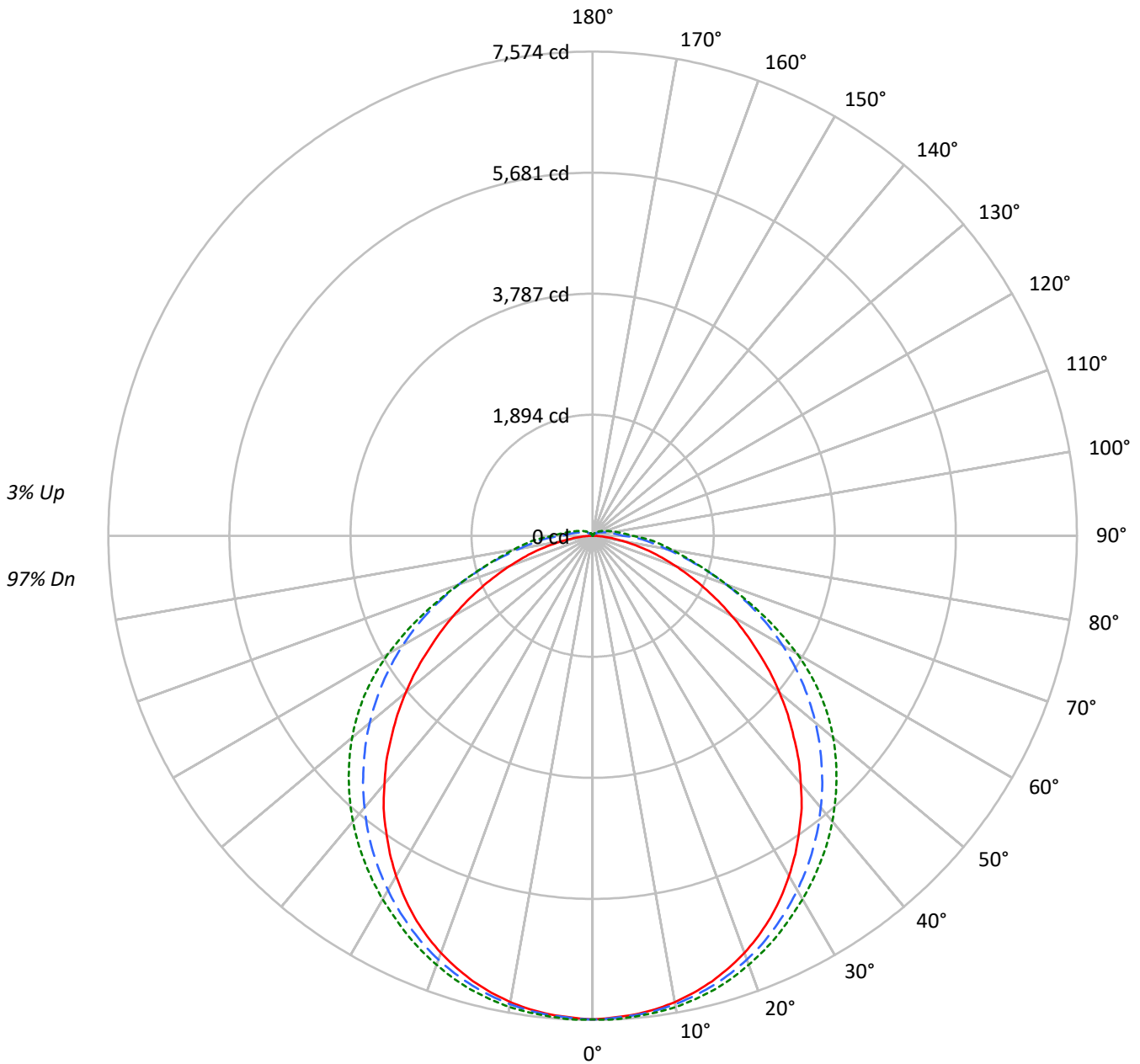
Lumens per Lamp: N/A
Luminaire Lumens: 22646.0 lumens
Efficiency: N/A
Efficacy: 170.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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				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	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	86	84	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	75	72	68	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	67	62	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	59	54	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	53	48	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	48	43	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	44	38	34	32
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	41	35	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	37	32	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	35	29	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	11967	11967	11967
5°	11890	11853	11890
10°	11807	11749	11827
15°	11675	11624	11746
20°	11500	11471	11626
25°	11266	11280	11505
30°	10942	11073	11383
35°	10550	10853	11278
40°	10080	10598	11175
45°	9524	10322	11042
50°	8917	10042	10882
55°	8171	9700	10611
60°	7406	9297	10070
65°	6572	8782	9181
70°	5667	8126	8219
75°	4752	7368	7568
80°	3602	6820	7508
85°	2279	7088	8391



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	717.0	3.2
10°-20°	2056.9	9.1
20°-30°	3110.8	13.7
30°-40°	3734.5	16.5
40°-50°	3857.1	17.0
50°-60°	3470.2	15.3
60°-70°	2614.1	11.5
70°-80°	1578.5	7.0
80°-90°	772.0	3.4
90°-100°	325.0	1.4
100°-110°	185.5	0.8
110°-120°	108.9	0.5
120°-130°	61.6	0.3
130°-140°	32.4	0.1
140°-150°	15.8	0.1
150°-160°	5.9	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5884.7	26.0
0°-40°	9619.2	42.5
0°-60°	16946.5	74.8
0°-90°	21911.0	96.8
90°-120°	619.3	2.7
90°-150°	729.1	3.2
90°-180°	735.0	3.2
0°-180°	22646.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7567	7567	7567	7567	7567	
5°	7519	7539	7530	7559	7550	714
15°	7215	7250	7283	7344	7352	2034
25°	6589	6661	6756	6861	6878	3031
35°	5633	5765	6002	6183	6220	3522
45°	4446	4670	5061	5337	5394	3433
55°	3150	3476	4004	4306	4358	2824
65°	1922	2315	2833	2974	2941	1910
75°	906	1300	1641	1683	1667	966
85°	189	498	822	935	952	218
90°	0	194	470	593	617	12
95°	9	132	352	448	465	8
105°	13	76	204	267	278	13
115°	15	43	126	168	176	15
125°	15	20	76	109	115	13
135°	13	17	39	67	74	10
145°	18	17	18	33	39	11
155°	18	20	18	17	18	6
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7566.7	7566.7	7566.7	7566.7	7566.7
2.5°	7544.5	7563.0	7551.9	7576.0	7574.2
5°	7518.6	7539.0	7529.7	7559.3	7550.1
7.5°	7474.2	7496.4	7494.5	7527.9	7524.2
10°	7409.3	7433.4	7440.8	7485.3	7485.3
12.5°	7320.5	7351.9	7370.5	7424.2	7426.0
15°	7214.9	7250.1	7283.4	7344.5	7351.9
17.5°	7087.1	7131.6	7177.9	7248.2	7257.5
20°	6942.7	6992.7	7055.6	7129.7	7140.8
22.5°	6776.0	6835.3	6916.7	7003.8	7016.7
25°	6589.0	6661.2	6755.6	6861.2	6877.9
27.5°	6376.0	6459.3	6587.1	6705.6	6720.4
30°	6144.5	6242.7	6401.9	6542.7	6566.7
32.5°	5900.1	6013.0	6209.3	6366.7	6400.1
35°	5633.4	5764.9	6001.9	6183.4	6220.4
37.5°	5370.4	5514.9	5783.4	5990.8	6035.3
40°	5063.0	5242.6	5550.1	5779.7	5833.4
42.5°	4774.1	4968.6	5316.7	5566.7	5618.6
45°	4446.3	4670.4	5061.2	5337.1	5394.5
47.5°	4138.9	4381.5	4814.9	5100.1	5159.3
50°	3814.9	4081.5	4551.9	4850.1	4911.2
52.5°	3490.8	3777.8	4279.7	4588.9	4646.3
55°	3150.0	3476.0	4003.7	4305.6	4357.5
57.5°	2833.4	3177.8	3720.4	4007.5	4038.9
60°	2520.4	2877.8	3431.5	3683.4	3694.5
62.5°	2214.8	2590.8	3135.2	3335.2	3320.4
65°	1922.2	2314.8	2833.4	2974.1	2940.8
67.5°	1640.8	2046.3	2524.1	2614.8	2570.4
70°	1374.1	1785.2	2224.1	2270.4	2229.7
72.5°	1138.9	1537.1	1920.4	1959.3	1929.7
75°	905.6	1300.0	1640.8	1683.4	1666.7
77.5°	687.0	1070.4	1383.3	1438.9	1442.6
80°	494.4	861.1	1159.3	1246.3	1257.4
82.5°	325.9	668.5	972.2	1083.3	1100.0
85°	188.9	498.2	822.2	935.2	951.9
87.5°	81.5	359.3	661.1	763.0	783.3
90°	0.0	194.4	470.4	592.6	616.7
92.5°	5.6	161.1	403.7	514.8	535.2
95°	9.3	131.5	351.9	448.2	464.8
97.5°	11.1	111.1	305.6	390.7	407.4
100°	11.1	96.3	264.8	342.6	357.4
102.5°	11.1	85.2	231.5	300.0	313.0
105°	13.0	75.9	203.7	266.7	277.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	14.8	50.0	140.7	188.9	196.3
115°	14.8	42.6	125.9	168.5	175.9
117.5°	16.7	37.0	111.1	151.9	157.4
120°	16.7	31.5	98.1	135.2	142.6
122.5°	16.7	25.9	87.0	122.2	127.8
125°	14.8	20.4	75.9	109.3	114.8
127.5°	13.0	16.7	64.8	98.1	103.7
130°	13.0	14.8	55.6	87.0	92.6
132.5°	13.0	16.7	46.3	75.9	83.3
135°	13.0	16.7	38.9	66.7	74.1
137.5°	13.0	16.7	31.5	57.4	64.8
140°	14.8	16.7	25.9	48.1	55.6
142.5°	16.7	16.7	20.4	40.7	46.3
145°	18.5	16.7	18.5	33.3	38.9
147.5°	18.5	18.5	18.5	25.9	31.5
150°	18.5	20.4	18.5	20.4	25.9
152.5°	18.5	20.4	18.5	16.7	20.4
155°	18.5	20.4	18.5	16.7	18.5
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°	13.0	66.7	179.6	237.0	246.3
110°	13.0	59.3	159.3	211.1	220.4



(END OF REPORT)