

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: P830108

Luminaire Tested: **OHBL-24SE-MCL-UNV-L835-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830108
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-24SE-MCL-UNV-L835-CD
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

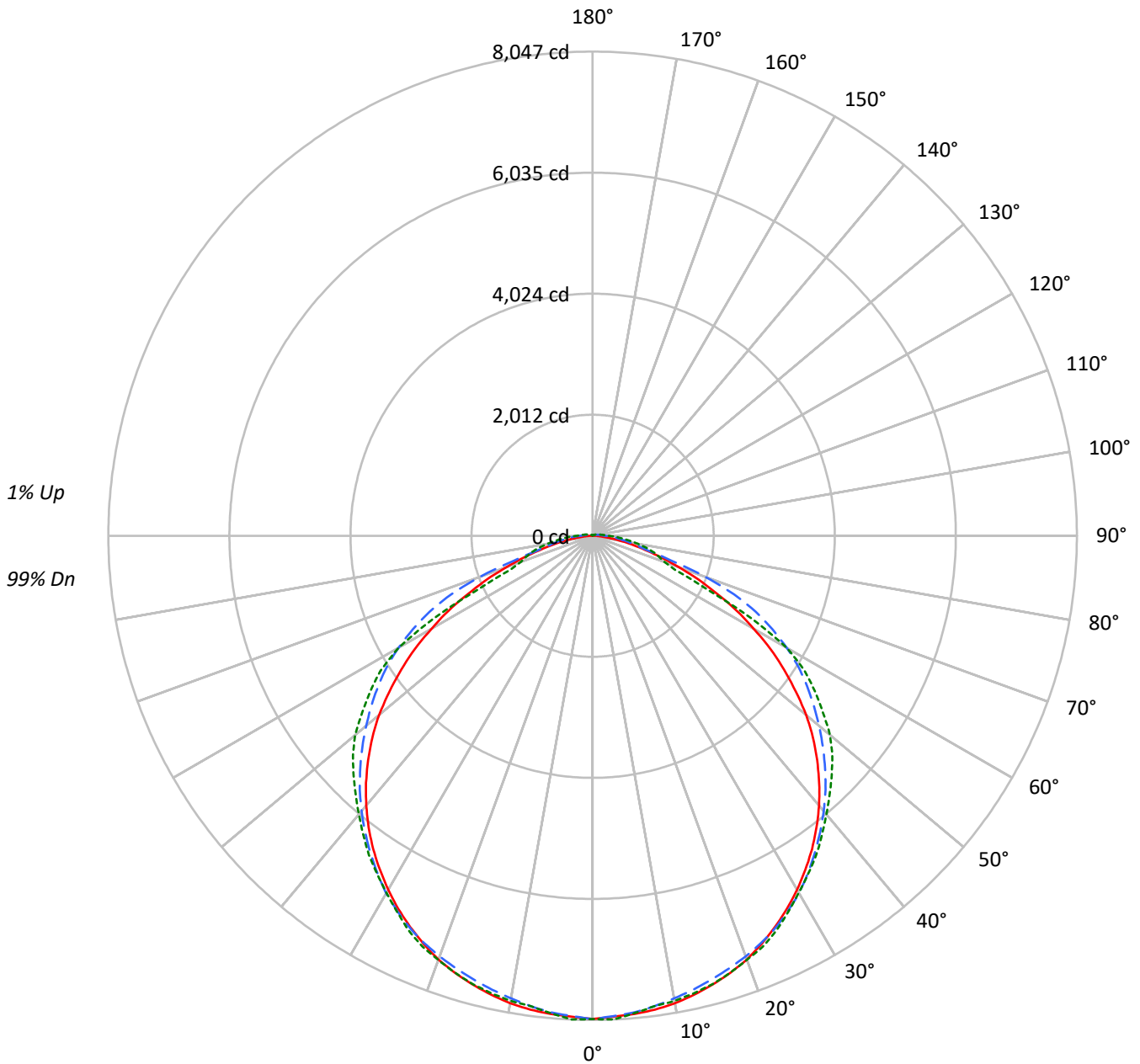
Lumens per Lamp: N/A
Luminaire Lumens: 22699.0 lumens
Efficiency: N/A
Efficacy: 164.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 138
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°	13717	13717	13717
5°	13627	13511	13537
10°	13577	13301	13378
15°	13491	13142	13280
20°	13405	13039	13154
25°	13243	12936	13028
30°	13067	12776	12772
35°	12857	12527	12626
40°	12583	12269	12430
45°	12204	11971	12336
50°	11691	11633	12224
55°	10875	11298	11752
60°	9807	10813	10846
65°	8412	9921	6859
70°	6776	7729	4958
75°	5080	4574	5011
80°	3536	3786	4752
85°	2012	3437	4395



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	757.2	3.3
10°-20°	2171.4	9.6
20°-30°	3316.4	14.6
30°-40°	4024.0	17.7
40°-50°	4217.5	18.6
50°-60°	3821.7	16.8
60°-70°	2562.3	11.3
70°-80°	1150.6	5.1
80°-90°	417.5	1.8
90°-100°	125.7	0.6
100°-110°	59.3	0.3
110°-120°	29.7	0.1
120°-130°	16.4	0.1
130°-140°	11.3	0.0
140°-150°	7.6	0.0
150°-160°	5.6	0.0
160°-170°	3.6	0.0
170°-180°	1.2	0.0
0°-30°	6245.1	27.5
0°-40°	10269.1	45.2
0°-60°	18308.2	80.7
0°-90°	22438.6	98.9
90°-120°	214.7	0.9
90°-150°	250.0	1.1
90°-180°	260.0	1.1
0°-180°	22699.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	8031	8031	8031	8031	8031	
5°	7979	8006	7951	7975	7965	759
15°	7720	7690	7635	7702	7712	2180
25°	7172	7140	7190	7256	7236	3306
35°	6356	6372	6437	6505	6480	3973
45°	5275	5361	5461	5600	5618	4064
55°	3882	4069	4346	4521	4510	3465
65°	2278	2635	2991	2524	2061	2270
75°	896	1301	957	979	1043	980
85°	154	296	380	459	481	188
90°	1	99	196	246	258	9
95°	1	62	135	164	168	2
105°	5	27	66	80	84	5
115°	9	14	34	43	45	9
125°	8	9	21	24	26	8
135°	10	12	13	19	20	8
145°	10	12	12	13	14	7
155°	12	13	13	13	12	5
165°	13	13	13	13	13	4
175°	13	13	12	10	10	1
180°	12	12	12	12	12	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	8030.9	8030.9	8030.9	8030.9	8030.9
2.5°	7998.4	8032.1	7990.3	8035.6	8047.2
5°	7978.7	8006.5	7950.8	7975.2	7964.7
7.5°	7942.7	7952.0	7885.8	7905.5	7884.6
10°	7889.3	7884.6	7806.8	7845.1	7849.8
12.5°	7810.3	7796.4	7726.7	7784.7	7785.9
15°	7719.7	7689.5	7635.0	7702.3	7711.6
17.5°	7615.2	7575.7	7539.7	7626.8	7612.9
20°	7493.3	7446.8	7439.9	7535.1	7500.3
22.5°	7342.3	7306.3	7322.6	7413.2	7391.1
25°	7171.6	7140.3	7190.2	7256.4	7235.5
27.5°	6991.6	6973.1	7030.0	7081.1	7040.4
30°	6794.2	6783.8	6859.3	6901.1	6850.0
32.5°	6579.4	6582.9	6654.9	6711.8	6664.2
35°	6356.5	6371.6	6436.6	6505.1	6479.5
37.5°	6111.4	6145.1	6210.1	6287.9	6261.2
40°	5852.5	5901.3	5973.3	6067.3	6042.9
42.5°	5572.6	5634.2	5727.1	5831.6	5829.3
45°	5275.4	5361.3	5461.2	5600.5	5617.9
47.5°	4966.5	5062.9	5189.4	5375.2	5401.9
50°	4630.9	4751.7	4909.6	5132.5	5148.8
52.5°	4257.0	4421.9	4630.9	4844.6	4824.8
55°	3881.9	4068.9	4346.4	4520.6	4510.1
57.5°	3508.0	3718.2	4054.9	4179.2	4178.0
60°	3090.0	3355.9	3724.0	3818.1	3725.2
62.5°	2703.3	2989.0	3371.0	3302.5	2984.3
65°	2278.3	2634.8	2991.3	2524.5	2061.1
67.5°	1900.9	2272.5	2540.7	1729.0	1480.5
70°	1521.2	1931.1	1981.0	1283.1	1265.7
72.5°	1184.4	1621.0	1366.7	1098.5	1154.2
75°	896.5	1300.6	956.8	978.9	1042.8
77.5°	653.8	998.6	744.3	858.1	910.4
80°	449.4	707.2	607.3	721.1	757.1
82.5°	282.2	466.8	486.5	580.6	617.8
85°	154.4	296.1	379.7	458.7	480.7
87.5°	63.9	178.8	290.3	354.2	372.7
90°	1.2	98.7	196.2	246.2	257.8
92.5°	1.2	75.5	160.2	198.6	206.7
95°	1.2	61.5	134.7	163.7	168.4
97.5°	2.3	48.8	112.6	135.9	140.5
100°	3.5	40.6	94.1	113.8	117.3
102.5°	4.6	32.5	79.0	95.2	98.7
105°	4.6	26.7	66.2	80.1	83.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	8.1	16.3	39.5	49.9	52.3
115°	9.3	13.9	33.7	43.0	45.3
117.5°	9.3	11.6	29.0	36.0	38.3
120°	9.3	10.5	25.5	31.4	32.5
122.5°	9.3	9.3	22.1	27.9	29.0
125°	8.1	9.3	20.9	24.4	25.5
127.5°	9.3	9.3	18.6	22.1	23.2
130°	9.3	10.5	16.3	20.9	20.9
132.5°	10.5	11.6	15.1	19.7	19.7
135°	10.5	11.6	12.8	18.6	19.7
137.5°	11.6	11.6	11.6	17.4	18.6
140°	11.6	11.6	10.5	15.1	16.3
142.5°	10.5	11.6	10.5	13.9	15.1
145°	10.5	11.6	11.6	12.8	13.9
147.5°	11.6	11.6	11.6	11.6	12.8
150°	11.6	11.6	11.6	11.6	11.6
152.5°	11.6	11.6	11.6	11.6	11.6
155°	11.6	12.8	12.8	12.8	11.6
157.5°	11.6	12.8	12.8	12.8	12.8
160°	11.6	12.8	12.8	12.8	12.8
162.5°	12.8	12.8	12.8	12.8	12.8
165°	12.8	12.8	12.8	12.8	12.8
167.5°	12.8	13.9	12.8	12.8	12.8
170°	12.8	12.8	12.8	11.6	11.6
172.5°	12.8	12.8	12.8	11.6	11.6
175°	12.8	12.8	11.6	10.5	10.5
177.5°	13.9	12.8	11.6	10.5	9.3
180°	11.6	11.6	11.6	11.6	11.6



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	5.8	22.1	56.9	68.5	70.8
110°	7.0	18.6	47.6	58.1	60.4



(END OF REPORT)