

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: P830116

Luminaire Tested: **OHBL-24SE-MFL-UNV-L735-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830116
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-24SE-MFL-UNV-L735-CD
Description: 24000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

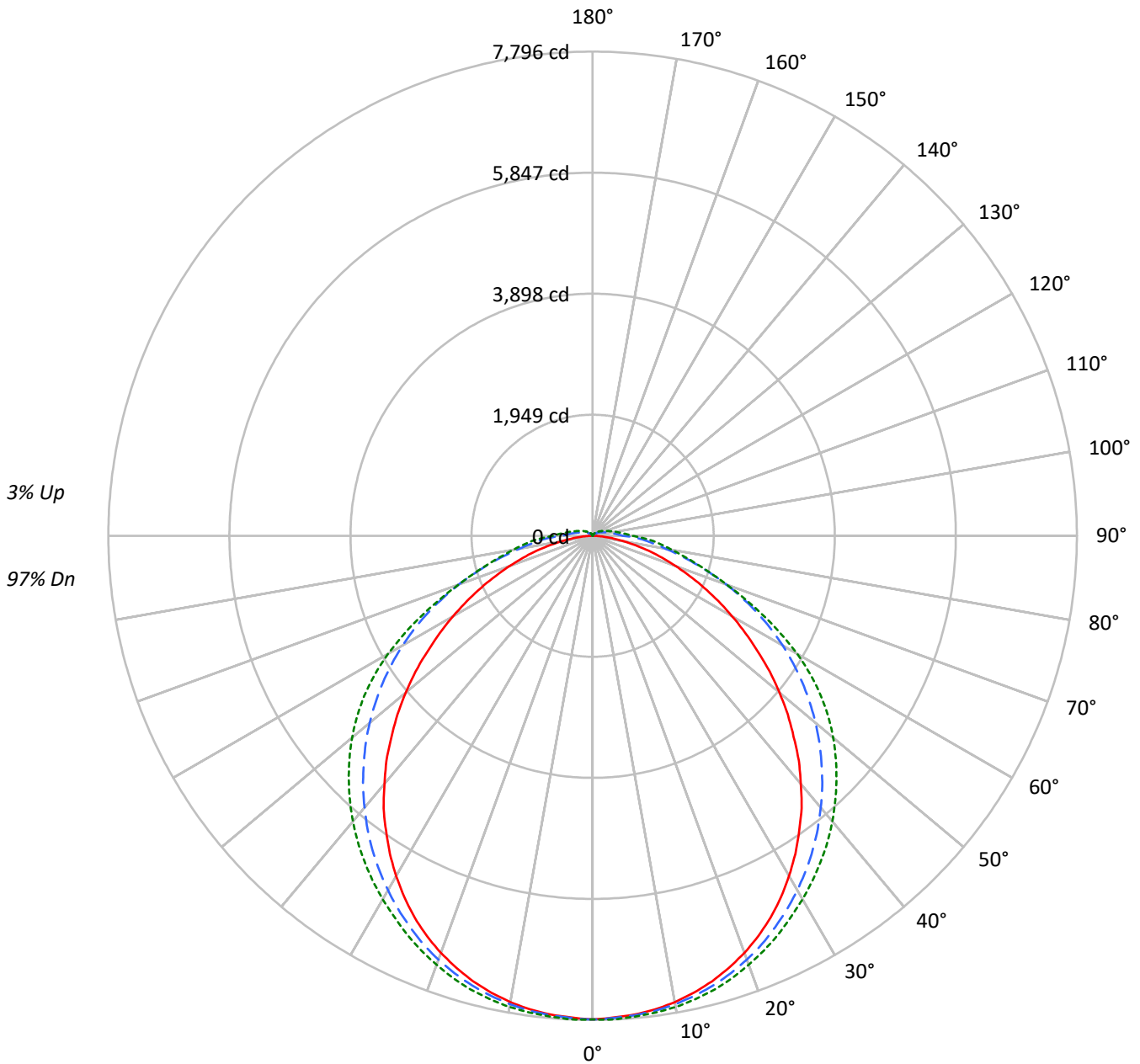
Lumens per Lamp: N/A
Luminaire Lumens: 23309.0 lumens
Efficiency: N/A
Efficacy: 168.9 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

TEST NUMBER: P830116

CATALOG NUMBER: OHBL-24SE-MFL-UNV-L735-CD

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	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	82	82	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	68	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	34	32
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	25	23

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	13302	13302	13302
5°	13217	13170	13208
10°	13125	13048	13130
15°	12978	12903	13031
20°	12783	12728	12890
25°	12523	12510	12747
30°	12163	12273	12602
35°	11728	12023	12476
40°	11205	11733	12351
45°	10588	11419	12192
50°	9913	11101	12001
55°	9083	10713	11686
60°	8233	10255	11072
65°	7305	9672	10073
70°	6300	8931	8990
75°	5282	8074	8244
80°	4004	7438	8122
85°	2533	7662	8958



TEST NUMBER: P830116

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	738.0	3.2
10°-20°	2117.2	9.1
20°-30°	3201.8	13.7
30°-40°	3843.8	16.5
40°-50°	3970.1	17.0
50°-60°	3571.8	15.3
60°-70°	2690.6	11.5
70°-80°	1624.7	7.0
80°-90°	794.6	3.4
90°-100°	334.5	1.4
100°-110°	190.9	0.8
110°-120°	112.1	0.5
120°-130°	63.4	0.3
130°-140°	33.4	0.1
140°-150°	16.2	0.1
150°-160°	6.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	6057.0	26.0
0°-40°	9900.8	42.5
0°-60°	17442.7	74.8
0°-90°	22552.5	96.8
90°-120°	637.4	2.7
90°-150°	750.4	3.2
90°-180°	756.0	3.2
0°-180°	23309.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	7788	7788	7788	7788	7788	
5°	7739	7760	7750	7781	7771	735
15°	7426	7462	7497	7560	7567	2094
25°	6782	6856	6953	7062	7079	3119
35°	5798	5934	6178	6364	6403	3625
45°	4576	4807	5209	5493	5552	3533
55°	3242	3578	4121	4432	4485	2907
65°	1978	2383	2916	3061	3027	1966
75°	932	1338	1689	1733	1716	994
85°	194	513	846	963	980	225
90°	0	200	484	610	635	12
95°	10	135	362	461	478	8
105°	13	78	210	274	286	13
115°	15	44	130	174	181	16
125°	15	21	78	112	118	14
135°	13	17	40	69	76	10
145°	19	17	19	34	40	11
155°	19	21	19	17	19	6
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830116

CATALOG NUMBER: OHBL-24SE-MFL-UNV-L735-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	7788.3	7788.3	7788.3	7788.3	7788.3
2.5°	7765.4	7784.5	7773.0	7797.8	7795.9
5°	7738.7	7759.7	7750.2	7780.7	7771.1
7.5°	7693.0	7715.8	7713.9	7748.3	7744.4
10°	7626.3	7651.0	7658.7	7704.4	7704.4
12.5°	7534.8	7567.2	7586.2	7641.5	7643.4
15°	7426.1	7462.3	7496.6	7559.5	7567.2
17.5°	7294.6	7340.3	7388.0	7460.4	7470.0
20°	7145.9	7197.4	7262.2	7338.4	7349.9
22.5°	6974.4	7035.4	7119.2	7208.8	7222.2
25°	6781.9	6856.2	6953.4	7062.1	7079.2
27.5°	6562.7	6648.4	6780.0	6901.9	6917.2
30°	6324.4	6425.4	6589.3	6734.2	6759.0
32.5°	6072.8	6189.1	6391.1	6553.1	6587.4
35°	5798.3	5933.7	6177.6	6364.4	6402.6
37.5°	5527.7	5676.3	5952.7	6166.2	6211.9
40°	5211.2	5396.1	5712.5	5948.9	6004.2
42.5°	4913.9	5114.0	5472.4	5729.7	5783.1
45°	4576.5	4807.2	5209.3	5493.3	5552.4
47.5°	4260.1	4509.8	4955.8	5249.4	5310.4
50°	3926.5	4201.0	4685.2	4992.0	5054.9
52.5°	3593.0	3888.4	4405.0	4723.3	4782.4
55°	3242.3	3577.7	4121.0	4431.7	4485.0
57.5°	2916.3	3270.8	3829.3	4124.8	4157.2
60°	2594.2	2962.1	3532.0	3791.2	3802.6
62.5°	2279.7	2666.6	3227.0	3432.9	3417.6
65°	1978.5	2382.6	2916.3	3061.2	3026.9
67.5°	1688.8	2106.2	2598.0	2691.4	2645.7
70°	1414.3	1837.5	2289.2	2336.9	2294.9
72.5°	1172.2	1582.1	1976.6	2016.6	1986.1
75°	932.1	1338.1	1688.8	1732.6	1715.5
77.5°	707.2	1101.7	1423.8	1481.0	1484.8
80°	508.9	886.3	1193.2	1282.8	1294.2
82.5°	335.5	688.1	1000.7	1115.1	1132.2
85°	194.4	512.7	846.3	962.6	979.7
87.5°	83.9	369.8	680.5	785.3	806.3
90°	0.0	200.1	484.1	609.9	634.7
92.5°	5.7	165.8	415.5	529.9	550.9
95°	9.5	135.3	362.2	461.3	478.4
97.5°	11.4	114.4	314.5	402.2	419.3
100°	11.4	99.1	272.6	352.6	367.9
102.5°	11.4	87.7	238.3	308.8	322.1
105°	13.3	78.1	209.7	274.5	285.9



TEST NUMBER: P830116

CATALOG NUMBER: OHBL-24SE-MFL-UNV-L735-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	15.2	51.5	144.9	194.4	202.0
115°	15.2	43.8	129.6	173.5	181.1
117.5°	17.2	38.1	114.4	156.3	162.0
120°	17.2	32.4	101.0	139.1	146.8
122.5°	17.2	26.7	89.6	125.8	131.5
125°	15.2	21.0	78.1	112.5	118.2
127.5°	13.3	17.2	66.7	101.0	106.7
130°	13.3	15.2	57.2	89.6	95.3
132.5°	13.3	17.2	47.7	78.1	85.8
135°	13.3	17.2	40.0	68.6	76.2
137.5°	13.3	17.2	32.4	59.1	66.7
140°	15.2	17.2	26.7	49.6	57.2
142.5°	17.2	17.2	21.0	41.9	47.7
145°	19.1	17.2	19.1	34.3	40.0
147.5°	19.1	19.1	19.1	26.7	32.4
150°	19.1	21.0	19.1	21.0	26.7
152.5°	19.1	21.0	19.1	17.2	21.0
155°	19.1	21.0	19.1	17.2	19.1
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°	13.3	68.6	184.9	244.0	253.5
110°	13.3	61.0	163.9	217.3	226.8



(END OF REPORT)