

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: P830404

Luminaire Tested: **OHBL-36SE-MFL-UNV-L735-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830404
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-36SE-MFL-UNV-L735-CD
Description: 36000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

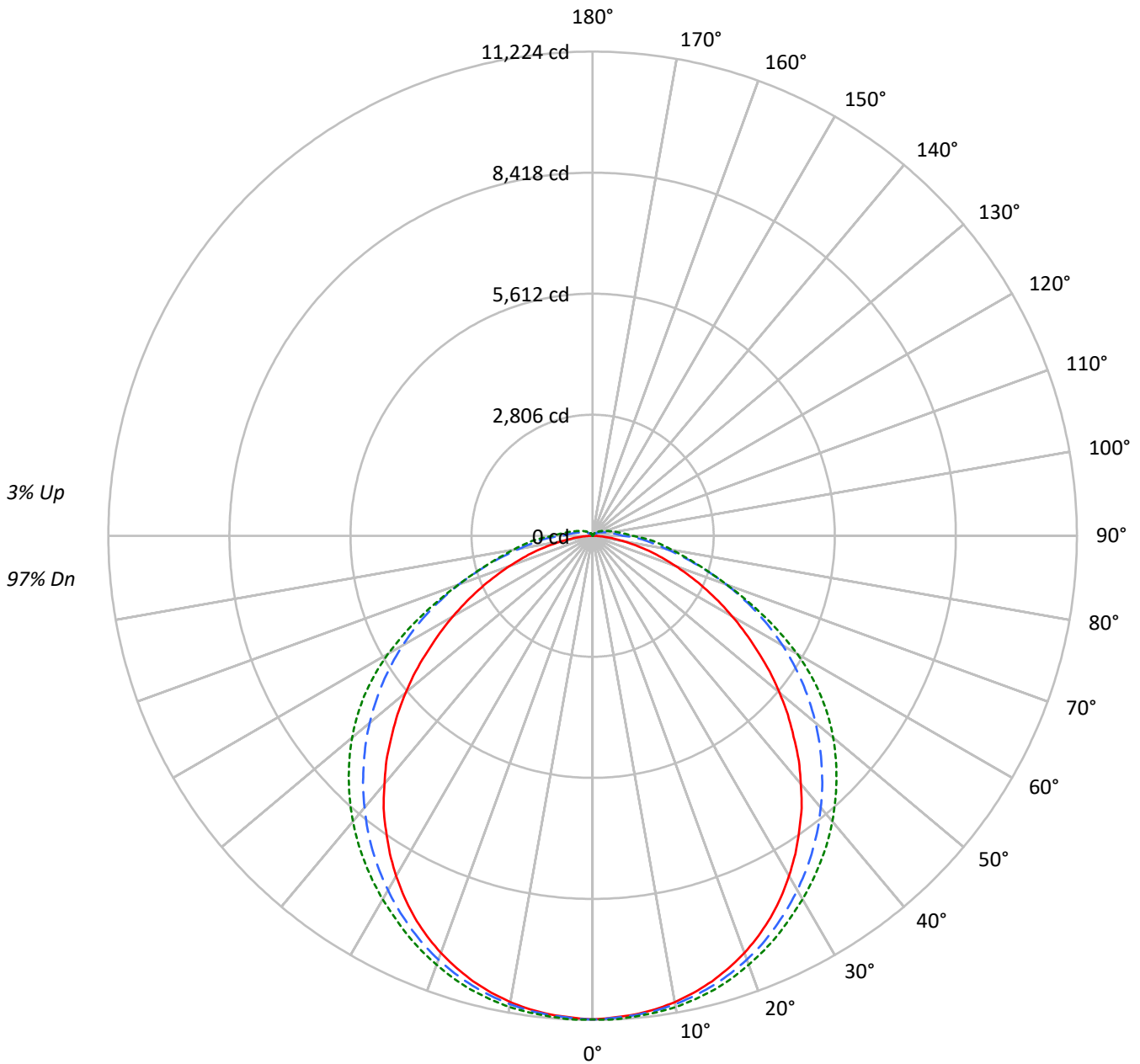
Lumens per Lamp: N/A
Luminaire Lumens: 33559.0 lumens
Efficiency: N/A
Efficacy: 159.0 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 211
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: P830404

CATALOG NUMBER: OHBL-36SE-MFL-UNV-L735-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830404

CATALOG NUMBER: OHBL-36SE-MFL-UNV-L735-CD

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	17733	17733	17733
5°	17620	17565	17619
10°	17496	17410	17527
15°	17301	17225	17406
20°	17041	16999	17228
25°	16695	16716	17049
30°	16215	16409	16868
35°	15634	16083	16713
40°	14937	15706	16559
45°	14114	15296	16364
50°	13215	14882	16126
55°	12108	14375	15724
60°	10976	13778	14923
65°	9739	13014	13606
70°	8398	12042	12179
75°	7042	10918	11216
80°	5338	10106	11127
85°	3377	10505	12434



TEST NUMBER: P830404

CATALOG NUMBER: OHBL-36SE-MFL-UNV-L735-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1062.5	3.2
10°-20°	3048.2	9.1
20°-30°	4609.8	13.7
30°-40°	5534.1	16.5
40°-50°	5715.9	17.0
50°-60°	5142.5	15.3
60°-70°	3873.8	11.5
70°-80°	2339.1	7.0
80°-90°	1144.0	3.4
90°-100°	481.5	1.4
100°-110°	274.9	0.8
110°-120°	161.4	0.5
120°-130°	91.3	0.3
130°-140°	48.1	0.1
140°-150°	23.4	0.1
150°-160°	8.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	8720.5	26.0
0°-40°	14254.6	42.5
0°-60°	25113.0	74.8
0°-90°	32469.9	96.8
90°-120°	917.8	2.7
90°-150°	1080.4	3.2
90°-180°	1089.0	3.2
0°-180°	33559.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11213	11213	11213	11213	11213	
5°	11142	11172	11158	11202	11188	###
15°	10692	10744	10793	10884	10895	3014
25°	9764	9871	10011	10168	10192	4491
35°	8348	8543	8894	9163	9218	5219
45°	6589	6921	7500	7909	7994	5087
55°	4668	5151	5933	6380	6457	4185
65°	2849	3430	4199	4407	4358	2830
75°	1342	1926	2431	2495	2470	1432
85°	280	738	1218	1386	1411	323
90°	0	288	697	878	914	18
95°	14	195	521	664	689	12
105°	19	112	302	395	412	19
115°	22	63	187	250	261	22
125°	22	30	112	162	170	20
135°	19	25	58	99	110	15
145°	27	25	27	49	58	16
155°	27	30	27	25	27	8
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830404

CATALOG NUMBER: OHBL-36SE-MFL-UNV-L735-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11213.1	11213.1	11213.1	<i>11213.1</i>	11213.1
2.5°	<i>11180.2</i>	<i>11207.6</i>	<i>11191.2</i>	<i>11226.9</i>	<i>11224.1</i>
5°	11141.8	11172.0	11158.2	<i>11202.2</i>	11188.4
7.5°	11075.9	11108.8	11106.1	<i>11155.5</i>	11150.0
10°	10979.9	11015.5	11026.5	<i>11092.4</i>	11092.4
12.5°	10848.1	10894.8	10922.2	<i>11001.8</i>	11004.6
15°	10691.7	10743.9	10793.3	<i>10883.8</i>	10894.8
17.5°	10502.4	10568.2	10636.8	<i>10741.1</i>	10754.8
20°	10288.3	10362.4	10455.7	<i>10565.5</i>	10581.9
22.5°	10041.3	10129.1	10249.9	<i>10378.9</i>	10398.1
25°	9764.1	9871.2	10011.1	<i>10167.6</i>	10192.3
27.5°	9448.6	9572.1	9761.4	<i>9937.0</i>	9959.0
30°	9105.5	9251.0	9487.0	<i>9695.5</i>	9731.2
32.5°	8743.3	8910.7	9201.6	<i>9434.8</i>	9484.2
35°	8348.1	8542.9	8894.2	<i>9163.2</i>	9218.0
37.5°	7958.4	8172.5	8570.4	<i>8877.7</i>	8943.6
40°	7502.9	7769.1	8224.6	<i>8564.9</i>	8644.5
42.5°	7074.8	7362.9	7878.8	<i>8249.3</i>	8326.1
45°	6589.0	6921.1	7500.1	<i>7909.0</i>	7994.1
47.5°	6133.5	6493.0	7135.1	<i>7557.7</i>	7645.6
50°	5653.2	6048.4	6745.4	<i>7187.3</i>	7277.8
52.5°	5173.0	5598.3	6342.0	<i>6800.3</i>	6885.4
55°	4668.0	5151.0	5933.1	<i>6380.5</i>	6457.3
57.5°	4198.7	4709.2	5513.3	<i>5938.6</i>	5985.3
60°	3735.0	4264.6	5085.2	<i>5458.4</i>	5474.8
62.5°	3282.2	3839.2	4646.1	<i>4942.4</i>	4920.5
65°	2848.6	3430.4	4198.7	<i>4407.3</i>	4357.9
67.5°	2431.4	3032.4	3740.5	<i>3874.9</i>	3809.1
70°	2036.3	2645.5	3295.9	<i>3364.5</i>	3304.1
72.5°	1687.7	2277.8	2845.8	<i>2903.4</i>	2859.5
75°	1342.0	1926.5	2431.4	<i>2494.6</i>	2469.9
77.5°	1018.1	1586.2	2050.0	<i>2132.3</i>	2137.8
80°	732.7	1276.1	1717.9	<i>1846.9</i>	1863.4
82.5°	483.0	990.7	1440.7	<i>1605.4</i>	1630.1
85°	279.9	738.2	1218.5	<i>1385.9</i>	1410.6
87.5°	120.7	532.4	979.7	<i>1130.6</i>	1160.8
90°	0.0	288.1	697.0	<i>878.2</i>	913.8
92.5°	8.2	238.8	598.3	<i>762.9</i>	793.1
95°	13.7	194.8	521.4	<i>664.1</i>	688.8
97.5°	16.5	164.7	452.8	<i>579.0</i>	603.7
100°	16.5	142.7	392.4	<i>507.7</i>	529.6
102.5°	16.5	126.2	343.0	<i>444.6</i>	463.8
105°	19.2	112.5	301.9	<i>395.2</i>	411.6



TEST NUMBER: P830404

CATALOG NUMBER: OHBL-36SE-MFL-UNV-L735-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	22.0	74.1	208.6	279.9	290.9
115°	22.0	63.1	186.6	249.7	260.7
117.5°	24.7	54.9	164.7	225.0	233.3
120°	24.7	46.7	145.4	200.3	211.3
122.5°	24.7	38.4	129.0	181.1	189.4
125°	22.0	30.2	112.5	161.9	170.1
127.5°	19.2	24.7	96.0	145.4	153.7
130°	19.2	22.0	82.3	129.0	137.2
132.5°	19.2	24.7	68.6	112.5	123.5
135°	19.2	24.7	57.6	98.8	109.8
137.5°	19.2	24.7	46.7	85.1	96.0
140°	22.0	24.7	38.4	71.4	82.3
142.5°	24.7	24.7	30.2	60.4	68.6
145°	27.4	24.7	27.4	49.4	57.6
147.5°	27.4	27.4	27.4	38.4	46.7
150°	27.4	30.2	27.4	30.2	38.4
152.5°	27.4	30.2	27.4	24.7	30.2
155°	27.4	30.2	27.4	24.7	27.4
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°	19.2	98.8	266.2	351.3	365.0
110°	19.2	87.8	236.0	312.8	326.6



(END OF REPORT)