

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: P830410

Luminaire Tested: **OHBL-36SE-MFL-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830410
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-L850-CD
Description: 36000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

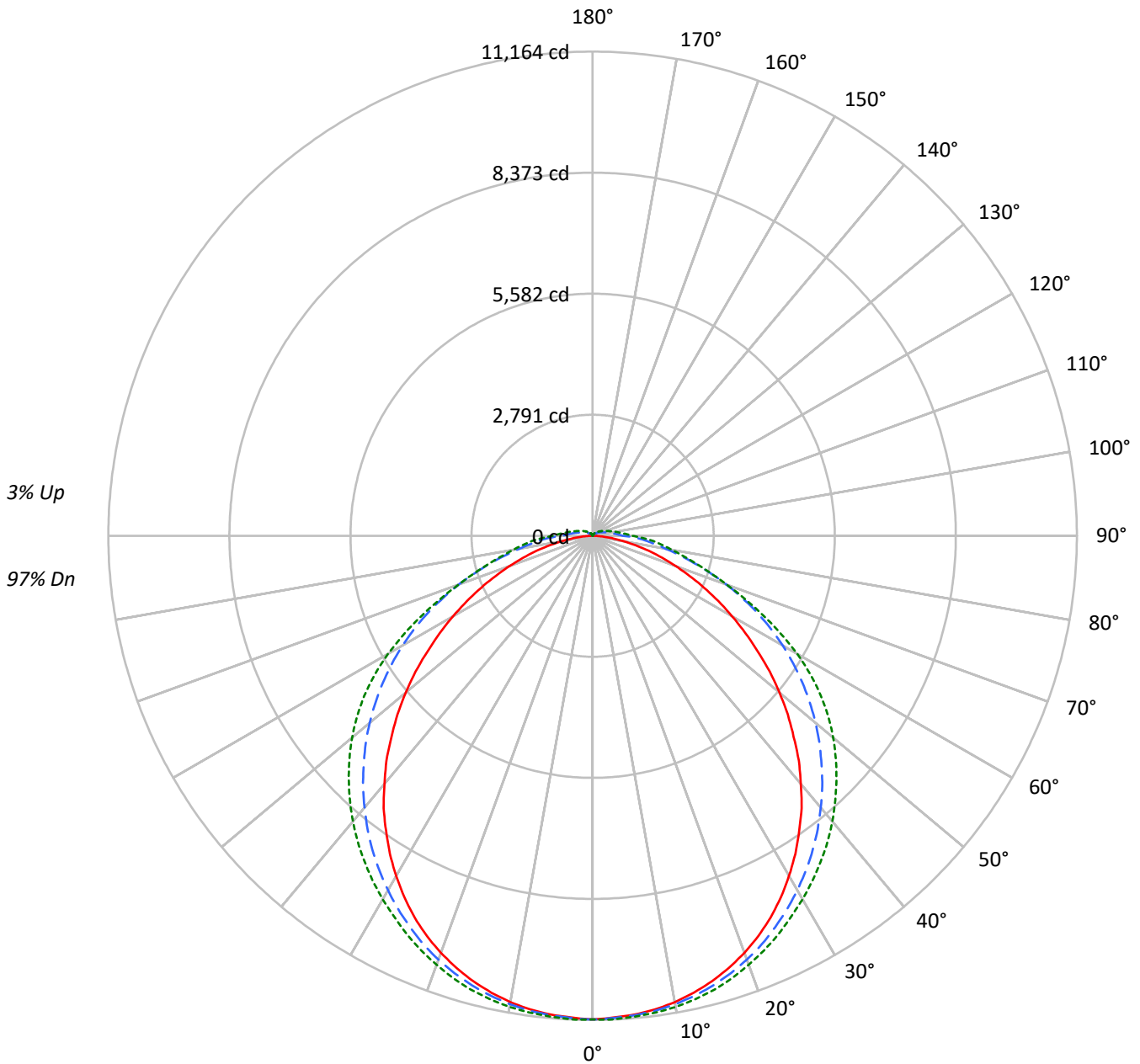
Lumens per Lamp: N/A
Luminaire Lumens: 33378.0 lumens
Efficiency: N/A
Efficacy: 158.2 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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: P830410

CATALOG NUMBER: OHBL-36SE-MFL-UNV-L850-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830410

CATALOG NUMBER: OHBL-36SE-MFL-UNV-L850-CD

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°	17638	17638	17638
5°	17525	17471	17524
10°	17402	17316	17432
15°	17208	17132	17312
20°	16950	16907	17135
25°	16605	16625	16957
30°	16128	16320	16777
35°	15550	15996	16623
40°	14856	15621	16470
45°	14038	15213	16275
50°	13143	14802	16039
55°	12043	14297	15640
60°	10916	13703	14842
65°	9686	12944	13532
70°	8353	11977	12113
75°	7003	10859	11155
80°	5310	10052	11066
85°	3359	10448	12367



TEST NUMBER: P830410

CATALOG NUMBER: OHBL-36SE-MFL-UNV-L850-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1056.8	3.2
10°-20°	3031.7	9.1
20°-30°	4585.0	13.7
30°-40°	5504.3	16.5
40°-50°	5685.0	17.0
50°-60°	5114.7	15.3
60°-70°	3852.9	11.5
70°-80°	2326.5	7.0
80°-90°	1137.8	3.4
90°-100°	478.9	1.4
100°-110°	273.4	0.8
110°-120°	160.5	0.5
120°-130°	90.8	0.3
130°-140°	47.8	0.1
140°-150°	23.2	0.1
150°-160°	8.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	8673.5	26.0
0°-40°	14177.7	42.5
0°-60°	24977.5	74.8
0°-90°	32294.7	96.8
90°-120°	912.8	2.7
90°-150°	1074.6	3.2
90°-180°	1083.0	3.2
0°-180°	33378.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11153	11153	11153	11153	11153	
5°	11082	11112	11098	11142	11128	###
15°	10634	10686	10735	10825	10836	2998
25°	9712	9818	9957	10113	10137	4467
35°	8303	8497	8846	9114	9168	5191
45°	6554	6884	7460	7866	7951	5059
55°	4643	5123	5901	6346	6422	4163
65°	2833	3412	4176	4384	4334	2815
75°	1335	1916	2418	2481	2456	1424
85°	278	734	1212	1378	1403	322
90°	0	287	693	873	909	18
95°	14	194	519	660	685	12
105°	19	112	300	393	409	19
115°	22	63	186	248	259	22
125°	22	30	112	161	169	20
135°	19	25	57	98	109	15
145°	27	25	27	49	57	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: P830410

CATALOG NUMBER: OHBL-36SE-MFL-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11152.7	11152.7	11152.7	<i>11152.7</i>	11152.7
2.5°	<i>11119.9</i>	<i>11147.2</i>	<i>11130.8</i>	<i>11166.3</i>	<i>11163.6</i>
5°	11081.7	11111.7	11098.1	<i>11141.7</i>	11128.1
7.5°	11016.2	11048.9	11046.2	<i>11095.3</i>	11089.9
10°	10920.6	10956.1	10967.0	<i>11032.6</i>	11032.6
12.5°	10789.6	10836.0	10863.3	<i>10942.5</i>	10945.2
15°	10634.1	10685.9	10735.0	<i>10825.1</i>	10836.0
17.5°	10445.7	10511.2	10579.5	<i>10683.2</i>	10696.8
20°	10232.8	10306.5	10399.3	<i>10508.5</i>	10524.9
22.5°	9987.2	10074.5	10194.6	<i>10322.9</i>	10342.0
25°	9711.5	9817.9	9957.1	<i>10112.7</i>	10137.3
27.5°	9397.6	9520.4	9708.8	<i>9883.4</i>	9905.3
30°	9056.4	9201.1	9435.8	<i>9643.2</i>	9678.7
32.5°	8696.1	8862.6	9151.9	<i>9383.9</i>	9433.1
35°	8303.1	8496.9	8846.2	<i>9113.7</i>	9168.3
37.5°	7915.5	8128.4	8524.2	<i>8829.9</i>	8895.4
40°	7462.4	7727.2	8180.2	<i>8518.7</i>	8597.9
42.5°	7036.6	7323.2	7836.3	<i>8204.8</i>	8281.2
45°	6553.5	6883.7	7459.7	<i>7866.4</i>	7951.0
47.5°	6100.4	6457.9	7096.6	<i>7517.0</i>	7604.3
50°	5622.7	6015.8	6709.1	<i>7148.5</i>	7238.6
52.5°	5145.1	5568.1	6307.8	<i>6763.6</i>	6848.3
55°	4642.8	5123.2	5901.1	<i>6346.0</i>	6422.5
57.5°	4176.1	4683.8	5483.5	<i>5906.6</i>	5953.0
60°	3714.8	4241.6	5057.7	<i>5428.9</i>	5445.3
62.5°	3264.5	3818.5	4621.0	<i>4915.8</i>	4894.0
65°	2833.2	3411.8	4176.1	<i>4383.5</i>	4334.4
67.5°	2418.3	3016.1	3720.3	<i>3854.0</i>	3788.5
70°	2025.3	2631.2	3278.1	<i>3346.3</i>	3286.3
72.5°	1678.6	2265.5	2830.5	<i>2887.8</i>	2844.1
75°	1334.7	1916.1	2418.3	<i>2481.1</i>	2456.5
77.5°	1012.6	1577.6	2038.9	<i>2120.8</i>	2126.3
80°	728.8	1269.2	1708.7	<i>1836.9</i>	1853.3
82.5°	480.4	985.3	1433.0	<i>1596.7</i>	1621.3
85°	278.4	734.2	1211.9	<i>1378.4</i>	1403.0
87.5°	120.1	529.5	974.4	<i>1124.5</i>	1154.6
90°	0.0	286.6	693.3	<i>873.4</i>	908.9
92.5°	8.2	237.5	595.0	<i>758.8</i>	788.8
95°	13.6	193.8	518.6	<i>660.5</i>	685.1
97.5°	16.4	163.8	450.4	<i>575.9</i>	600.5
100°	16.4	141.9	390.3	<i>505.0</i>	526.8
102.5°	16.4	125.6	341.2	<i>442.2</i>	461.3
105°	19.1	111.9	300.2	<i>393.0</i>	409.4



TEST NUMBER: P830410

CATALOG NUMBER: OHBL-36SE-MFL-UNV-L850-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	21.8	73.7	207.4	278.4	289.3
115°	21.8	62.8	185.6	248.4	259.3
117.5°	24.6	54.6	163.8	223.8	232.0
120°	24.6	46.4	144.7	199.3	210.2
122.5°	24.6	38.2	128.3	180.1	188.3
125°	21.8	30.0	111.9	161.0	169.2
127.5°	19.1	24.6	95.5	144.7	152.9
130°	19.1	21.8	81.9	128.3	136.5
132.5°	19.1	24.6	68.2	111.9	122.8
135°	19.1	24.6	57.3	98.3	109.2
137.5°	19.1	24.6	46.4	84.6	95.5
140°	21.8	24.6	38.2	71.0	81.9
142.5°	24.6	24.6	30.0	60.0	68.2
145°	27.3	24.6	27.3	49.1	57.3
147.5°	27.3	27.3	27.3	38.2	46.4
150°	27.3	30.0	27.3	30.0	38.2
152.5°	27.3	30.0	27.3	24.6	30.0
155°	27.3	30.0	27.3	24.6	27.3
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°	19.1	98.3	264.8	349.4	363.0
110°	19.1	87.3	234.7	311.2	324.8



(END OF REPORT)