

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: P830409

Luminaire Tested: **OHBL-36SE-MFL-UNV-L840-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830409
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-L840-CD
Description: 36000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

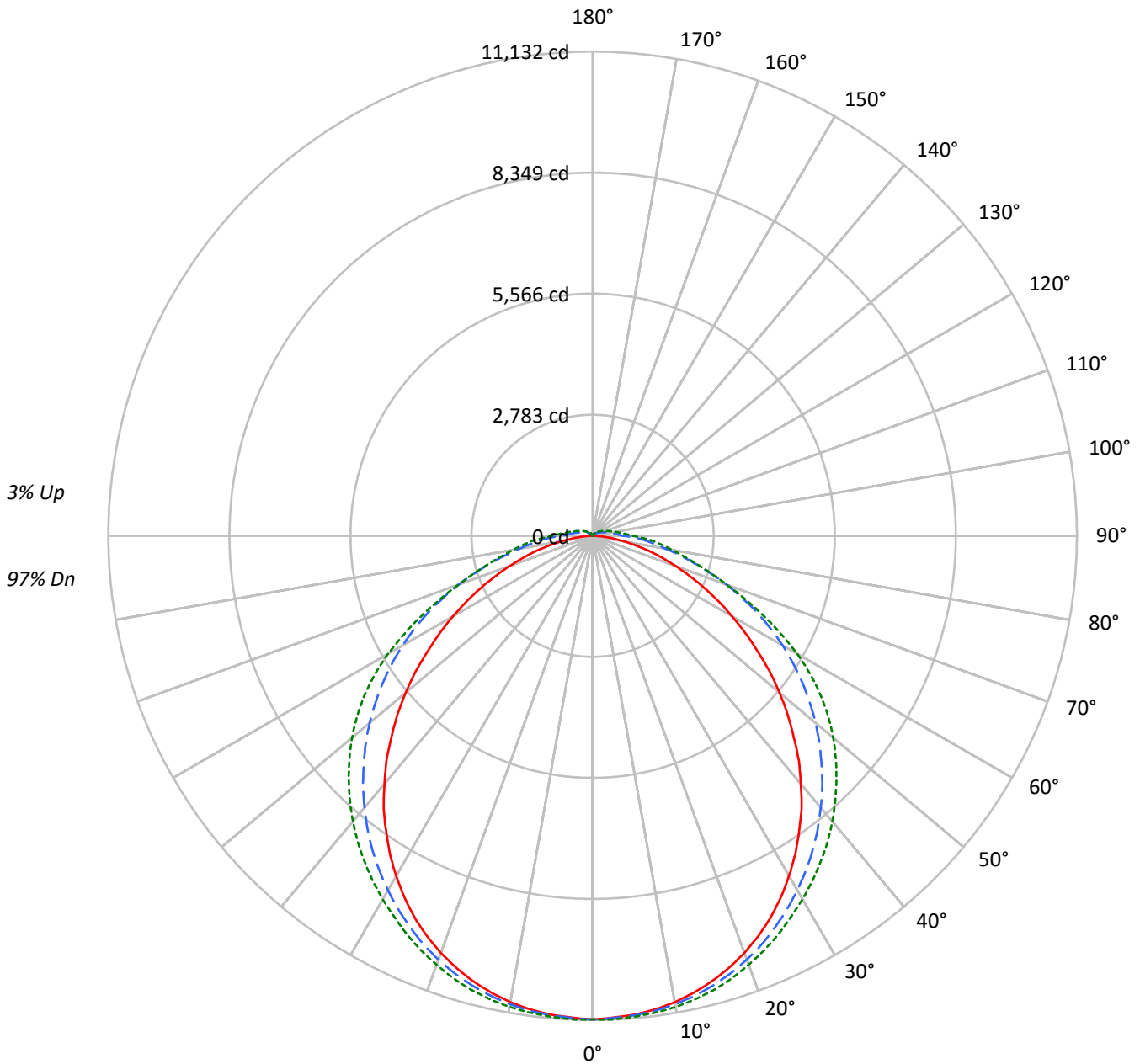
Lumens per Lamp: N/A
Luminaire Lumens: 33282.0 lumens
Efficiency: N/A
Efficacy: 157.7 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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: P830409

CATALOG NUMBER: OHBL-36SE-MFL-UNV-L840-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830409

CATALOG NUMBER: OHBL-36SE-MFL-UNV-L840-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°	17587	17587	17587
5°	17474	17420	17474
10°	17352	17267	17382
15°	17158	17083	17262
20°	16901	16858	17086
25°	16557	16578	16908
30°	16081	16273	16729
35°	15505	15950	16575
40°	14814	15576	16423
45°	13998	15170	16229
50°	13106	14759	15993
55°	12008	14256	15595
60°	10885	13664	14800
65°	9659	12907	13493
70°	8329	11943	12078
75°	6983	10828	11123
80°	5295	10022	11035
85°	3349	10417	12331



TEST NUMBER: P830409

CATALOG NUMBER: OHBL-36SE-MFL-UNV-L840-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1053.7	3.2
10°-20°	3023.0	9.1
20°-30°	4571.8	13.7
30°-40°	5488.5	16.5
40°-50°	5668.7	17.0
50°-60°	5100.1	15.3
60°-70°	3841.8	11.5
70°-80°	2319.8	7.0
80°-90°	1134.6	3.4
90°-100°	477.6	1.4
100°-110°	272.6	0.8
110°-120°	160.0	0.5
120°-130°	90.5	0.3
130°-140°	47.7	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°	8648.5	26.0
0°-40°	14137.0	42.5
0°-60°	24905.7	74.8
0°-90°	32201.9	96.8
90°-120°	910.2	2.7
90°-150°	1071.6	3.2
90°-180°	1080.0	3.2
0°-180°	33282.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11121	11121	11121	11121	11121	
5°	11050	11080	11066	11110	11096	###
15°	10604	10655	10704	10794	10805	2989
25°	9684	9790	9928	10084	10108	4454
35°	8279	8472	8821	9088	9142	5176
45°	6535	6864	7438	7844	7928	5045
55°	4630	5108	5884	6328	6404	4151
65°	2825	3402	4164	4371	4322	2807
75°	1331	1911	2411	2474	2450	1420
85°	278	732	1208	1374	1399	321
90°	0	286	691	871	906	18
95°	14	193	517	659	683	11
105°	19	112	299	392	408	19
115°	22	63	185	248	259	22
125°	22	30	112	161	169	20
135°	19	24	57	98	109	15
145°	27	24	27	49	57	16
155°	27	30	27	24	27	8
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830409

CATALOG NUMBER: OHBL-36SE-MFL-UNV-L840-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11120.6	11120.6	11120.6	<i>11120.6</i>	11120.6
2.5°	<i>11087.9</i>	<i>11115.1</i>	<i>11098.8</i>	<i>11134.2</i>	<i>11131.5</i>
5°	11049.8	11079.8	11066.1	<i>11109.7</i>	11096.1
7.5°	10984.5	11017.2	11014.4	<i>11063.4</i>	11058.0
10°	10889.2	10924.6	10935.5	<i>11000.8</i>	11000.8
12.5°	10758.6	10804.9	10832.1	<i>10911.0</i>	10913.7
15°	10603.5	10655.2	10704.2	<i>10794.0</i>	10804.9
17.5°	10415.7	10481.0	10549.0	<i>10652.5</i>	10666.1
20°	10203.4	10276.9	10369.4	<i>10478.3</i>	10494.6
22.5°	9958.4	10045.5	10165.3	<i>10293.2</i>	10312.3
25°	9683.6	9789.7	9928.5	<i>10083.6</i>	10108.1
27.5°	9370.6	9493.0	9680.8	<i>9855.0</i>	9876.8
30°	9030.4	9174.6	9408.7	<i>9615.5</i>	9650.9
32.5°	8671.1	8837.1	9125.6	<i>9357.0</i>	9405.9
35°	8279.2	8472.4	8820.8	<i>9087.5</i>	9142.0
37.5°	7892.7	8105.0	8499.6	<i>8804.5</i>	8869.8
40°	7440.9	7704.9	8156.7	<i>8494.2</i>	8573.1
42.5°	7016.4	7302.1	7813.8	<i>8181.2</i>	8257.4
45°	6534.6	6863.9	7438.2	<i>7843.7</i>	7928.1
47.5°	6082.8	6439.4	7076.2	<i>7495.4</i>	7582.5
50°	5606.6	5998.5	6689.8	<i>7127.9</i>	7217.8
52.5°	5130.3	5552.1	6289.7	<i>6744.2</i>	6828.6
55°	4629.5	5108.5	5884.2	<i>6327.8</i>	6404.0
57.5°	4164.1	4670.3	5467.8	<i>5889.6</i>	5935.9
60°	3704.1	4229.4	5043.2	<i>5413.3</i>	5429.6
62.5°	3255.1	3807.6	4607.7	<i>4901.7</i>	4879.9
65°	2825.1	3402.0	4164.1	<i>4370.9</i>	4321.9
67.5°	2411.4	3007.4	3709.6	<i>3842.9</i>	3777.6
70°	2019.4	2623.7	3268.7	<i>3336.7</i>	3276.8
72.5°	1673.8	2259.0	2822.3	<i>2879.5</i>	2835.9
75°	1330.9	1910.6	2411.4	<i>2474.0</i>	2449.5
77.5°	1009.7	1573.1	2033.1	<i>2114.7</i>	2120.1
80°	726.7	1265.6	1703.7	<i>1831.7</i>	1848.0
82.5°	479.0	982.5	1428.9	<i>1592.2</i>	1616.6
85°	277.6	732.1	1208.4	<i>1374.4</i>	1398.9
87.5°	119.8	528.0	971.6	<i>1121.3</i>	1151.2
90°	0.0	285.8	691.3	<i>870.9</i>	906.3
92.5°	8.2	236.8	593.3	<i>756.6</i>	786.6
95°	13.6	193.2	517.1	<i>658.6</i>	683.1
97.5°	16.3	163.3	449.1	<i>574.3</i>	598.8
100°	16.3	141.5	389.2	<i>503.5</i>	525.3
102.5°	16.3	125.2	340.2	<i>440.9</i>	460.0
105°	19.1	111.6	299.4	<i>391.9</i>	408.2



TEST NUMBER: P830409

CATALOG NUMBER: OHBL-36SE-MFL-UNV-L840-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	21.8	73.5	206.8	277.6	288.5
115°	21.8	62.6	185.1	247.7	258.6
117.5°	24.5	54.4	163.3	223.2	231.3
120°	24.5	46.3	144.2	198.7	209.6
122.5°	24.5	38.1	127.9	179.6	187.8
125°	21.8	29.9	111.6	160.6	168.7
127.5°	19.1	24.5	95.3	144.2	152.4
130°	19.1	21.8	81.6	127.9	136.1
132.5°	19.1	24.5	68.0	111.6	122.5
135°	19.1	24.5	57.2	98.0	108.9
137.5°	19.1	24.5	46.3	84.4	95.3
140°	21.8	24.5	38.1	70.8	81.6
142.5°	24.5	24.5	29.9	59.9	68.0
145°	27.2	24.5	27.2	49.0	57.2
147.5°	27.2	27.2	27.2	38.1	46.3
150°	27.2	29.9	27.2	29.9	38.1
152.5°	27.2	29.9	27.2	24.5	29.9
155°	27.2	29.9	27.2	24.5	27.2
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	98.0	264.0	348.4	362.0
110°	19.1	87.1	234.1	310.3	323.9



(END OF REPORT)