

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: P830557

Luminaire Tested: **OHBL-48SE-MFL-UNV-L940-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830557
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-48SE-MFL-UNV-L940-CD
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

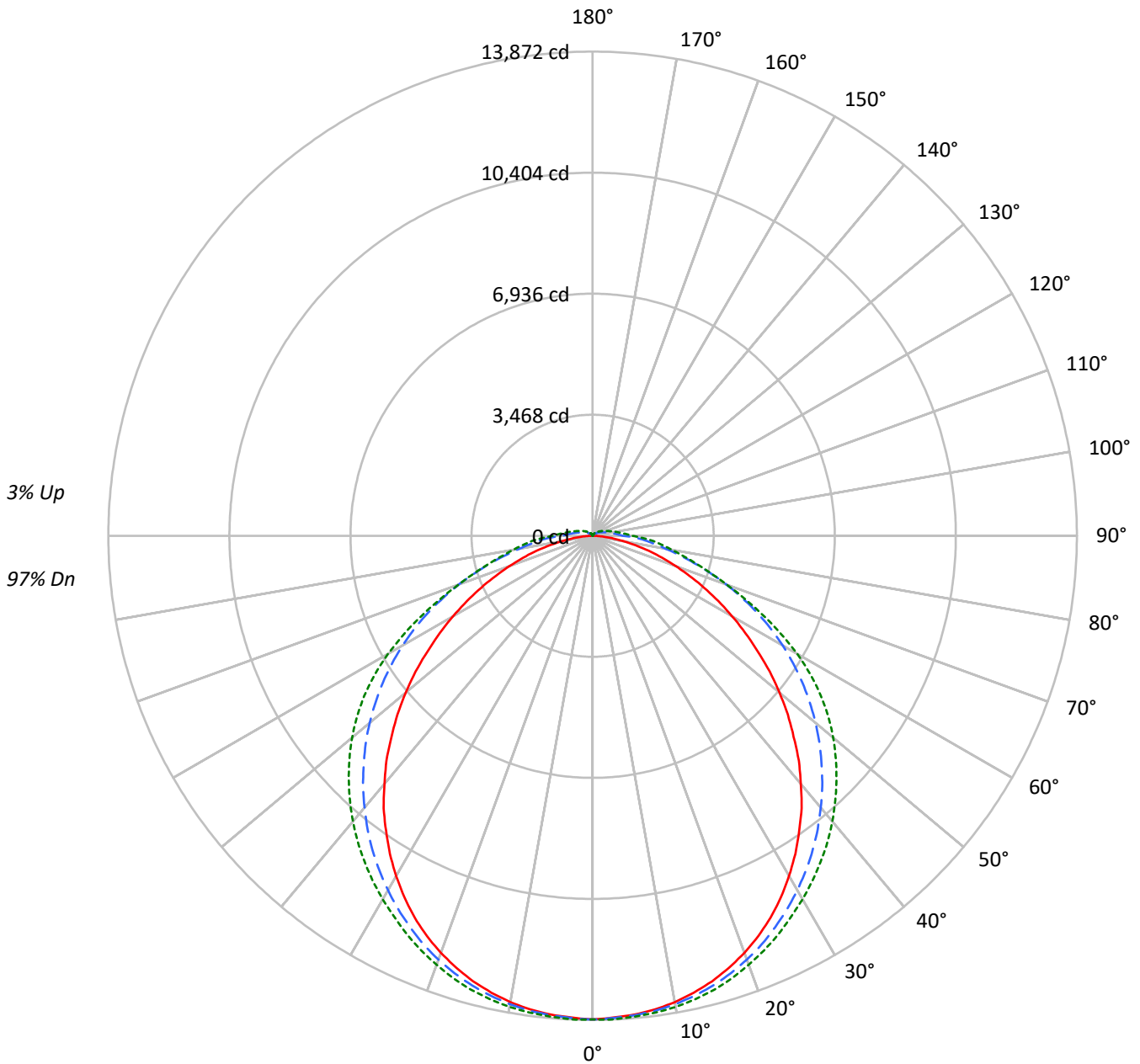
Lumens per Lamp: N/A
Luminaire Lumens: 41475.0 lumens
Efficiency: N/A
Efficacy: 143.6 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 288.8
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: P830557

CATALOG NUMBER: OHBL-48SE-MFL-UNV-L940-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830557

CATALOG NUMBER: OHBL-48SE-MFL-UNV-L940-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°	23669	23669	23669
5°	23518	23435	23502
10°	23353	23218	23364
15°	23092	22960	23187
20°	22746	22647	22936
25°	22283	22259	22681
30°	21643	21839	22424
35°	20868	21393	22199
40°	19937	20878	21976
45°	18839	20319	21694
50°	17638	19753	21354
55°	16162	19061	20794
60°	14650	18248	19701
65°	12999	17211	17923
70°	11210	15892	15996
75°	9398	14367	14668
80°	7126	13235	14453
85°	4507	13633	15940



TEST NUMBER: P830557

CATALOG NUMBER: OHBL-48SE-MFL-UNV-L940-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1313.1	3.2
10°-20°	3767.2	9.1
20°-30°	5697.2	13.7
30°-40°	6839.6	16.5
40°-50°	7064.1	17.0
50°-60°	6355.5	15.3
60°-70°	4787.5	11.5
70°-80°	2890.9	7.0
80°-90°	1413.9	3.4
90°-100°	595.1	1.4
100°-110°	339.7	0.8
110°-120°	199.4	0.5
120°-130°	112.8	0.3
130°-140°	59.4	0.1
140°-150°	28.9	0.1
150°-160°	10.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	10777.5	26.0
0°-40°	17617.1	42.5
0°-60°	31036.7	74.8
0°-90°	40129.0	96.8
90°-120°	1134.3	2.7
90°-150°	1335.3	3.2
90°-180°	1346.0	3.2
0°-180°	41475.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13858	13858	13858	13858	13858	
5°	13770	13807	13790	13845	13828	###
15°	13214	13278	13339	13451	13465	3725
25°	12067	12200	12373	12566	12596	5551
35°	10317	10558	10992	11325	11392	6450
45°	8143	8554	9269	9775	9880	6287
55°	5769	6366	7333	7886	7980	5173
65°	3520	4240	5189	5447	5386	3498
75°	1658	2381	3005	3083	3052	1769
85°	346	912	1506	1713	1743	400
90°	0	356	862	1085	1129	22
95°	17	241	644	821	851	14
105°	24	139	373	488	509	24
115°	27	78	231	309	322	28
125°	27	37	139	200	210	24
135°	24	30	71	122	136	19
145°	34	30	34	61	71	20
155°	34	37	34	30	34	10
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830557

CATALOG NUMBER: OHBL-48SE-MFL-UNV-L940-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13858.1	13858.1	13858.1	<i>13858.1</i>	13858.1
2.5°	<i>13817.4</i>	<i>13851.3</i>	<i>13831.0</i>	<i>13875.1</i>	<i>13871.7</i>
5°	13769.9	13807.2	13790.3	<i>13844.6</i>	13827.6
7.5°	13688.5	13729.2	13725.8	<i>13786.9</i>	13780.1
10°	13569.8	13613.9	13627.5	<i>13708.9</i>	13708.9
12.5°	13407.0	13464.7	13498.6	<i>13597.0</i>	13600.4
15°	13213.7	13278.2	13339.2	<i>13451.1</i>	13464.7
17.5°	12979.7	13061.1	13145.9	<i>13274.8</i>	13291.7
20°	12715.1	12806.7	12922.0	<i>13057.7</i>	13078.0
22.5°	12409.9	12518.4	12667.7	<i>12827.1</i>	12850.8
25°	12067.3	12199.6	12372.6	<i>12565.9</i>	12596.4
27.5°	11677.3	11829.9	12064.0	<i>12281.0</i>	12308.2
30°	11253.4	11433.1	11724.8	<i>11982.6</i>	12026.6
32.5°	10805.7	11012.6	11372.1	<i>11660.4</i>	11721.4
35°	10317.3	10558.1	10992.2	<i>11324.6</i>	11392.4
37.5°	9835.7	10100.2	10592.0	<i>10971.9</i>	11053.3
40°	9272.7	9601.6	10164.7	<i>10585.2</i>	10683.6
42.5°	8743.6	9099.7	9737.3	<i>10195.2</i>	10290.1
45°	8143.3	8553.6	9269.3	<i>9774.6</i>	9879.8
47.5°	7580.2	8024.5	8818.2	<i>9340.5</i>	9449.0
50°	6986.7	7475.1	8336.6	<i>8882.6</i>	8994.5
52.5°	6393.2	6918.9	7838.0	<i>8404.4</i>	8509.5
55°	5769.1	6366.1	7332.7	<i>7885.5</i>	7980.5
57.5°	5189.2	5820.0	6813.7	<i>7339.4</i>	7397.1
60°	4616.0	5270.6	6284.7	<i>6745.9</i>	6766.3
62.5°	4056.4	4744.9	5742.0	<i>6108.3</i>	6081.2
65°	3520.5	4239.5	5189.2	<i>5446.9</i>	5385.9
67.5°	3005.0	3747.7	4622.8	<i>4789.0</i>	4707.6
70°	2516.6	3269.5	4073.3	<i>4158.1</i>	4083.5
72.5°	2085.8	2815.0	3517.1	<i>3588.3</i>	3534.1
75°	1658.5	2380.9	3005.0	<i>3083.0</i>	3052.4
77.5°	1258.3	1960.4	2533.5	<i>2635.3</i>	2642.1
80°	905.6	1577.1	2123.1	<i>2282.6</i>	2302.9
82.5°	596.9	1224.4	1780.6	<i>1984.1</i>	2014.6
85°	345.9	912.3	1505.9	<i>1712.8</i>	1743.3
87.5°	149.2	658.0	1210.8	<i>1397.3</i>	1434.7
90°	0.0	356.1	861.5	<i>1085.3</i>	1129.4
92.5°	10.2	295.1	739.4	<i>942.9</i>	980.2
95°	17.0	240.8	644.4	<i>820.8</i>	851.3
97.5°	20.3	203.5	559.6	<i>715.6</i>	746.2
100°	20.3	176.4	485.0	<i>627.4</i>	654.6
102.5°	20.3	156.0	424.0	<i>549.4</i>	573.2
105°	23.7	139.1	373.1	<i>488.4</i>	508.7



TEST NUMBER: P830557

CATALOG NUMBER: OHBL-48SE-MFL-UNV-L940-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	27.1	91.6	257.8	345.9	359.5
115°	27.1	78.0	230.6	308.6	322.2
117.5°	30.5	67.8	203.5	278.1	288.3
120°	30.5	57.7	179.8	247.6	261.2
122.5°	30.5	47.5	159.4	223.8	234.0
125°	27.1	37.3	139.1	200.1	210.3
127.5°	23.7	30.5	118.7	179.8	189.9
130°	23.7	27.1	101.7	159.4	169.6
132.5°	23.7	30.5	84.8	139.1	152.6
135°	23.7	30.5	71.2	122.1	135.7
137.5°	23.7	30.5	57.7	105.1	118.7
140°	27.1	30.5	47.5	88.2	101.7
142.5°	30.5	30.5	37.3	74.6	84.8
145°	33.9	30.5	33.9	61.0	71.2
147.5°	33.9	33.9	33.9	47.5	57.7
150°	33.9	37.3	33.9	37.3	47.5
152.5°	33.9	37.3	33.9	30.5	37.3
155°	33.9	37.3	33.9	30.5	33.9
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°	23.7	122.1	329.0	434.1	451.1
110°	23.7	108.5	291.7	386.6	403.6



(END OF REPORT)