

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: P828419

Luminaire Tested: **OHBL-48SE-MFL-UNV-L940-CD-UPL24**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P828419
REPORT IS A COMBINATION OF REPORTS P826259 AND G3-2310-221-6
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-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

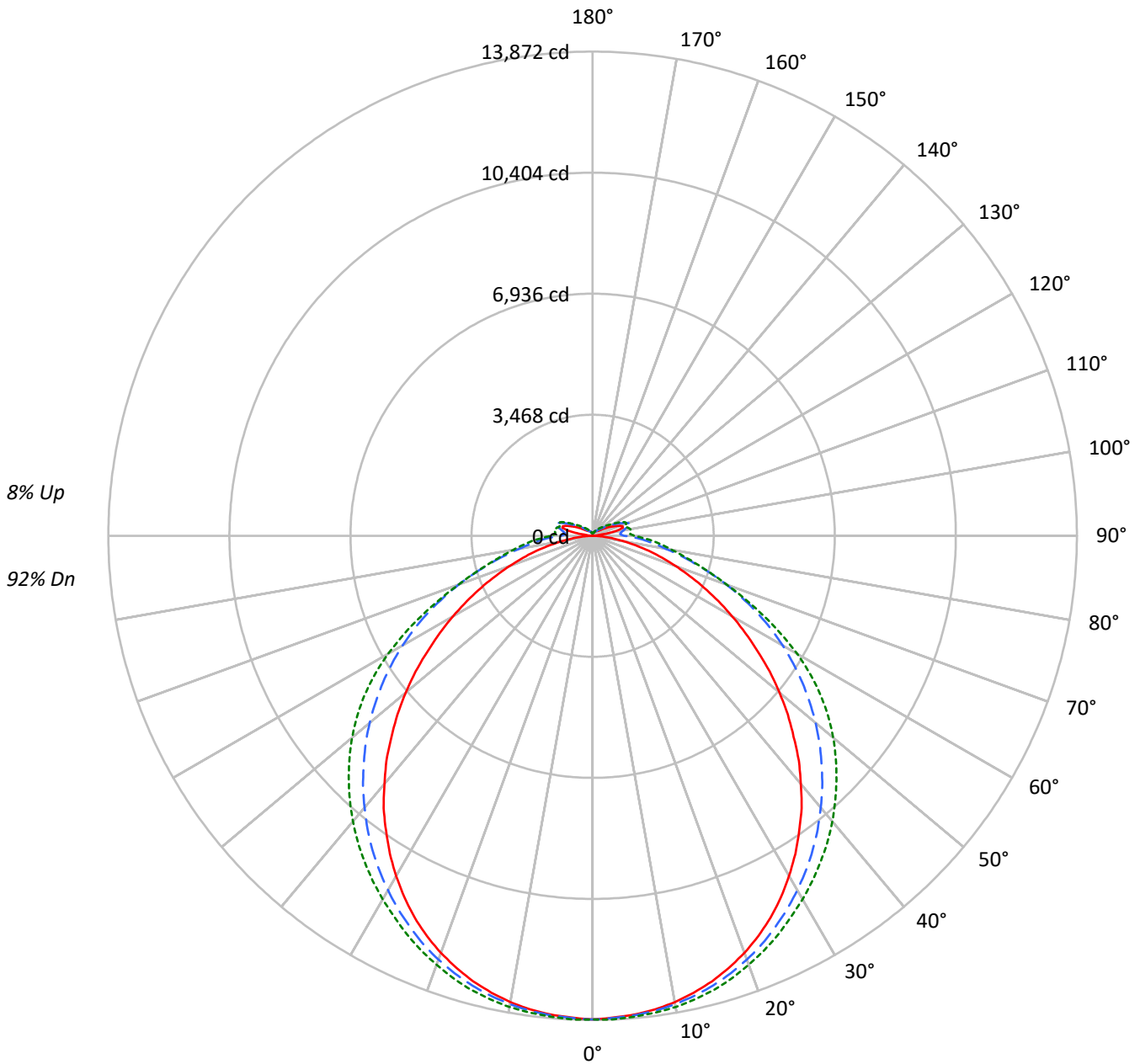
Lumens per Lamp: N/A
Luminaire Lumens: 43579.4 lumens
Efficiency: N/A
Efficacy: 142.3 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 306.2
Input Voltage (V): NR
Input Current (Ain): 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

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Luminous Intensity Polar Plot





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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	117	117	117	117	114	114	114	114	107	107	107	100	100	100	95	95	95	92																			
1	106	101	97	93	103	98	94	91	93	89	86	87	85	82	83	80	78	76																			
2	97	88	81	75	93	86	79	74	81	75	71	76	72	68	72	69	65	63																			
3	88	77	69	63	85	75	68	61	71	65	59	67	62	57	64	59	55	53																			
4	81	68	60	53	78	67	58	52	63	56	51	60	54	49	57	52	48	45																			
5	74	61	52	45	71	60	51	45	57	49	44	54	47	42	51	46	41	39																			
6	68	55	46	40	66	54	45	39	51	44	38	49	42	37	46	41	36	34																			
7	63	50	41	35	61	49	40	35	46	39	34	44	38	33	42	37	32	30																			
8	59	45	37	31	57	44	36	31	42	35	30	41	34	29	39	33	29	27																			
9	55	42	33	28	53	41	33	28	39	32	27	37	31	27	36	30	26	24																			
10	52	38	31	25	50	38	30	25	36	29	25	35	28	24	33	28	24	22																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	23670	23670	23670
5°	23404	23435	23617
10°	23127	23218	23593
15°	22755	22960	23531
20°	22299	22647	23395
25°	21728	22259	23261
30°	20982	21839	23131
35°	20104	21393	23043
40°	19074	20878	22971
45°	17881	20319	22857
50°	16588	19753	22707
55°	15032	19061	22357
60°	13440	18248	21474
65°	11715	17211	19887
70°	9858	15892	18189
75°	7970	14367	17297
80°	5683	13235	18121
85°	3164	13633	22716



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1313.1	3.0
10°-20°	3767.2	8.6
20°-30°	5697.2	13.1
30°-40°	6839.6	15.7
40°-50°	7064.2	16.2
50°-60°	6355.5	14.6
60°-70°	4787.5	11.0
70°-80°	2890.9	6.6
80°-90°	1419.2	3.3
90°-100°	796.7	1.8
100°-110°	1039.5	2.4
110°-120°	799.7	1.8
120°-130°	400.8	0.9
130°-140°	203.5	0.5
140°-150°	112.4	0.3
150°-160°	59.4	0.1
160°-170°	25.2	0.1
170°-180°	7.7	0.0
0°-30°	10777.5	24.7
0°-40°	17617.1	40.4
0°-60°	31036.8	71.2
0°-90°	40134.4	92.1
90°-120°	2636.0	6.0
90°-150°	3352.6	7.7
90°-180°	3445.0	7.9
0°-180°	43579.4	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°	4	386	902	1139	1189	25
95°	63	337	794	1019	1076	157
105°	896	1002	1107	1011	989	851
115°	629	686	838	915	923	635
125°	321	347	455	515	522	300
135°	198	208	255	307	323	156
145°	160	160	166	194	205	100
155°	135	140	138	136	139	58
165°	87	88	89	89	89	25
175°	78	79	79	80	80	8
180°	78	78	78	78	78	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13858.2	13858.2	13858.2	<i>13858.2</i>	13858.2
2.5°	<i>13817.5</i>	<i>13851.4</i>	<i>13831.0</i>	<i>13875.1</i>	<i>13871.7</i>
5°	13770.0	13807.3	13790.3	<i>13844.6</i>	13827.6
7.5°	13688.5	13729.3	13725.9	<i>13787.0</i>	13780.2
10°	13569.9	13613.9	13627.5	<i>13709.0</i>	13709.0
12.5°	13407.1	13464.7	13498.6	<i>13597.0</i>	13600.4
15°	13213.7	13278.2	13339.3	<i>13451.2</i>	13464.7
17.5°	12979.8	13061.1	13145.9	<i>13274.8</i>	13291.7
20°	12715.2	12806.7	12922.0	<i>13057.8</i>	13078.1
22.5°	12409.9	12518.4	12667.7	<i>12827.1</i>	12850.8
25°	12067.4	12199.6	12372.6	<i>12565.9</i>	12596.5
27.5°	11677.3	11830.0	12064.0	<i>12281.1</i>	12308.2
30°	11253.4	11433.1	11724.8	<i>11982.6</i>	12026.7
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>	11053.2
40°	9272.7	9601.7	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	8553.7	9269.3	<i>9774.6</i>	9879.8
47.5°	7580.3	8024.5	8818.2	<i>9340.5</i>	9449.0
50°	6986.8	7475.1	8336.6	<i>8882.7</i>	8994.6
52.5°	6393.2	6918.9	7838.0	<i>8404.4</i>	8509.6
55°	5769.1	6366.1	7332.7	<i>7885.5</i>	7980.5
57.5°	5189.2	5820.0	6813.7	<i>7339.5</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>5447.0</i>	5385.9
67.5°	3005.0	3747.7	4622.7	<i>4789.0</i>	4707.6
70°	2516.6	3269.5	4073.3	<i>4158.1</i>	4083.5
72.5°	2085.9	2815.0	3517.1	<i>3588.4</i>	3534.0
75°	1658.5	2380.9	3005.0	<i>3083.0</i>	3052.4
77.5°	1258.3	1960.3	2533.6	<i>2635.3</i>	2642.1
80°	905.5	1577.1	2123.2	<i>2282.6</i>	2302.9
82.5°	597.0	1224.4	1780.6	<i>1984.1</i>	2014.6
85°	346.0	912.3	1505.9	<i>1712.8</i>	1743.3
87.5°	149.2	658.0	1210.8	<i>1397.4</i>	1434.7
90°	4.3	385.7	902.3	<i>1139.2</i>	1189.4
92.5°	25.0	334.2	802.0	<i>1031.6</i>	1080.2
95°	63.0	337.3	794.0	<i>1019.0</i>	1075.6
97.5°	254.2	456.5	831.7	<i>1045.2</i>	1104.4
100°	500.3	685.8	896.2	<i>1062.2</i>	1097.2
102.5°	762.0	893.3	961.3	<i>1031.1</i>	1047.9
105°	895.8	1001.5	1106.9	<i>1010.9</i>	988.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	729.6	804.5	956.8	1025.0	1010.7
115°	628.8	685.7	838.4	914.7	923.0
117.5°	545.2	583.4	722.6	796.3	807.4
120°	456.5	493.2	623.1	686.7	695.0
122.5°	387.9	415.2	532.4	595.1	600.1
125°	321.0	346.8	454.6	514.9	522.4
127.5°	272.4	290.5	387.3	449.2	458.6
130°	240.2	250.6	333.9	392.4	403.4
132.5°	215.9	228.8	289.1	346.8	359.5
135°	197.6	207.9	254.7	307.3	322.6
137.5°	182.8	192.2	224.6	274.7	288.2
140°	173.2	180.1	201.4	243.8	258.2
142.5°	165.3	168.8	179.0	218.1	228.2
145°	160.0	160.1	166.1	194.1	205.1
147.5°	152.2	155.6	157.4	172.7	182.8
150°	146.1	151.2	150.4	154.7	165.7
152.5°	140.0	145.1	144.3	141.8	148.6
155°	134.8	139.9	138.2	135.7	139.1
157.5°	96.5	98.2	100.0	100.9	100.9
160°	93.0	93.9	95.6	96.5	96.5
162.5°	89.6	90.4	91.3	92.2	92.2
165°	86.9	87.8	88.7	88.7	88.7
167.5°	84.3	84.3	85.2	86.1	86.1
170°	81.7	82.6	82.6	83.5	83.5
172.5°	80.0	80.9	80.9	80.9	81.7
175°	78.2	79.1	79.1	80.0	80.0
177.5°	78.2	78.2	78.2	78.2	78.2
180°	78.2	78.2	78.2	78.2	78.2



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	899.3	1001.1	1140.2	1067.9	978.8
110°	831.4	924.0	1068.1	1096.1	1027.9



(END OF REPORT)