

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: P830593

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830593
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-48SE-W-UNV-L940-CD
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 4000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

Summary

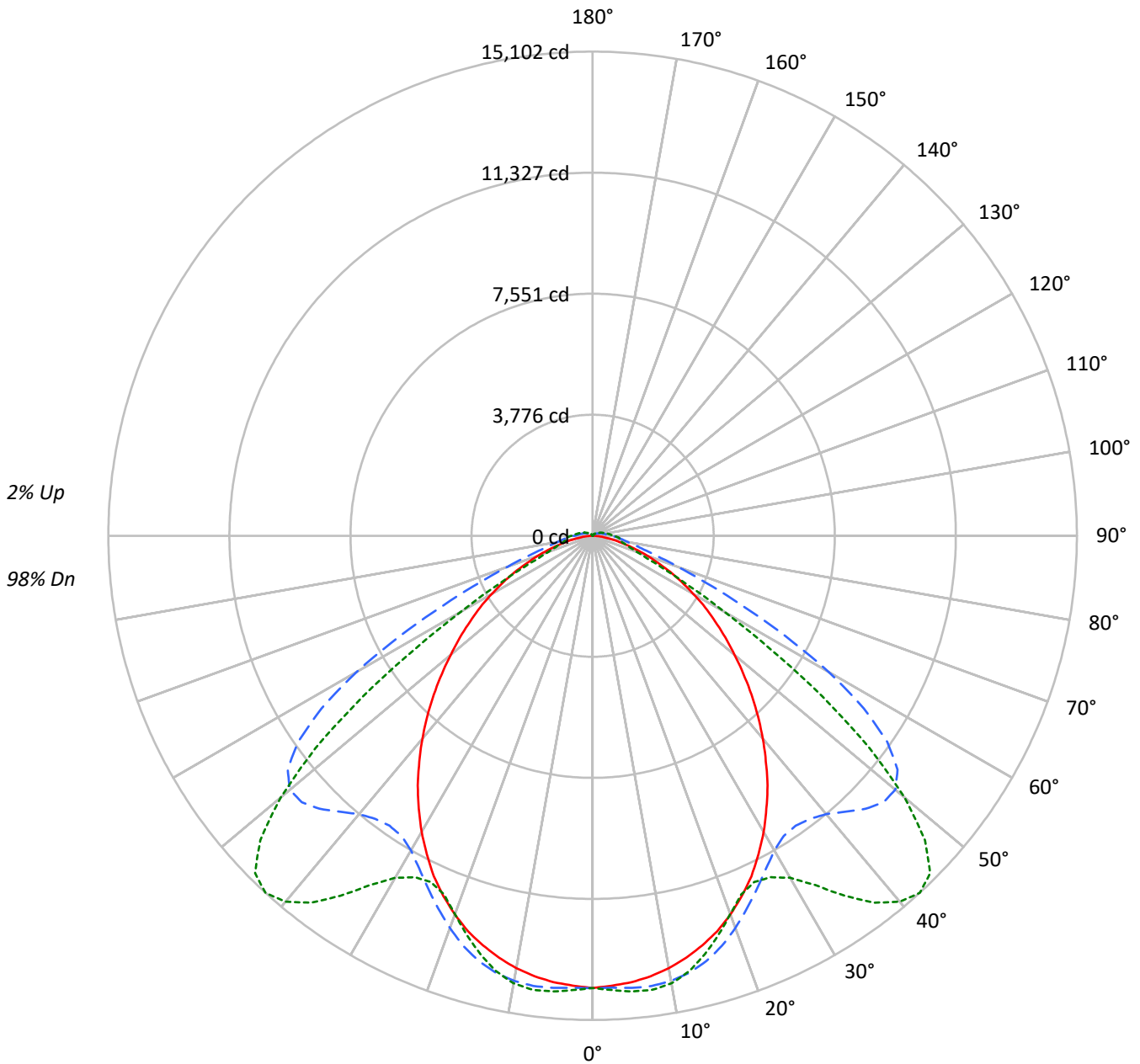
Lumens per Lamp: N/A
Luminaire Lumens: 42237.0 lumens
Efficiency: N/A
Efficacy: 146.3 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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: P830593

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

Luminous Intensity Polar Plot





TEST NUMBER: P830593

CATALOG NUMBER: OHBL-48SE-W-UNV-L940-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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100					98															
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85					83															
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72					70															
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61					59															
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52					50															
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45					43															
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40					38															
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35					33															
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31					29															
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28					26															
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25					24															

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24094	24094	24094
5°	23869	24060	24250
10°	23569	24023	24161
15°	23110	23626	23270
20°	22480	22813	22017
25°	21637	21830	21459
30°	20516	21099	22960
35°	19237	21489	26699
40°	17753	23273	30651
45°	16201	26399	32686
50°	14583	29191	30138
55°	13062	29154	22775
60°	11513	24663	13735
65°	9878	17029	8173
70°	8025	11007	5758
75°	6105	7886	5148
80°	4383	6925	5463
85°	2975	7604	7597



TEST NUMBER: P830593

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1348.0	3.2
10°-20°	3817.2	9.0
20°-30°	5585.8	13.2
30°-40°	7254.4	17.2
40°-50°	8858.5	21.0
50°-60°	7801.3	18.5
60°-70°	4065.3	9.6
70°-80°	1743.3	4.1
80°-90°	837.2	2.0
90°-100°	393.3	0.9
100°-110°	244.5	0.6
110°-120°	144.6	0.3
120°-130°	78.6	0.2
130°-140°	39.4	0.1
140°-150°	19.0	0.0
150°-160°	6.6	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	10751.0	25.5
0°-40°	18005.4	42.6
0°-60°	34665.2	82.1
0°-90°	41311.0	97.8
90°-120°	782.4	1.9
90°-150°	919.4	2.2
90°-180°	926.0	2.2
0°-180°	42237.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14106	14106	14106	14106	14106	
5°	13976	14082	14158	14283	14268	###
15°	13224	13595	13726	13622	13513	3723
25°	11717	12344	12134	11906	11918	5377
35°	9511	10515	11042	12877	13702	5928
45°	7003	8811	12043	14581	14886	5400
55°	4663	7718	11215	9833	8741	4185
65°	2675	5347	5134	2855	2456	2647
75°	1077	2502	1650	1129	1071	1175
85°	228	892	840	822	831	254
90°	3	323	554	633	648	16
95°	6	189	441	517	533	5
105°	12	106	286	344	350	13
115°	18	61	176	216	222	19
125°	21	30	104	134	137	18
135°	18	18	49	82	85	14
145°	24	18	21	40	46	14
155°	24	24	18	18	18	7
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830593

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14106.4	14106.4	14106.4	14106.4	14106.4
2.5°	14045.5	14106.4	14109.4	14194.6	14185.5
5°	13975.5	14082.0	14158.1	14282.9	14267.7
7.5°	13859.9	14027.3	14161.2	14298.1	14286.0
10°	13695.5	13923.8	14100.3	14212.9	14176.4
12.5°	13482.5	13783.8	13957.3	13981.6	13911.6
15°	13223.8	13595.1	13726.0	13622.5	13512.9
17.5°	12931.6	13366.8	13412.5	13187.3	13050.3
20°	12566.4	13062.5	13016.8	12706.4	12554.2
22.5°	12161.6	12727.7	12581.6	12256.0	12109.9
25°	11717.3	12344.2	12134.2	11906.0	11918.1
27.5°	11196.8	11909.0	11705.1	11808.6	12003.4
30°	10667.3	11452.5	11327.7	11930.3	12313.8
32.5°	10086.0	10983.8	11096.4	12286.4	12913.4
35°	9510.8	10515.1	11041.6	12876.8	13701.6
37.5°	8874.7	10040.3	11129.9	13558.6	14422.9
40°	8256.9	9577.7	11330.8	14170.3	14900.7
42.5°	7626.9	9163.8	11668.6	14532.5	15101.6
45°	7003.0	8810.8	12042.9	14581.2	14885.5
47.5°	6379.1	8512.5	12301.6	14194.6	14054.6
50°	5776.5	8247.7	12319.9	13266.4	12694.2
52.5°	5213.4	8004.3	11985.1	11787.3	10898.6
55°	4662.6	7718.2	11215.1	9833.4	8740.8
57.5°	4160.4	7322.5	10028.2	7733.4	6540.4
60°	3627.8	6786.9	8494.3	5657.8	4717.3
62.5°	3137.8	6120.4	6774.7	3938.2	3390.4
65°	2675.2	5347.3	5134.3	2854.8	2456.1
67.5°	2185.2	4546.9	3789.1	2081.7	1826.1
70°	1801.7	3804.3	2821.3	1619.1	1470.0
72.5°	1409.1	3098.2	2109.1	1314.8	1232.6
75°	1077.4	2501.7	1649.5	1129.1	1071.3
77.5°	794.3	1978.2	1326.9	998.3	943.5
80°	557.0	1558.2	1110.9	891.7	870.4
82.5°	374.3	1205.2	946.5	849.1	852.2
85°	228.3	891.7	840.0	821.7	830.9
87.5°	109.6	633.0	721.3	748.7	757.8
90°	3.0	322.6	553.9	633.0	648.3
92.5°	0.0	246.5	487.0	566.1	581.3
95°	6.1	188.7	441.3	517.4	532.6
97.5°	6.1	155.2	395.6	474.8	483.9
100°	9.1	133.9	353.0	429.1	438.3
102.5°	9.1	118.7	316.5	383.5	389.6
105°	12.2	106.5	286.1	343.9	350.0



TEST NUMBER: P830593

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	18.3	73.0	200.9	243.5	249.6
115°	18.3	60.9	176.5	216.1	222.2
117.5°	21.3	54.8	155.2	191.7	194.8
120°	21.3	45.7	133.9	170.4	173.5
122.5°	21.3	36.5	118.7	152.2	155.2
125°	21.3	30.4	103.5	133.9	137.0
127.5°	18.3	21.3	88.3	118.7	121.7
130°	18.3	18.3	73.0	103.5	109.6
132.5°	18.3	18.3	60.9	91.3	97.4
135°	18.3	18.3	48.7	82.2	85.2
137.5°	18.3	18.3	39.6	70.0	76.1
140°	18.3	18.3	30.4	60.9	63.9
142.5°	21.3	18.3	27.4	51.7	54.8
145°	24.3	18.3	21.3	39.6	45.7
147.5°	24.3	21.3	21.3	33.5	36.5
150°	24.3	24.3	18.3	24.3	30.4
152.5°	24.3	24.3	18.3	18.3	24.3
155°	24.3	24.3	18.3	18.3	18.3
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°	15.2	94.3	255.6	307.4	313.5
110°	15.2	82.2	225.2	273.9	280.0



(END OF REPORT)