

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: P830525

Luminaire Tested: **OHBL-48SE-A-UNV-L740-CD**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P830525
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-48SE-A-UNV-L740-CD
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 4000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

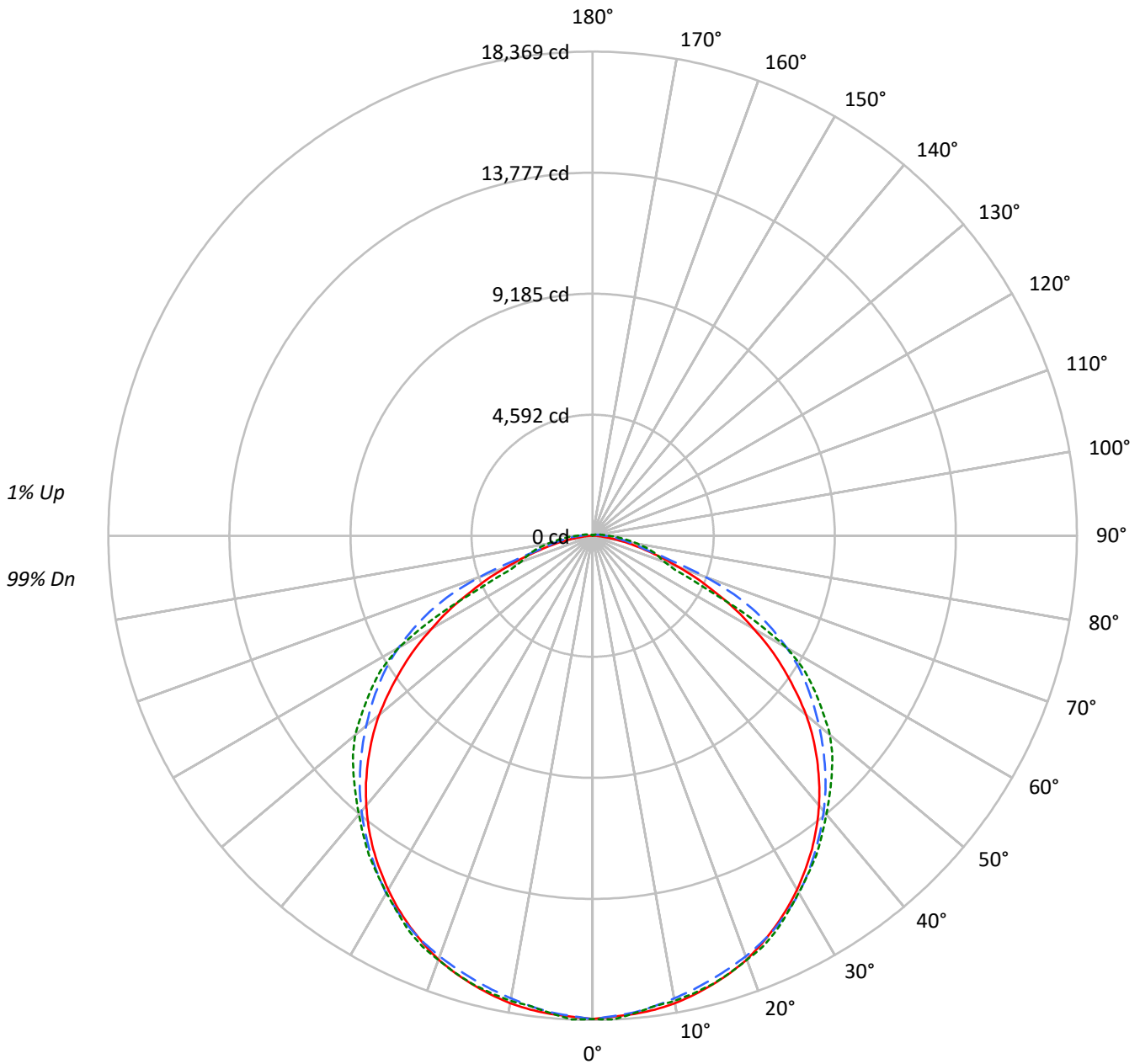
Lumens per Lamp: N/A
Luminaire Lumens: 51815.1 lumens
Efficiency: N/A
Efficacy: 179.4 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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: P830525

CATALOG NUMBER: OHBL-48SE-A-UNV-L740-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830525

CATALOG NUMBER: OHBL-48SE-A-UNV-L740-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	106	106	106	101	101	101				99																
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86				83																
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72				70																
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61				59																
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53				51																
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46				44																
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40				38																
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36				34																
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32				30																
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29				27																
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26				24																

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31311	31311	31311
5°	31106	30842	30901
10°	30992	30361	30539
15°	30796	29998	30314
20°	30599	29764	30026
25°	30230	29528	29739
30°	29828	29164	29155
35°	29348	28595	28822
40°	28724	28007	28374
45°	27859	27327	28160
50°	26687	26554	27904
55°	24824	25791	26825
60°	22385	24682	24758
65°	19203	22647	15657
70°	15467	17643	11318
75°	11596	10443	11438
80°	8072	8642	10847
85°	4593	7847	10034



TEST NUMBER: P830525

CATALOG NUMBER: OHBL-48SE-A-UNV-L740-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1728.6	3.3
10°-20°	4956.7	9.6
20°-30°	7570.4	14.6
30°-40°	9185.5	17.7
40°-50°	9627.3	18.6
50°-60°	8723.8	16.8
60°-70°	5849.0	11.3
70°-80°	2626.4	5.1
80°-90°	953.1	1.8
90°-100°	286.9	0.6
100°-110°	135.4	0.3
110°-120°	67.8	0.1
120°-130°	37.4	0.1
130°-140°	25.7	0.0
140°-150°	17.3	0.0
150°-160°	12.9	0.0
160°-170°	8.3	0.0
170°-180°	2.6	0.0
0°-30°	14255.6	27.5
0°-40°	23441.2	45.2
0°-60°	41792.2	80.7
0°-90°	51220.7	98.9
90°-120°	490.1	0.9
90°-150°	570.6	1.1
90°-180°	594.0	1.1
0°-180°	51815.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	18332	18332	18332	18332	18332	
5°	18213	18276	18149	18205	18181	###
15°	17622	17553	17428	17582	17603	4975
25°	16371	16299	16413	16564	16516	7546
35°	14510	14544	14693	14849	14791	9069
45°	12042	12238	12466	12784	12824	9277
55°	8861	9288	9922	10319	10295	7910
65°	5201	6014	6828	5763	4705	5182
75°	2046	2969	2184	2234	2380	2236
85°	352	676	867	1047	1097	430
90°	3	225	448	562	588	21
95°	3	140	308	374	384	4
105°	11	61	151	183	191	12
115°	21	32	77	98	103	20
125°	19	21	48	56	58	18
135°	24	26	29	42	45	19
145°	24	26	26	29	32	16
155°	26	29	29	29	26	12
165°	29	29	29	29	29	8
175°	29	29	26	24	24	3
180°	26	26	26	26	26	



TEST NUMBER: P830525

CATALOG NUMBER: OHBL-48SE-A-UNV-L740-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	18332.2	18332.2	18332.2	18332.2	18332.2
2.5°	18258.0	18334.8	18239.4	18342.8	18369.3
5°	18212.9	18276.5	18149.3	18205.0	18181.1
7.5°	18130.7	18151.9	18000.9	18045.9	17998.2
10°	18008.8	17998.2	17820.6	17908.1	17918.7
12.5°	17828.6	17796.8	17637.7	17770.2	17772.9
15°	17621.8	17552.9	17428.3	17582.0	17603.3
17.5°	17383.2	17293.1	17210.9	17409.7	17377.9
20°	17104.9	16998.9	16983.0	17200.3	17120.8
22.5°	16760.3	16678.2	16715.3	16922.0	16871.7
25°	16370.7	16299.1	16413.1	16564.2	16516.5
27.5°	15959.8	15917.4	16047.3	16163.9	16071.1
30°	15509.2	15485.3	15657.6	15753.1	15636.4
32.5°	15018.8	15026.8	15191.1	15321.0	15212.3
35°	14509.9	14544.4	14692.8	14849.2	14790.9
37.5°	13950.6	14027.5	14175.9	14353.5	14292.5
40°	13359.5	13470.8	13635.2	13849.9	13794.2
42.5°	12720.7	12861.2	13073.2	13311.8	13306.5
45°	12042.1	12238.2	12466.2	12784.3	12824.1
47.5°	11337.0	11557.0	11845.9	12270.1	12331.0
50°	10571.0	10846.6	11207.1	11716.1	11753.2
52.5°	9717.4	10093.8	10571.0	11058.7	11013.6
55°	8861.3	9288.0	9921.5	10319.1	10295.3
57.5°	8007.7	8487.5	9256.2	9539.8	9537.2
60°	7053.5	7660.5	8500.8	8715.5	8503.4
62.5°	6170.8	6822.9	7695.0	7538.6	6812.3
65°	5200.7	6014.4	6828.2	5762.6	4705.0
67.5°	4339.2	5187.4	5799.7	3946.9	3379.6
70°	3472.4	4408.1	4522.1	2929.0	2889.3
72.5°	2703.7	3700.4	3119.9	2507.6	2634.8
75°	2046.3	2968.8	2184.2	2234.5	2380.3
77.5°	1492.3	2279.6	1699.1	1958.9	2078.1
80°	1025.8	1614.3	1386.3	1646.1	1728.3
82.5°	644.1	1065.6	1110.6	1325.3	1410.2
85°	352.5	675.9	866.8	1047.0	1097.4
87.5°	145.8	408.2	662.7	808.5	850.9
90°	2.7	225.3	448.0	561.9	588.5
92.5°	2.7	172.3	365.8	453.3	471.8
95°	2.7	140.5	307.5	373.7	384.4
97.5°	5.3	111.3	257.1	310.1	320.7
100°	8.0	92.8	214.7	259.8	267.7
102.5°	10.6	74.2	180.2	217.4	225.3
105°	10.6	61.0	151.1	182.9	190.8



TEST NUMBER: P830525

CATALOG NUMBER: OHBL-48SE-A-UNV-L740-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	18.6	37.1	90.1	114.0	119.3
115°	21.2	31.8	76.9	98.1	103.4
117.5°	21.2	26.5	66.3	82.2	87.5
120°	21.2	23.9	58.3	71.6	74.2
122.5°	21.2	21.2	50.4	63.6	66.3
125°	18.6	21.2	47.7	55.7	58.3
127.5°	21.2	21.2	42.4	50.4	53.0
130°	21.2	23.9	37.1	47.7	47.7
132.5°	23.9	26.5	34.5	45.1	45.1
135°	23.9	26.5	29.2	42.4	45.1
137.5°	26.5	26.5	26.5	39.8	42.4
140°	26.5	26.5	23.9	34.5	37.1
142.5°	23.9	26.5	23.9	31.8	34.5
145°	23.9	26.5	26.5	29.2	31.8
147.5°	26.5	26.5	26.5	26.5	29.2
150°	26.5	26.5	26.5	26.5	26.5
152.5°	26.5	26.5	26.5	26.5	26.5
155°	26.5	29.2	29.2	29.2	26.5
157.5°	26.5	29.2	29.2	29.2	29.2
160°	26.5	29.2	29.2	29.2	29.2
162.5°	29.2	29.2	29.2	29.2	29.2
165°	29.2	29.2	29.2	29.2	29.2
167.5°	29.2	31.8	29.2	29.2	29.2
170°	29.2	29.2	29.2	26.5	26.5
172.5°	29.2	29.2	29.2	26.5	26.5
175°	29.2	29.2	26.5	23.9	23.9
177.5°	31.8	29.2	26.5	23.9	21.2
180°	26.5	26.5	26.5	26.5	26.5



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	13.3	50.4	129.9	156.4	<i>161.7</i>
110°	15.9	42.4	108.7	132.5	<i>137.8</i>



(END OF REPORT)