

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: P830590

Luminaire Tested: **OHBL-48SE-W-UNV-L850-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830590
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-L850-CD
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 5000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

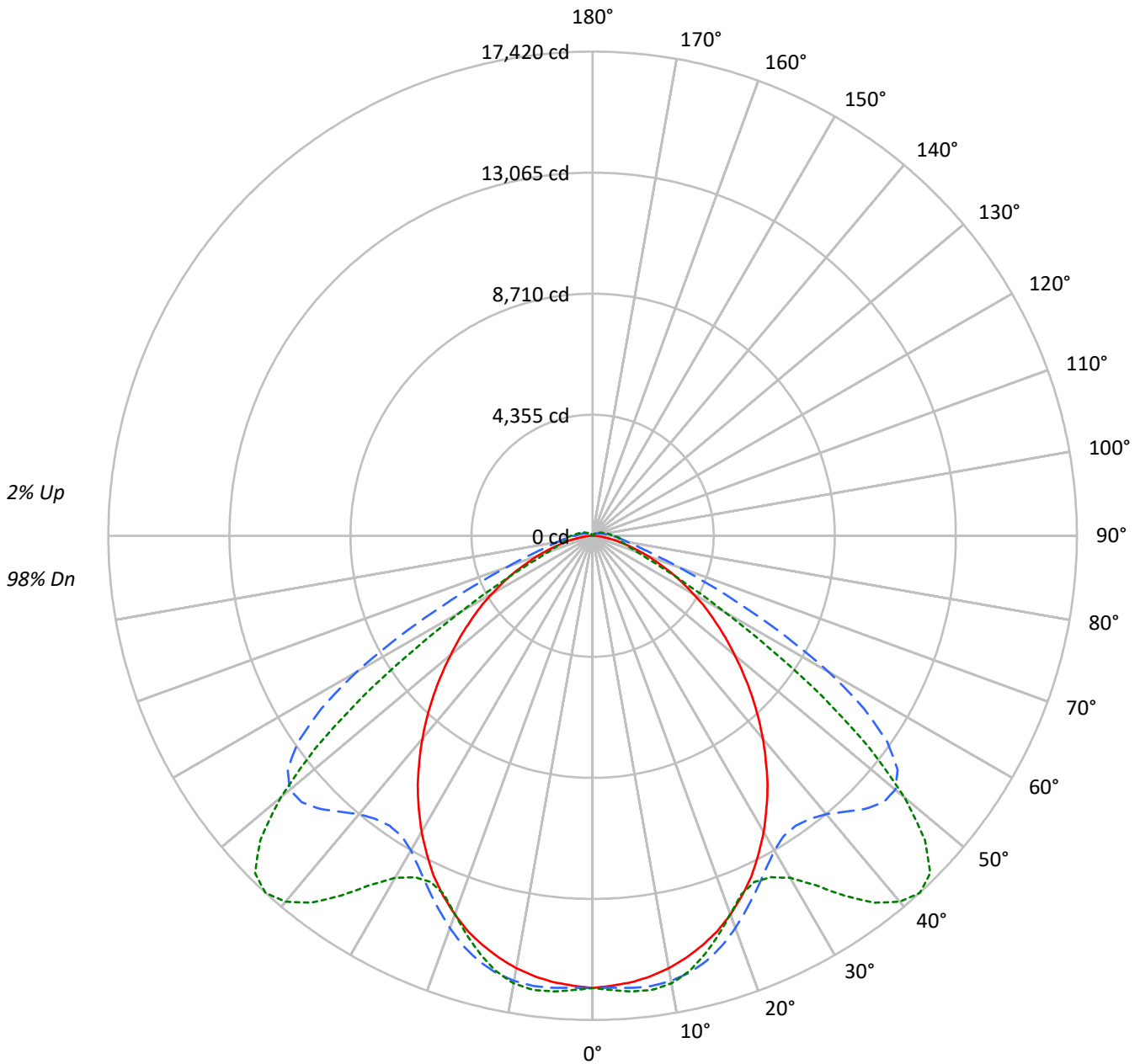
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48720.0 lumens
Efficiency: N/A
Efficacy: 168.7 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 (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				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	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	100	100	100	98
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85	85	85	85	83
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72	72	72	72	70
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	61	61	61	59
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52	52	52	52	50
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45	45	45	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	40	40	40	38
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35	35	35	35	33
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28	28	28	28	26
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	25	25	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27792	27792	27792
5°	27533	27753	27972
10°	27187	27710	27869
15°	26657	27252	26842
20°	25930	26315	25397
25°	24958	25181	24753
30°	23665	24338	26484
35°	22189	24788	30797
40°	20478	26846	35355
45°	18688	30451	37703
50°	16821	33672	34764
55°	15067	33628	26271
60°	13280	28449	15843
65°	11394	19643	9427
70°	9257	12697	6642
75°	7042	9097	5938
80°	5055	7988	6301
85°	3431	8771	8763



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1554.9	3.2
10°-20°	4403.1	9.0
20°-30°	6443.2	13.2
30°-40°	8367.8	17.2
40°-50°	10218.2	21.0
50°-60°	8998.7	18.5
60°-70°	4689.3	9.6
70°-80°	2010.9	4.1
80°-90°	965.7	2.0
90°-100°	453.7	0.9
100°-110°	282.0	0.6
110°-120°	166.8	0.3
120°-130°	90.6	0.2
130°-140°	45.5	0.1
140°-150°	21.9	0.0
150°-160°	7.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	12401.2	25.5
0°-40°	20769.1	42.6
0°-60°	39986.0	82.1
0°-90°	47651.9	97.8
90°-120°	902.5	1.9
90°-150°	1060.5	2.2
90°-180°	1068.0	2.2
0°-180°	48720.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	16272	16272	16272	16272	16272	
5°	16121	16244	16331	16475	16458	###
15°	15254	15682	15833	15713	15587	4295
25°	13516	14239	13997	13733	13748	6203
35°	10971	12129	12736	14853	15805	6838
45°	8078	10163	13891	16819	17170	6229
55°	5378	8903	12936	11343	10082	4827
65°	3086	6168	5922	3293	2833	3053
75°	1243	2886	1903	1302	1236	1355
85°	263	1029	969	948	958	294
90°	4	372	639	730	748	18
95°	7	218	509	597	614	5
105°	14	123	330	397	404	15
115°	21	70	204	249	256	22
125°	25	35	119	154	158	21
135°	21	21	56	95	98	16
145°	28	21	25	46	53	16
155°	28	28	21	21	21	9
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CATALOG NUMBER: OHBL-48SE-W-UNV-L850-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	16271.6	16271.6	16271.6	16271.6	16271.6
2.5°	16201.4	16271.6	16275.1	16373.4	16362.9
5°	16120.6	16243.5	16331.3	16475.2	16457.7
7.5°	15987.2	16180.3	16334.8	16492.8	16478.7
10°	15797.7	16061.0	16264.6	16394.5	16352.3
12.5°	15551.9	15899.5	16099.6	16127.7	16046.9
15°	15253.5	15681.8	15832.8	15713.4	15587.0
17.5°	14916.5	15418.5	15471.2	15211.4	15053.4
20°	14495.2	15067.5	15014.8	14656.7	14481.2
22.5°	14028.3	14681.3	14512.8	14137.2	13968.6
25°	13515.8	14239.0	13996.7	13733.4	13747.5
27.5°	12915.5	13736.9	13501.7	13621.1	13845.8
30°	12304.6	13210.4	13066.4	13761.5	14203.9
32.5°	11634.1	12669.7	12799.6	14172.3	14895.4
35°	10970.6	12129.1	12736.4	14853.3	15804.7
37.5°	10236.9	11581.4	12838.2	15639.7	16636.7
40°	9524.2	11047.8	13069.9	16345.3	17187.9
42.5°	8797.5	10570.4	13459.6	16763.1	17419.6
45°	8077.9	10163.2	13891.4	16819.2	17170.3
47.5°	7358.2	9819.1	14189.8	16373.4	16211.9
50°	6663.1	9513.7	14210.9	15302.7	14642.7
52.5°	6013.6	9232.9	13824.7	13596.5	12571.4
55°	5378.2	8902.9	12936.5	11342.7	10082.4
57.5°	4799.0	8446.5	11567.4	8920.4	7544.3
60°	4184.6	7828.6	9798.1	6526.2	5441.4
62.5°	3619.4	7059.8	7814.6	4542.7	3910.8
65°	3085.8	6168.1	5922.4	3292.9	2833.0
67.5°	2520.6	5244.8	4370.7	2401.2	2106.4
70°	2078.3	4388.2	3254.3	1867.6	1695.6
72.5°	1625.4	3573.8	2432.8	1516.6	1421.8
75°	1242.7	2885.7	1902.7	1302.4	1235.7
77.5°	916.3	2281.9	1530.6	1151.5	1088.3
80°	642.4	1797.4	1281.4	1028.6	1004.0
82.5°	431.8	1390.2	1091.8	979.5	983.0
85°	263.3	1028.6	968.9	947.9	958.4
87.5°	126.4	730.2	832.0	863.6	874.1
90°	3.5	372.1	638.9	730.2	747.8
92.5°	0.0	284.4	561.7	653.0	670.5
95°	7.0	217.7	509.0	596.8	614.4
97.5°	7.0	179.0	456.4	547.7	558.2
100°	10.5	154.5	407.2	495.0	505.5
102.5°	10.5	136.9	365.1	442.3	449.4
105°	14.0	122.9	330.0	396.7	403.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	21.1	84.3	231.7	280.8	287.9
115°	21.1	70.2	203.6	249.3	256.3
117.5°	24.6	63.2	179.0	221.2	224.7
120°	24.6	52.7	154.5	196.6	200.1
122.5°	24.6	42.1	136.9	175.5	179.0
125°	24.6	35.1	119.4	154.5	158.0
127.5°	21.1	24.6	101.8	136.9	140.4
130°	21.1	21.1	84.3	119.4	126.4
132.5°	21.1	21.1	70.2	105.3	112.3
135°	21.1	21.1	56.2	94.8	98.3
137.5°	21.1	21.1	45.6	80.7	87.8
140°	21.1	21.1	35.1	70.2	73.7
142.5°	24.6	21.1	31.6	59.7	63.2
145°	28.1	21.1	24.6	45.6	52.7
147.5°	28.1	24.6	24.6	38.6	42.1
150°	28.1	28.1	21.1	28.1	35.1
152.5°	28.1	28.1	21.1	21.1	28.1
155°	28.1	28.1	21.1	21.1	21.1
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°	17.6	108.8	294.9	354.6	361.6
110°	17.6	94.8	259.8	316.0	323.0



(END OF REPORT)