

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: P830564

Luminaire Tested: **OHBL-48SE-N-UNV-L835-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830564
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-48SE-N-UNV-L835-CD
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3500K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

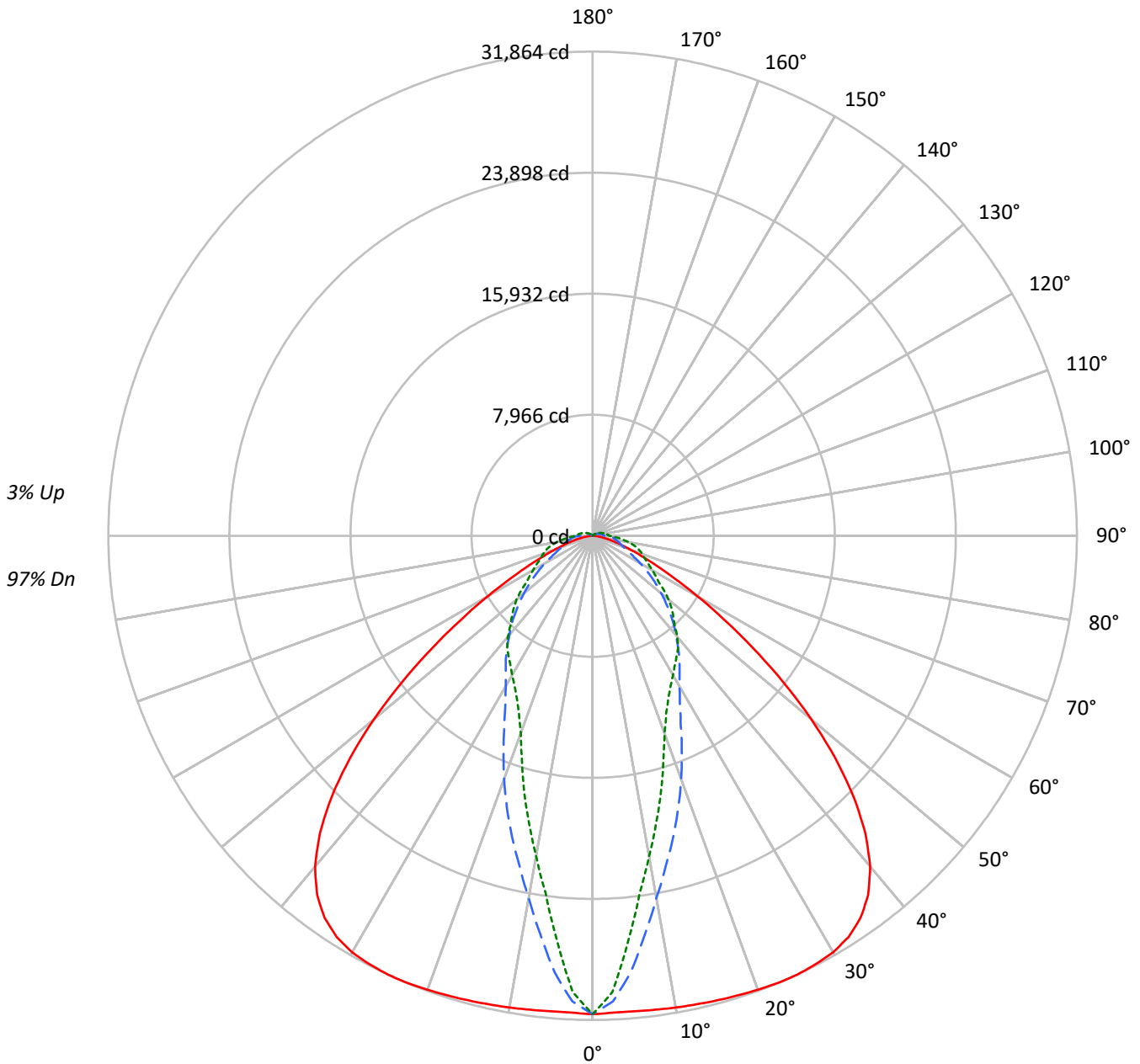
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 46458.0 lumens
Efficiency: N/A
Efficacy: 160.9 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
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: P830564
CATALOG NUMBER: OHBL-48SE-N-UNV-L835-CD

Luminous Intensity Polar Plot





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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	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	85	82
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	73	71
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	64	62
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	56	54
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	50	48
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	45	43
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	41	39
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	37	35
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	34	32
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	53764	53764	53764
5°	53654	48961	45522
10°	54260	41242	36502
15°	55319	35272	29959
20°	56873	29823	24232
25°	58840	24685	21232
30°	60874	21266	19724
35°	62141	19381	18792
40°	61077	17507	17828
45°	56189	15821	16505
50°	47406	13977	15491
55°	36021	12242	13785
60°	25243	10499	13198
65°	16980	9042	12920
70°	11596	8486	13555
75°	8047	8752	14483
80°	5539	9693	14910
85°	3241	12124	15642



TEST NUMBER: P830564

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2649.8	5.7
10°-20°	6233.4	13.4
20°-30°	7813.5	16.8
30°-40°	8291.0	17.8
40°-50°	7496.4	16.1
50°-60°	5435.4	11.7
60°-70°	3411.0	7.3
70°-80°	2257.3	4.9
80°-90°	1300.4	2.8
90°-100°	630.0	1.4
100°-110°	434.9	0.9
110°-120°	268.3	0.6
120°-130°	130.0	0.3
130°-140°	59.8	0.1
140°-150°	32.6	0.1
150°-160°	14.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	16696.7	35.9
0°-40°	24987.7	53.8
0°-60°	37919.6	81.6
0°-90°	44888.2	96.6
90°-120°	1333.2	2.9
90°-150°	1555.6	3.3
90°-180°	1570.0	3.4
0°-180°	46458.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	31478	31478	31478	31478	31478	
5°	31415	30609	28811	27475	26783	###
15°	31654	25801	20492	18224	17397	8977
25°	31864	19950	13721	12178	11792	14721
35°	30723	13263	9958	9647	9644	19099
45°	24288	8400	7217	7391	7517	18502
55°	12858	5207	4710	5108	5291	11618
65°	4599	3020	2726	3493	3883	4785
75°	1420	1627	1830	2843	3014	1583
85°	249	674	1339	1863	1711	298
90°	0	282	776	1094	1102	16
95°	12	198	683	929	971	11
105°	24	132	497	659	677	24
115°	33	93	336	419	428	32
125°	36	48	171	216	213	31
135°	30	36	75	117	117	24
145°	36	39	45	69	66	22
155°	36	45	48	51	45	11
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830564

CATALOG NUMBER: OHBL-48SE-N-UNV-L835-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	31477.8	31477.8	31477.8	31477.8	31477.8
2.5°	31411.9	31232.1	30671.9	30330.3	30042.7
5°	31414.9	30609.0	28811.4	27475.3	26783.2
7.5°	31459.8	29668.3	26429.7	24479.4	23718.4
10°	31528.7	28502.9	24206.8	22127.6	21417.6
12.5°	31579.6	27190.7	22250.4	20114.4	19335.4
15°	31654.5	25800.6	20491.9	18224.0	17397.1
17.5°	31723.4	24491.4	18754.2	16384.5	15464.8
20°	31792.3	23080.3	17016.6	14575.0	13817.0
22.5°	31858.3	21591.3	15321.0	13169.9	12651.6
25°	31864.2	19949.6	13721.2	12178.3	11791.8
27.5°	31786.3	18247.9	12423.9	11348.4	11108.7
30°	31651.5	16597.2	11417.3	10749.2	10578.5
32.5°	31316.0	14913.5	10638.4	10171.0	10072.2
35°	30722.8	13262.8	9958.3	9646.8	9643.8
37.5°	29788.1	11797.8	9221.3	9167.4	9233.3
40°	28407.0	10515.6	8523.3	8667.1	8667.1
42.5°	26564.5	9401.1	7891.2	8038.0	7999.0
45°	24287.6	8400.5	7217.1	7390.9	7516.7
47.5°	21648.3	7519.7	6528.0	6863.6	7037.3
50°	18778.2	6680.8	5898.9	6327.3	6525.0
52.5°	15770.3	5904.9	5284.7	5776.1	5934.8
55°	12858.3	5206.8	4709.5	5108.0	5290.7
57.5°	10222.0	4541.8	4146.3	4523.8	4901.3
60°	7954.1	3969.5	3616.0	4155.3	4532.8
62.5°	6075.7	3460.2	3118.7	3810.8	4188.2
65°	4598.7	3019.9	2726.3	3493.2	3882.7
67.5°	3466.2	2639.4	2420.7	3262.5	3643.0
70°	2603.4	2270.9	2175.0	3118.7	3460.2
72.5°	1923.4	1932.3	1980.3	2992.9	3253.5
75°	1420.0	1626.8	1830.5	2843.1	3013.9
77.5°	1015.6	1348.1	1695.7	2663.3	2723.3
80°	704.0	1099.5	1554.9	2426.7	2375.7
82.5°	440.4	880.8	1429.0	2166.0	2025.2
85°	248.7	674.1	1339.2	1863.4	1710.7
87.5°	110.8	503.3	1171.4	1453.0	1357.1
90°	0.0	281.6	775.9	1093.5	1102.5
92.5°	6.0	233.7	716.0	1000.6	1030.6
95°	12.0	197.7	683.1	928.7	970.7
97.5°	15.0	173.8	641.1	862.8	898.8
100°	18.0	155.8	590.2	793.9	823.9
102.5°	21.0	143.8	542.3	722.0	746.0
105°	24.0	131.8	497.3	659.1	677.1



TEST NUMBER: P830564

CATALOG NUMBER: OHBL-48SE-N-UNV-L835-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	30.0	101.9	374.5	473.3	488.3
115°	33.0	92.9	335.5	419.4	428.4
117.5°	36.0	80.9	293.6	368.5	371.5
120°	36.0	71.9	251.7	314.6	314.6
122.5°	36.0	59.9	209.7	260.6	257.6
125°	36.0	47.9	170.8	215.7	212.7
127.5°	33.0	38.9	137.8	179.8	176.8
130°	33.0	38.9	110.8	152.8	152.8
132.5°	30.0	36.0	89.9	131.8	131.8
135°	30.0	36.0	74.9	116.8	116.8
137.5°	30.0	38.9	62.9	101.9	101.9
140°	30.0	36.0	53.9	89.9	89.9
142.5°	33.0	36.0	47.9	77.9	77.9
145°	36.0	38.9	44.9	68.9	65.9
147.5°	36.0	41.9	44.9	59.9	56.9
150°	36.0	44.9	44.9	53.9	50.9
152.5°	36.0	44.9	44.9	50.9	47.9
155°	36.0	44.9	47.9	50.9	44.9
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°	24.0	122.8	455.4	590.2	611.2
110°	27.0	110.8	416.4	527.3	548.2



(END OF REPORT)