

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: P830582

Luminaire Tested: **OHBL-48SE-NL-UNV-L950-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P472951)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-48SE-NL-UNV-L950-CD
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 5000K LEDS AND NO LENS
Light Source: -
Ballast/Driver: -

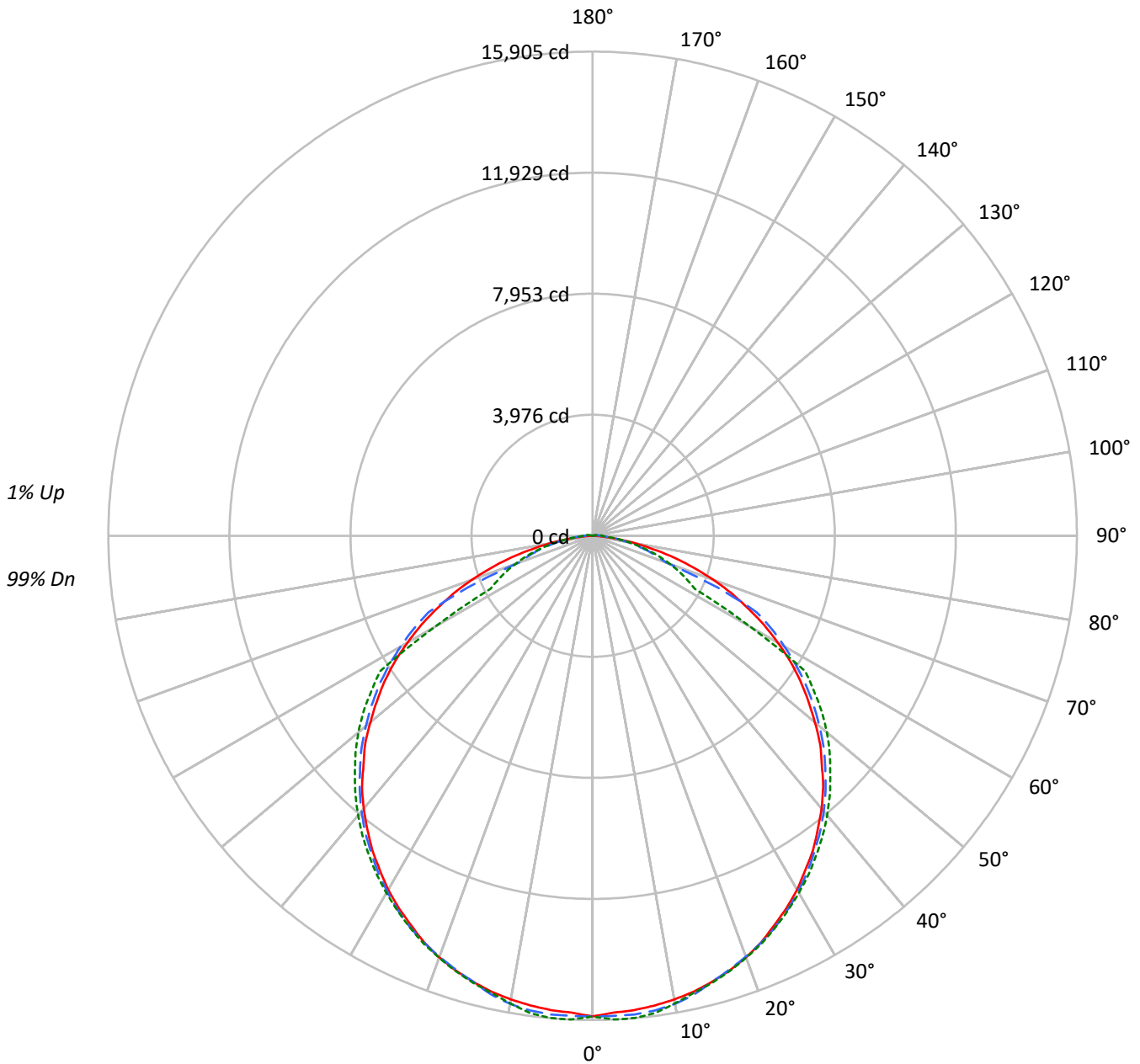
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44328.0 lumens
Efficiency: N/A
Efficacy: 153.5 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.28 / 1.39
Luminous Opening: Rectangular (W 1.67' x L: 3.78' x H: 0')
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	111	111	111	106	106	106	102	102	102	99				99
1	109	105	100	97	106	102	99	95	98	95	92	94	91	89	90	88	86	84				84
2	99	92	85	79	97	90	84	78	86	81	76	83	78	75	80	76	73	71				71
3	91	81	73	66	88	79	72	66	76	70	64	73	68	63	70	66	62	60				60
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51				51
5	76	64	55	48	74	63	54	48	60	53	47	58	52	47	57	51	46	44				44
6	71	57	49	42	69	56	48	42	55	47	42	53	46	41	51	45	41	39				39
7	65	52	43	37	64	51	43	37	50	42	37	48	41	36	47	41	36	34				34
8	61	47	39	33	59	47	39	33	45	38	33	44	37	33	43	37	32	30				30
9	57	43	35	30	55	43	35	30	42	35	30	41	34	29	40	34	29	27				27
10	53	40	32	27	52	40	32	27	39	32	27	38	31	27	37	31	26	25				25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	26967	26967	26967
5°	26818	27060	27264
10°	26825	27080	27046
15°	26821	26816	26874
20°	26784	26743	26809
25°	26601	26736	26757
30°	26478	26614	26718
35°	26306	26450	26699
40°	26079	26326	26715
45°	25703	26091	26660
50°	25315	25831	26685
55°	24831	25475	26391
60°	23999	24851	20546
65°	22706	24027	13827
70°	21002	12755	13420
75°	18319	12121	12816
80°	14087	11119	11745
85°	7110	11237	11507



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1500.0	3.4
10°-20°	4294.8	9.7
20°-30°	6534.9	14.7
30°-40°	7945.5	17.9
40°-50°	8354.4	18.8
50°-60°	7628.5	17.2
60°-70°	4890.3	11.0
70°-80°	2310.1	5.2
80°-90°	640.6	1.4
90°-100°	169.6	0.4
100°-110°	46.4	0.1
110°-120°	12.9	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	12329.7	27.8
0°-40°	20275.2	45.7
0°-60°	36258.1	81.8
0°-90°	44099.0	99.5
90°-120°	229.0	0.5
90°-150°	229.0	0.5
90°-180°	229.0	0.5
0°-180°	44328.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	15788	15788	15788	15788	15788	
5°	15642	15703	15783	15869	15902	###
15°	15168	15281	15165	15187	15198	4282
25°	14115	14137	14187	14209	14198	6513
35°	12616	12542	12686	12841	12805	7884
45°	10641	10622	10802	11056	11037	8225
55°	8339	8275	8555	8840	8863	7437
65°	5618	5618	5945	3410	3421	5570
75°	2776	2829	1837	1934	1942	2926
85°	363	460	573	621	587	536
90°	0	155	255	302	296	16
95°	8	80	183	247	247	5
105°	14	30	44	44	42	14
115°	14	19	28	19	3	10
125°	0	0	0	0	0	0
135°	0	0	0	0	0	0
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	15788.5	15788.5	15788.5	15788.5	15788.5
2.5°	15677.6	15730.4	15788.5	15863.3	15904.6
5°	15641.5	15702.6	15782.9	15868.9	15902.0
7.5°	15564.1	15649.8	15727.5	15788.5	15807.9
10°	15467.0	15569.7	15614.0	15608.4	15594.6
12.5°	15336.8	15445.0	15431.2	15367.3	15378.4
15°	15167.9	15281.4	15165.2	15187.2	15198.4
17.5°	14968.4	15079.3	14943.5	14987.8	14990.7
20°	14735.8	14818.8	14713.5	14749.6	14749.6
22.5°	14456.0	14514.1	14469.8	14494.7	14500.3
25°	14115.2	14137.2	14187.0	14209.3	14198.2
27.5°	13788.4	13760.6	13857.6	13910.1	13882.3
30°	13425.3	13381.0	13494.5	13580.5	13547.3
32.5°	13009.7	12982.1	13112.3	13214.7	13195.4
35°	12616.4	12541.6	12685.6	12840.7	12804.7
37.5°	12150.9	12106.6	12270.0	12433.6	12414.3
40°	11696.5	11621.8	11807.4	12001.3	11981.9
42.5°	11209.1	11120.2	11322.6	11555.5	11533.2
45°	10640.9	10621.6	10801.7	11056.5	11037.2
47.5°	10137.0	10039.9	10291.9	10538.6	10560.9
50°	9527.2	9491.5	9721.4	10020.6	10042.6
52.5°	8931.8	8906.9	9147.7	9449.8	9488.5
55°	8338.8	8275.1	8554.9	8840.3	8862.6
57.5°	7704.6	7638.0	7923.4	8233.8	8280.7
60°	7025.6	6962.0	7274.9	7563.2	6014.6
62.5°	6346.9	6302.6	6629.6	4695.9	3784.6
65°	5618.3	5618.3	5945.1	3410.3	3421.4
67.5°	4937.0	4892.7	4432.8	3063.9	3063.9
70°	4205.5	4222.2	2554.1	2684.7	2687.3
72.5°	3471.3	3532.3	2205.4	2310.4	2316.0
75°	2775.9	2828.7	1836.7	1933.8	1942.0
77.5°	2039.1	1568.0	1476.5	1551.6	1554.2
80°	1432.2	989.0	1130.4	1202.3	1194.1
82.5°	836.5	692.5	828.3	881.1	878.2
85°	362.8	459.9	573.4	620.6	587.2
87.5°	116.2	285.4	357.2	385.1	382.2
90°	0.0	155.2	254.9	301.8	296.5
92.5°	0.0	121.7	221.7	277.2	279.8
95°	8.2	80.4	183.0	246.7	246.7
97.5°	5.6	58.1	130.2	193.9	199.4
100°	5.6	46.9	85.9	138.4	141.4
102.5°	13.8	38.7	52.5	88.6	91.5
105°	13.8	30.5	44.3	44.3	41.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	16.7	22.3	30.5	22.3	2.6
115°	13.8	19.4	27.6	19.4	2.6
117.5°	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0
122.5°	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0
127.5°	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0
132.5°	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
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°	13.8	27.6	38.7	24.9	8.2
110°	16.7	24.9	33.1	22.3	2.6



(END OF REPORT)