

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: P830544

Luminaire Tested: **OHBL-48SE-MCL-UNV-L935-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830544
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-MCL-UNV-L935-CD
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

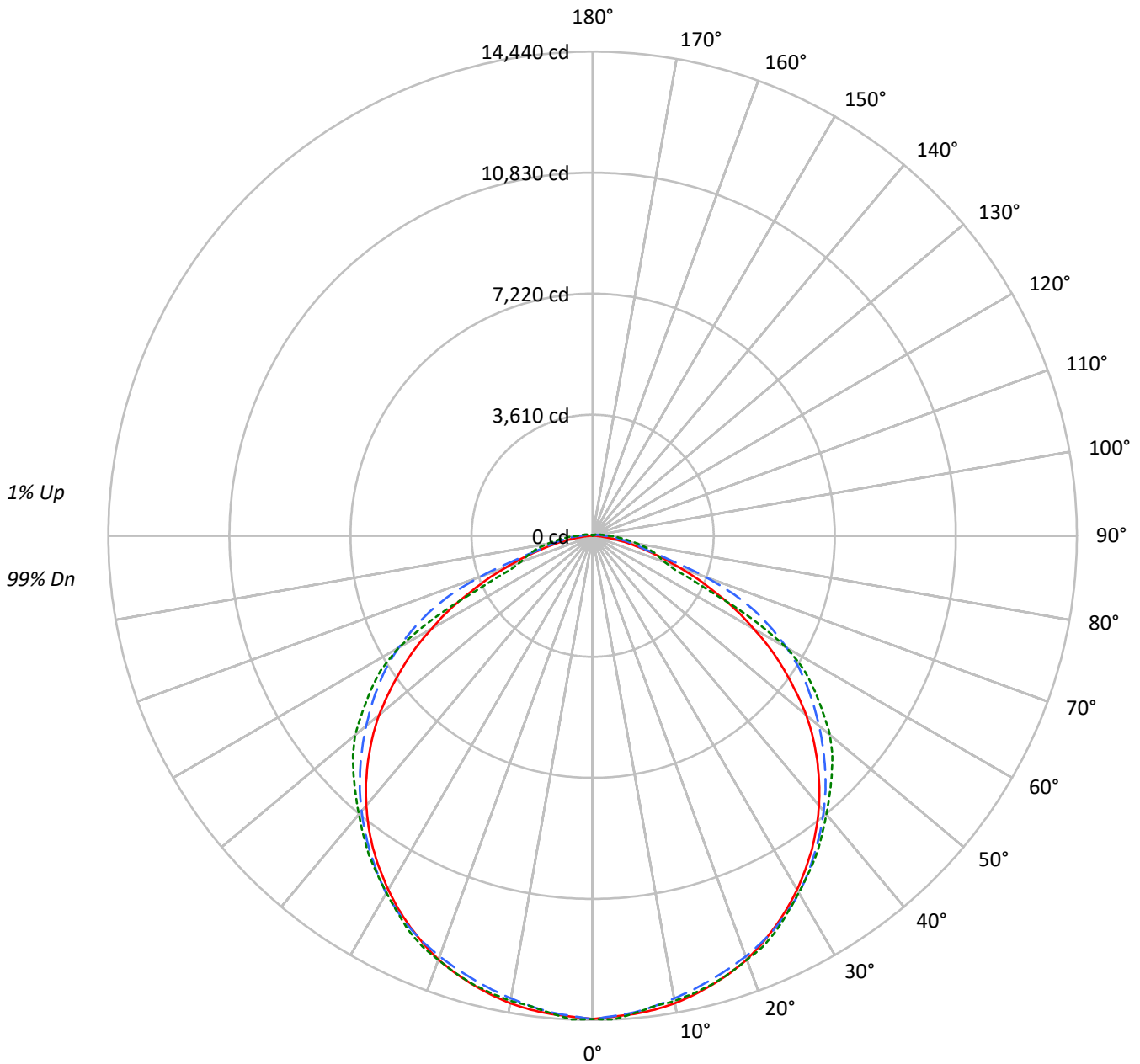
Lumens per Lamp: N/A
Luminaire Lumens: 40732.0 lumens
Efficiency: N/A
Efficacy: 141.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

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Luminous Intensity Polar Plot





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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°	24614	24614	24614
5°	24453	24245	24292
10°	24363	23867	24007
15°	24209	23582	23830
20°	24054	23398	23604
25°	23764	23212	23378
30°	23448	22926	22919
35°	23071	22479	22657
40°	22580	22016	22305
45°	21900	21482	22136
50°	20979	20875	21935
55°	19514	20275	21088
60°	17597	19403	19463
65°	15095	17803	12308
70°	12159	13869	8897
75°	9116	8209	8992
80°	6345	6793	8527
85°	3611	6169	7888



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1358.8	3.3
10°-20°	3896.5	9.6
20°-30°	5951.1	14.6
30°-40°	7220.8	17.7
40°-50°	7568.0	18.6
50°-60°	6857.8	16.8
60°-70°	4597.9	11.3
70°-80°	2064.7	5.1
80°-90°	749.2	1.8
90°-100°	225.5	0.6
100°-110°	106.4	0.3
110°-120°	53.3	0.1
120°-130°	29.4	0.1
130°-140°	20.2	0.0
140°-150°	13.6	0.0
150°-160°	10.1	0.0
160°-170°	6.5	0.0
170°-180°	2.1	0.0
0°-30°	11206.4	27.5
0°-40°	18427.2	45.2
0°-60°	32853.1	80.7
0°-90°	40264.8	98.9
90°-120°	385.2	0.9
90°-150°	448.5	1.1
90°-180°	467.0	1.1
0°-180°	40732.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	14411	14411	14411	14411	14411	
5°	14317	14367	14267	14311	14292	###
15°	13853	13798	13700	13821	13838	3911
25°	12869	12813	12902	13021	12984	5932
35°	11406	11433	11550	11673	11627	7129
45°	9466	9620	9800	10050	10081	7292
55°	6966	7301	7799	8112	8093	6218
65°	4088	4728	5368	4530	3699	4074
75°	1609	2334	1717	1757	1871	1758
85°	277	531	681	823	863	338
90°	2	177	352	442	463	17
95°	2	110	242	294	302	3
105°	8	48	119	144	150	10
115°	17	25	60	77	81	16
125°	15	17	38	44	46	15
135°	19	21	23	33	35	15
145°	19	21	21	23	25	12
155°	21	23	23	23	21	10
165°	23	23	23	23	23	6
175°	23	23	21	19	19	2
180°	21	21	21	21	21	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	14411.0	14411.0	14411.0	14411.0	14411.0
2.5°	14352.7	14413.1	14338.1	14419.4	14440.2
5°	14317.2	14367.3	14267.2	14311.0	14292.2
7.5°	14252.7	14269.3	14150.6	14186.0	14148.5
10°	14156.8	14148.5	14008.9	14077.6	14086.0
12.5°	14015.1	13990.1	13865.1	13969.3	13971.4
15°	13852.6	13798.4	13700.5	13821.3	13838.0
17.5°	13665.0	13594.2	13529.6	13685.9	13660.9
20°	13446.3	13362.9	13350.4	13521.3	13458.8
22.5°	13175.4	13110.8	13139.9	13302.5	13262.9
25°	12869.1	12812.8	12902.4	13021.2	12983.7
27.5°	12546.1	12512.7	12614.8	12706.5	12633.6
30°	12191.9	12173.1	12308.5	12383.6	12291.9
32.5°	11806.4	11812.6	11941.8	12043.9	11958.5
35°	11406.3	11433.4	11550.1	11673.0	11627.2
37.5°	10966.6	11027.1	11143.7	11283.4	11235.4
40°	10502.0	10589.5	10718.7	10887.4	10843.7
42.5°	9999.8	10110.2	10276.9	10464.4	10460.3
45°	9466.3	9620.5	9799.7	10049.8	10081.0
47.5°	8912.1	9085.0	9312.2	9645.5	9693.5
50°	8309.9	8526.6	8810.0	9210.0	9239.2
52.5°	7638.9	7934.8	8309.9	8693.3	8657.9
55°	6965.9	7301.4	7799.4	8111.9	8093.2
57.5°	6294.9	6672.1	7276.4	7499.3	7497.2
60°	5544.8	6022.0	6682.5	6851.3	6684.6
62.5°	4850.9	5363.5	6049.0	5926.1	5355.2
65°	4088.3	4728.0	5367.7	4530.0	3698.6
67.5°	3411.1	4077.8	4559.2	3102.7	2656.7
70°	2729.7	3465.2	3554.8	2302.5	2271.3
72.5°	2125.4	2908.9	2452.5	1971.2	2071.2
75°	1608.6	2333.8	1717.0	1756.6	1871.2
77.5°	1173.1	1792.0	1335.7	1539.9	1633.6
80°	806.4	1269.0	1089.8	1294.0	1358.6
82.5°	506.3	837.7	873.1	1041.9	1108.5
85°	277.1	531.3	681.4	823.1	862.7
87.5°	114.6	320.9	520.9	635.5	668.9
90°	2.1	177.1	352.1	441.7	462.6
92.5°	2.1	135.4	287.6	356.3	370.9
95°	2.1	110.4	241.7	293.8	302.1
97.5°	4.2	87.5	202.1	243.8	252.1
100°	6.3	72.9	168.8	204.2	210.5
102.5°	8.3	58.3	141.7	170.9	177.1
105°	8.3	47.9	118.8	143.8	150.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	14.6	29.2	70.8	89.6	93.8
115°	16.7	25.0	60.4	77.1	81.3
117.5°	16.7	20.8	52.1	64.6	68.8
120°	16.7	18.8	45.8	56.3	58.3
122.5°	16.7	16.7	39.6	50.0	52.1
125°	14.6	16.7	37.5	43.8	45.8
127.5°	16.7	16.7	33.3	39.6	41.7
130°	16.7	18.8	29.2	37.5	37.5
132.5°	18.8	20.8	27.1	35.4	35.4
135°	18.8	20.8	22.9	33.3	35.4
137.5°	20.8	20.8	20.8	31.3	33.3
140°	20.8	20.8	18.8	27.1	29.2
142.5°	18.8	20.8	18.8	25.0	27.1
145°	18.8	20.8	20.8	22.9	25.0
147.5°	20.8	20.8	20.8	20.8	22.9
150°	20.8	20.8	20.8	20.8	20.8
152.5°	20.8	20.8	20.8	20.8	20.8
155°	20.8	22.9	22.9	22.9	20.8
157.5°	20.8	22.9	22.9	22.9	22.9
160°	20.8	22.9	22.9	22.9	22.9
162.5°	22.9	22.9	22.9	22.9	22.9
165°	22.9	22.9	22.9	22.9	22.9
167.5°	22.9	25.0	22.9	22.9	22.9
170°	22.9	22.9	22.9	20.8	20.8
172.5°	22.9	22.9	22.9	20.8	20.8
175°	22.9	22.9	20.8	18.8	18.8
177.5°	25.0	22.9	20.8	18.8	16.7
180°	20.8	20.8	20.8	20.8	20.8



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	10.4	39.6	102.1	122.9	127.1
110°	12.5	33.3	85.4	104.2	108.4



(END OF REPORT)