

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: P830543

Luminaire Tested: **OHBL-48SE-MCL-UNV-L930-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830543
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-L930-CD
Description: 48000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

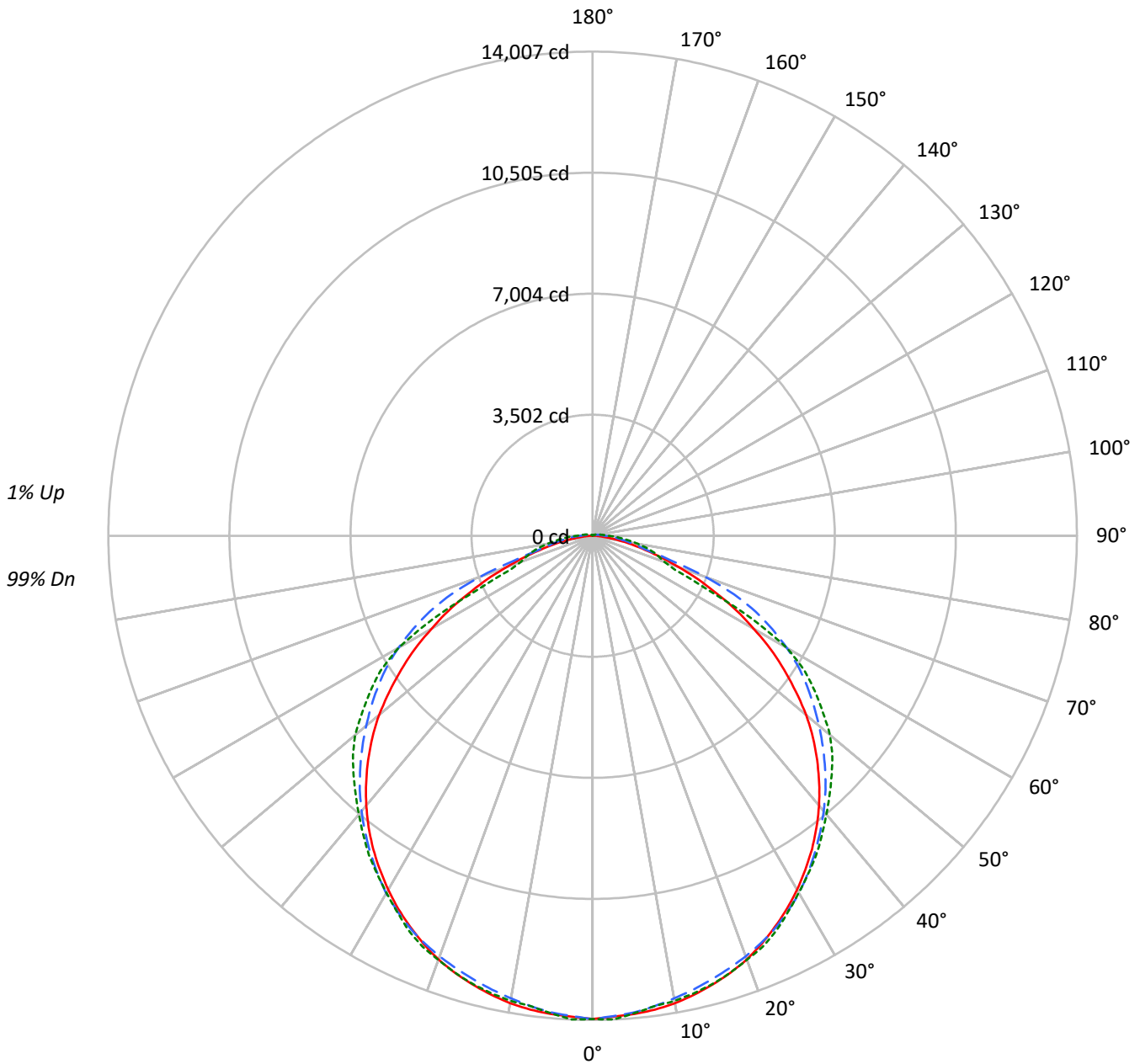
Lumens per Lamp: N/A
Luminaire Lumens: 39510.0 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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°	23875	23875	23875
5°	23719	23518	23563
10°	23632	23151	23286
15°	23482	22874	23115
20°	23332	22696	22895
25°	23051	22516	22677
30°	22745	22239	22231
35°	22379	21805	21977
40°	21903	21356	21636
45°	21243	20837	21472
50°	20349	20248	21277
55°	18929	19666	20455
60°	17069	18821	18879
65°	14642	17269	11938
70°	11794	13453	8630
75°	8842	7963	8722
80°	6155	6590	8270
85°	3503	5983	7651



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1318.1	3.3
10°-20°	3779.6	9.6
20°-30°	5772.6	14.6
30°-40°	7004.1	17.7
40°-50°	7341.0	18.6
50°-60°	6652.1	16.8
60°-70°	4459.9	11.3
70°-80°	2002.7	5.1
80°-90°	726.8	1.8
90°-100°	218.8	0.6
100°-110°	103.2	0.3
110°-120°	51.7	0.1
120°-130°	28.5	0.1
130°-140°	19.6	0.0
140°-150°	13.2	0.0
150°-160°	9.8	0.0
160°-170°	6.3	0.0
170°-180°	2.0	0.0
0°-30°	10870.2	27.5
0°-40°	17874.4	45.2
0°-60°	31867.4	80.7
0°-90°	39056.9	98.9
90°-120°	373.7	0.9
90°-150°	435.1	1.1
90°-180°	453.0	1.1
0°-180°	39510.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	13979	13979	13979	13979	13979	
5°	13888	13936	13839	13882	13864	###
15°	13437	13384	13289	13407	13423	3794
25°	12483	12428	12515	12630	12594	5754
35°	11064	11090	11204	11323	11278	6915
45°	9182	9332	9506	9748	9779	7074
55°	6757	7082	7565	7869	7850	6031
65°	3966	4586	5207	4394	3588	3951
75°	1560	2264	1666	1704	1815	1705
85°	269	515	661	798	837	328
90°	2	172	342	428	449	16
95°	2	107	234	285	293	3
105°	8	46	115	140	146	9
115°	16	24	59	75	79	15
125°	14	16	36	42	44	14
135°	18	20	22	32	34	14
145°	18	20	20	22	24	12
155°	20	22	22	22	20	9
165°	22	22	22	22	22	6
175°	22	22	20	18	18	2
180°	20	20	20	20	20	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	13978.7	13978.7	13978.7	13978.7	13978.7
2.5°	13922.1	13980.7	13907.9	13986.8	14007.0
5°	13887.7	13936.2	13839.2	13881.7	13863.5
7.5°	13825.1	13841.2	13726.0	13760.4	13724.0
10°	13732.1	13724.0	13588.6	13655.3	13663.4
12.5°	13594.6	13570.4	13449.1	13550.2	13552.2
15°	13437.0	13384.4	13289.4	13406.7	13422.8
17.5°	13255.1	13186.4	13123.7	13275.3	13251.0
20°	13042.9	12962.0	12949.9	13115.6	13055.0
22.5°	12780.1	12717.4	12745.7	12903.4	12865.0
25°	12483.0	12428.4	12515.3	12630.5	12594.1
27.5°	12169.7	12137.4	12236.4	12325.3	12254.6
30°	11826.1	11807.9	11939.3	12012.0	11923.1
32.5°	11452.2	11458.2	11583.5	11682.6	11599.7
35°	11064.1	11090.4	11203.6	11322.8	11278.3
37.5°	10637.6	10696.2	10809.4	10944.8	10898.4
40°	10186.9	10271.8	10397.1	10560.8	10518.4
42.5°	9699.8	9806.9	9968.6	10150.5	10146.5
45°	9182.3	9331.9	9505.7	9748.3	9778.6
47.5°	8644.7	8812.5	9032.8	9356.2	9402.7
50°	8060.6	8270.8	8545.7	8933.7	8962.0
52.5°	7409.7	7696.8	8060.6	8432.5	8398.1
55°	6756.9	7082.3	7565.4	7868.6	7850.4
57.5°	6106.1	6471.9	7058.1	7274.3	7272.3
60°	5378.4	5841.3	6482.0	6645.7	6484.0
62.5°	4705.4	5202.6	5867.6	5748.3	5194.5
65°	3965.6	4586.1	5206.6	4394.1	3587.6
67.5°	3308.7	3955.5	4422.4	3009.6	2577.0
70°	2647.8	3361.3	3448.2	2233.4	2203.1
72.5°	2061.6	2821.6	2379.0	1912.1	2009.1
75°	1560.4	2263.8	1665.5	1703.9	1815.0
77.5°	1137.9	1738.2	1295.6	1493.7	1584.6
80°	782.2	1230.9	1057.1	1255.2	1317.8
82.5°	491.2	812.5	846.9	1010.6	1075.3
85°	268.8	515.4	660.9	798.4	836.8
87.5°	111.2	311.3	505.3	616.5	648.8
90°	2.0	171.8	341.6	428.5	448.7
92.5°	2.0	131.4	278.9	345.6	359.8
95°	2.0	107.1	234.5	285.0	293.1
97.5°	4.0	84.9	196.1	236.5	244.6
100°	6.1	70.7	163.7	198.1	204.1
102.5°	8.1	56.6	137.4	165.7	171.8
105°	8.1	46.5	115.2	139.5	145.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	14.1	28.3	68.7	86.9	91.0
115°	16.2	24.3	58.6	74.8	78.8
117.5°	16.2	20.2	50.5	62.7	66.7
120°	16.2	18.2	44.5	54.6	56.6
122.5°	16.2	16.2	38.4	48.5	50.5
125°	14.1	16.2	36.4	42.4	44.5
127.5°	16.2	16.2	32.3	38.4	40.4
130°	16.2	18.2	28.3	36.4	36.4
132.5°	18.2	20.2	26.3	34.4	34.4
135°	18.2	20.2	22.2	32.3	34.4
137.5°	20.2	20.2	20.2	30.3	32.3
140°	20.2	20.2	18.2	26.3	28.3
142.5°	18.2	20.2	18.2	24.3	26.3
145°	18.2	20.2	20.2	22.2	24.3
147.5°	20.2	20.2	20.2	20.2	22.2
150°	20.2	20.2	20.2	20.2	20.2
152.5°	20.2	20.2	20.2	20.2	20.2
155°	20.2	22.2	22.2	22.2	20.2
157.5°	20.2	22.2	22.2	22.2	22.2
160°	20.2	22.2	22.2	22.2	22.2
162.5°	22.2	22.2	22.2	22.2	22.2
165°	22.2	22.2	22.2	22.2	22.2
167.5°	22.2	24.3	22.2	22.2	22.2
170°	22.2	22.2	22.2	20.2	20.2
172.5°	22.2	22.2	22.2	20.2	20.2
175°	22.2	22.2	20.2	18.2	18.2
177.5°	24.3	22.2	20.2	18.2	16.2
180°	20.2	20.2	20.2	20.2	20.2



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	10.1	38.4	99.0	119.3	123.3
110°	12.1	32.3	82.9	101.1	105.1



(END OF REPORT)