

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: P830832

Luminaire Tested: **OHBL-90SE-MCL-UNV-L935-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830832
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-90SE-MCL-UNV-L935-CD
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

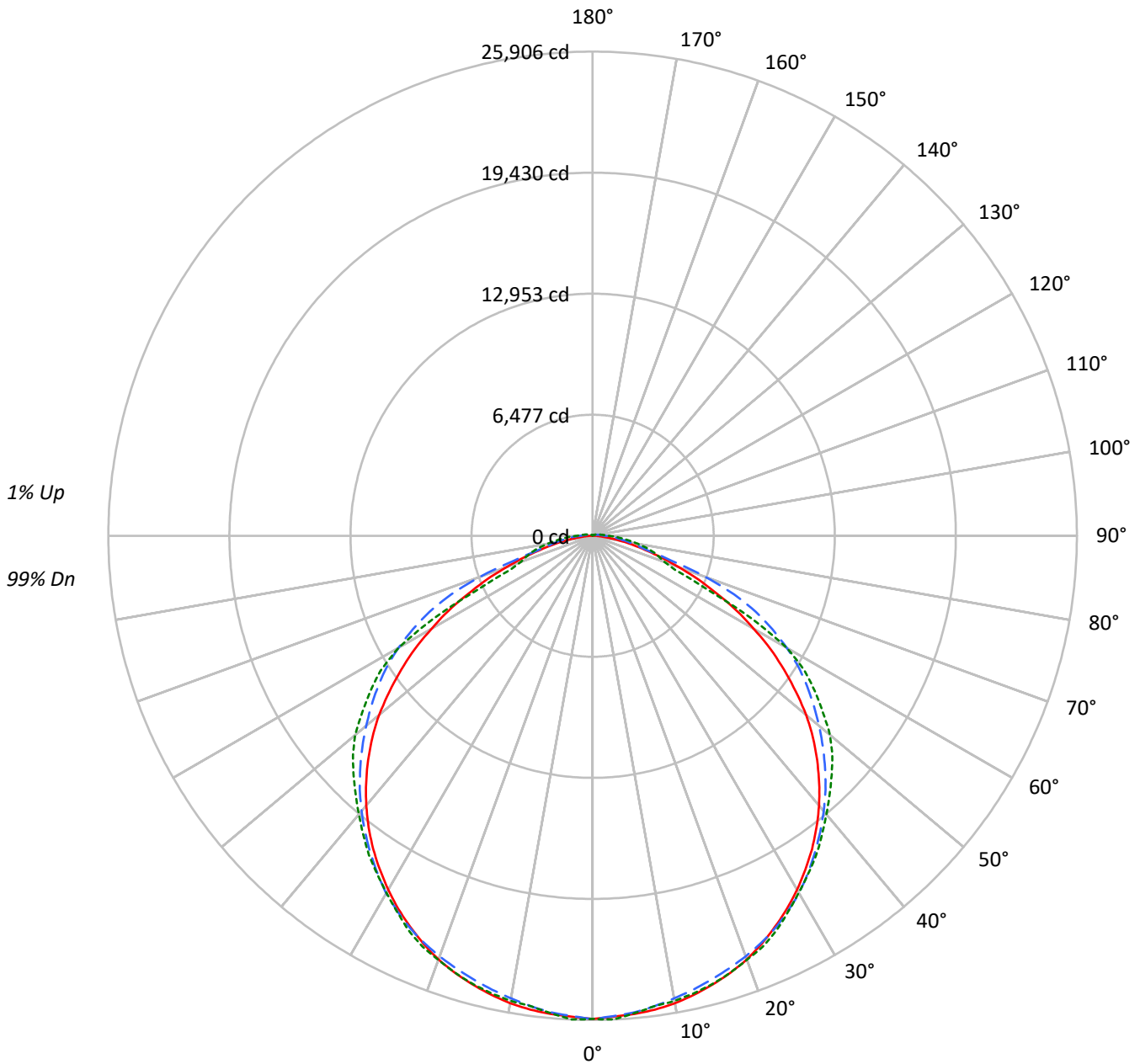
Lumens per Lamp: N/A
Luminaire Lumens: 73073.0 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 529
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°	40886	40886	40886
5°	40619	40292	40377
10°	40470	39682	39929
15°	40213	39226	39661
20°	39956	38938	39310
25°	39474	38648	38962
30°	38950	38192	38225
35°	38323	37468	37819
40°	37508	36720	37265
45°	36379	35854	37020
50°	34848	34869	36727
55°	32415	33899	35356
60°	29231	32481	32687
65°	25075	29848	20716
70°	20197	23300	15019
75°	15142	13832	15243
80°	10540	11501	14554
85°	5999	10538	13642



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2437.7	3.3
10°-20°	6990.2	9.6
20°-30°	10676.3	14.6
30°-40°	12954.0	17.7
40°-50°	13577.1	18.6
50°-60°	12302.9	16.8
60°-70°	8248.6	11.3
70°-80°	3704.0	5.1
80°-90°	1344.1	1.8
90°-100°	404.6	0.6
100°-110°	190.9	0.3
110°-120°	95.7	0.1
120°-130°	52.8	0.1
130°-140°	36.3	0.0
140°-150°	24.4	0.0
150°-160°	18.1	0.0
160°-170°	11.6	0.0
170°-180°	3.7	0.0
0°-30°	20104.3	27.5
0°-40°	33058.3	45.2
0°-60°	58938.2	80.7
0°-90°	72234.9	98.9
90°-120°	691.2	0.9
90°-150°	804.6	1.1
90°-180°	838.0	1.1
0°-180°	73073.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25853	25853	25853	25853	25853	
5°	25685	25775	25595	25674	25640	###
15°	24852	24754	24579	24795	24825	7017
25°	23087	22986	23147	23360	23293	10642
35°	20463	20511	20721	20941	20859	12790
45°	16983	17259	17581	18029	18085	13082
55°	12497	13099	13992	14553	14519	11155
65°	7334	8482	9630	8127	6635	7308
75°	2886	4187	3080	3151	3357	3154
85°	497	953	1222	1477	1548	607
90°	4	318	632	792	830	30
95°	4	198	434	527	542	5
105°	15	86	213	258	269	17
115°	30	45	108	138	146	28
125°	26	30	67	78	82	26
135°	34	37	41	60	64	27
145°	34	37	37	41	45	22
155°	37	41	41	41	37	17
165°	41	41	41	41	41	11
175°	41	41	37	34	34	4
180°	37	37	37	37	37	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	25853.3	25853.3	25853.3	25853.3	25853.3
2.5°	25748.6	25857.0	25722.5	25868.2	25905.6
5°	25685.1	25774.8	25595.4	25673.9	25640.2
7.5°	25569.2	25599.1	25386.0	25449.6	25382.3
10°	25397.2	25382.3	25131.8	25255.2	25270.1
12.5°	25143.0	25098.2	24873.9	25060.8	25064.5
15°	24851.5	24754.3	24578.6	24795.4	24825.3
17.5°	24515.0	24387.9	24272.0	24552.4	24507.5
20°	24122.5	23973.0	23950.6	24257.1	24144.9
22.5°	23636.5	23520.7	23573.0	23864.6	23793.5
25°	23087.0	22986.1	23146.8	23359.9	23292.6
27.5°	22507.6	22447.8	22631.0	22795.5	22664.6
30°	21872.1	21838.5	22081.5	22216.0	22051.6
32.5°	21180.6	21191.8	21423.5	21606.7	21453.4
35°	20462.8	20511.4	20720.8	20941.3	20859.1
37.5°	19674.1	19782.5	19991.8	20242.3	20156.3
40°	18840.5	18997.5	19229.2	19532.0	19453.5
42.5°	17939.6	18137.7	18436.7	18773.2	18765.7
45°	16982.6	17259.2	17580.7	18029.3	18085.3
47.5°	15988.2	16298.5	16705.9	17304.1	17390.0
50°	14907.9	15296.7	15805.0	16522.8	16575.1
52.5°	13704.2	14235.0	14907.9	15595.7	15532.2
55°	12496.8	13098.6	13992.0	14552.8	14519.1
57.5°	11293.1	11969.7	13053.7	13453.7	13450.0
60°	9947.3	10803.4	11988.4	12291.2	11992.1
62.5°	8702.5	9622.1	10852.0	10631.4	9607.1
65°	7334.3	8481.9	9629.6	8126.8	6635.3
67.5°	6119.4	7315.6	8179.1	5566.2	4766.2
70°	4897.0	6216.6	6377.3	4130.7	4074.6
72.5°	3812.9	5218.5	4399.8	3536.3	3715.8
75°	2885.9	4186.8	3080.3	3151.3	3356.9
77.5°	2104.6	3214.8	2396.2	2762.5	2930.7
80°	1446.7	2276.6	1955.1	2321.4	2437.3
82.5°	908.4	1502.8	1566.3	1869.1	1988.7
85°	497.2	953.2	1222.4	1476.6	1547.6
87.5°	205.6	575.7	934.5	1140.1	1200.0
90°	3.7	317.7	631.8	792.5	829.9
92.5°	3.7	243.0	515.9	639.2	665.4
95°	3.7	198.1	433.6	527.1	542.0
97.5°	7.5	157.0	362.6	437.4	452.3
100°	11.2	130.8	302.8	366.3	377.6
102.5°	15.0	104.7	254.2	306.5	317.7
105°	15.0	86.0	213.1	257.9	269.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	26.2	52.3	127.1	160.7	168.2
115°	29.9	44.9	108.4	138.3	145.8
117.5°	29.9	37.4	93.5	115.9	123.4
120°	29.9	33.6	82.2	100.9	104.7
122.5°	29.9	29.9	71.0	89.7	93.5
125°	26.2	29.9	67.3	78.5	82.2
127.5°	29.9	29.9	59.8	71.0	74.8
130°	29.9	33.6	52.3	67.3	67.3
132.5°	33.6	37.4	48.6	63.5	63.5
135°	33.6	37.4	41.1	59.8	63.5
137.5°	37.4	37.4	37.4	56.1	59.8
140°	37.4	37.4	33.6	48.6	52.3
142.5°	33.6	37.4	33.6	44.9	48.6
145°	33.6	37.4	37.4	41.1	44.9
147.5°	37.4	37.4	37.4	37.4	41.1
150°	37.4	37.4	37.4	37.4	37.4
152.5°	37.4	37.4	37.4	37.4	37.4
155°	37.4	41.1	41.1	41.1	37.4
157.5°	37.4	41.1	41.1	41.1	41.1
160°	37.4	41.1	41.1	41.1	41.1
162.5°	41.1	41.1	41.1	41.1	41.1
165°	41.1	41.1	41.1	41.1	41.1
167.5°	41.1	44.9	41.1	41.1	41.1
170°	41.1	41.1	41.1	37.4	37.4
172.5°	41.1	41.1	41.1	37.4	37.4
175°	41.1	41.1	37.4	33.6	33.6
177.5°	44.9	41.1	37.4	33.6	29.9
180°	37.4	37.4	37.4	37.4	37.4



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	18.7	71.0	183.2	220.6	228.0
110°	22.4	59.8	153.3	186.9	194.4



(END OF REPORT)