

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: P830844

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-90SE-MFL-UNV-L935-CD
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3500K LEDS AND MEDIUM FROSTED LENS
Light Source: -
Ballast/Driver: -

Summary

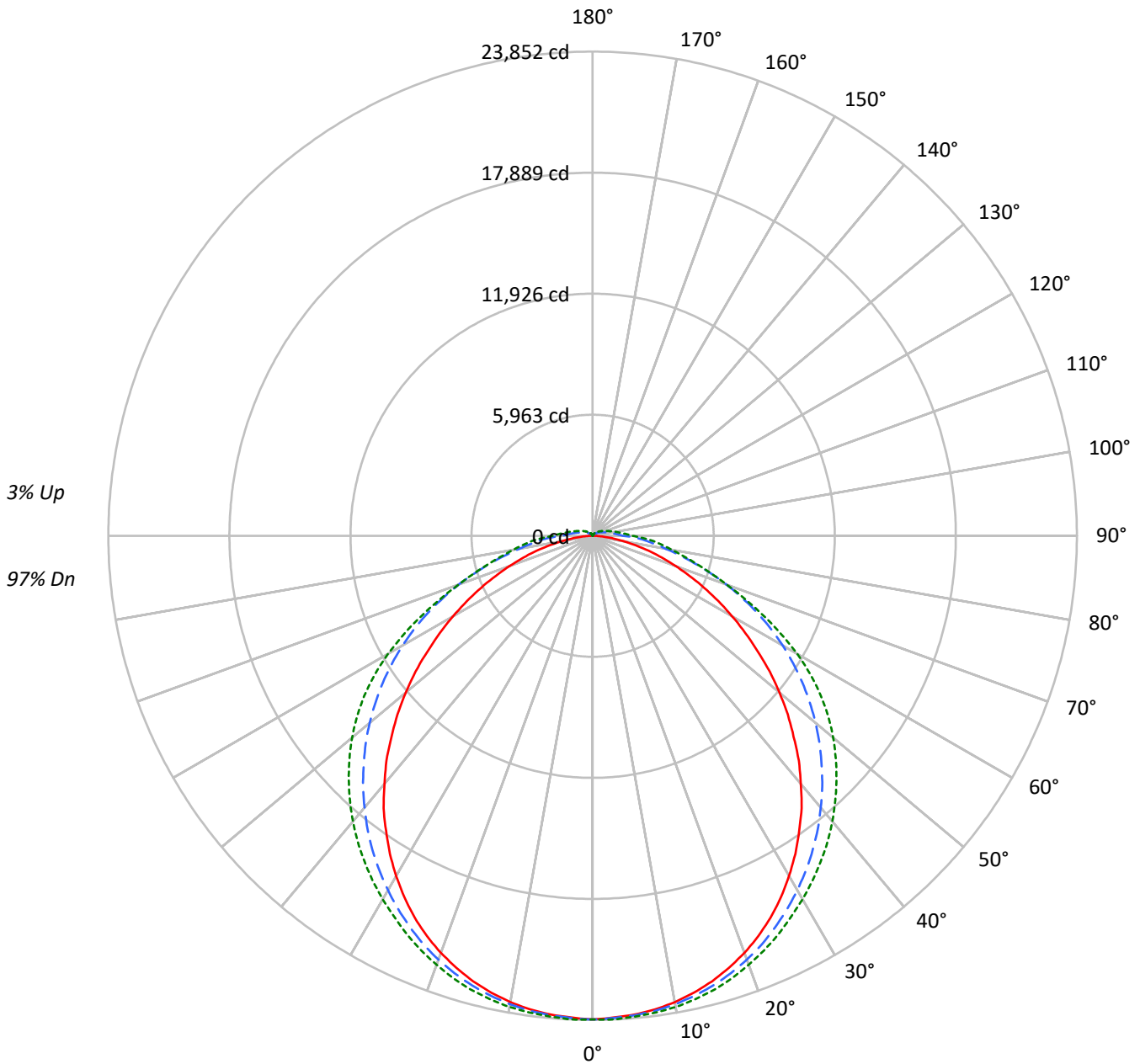
Lumens per Lamp: N/A
Luminaire Lumens: 71315.0 lumens
Efficiency: N/A
Efficacy: 134.8 lumens/watt
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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					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	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	99	99	99	97		
1	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	86	84	82	86	84	82	80		
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	75	72	68	75	72	68	66		
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	67	62	58	67	62	58	56		
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	59	54	50	59	54	50	47		
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	53	48	43	53	48	43	41		
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	48	43	38	48	43	38	36		
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	44	38	34	44	38	34	32		
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	41	35	30	41	35	30	28		
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	37	32	27	37	32	27	25		
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	35	29	25	35	29	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	37684	37684	37684
5°	37443	37328	37442
10°	37181	36998	37245
15°	36765	36605	36988
20°	36214	36123	36611
25°	35478	35522	36230
30°	34458	34870	35847
35°	33224	34177	35516
40°	31742	33375	35190
45°	29994	32505	34774
50°	28082	31625	34269
55°	25731	30547	33415
60°	23323	29278	31712
65°	20696	27656	28913
70°	17847	25590	25881
75°	14963	23202	23833
80°	11345	21476	23645
85°	7177	22322	26422



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2257.9	3.2
10°-20°	6477.6	9.1
20°-30°	9796.2	13.7
30°-40°	11760.4	16.5
40°-50°	12146.6	17.0
50°-60°	10928.1	15.3
60°-70°	8232.0	11.5
70°-80°	4970.7	7.0
80°-90°	2431.1	3.4
90°-100°	1023.3	1.4
100°-110°	584.1	0.8
110°-120°	342.9	0.5
120°-130°	193.9	0.3
130°-140°	102.1	0.1
140°-150°	49.6	0.1
150°-160°	18.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	18531.6	26.0
0°-40°	30292.0	42.5
0°-60°	53366.7	74.8
0°-90°	69000.5	96.8
90°-120°	1950.3	2.7
90°-150°	2296.0	3.2
90°-180°	2314.0	3.2
0°-180°	71315.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23829	23829	23829	23829	23829	
5°	23677	23741	23712	23805	23776	###
15°	22721	22831	22936	23129	23152	6406
25°	20749	20977	21274	21607	21659	9544
35°	17740	18154	18901	19472	19589	11090
45°	14002	14708	15938	16807	16988	10810
55°	9920	10946	12608	13559	13722	8894
65°	6053	7290	8923	9366	9261	6014
75°	2852	4094	5167	5301	5249	3042
85°	595	1569	2589	2945	2998	687
90°	0	612	1481	1866	1942	38
95°	29	414	1108	1411	1464	25
105°	41	239	642	840	875	41
115°	47	134	397	531	554	48
125°	47	64	239	344	362	42
135°	41	52	122	210	233	32
145°	58	52	58	105	122	35
155°	58	64	58	52	58	18
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	23828.6	23828.6	23828.6	<i>23828.6</i>	23828.6
2.5°	<i>23758.6</i>	<i>23816.9</i>	<i>23782.0</i>	<i>23857.8</i>	<i>23851.9</i>
5°	23677.0	23741.1	23712.0	<i>23805.3</i>	23776.1
7.5°	23537.0	23607.0	23601.2	<i>23706.1</i>	23694.5
10°	23332.9	23408.7	23432.1	<i>23572.0</i>	23572.0
12.5°	23053.0	23152.1	23210.4	<i>23379.6</i>	23385.4
15°	22720.6	22831.4	22936.4	<i>23128.8</i>	23152.1
17.5°	22318.2	22458.1	22603.9	<i>22825.5</i>	22854.7
20°	21863.3	22020.8	22219.0	<i>22452.3</i>	22487.3
22.5°	21338.4	21525.1	21781.7	<i>22055.8</i>	22096.6
25°	20749.4	20976.9	21274.3	<i>21606.7</i>	21659.2
27.5°	20078.8	20341.2	20743.6	<i>21116.8</i>	21163.5
30°	19349.8	19658.9	20160.4	<i>20603.6</i>	20679.5
32.5°	18580.0	18935.8	19553.9	<i>20049.6</i>	20154.6
35°	17740.2	18154.3	18900.8	<i>19472.3</i>	19588.9
37.5°	16912.1	17367.0	18212.6	<i>18865.8</i>	19005.7
40°	15944.1	16509.7	17477.8	<i>18201.0</i>	18370.1
42.5°	15034.3	15646.6	16743.0	<i>17530.3</i>	17693.6
45°	14002.1	14707.7	15938.2	<i>16807.2</i>	16987.9
47.5°	13034.0	13798.0	15162.6	<i>16060.7</i>	16247.3
50°	12013.4	12853.2	14334.5	<i>15273.4</i>	15465.9
52.5°	10992.9	11896.8	13477.2	<i>14451.1</i>	14631.9
55°	9919.8	10946.2	12608.3	<i>13558.9</i>	13722.2
57.5°	8922.6	10007.3	11716.0	<i>12619.9</i>	12719.1
60°	7937.0	9062.6	10806.3	<i>11599.4</i>	11634.4
62.5°	6974.8	8158.6	9873.2	<i>10503.0</i>	10456.4
65°	6053.4	7289.7	8922.6	<i>9365.8</i>	9260.9
67.5°	5166.9	6444.1	7948.7	<i>8234.5</i>	8094.5
70°	4327.2	5621.8	7004.0	<i>7149.7</i>	7021.5
72.5°	3586.5	4840.4	6047.5	<i>6170.0</i>	6076.7
75°	2851.7	4093.9	5166.9	<i>5301.1</i>	5248.6
77.5°	2163.6	3370.8	4356.3	<i>4531.3</i>	4542.9
80°	1557.1	2711.8	3650.7	<i>3924.8</i>	3959.8
82.5°	1026.4	2105.3	3061.7	<i>3411.6</i>	3464.1
85°	594.8	1568.7	2589.3	<i>2945.0</i>	2997.5
87.5°	256.6	1131.4	2081.9	<i>2402.7</i>	2466.8
90°	0.0	612.3	1481.3	<i>1866.2</i>	1942.0
92.5°	17.5	507.4	1271.3	<i>1621.2</i>	1685.4
95°	29.2	414.1	1108.0	<i>1411.3</i>	1463.8
97.5°	35.0	349.9	962.2	<i>1230.5</i>	1283.0
100°	35.0	303.3	833.9	<i>1078.9</i>	1125.5
102.5°	35.0	268.3	729.0	<i>944.7</i>	985.6
105°	40.8	239.1	641.5	<i>839.8</i>	874.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	46.7	157.5	443.2	594.8	618.2
115°	46.7	134.1	396.6	530.7	554.0
117.5°	52.5	116.6	349.9	478.2	495.7
120°	52.5	99.1	309.1	425.7	449.0
122.5°	52.5	81.6	274.1	384.9	402.4
125°	46.7	64.1	239.1	344.1	361.6
127.5°	40.8	52.5	204.1	309.1	326.6
130°	40.8	46.7	175.0	274.1	291.6
132.5°	40.8	52.5	145.8	239.1	262.4
135°	40.8	52.5	122.5	209.9	233.3
137.5°	40.8	52.5	99.1	180.8	204.1
140°	46.7	52.5	81.6	151.6	175.0
142.5°	52.5	52.5	64.1	128.3	145.8
145°	58.3	52.5	58.3	105.0	122.5
147.5°	58.3	58.3	58.3	81.6	99.1
150°	58.3	64.1	58.3	64.1	81.6
152.5°	58.3	64.1	58.3	52.5	64.1
155°	58.3	64.1	58.3	52.5	58.3
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°	40.8	209.9	565.7	746.5	775.6
110°	40.8	186.6	501.5	664.8	694.0



(END OF REPORT)