

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: P830877

Luminaire Tested: **OHBL-90SE-W-UNV-L840-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830877
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-4)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-90SE-W-UNV-L840-CD
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 4000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

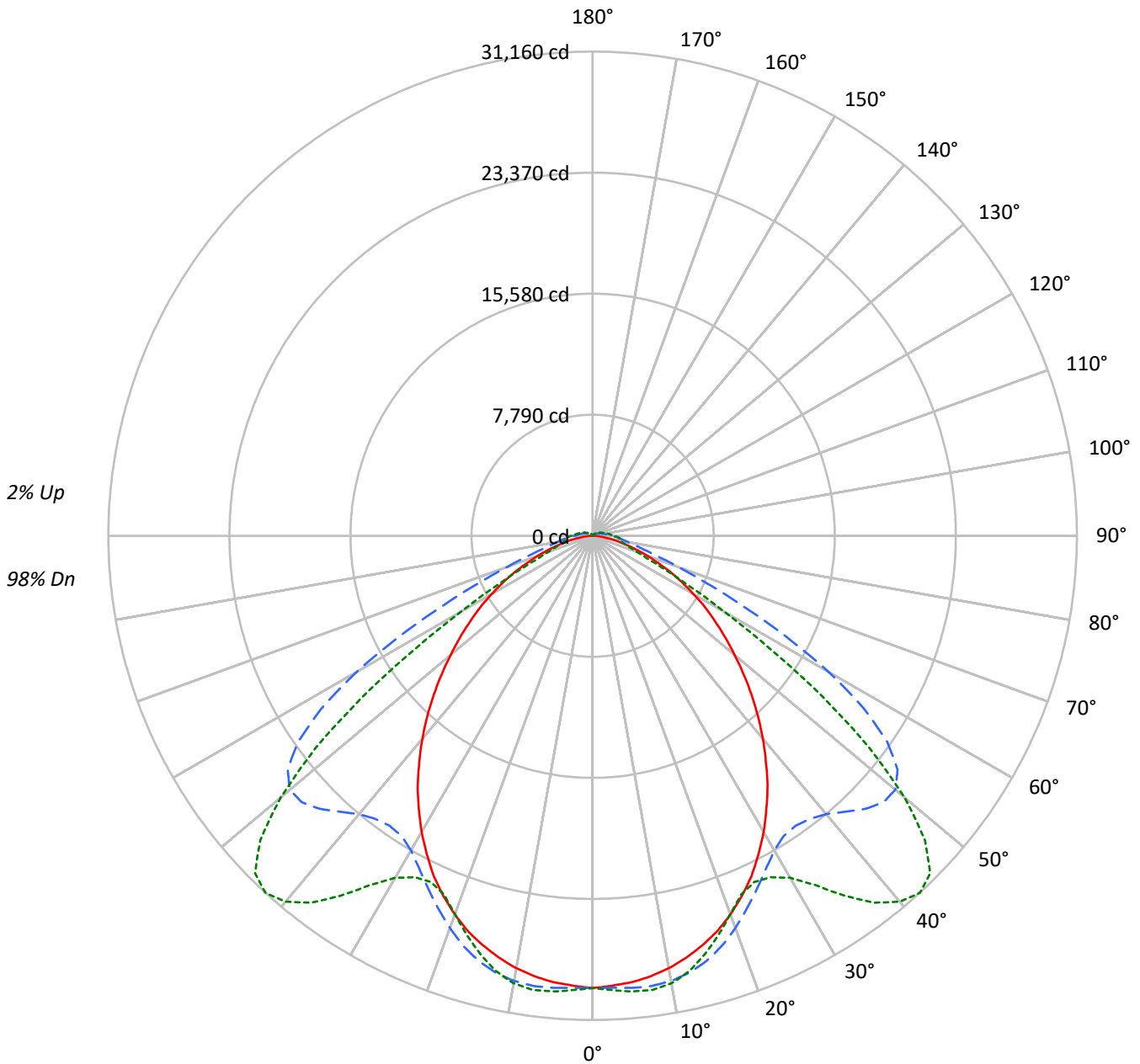
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 87150.1 lumens
Efficiency: N/A
Efficacy: 164.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.58 / 1.62
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	105	105	105	100	100	100	98																			
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85	83																			
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72	70																			
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	59																			
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52	50																			
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45	43																			
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	38																			
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35	33																			
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29																			
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28	26																			
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	46031	46031	46031
5°	45603	45988	46360
10°	45030	45938	46218
15°	44152	45199	44545
20°	42949	43666	42174
25°	41338	41805	41135
30°	39196	40426	44043
35°	36752	41197	51257
40°	33917	44645	58896
45°	30953	50677	62871
50°	27861	56082	58037
55°	24955	56065	43919
60°	21996	47486	26531
65°	18872	32837	15822
70°	15333	21269	11180
75°	11664	15284	10038
80°	8373	13484	10724
85°	5683	14942	15112



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2781.5	3.2
10°-20°	7876.2	9.0
20°-30°	11525.5	13.2
30°-40°	14968.3	17.2
40°-50°	18278.2	21.0
50°-60°	16096.8	18.5
60°-70°	8388.2	9.6
70°-80°	3597.1	4.1
80°-90°	1727.5	2.0
90°-100°	811.6	0.9
100°-110°	504.5	0.6
110°-120°	298.3	0.3
120°-130°	162.1	0.2
130°-140°	81.4	0.1
140°-150°	39.1	0.0
150°-160°	13.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	22183.2	25.5
0°-40°	37151.6	42.6
0°-60°	71526.6	82.1
0°-90°	85239.4	97.8
90°-120°	1614.3	1.9
90°-150°	1897.0	2.2
90°-180°	1911.0	2.2
0°-180°	87150.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29106	29106	29106	29106	29106	
5°	28836	29056	29213	29471	29439	###
15°	27285	28052	28322	28108	27882	7683
25°	24177	25471	25037	24566	24591	11095
35°	19624	21696	22783	26570	28271	12231
45°	14450	18180	24849	30086	30714	11142
55°	9620	15925	23141	20290	18035	8634
65°	5520	11034	10594	5890	5068	5461
75°	2223	5162	3404	2330	2210	2424
85°	471	1840	1733	1696	1714	525
90°	6	666	1143	1306	1338	33
95°	13	389	911	1068	1099	9
105°	25	220	590	710	722	26
115°	38	126	364	446	458	39
125°	44	63	214	276	283	37
135°	38	38	100	170	176	29
145°	50	38	44	82	94	29
155°	50	50	38	38	38	15
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°	29106.5	29106.5	29106.5	29106.5	29106.5
2.5°	28980.9	29106.5	29112.8	29288.6	29269.8
5°	28836.5	29056.3	29213.3	29470.7	29439.3
7.5°	28597.9	28943.2	29219.5	29502.1	29477.0
10°	28258.7	28729.7	29093.9	29326.3	29250.9
12.5°	27819.2	28440.9	28798.8	28849.0	28704.6
15°	27285.4	28051.5	28321.5	28108.0	27882.0
17.5°	26682.5	27580.5	27674.7	27210.0	26927.4
20°	25929.0	26952.6	26858.4	26217.8	25903.9
22.5°	25093.8	26261.8	25960.4	25288.4	24987.0
25°	24176.9	25470.6	25037.2	24566.3	24591.4
27.5°	23103.1	24572.5	24151.8	24365.3	24767.2
30°	22010.4	23630.6	23373.1	24616.5	25407.8
32.5°	20811.0	22663.5	22895.9	25351.2	26644.9
35°	19624.1	21696.4	22782.8	26569.5	28271.3
37.5°	18311.7	20716.8	22964.9	27976.2	29759.6
40°	17036.9	19762.3	23379.4	29238.4	30745.5
42.5°	15737.0	18908.2	24076.5	29985.7	31160.0
45°	14449.6	18179.8	24848.9	30086.1	30714.1
47.5°	13162.3	17564.4	25382.6	29288.6	28999.8
50°	11918.9	17018.0	25420.3	27373.3	26192.7
52.5°	10757.2	16515.7	24729.5	24321.4	22487.7
55°	9620.5	15925.4	23140.8	20289.8	18035.4
57.5°	8584.4	15109.0	20691.7	15956.8	13495.1
60°	7485.4	14003.8	17526.7	11674.0	9733.6
62.5°	6474.4	12628.5	13978.7	8126.0	6995.6
65°	5519.9	11033.5	10593.9	5890.4	5067.7
67.5°	4508.8	9381.9	7818.3	4295.3	3767.8
70°	3717.6	7849.7	5821.3	3340.8	3033.1
72.5°	2907.5	6392.8	4351.8	2712.8	2543.3
75°	2223.0	5161.9	3403.6	2329.8	2210.5
77.5°	1639.0	4081.8	2738.0	2059.7	1946.7
80°	1149.2	3215.2	2292.1	1840.0	1796.0
82.5°	772.4	2486.8	1953.0	1752.0	1758.3
85°	471.0	1840.0	1733.2	1695.5	1714.4
87.5°	226.1	1306.2	1488.3	1544.8	1563.7
90°	6.3	665.7	1142.9	1306.2	1337.6
92.5°	0.0	508.7	1004.8	1168.0	1199.4
95°	12.6	389.3	910.6	1067.6	1099.0
97.5°	12.6	320.3	816.4	979.6	998.5
100°	18.8	276.3	728.4	885.4	904.3
102.5°	18.8	244.9	653.1	791.2	803.8
105°	25.1	219.8	590.3	709.6	722.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	37.7	150.7	414.5	502.4	514.9
115°	37.7	125.6	364.2	445.9	458.4
117.5°	44.0	113.0	320.3	395.6	401.9
120°	44.0	94.2	276.3	351.7	357.9
122.5°	44.0	75.4	244.9	314.0	320.3
125°	44.0	62.8	213.5	276.3	282.6
127.5°	37.7	44.0	182.1	244.9	251.2
130°	37.7	37.7	150.7	213.5	226.1
132.5°	37.7	37.7	125.6	188.4	201.0
135°	37.7	37.7	100.5	169.6	175.8
137.5°	37.7	37.7	81.6	144.4	157.0
140°	37.7	37.7	62.8	125.6	131.9
142.5°	44.0	37.7	56.5	106.8	113.0
145°	50.2	37.7	44.0	81.6	94.2
147.5°	50.2	44.0	44.0	69.1	75.4
150°	50.2	50.2	37.7	50.2	62.8
152.5°	50.2	50.2	37.7	37.7	50.2
155°	50.2	50.2	37.7	37.7	37.7
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°	31.4	194.7	527.5	634.3	646.8
110°	31.4	169.6	464.7	565.2	577.7



(END OF REPORT)