

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: P830872

Luminaire Tested: **OHBL-90SE-W-UNV-L735-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830872
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-L735-CD
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3500K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

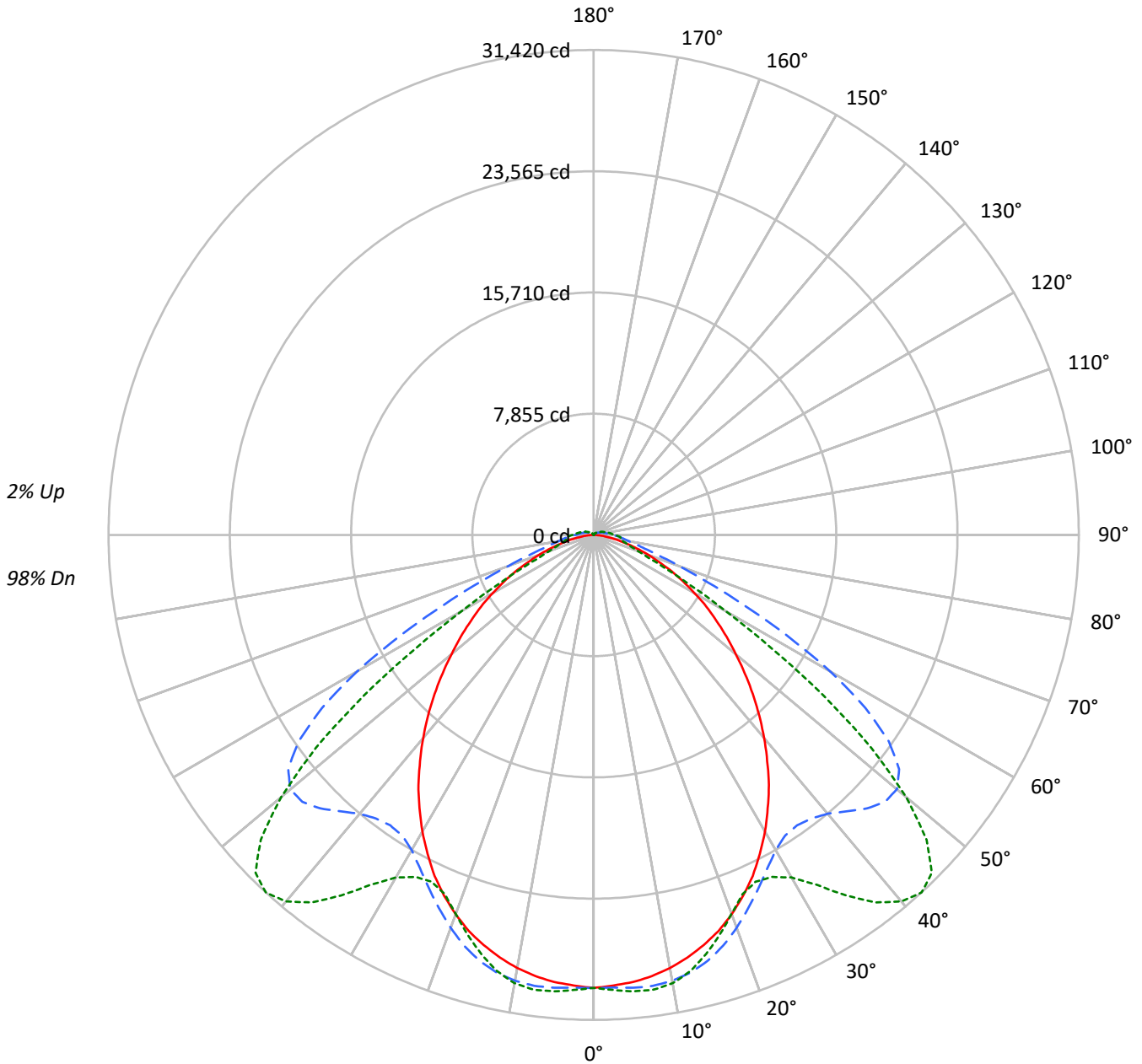
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 87876.0 lumens
Efficiency: N/A
Efficacy: 166.1 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 (Ain): 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				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	0
RCR																					
0	119	119	119	119	116	116	116	116	110	110	110	105	105	105	100	100	100	100	100	100	98
1	109	104	100	96	106	102	98	95	97	94	91	93	90	88	89	87	85	85	85	85	83
2	99	91	85	79	96	89	83	78	85	80	76	82	77	74	78	75	72	72	72	72	70
3	90	80	72	66	88	78	71	65	75	69	64	72	67	62	69	65	61	61	61	61	59
4	83	71	62	56	80	69	61	55	67	60	54	64	58	53	62	57	52	52	52	52	50
5	76	63	54	48	74	62	54	47	60	52	47	57	51	46	55	50	45	45	45	45	43
6	70	57	48	41	68	56	47	41	54	46	41	52	45	40	50	44	40	40	40	40	38
7	65	51	43	36	63	50	42	36	49	41	36	47	40	35	45	40	35	35	35	35	33
8	60	47	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	31	31	31	29
9	56	43	34	29	55	42	34	29	41	34	28	39	33	28	38	32	28	28	28	28	26
10	52	39	31	26	51	39	31	26	38	31	26	36	30	26	35	30	25	25	25	25	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	46415	46415	46415
5°	45982	46371	46746
10°	45405	46321	46604
15°	44520	45576	44916
20°	43306	44029	42525
25°	41682	42153	41477
30°	39523	40763	44410
35°	37058	41540	51684
40°	34200	45017	59387
45°	31210	51099	63395
50°	28093	56549	58521
55°	25163	56532	44284
60°	22180	47882	26752
65°	19029	33110	15954
70°	15461	21446	11273
75°	11761	15411	10121
80°	8443	13596	10814
85°	5730	15066	15237



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2804.6	3.2
10°-20°	7941.9	9.0
20°-30°	11621.6	13.2
30°-40°	15093.0	17.2
40°-50°	18430.5	21.0
50°-60°	16230.9	18.5
60°-70°	8458.0	9.6
70°-80°	3627.1	4.1
80°-90°	1741.9	2.0
90°-100°	818.4	0.9
100°-110°	508.6	0.6
110°-120°	300.8	0.3
120°-130°	163.5	0.2
130°-140°	82.0	0.1
140°-150°	39.5	0.0
150°-160°	13.8	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	22368.0	25.5
0°-40°	37461.1	42.6
0°-60°	72122.5	82.1
0°-90°	85949.5	97.8
90°-120°	1627.8	1.9
90°-150°	1912.7	2.2
90°-180°	1927.0	2.2
0°-180°	87876.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	29349	29349	29349	29349	29349	
5°	29077	29298	29457	29716	29685	###
15°	27513	28285	28558	28342	28114	7747
25°	24378	25683	25246	24771	24796	11188
35°	19788	21877	22973	26791	28507	12333
45°	14570	18331	25056	30337	30970	11235
55°	9701	16058	23334	20459	18186	8706
65°	5566	11125	10682	5939	5110	5507
75°	2242	5205	3432	2349	2229	2444
85°	475	1855	1748	1710	1729	529
90°	6	671	1152	1317	1349	33
95°	13	393	918	1076	1108	9
105°	25	222	595	716	728	27
115°	38	127	367	450	462	39
125°	44	63	215	279	285	38
135°	38	38	101	171	177	29
145°	51	38	44	82	95	30
155°	51	51	38	38	38	16
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830872

CATALOG NUMBER: OHBL-90SE-W-UNV-L735-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	29349.0	29349.0	29349.0	29349.0	29349.0
2.5°	29222.3	29349.0	29355.3	29532.6	29513.6
5°	29076.7	29298.3	29456.6	29716.2	29684.6
7.5°	28836.1	29184.3	29463.0	29747.9	29722.6
10°	28494.2	28969.1	29336.3	29570.6	29494.6
12.5°	28050.9	28677.8	29038.7	29089.4	28943.7
15°	27512.7	28285.2	28557.5	28342.2	28114.2
17.5°	26904.8	27810.3	27905.3	27436.7	27151.8
20°	26145.0	27177.1	27082.1	26436.2	26119.6
22.5°	25302.8	26480.6	26176.6	25499.1	25195.2
25°	24378.3	25682.7	25245.8	24770.9	24796.2
27.5°	23295.6	24777.3	24353.0	24568.3	24973.5
30°	22193.8	23827.4	23567.8	24821.6	25619.4
32.5°	20984.4	22852.3	23086.6	25562.4	26866.8
35°	19787.6	21877.2	22972.6	26790.8	28506.8
37.5°	18464.2	20889.4	23156.2	28209.2	30007.5
40°	17178.8	19926.9	23574.2	29482.0	31001.6
42.5°	15868.1	19065.8	24277.0	30235.5	31419.6
45°	14570.0	18331.2	25055.9	30336.8	30970.0
47.5°	13271.9	17710.7	25594.1	29532.6	29241.3
50°	12018.2	17159.8	25632.1	27601.3	26410.9
52.5°	10846.8	16653.3	24935.6	24524.0	22675.0
55°	9700.7	16058.0	23333.5	20458.8	18185.6
57.5°	8655.9	15234.9	20864.1	16089.7	13607.5
60°	7547.8	14120.4	17672.7	11771.3	9814.7
62.5°	6528.3	12733.7	14095.1	8193.7	7053.9
65°	5565.9	11125.4	10682.1	5939.4	5110.0
67.5°	4546.4	9460.1	7883.4	4331.1	3799.2
70°	3748.6	7915.0	5869.8	3368.6	3058.4
72.5°	2931.7	6446.0	4388.1	2735.4	2564.5
75°	2241.5	5204.9	3432.0	2349.2	2228.9
77.5°	1652.7	4115.8	2760.8	2076.9	1962.9
80°	1158.8	3242.0	2311.2	1855.3	1811.0
82.5°	778.8	2507.5	1969.3	1766.6	1773.0
85°	474.9	1855.3	1747.6	1709.6	1728.6
87.5°	228.0	1317.1	1500.7	1557.7	1576.7
90°	6.3	671.2	1152.4	1317.1	1348.7
92.5°	0.0	512.9	1013.1	1177.8	1209.4
95°	12.7	392.6	918.1	1076.4	1108.1
97.5°	12.7	322.9	823.2	987.8	1006.8
100°	19.0	278.6	734.5	892.8	911.8
102.5°	19.0	246.9	658.5	797.8	810.5
105°	25.3	221.6	595.2	715.5	728.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	38.0	152.0	417.9	506.6	519.2
115°	38.0	126.6	367.3	449.6	462.2
117.5°	44.3	114.0	322.9	398.9	405.3
120°	44.3	95.0	278.6	354.6	360.9
122.5°	44.3	76.0	246.9	316.6	322.9
125°	44.3	63.3	215.3	278.6	284.9
127.5°	38.0	44.3	183.6	246.9	253.3
130°	38.0	38.0	152.0	215.3	228.0
132.5°	38.0	38.0	126.6	190.0	202.6
135°	38.0	38.0	101.3	171.0	177.3
137.5°	38.0	38.0	82.3	145.6	158.3
140°	38.0	38.0	63.3	126.6	133.0
142.5°	44.3	38.0	57.0	107.6	114.0
145°	50.7	38.0	44.3	82.3	95.0
147.5°	50.7	44.3	44.3	69.7	76.0
150°	50.7	50.7	38.0	50.7	63.3
152.5°	50.7	50.7	38.0	38.0	50.7
155°	50.7	50.7	38.0	38.0	38.0
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°	31.7	196.3	531.9	639.5	652.2
110°	31.7	171.0	468.6	569.9	582.5



(END OF REPORT)