

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: P830847

Luminaire Tested: **OHBL-90SE-N-UNV-L730-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830847
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-5)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-90SE-N-UNV-L730-CD
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

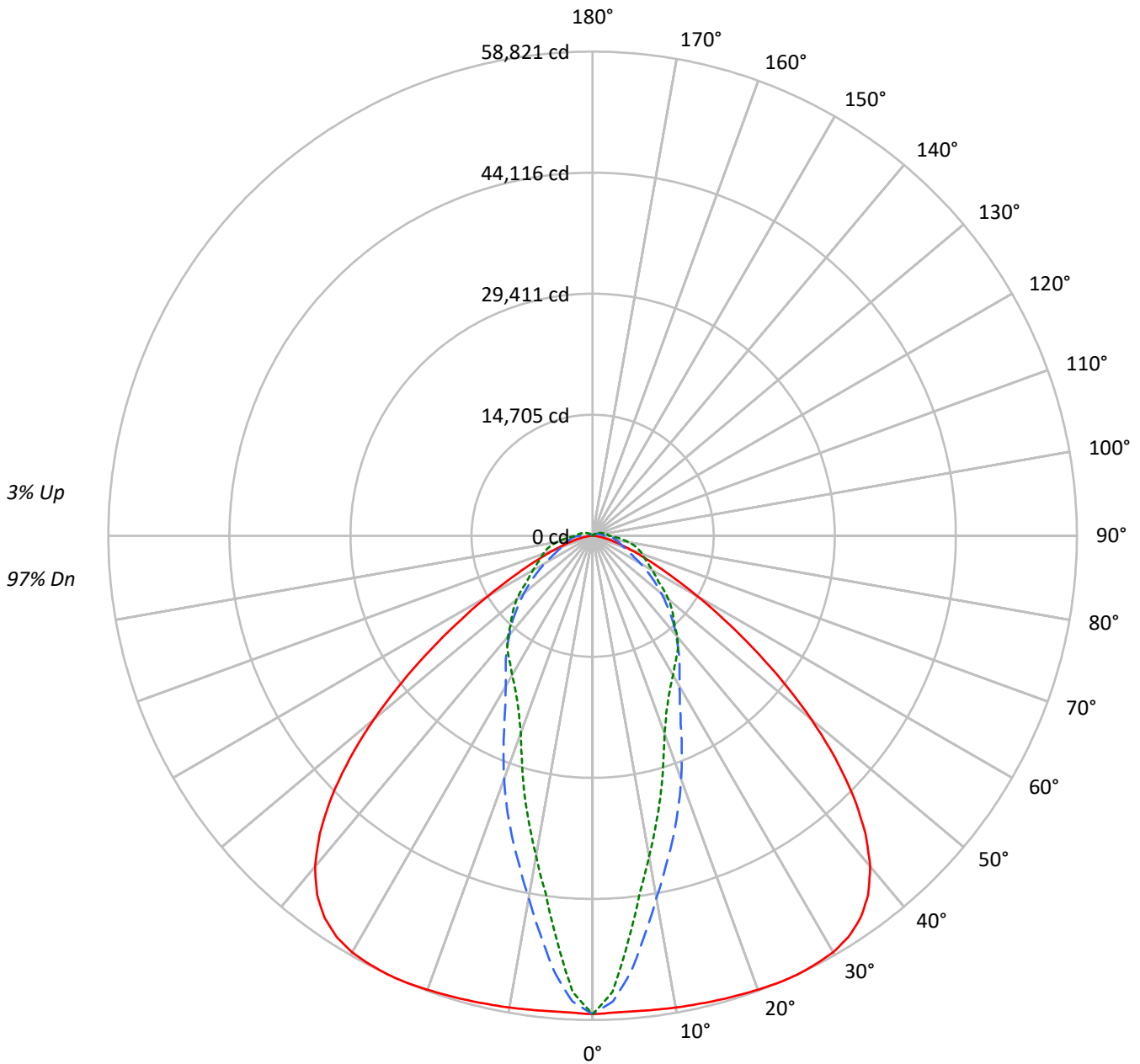
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 85761.0 lumens
Efficiency: N/A
Efficacy: 162.1 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
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	0
RCR																					
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	99	99	99	99	99	99	97
1	109	104	100	97	106	102	98	95	97	94	91	92	90	88	88	86	85	85	85	85	82
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	73	73	73	73	71
3	92	83	75	69	90	81	74	69	78	72	67	74	70	65	72	67	64	64	64	64	62
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	56	56	56	56	54
5	79	67	59	53	77	66	59	53	64	57	52	62	56	51	59	54	50	50	50	50	48
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	45	45	45	45	43
7	69	56	48	43	67	55	48	42	54	47	42	52	46	41	50	45	41	41	41	41	39
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	37	37	37	37	35
9	61	48	41	35	59	47	40	35	46	40	35	45	39	35	44	38	34	34	34	34	32
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	91896	91896	91896
5°	91709	83725	77858
10°	92744	70556	62471
15°	94555	60370	51307
20°	97211	51070	41526
25°	100573	42292	36411
30°	104049	36454	33850
35°	106215	33241	32277
40°	104397	30045	30649
45°	96041	27171	28403
50°	81029	24024	26690
55°	61570	21063	23783
60°	43147	18085	22808
65°	29023	15599	22377
70°	19821	14670	23545
75°	13755	15174	25264
80°	9469	16885	26187
85°	5538	21312	27835



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4891.4	5.7
10°-20°	11506.8	13.4
20°-30°	14423.7	16.8
30°-40°	15305.2	17.8
40°-50°	13838.3	16.1
50°-60°	10033.7	11.7
60°-70°	6296.6	7.3
70°-80°	4166.9	4.9
80°-90°	2400.6	2.8
90°-100°	1163.0	1.4
100°-110°	802.7	0.9
110°-120°	495.3	0.6
120°-130°	239.9	0.3
130°-140°	110.3	0.1
140°-150°	60.3	0.1
150°-160°	26.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	30822.0	35.9
0°-40°	46127.1	53.8
0°-60°	69999.1	81.6
0°-90°	82863.2	96.6
90°-120°	2461.1	2.9
90°-150°	2871.6	3.3
90°-180°	2898.0	3.4
0°-180°	85761.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	58108	58108	58108	58108	58108	
5°	57992	56504	53186	50719	49442	###
15°	58434	47628	37828	33641	32115	16571
25°	58821	36827	25329	22481	21768	27174
35°	56714	24483	18383	17808	17802	35256
45°	44835	15507	13323	13643	13876	34155
55°	23736	9612	8694	9429	9767	21447
65°	8489	5575	5033	6448	7167	8834
75°	2621	3003	3379	5248	5564	2922
85°	459	1244	2472	3440	3158	550
90°	0	520	1432	2019	2035	30
95°	22	365	1261	1714	1792	20
105°	44	243	918	1217	1250	45
115°	61	171	619	774	791	60
125°	66	88	315	398	393	58
135°	55	66	138	216	216	43
145°	66	72	83	127	122	40
155°	66	83	88	94	83	20
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°	58107.7	58107.7	58107.7	58107.7	58107.7
2.5°	57986.0	57654.2	56620.0	55989.5	55458.6
5°	57991.5	56503.8	53185.6	50719.1	49441.6
7.5°	58074.5	54767.3	48789.0	45188.7	43784.0
10°	58201.7	52616.0	44685.4	40847.4	39536.7
12.5°	58295.7	50193.7	41074.1	37130.9	35693.0
15°	58433.9	47627.6	37827.8	33641.3	32114.9
17.5°	58561.1	45210.8	34620.1	30245.6	28547.8
20°	58688.3	42606.0	31412.5	26905.3	25506.1
22.5°	58810.0	39857.4	28282.3	24311.5	23354.8
25°	58821.1	36826.8	25329.1	22481.0	21767.6
27.5°	58677.3	33685.5	22934.5	20949.1	20506.6
30°	58428.4	30638.3	21076.3	19843.0	19527.8
32.5°	57809.0	27530.2	19638.4	18775.6	18593.1
35°	56714.0	24483.0	18383.0	17807.8	17802.3
37.5°	54988.5	21778.6	17022.5	16922.9	17044.6
40°	52439.0	19411.6	15733.9	15999.4	15999.4
42.5°	49037.8	17354.3	14567.0	14838.0	14766.1
45°	44834.8	15507.2	13322.7	13643.4	13875.7
47.5°	39962.5	13881.2	12050.7	12670.1	12990.9
50°	34664.4	12332.7	10889.3	11680.2	12045.2
52.5°	29111.9	10900.4	9755.6	10662.6	10955.7
55°	23736.4	9611.8	8693.7	9429.3	9766.6
57.5°	18869.6	8384.0	7654.0	8350.9	9047.7
60°	14683.1	7327.7	6675.2	7670.6	8367.5
62.5°	11215.6	6387.6	5757.1	7034.6	7731.5
65°	8489.1	5574.6	5032.6	6448.4	7167.4
67.5°	6398.6	4872.3	4468.5	6022.6	6724.9
70°	4805.9	4192.0	4015.1	5757.1	6387.6
72.5°	3550.5	3567.1	3655.6	5524.8	6006.0
75°	2621.4	3003.0	3379.1	5248.3	5563.6
77.5°	1874.8	2488.7	3130.2	4916.5	5027.1
80°	1299.6	2029.6	2870.3	4479.6	4385.6
82.5°	813.0	1625.9	2638.0	3998.5	3738.5
85°	459.0	1244.3	2472.1	3439.9	3157.8
87.5°	204.6	929.1	2162.4	2682.2	2505.3
90°	0.0	519.9	1432.4	2018.6	2035.2
92.5°	11.1	431.4	1321.8	1847.1	1902.4
95°	22.1	365.0	1260.9	1714.4	1791.8
97.5°	27.7	320.8	1183.5	1592.7	1659.1
100°	33.2	287.6	1089.5	1465.5	1520.9
102.5°	38.7	265.5	1001.0	1332.8	1377.1
105°	44.2	243.3	918.0	1216.7	1249.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	55.3	188.0	691.3	873.8	901.5
115°	60.8	171.4	619.4	774.3	790.8
117.5°	66.4	149.3	542.0	680.2	685.8
120°	66.4	132.7	464.6	580.7	580.7
122.5°	66.4	110.6	387.1	481.1	475.6
125°	66.4	88.5	315.2	398.2	392.7
127.5°	60.8	71.9	254.4	331.8	326.3
130°	60.8	71.9	204.6	282.0	282.0
132.5°	55.3	66.4	165.9	243.3	243.3
135°	55.3	66.4	138.3	215.7	215.7
137.5°	55.3	71.9	116.1	188.0	188.0
140°	55.3	66.4	99.5	165.9	165.9
142.5°	60.8	66.4	88.5	143.8	143.8
145°	66.4	71.9	83.0	127.2	121.7
147.5°	66.4	77.4	83.0	110.6	105.1
150°	66.4	83.0	83.0	99.5	94.0
152.5°	66.4	83.0	83.0	94.0	88.5
155°	66.4	83.0	88.5	94.0	83.0
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°	44.2	226.7	840.6	1089.5	1128.2
110°	49.8	204.6	768.7	973.3	1012.1



(END OF REPORT)