

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: P830871

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830871
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-L730-CD
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 70CRI, 3000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

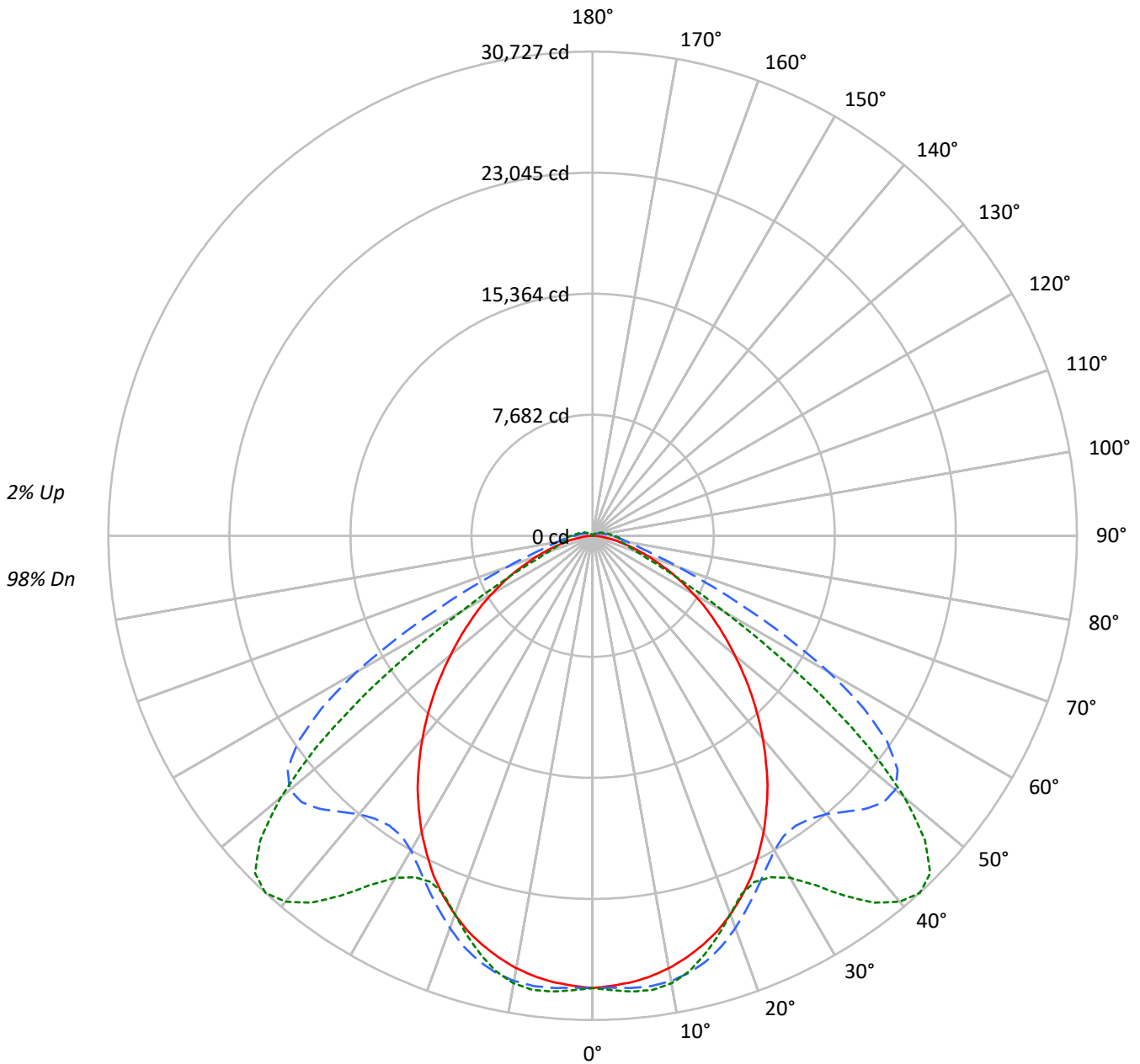
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 85940.0 lumens
Efficiency: N/A
Efficacy: 162.5 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				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°	45392	45392	45392
5°	44969	45349	45716
10°	44405	45300	45577
15°	43539	44572	43926
20°	42352	43059	41588
25°	40764	41224	40564
30°	38652	39865	43431
35°	36242	40625	50546
40°	33446	44025	58079
45°	30523	49974	61998
50°	27474	55304	57232
55°	24608	55286	43309
60°	21691	46827	26163
65°	18610	32381	15602
70°	15120	20974	11025
75°	11503	15072	9898
80°	8256	13296	10576
85°	5603	14734	14902



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2742.8	3.2
10°-20°	7766.9	9.0
20°-30°	11365.5	13.2
30°-40°	14760.5	17.2
40°-50°	18024.4	21.0
50°-60°	15873.3	18.5
60°-70°	8271.7	9.6
70°-80°	3547.2	4.1
80°-90°	1703.5	2.0
90°-100°	800.3	0.9
100°-110°	497.4	0.6
110°-120°	294.1	0.3
120°-130°	159.9	0.2
130°-140°	80.2	0.1
140°-150°	38.6	0.0
150°-160°	13.5	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	21875.3	25.5
0°-40°	36635.8	42.6
0°-60°	70533.5	82.1
0°-90°	84055.9	97.8
90°-120°	1591.9	1.9
90°-150°	1870.6	2.2
90°-180°	1884.0	2.2
0°-180°	85940.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	28702	28702	28702	28702	28702	
5°	28436	28653	28808	29062	29031	###
15°	26907	27662	27928	27718	27495	7576
25°	23841	25117	24690	24225	24250	10941
35°	19352	21395	22466	26201	27879	12062
45°	14249	17927	24504	29668	30288	10987
55°	9487	15704	22820	20008	17785	8514
65°	5443	10880	10447	5809	4997	5385
75°	2192	5090	3356	2297	2180	2390
85°	464	1814	1709	1672	1691	518
90°	6	656	1127	1288	1319	32
95°	12	384	898	1053	1084	9
105°	25	217	582	700	712	26
115°	37	124	359	440	452	38
125°	43	62	210	272	279	37
135°	37	37	99	167	173	29
145°	50	37	43	80	93	29
155°	50	50	37	37	37	15
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830871

CATALOG NUMBER: OHBL-90SE-W-UNV-L730-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	28702.4	28702.4	28702.4	28702.4	28702.4
2.5°	28578.5	28702.4	28708.6	28882.0	28863.4
5°	28436.1	28652.9	28807.7	29061.6	29030.6
7.5°	28200.8	28541.4	28813.9	29092.5	29067.8
10°	27866.4	28330.8	28690.0	28919.1	28844.8
12.5°	27432.9	28046.0	28399.0	28448.5	28306.1
15°	26906.6	27662.0	27928.3	27717.8	27494.8
17.5°	26312.1	27197.6	27290.5	26832.2	26553.6
20°	25569.0	26578.4	26485.5	25853.8	25544.2
22.5°	24745.4	25897.2	25599.9	24937.3	24640.1
25°	23841.3	25116.9	24689.6	24225.2	24250.0
27.5°	22782.3	24231.4	23816.5	24027.0	24423.4
30°	21704.8	23302.5	23048.6	24274.7	25055.0
32.5°	20522.1	22348.9	22578.0	24999.3	26274.9
35°	19351.7	21395.2	22466.5	26200.6	27878.8
37.5°	18057.4	20429.2	22646.1	27587.7	29346.4
40°	16800.3	19487.9	23054.8	28832.4	30318.6
42.5°	15518.5	18645.7	23742.2	29569.3	30727.3
45°	14249.0	17927.4	24503.9	29668.4	30287.7
47.5°	12979.5	17320.5	25030.2	28882.0	28597.1
50°	11753.4	16781.8	25067.4	26993.3	25829.1
52.5°	10607.8	16286.4	24386.2	23983.7	22175.5
55°	9487.0	15704.3	22819.5	20008.1	17785.0
57.5°	8465.2	14899.2	20404.4	15735.2	13307.8
60°	7381.5	13809.3	17283.4	11511.9	9598.4
62.5°	6384.5	12453.2	13784.6	8013.1	6898.5
65°	5443.2	10880.3	10446.8	5808.6	4997.4
67.5°	4446.2	9251.6	7709.7	4235.7	3715.5
70°	3666.0	7740.7	5740.5	3294.4	2991.0
72.5°	2867.1	6304.0	4291.4	2675.2	2508.0
75°	2192.2	5090.3	3356.4	2297.4	2179.8
77.5°	1616.3	4025.1	2699.9	2031.2	1919.7
80°	1133.2	3170.6	2260.3	1814.4	1771.1
82.5°	761.7	2452.2	1925.9	1727.7	1733.9
85°	464.4	1814.4	1709.1	1672.0	1690.6
87.5°	222.9	1288.0	1467.6	1523.4	1541.9
90°	6.2	656.4	1127.0	1288.0	1319.0
92.5°	0.0	501.6	990.8	1151.8	1182.8
95°	12.4	383.9	897.9	1052.7	1083.7
97.5°	12.4	315.8	805.0	966.0	984.6
100°	18.6	272.5	718.3	873.1	891.7
102.5°	18.6	241.5	644.0	780.3	792.6
105°	24.8	216.7	582.1	699.8	712.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	37.2	148.6	408.7	495.4	507.8
115°	37.2	123.9	359.2	439.7	452.1
117.5°	43.3	111.5	315.8	390.1	396.3
120°	43.3	92.9	272.5	346.8	353.0
122.5°	43.3	74.3	241.5	309.6	315.8
125°	43.3	61.9	210.5	272.5	278.7
127.5°	37.2	43.3	179.6	241.5	247.7
130°	37.2	37.2	148.6	210.5	222.9
132.5°	37.2	37.2	123.9	185.8	198.2
135°	37.2	37.2	99.1	167.2	173.4
137.5°	37.2	37.2	80.5	142.4	154.8
140°	37.2	37.2	61.9	123.9	130.0
142.5°	43.3	37.2	55.7	105.3	111.5
145°	49.5	37.2	43.3	80.5	92.9
147.5°	49.5	43.3	43.3	68.1	74.3
150°	49.5	49.5	37.2	49.5	61.9
152.5°	49.5	49.5	37.2	37.2	49.5
155°	49.5	49.5	37.2	37.2	37.2
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°	31.0	192.0	520.2	625.4	637.8
110°	31.0	167.2	458.2	557.3	569.7



(END OF REPORT)