

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: P830819

Luminaire Tested: **OHBL-90SE-A-UNV-L930-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830819
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-90SE-A-UNV-L930-CD
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND AISLE LENS
Light Source: -
Ballast/Driver: -

Summary

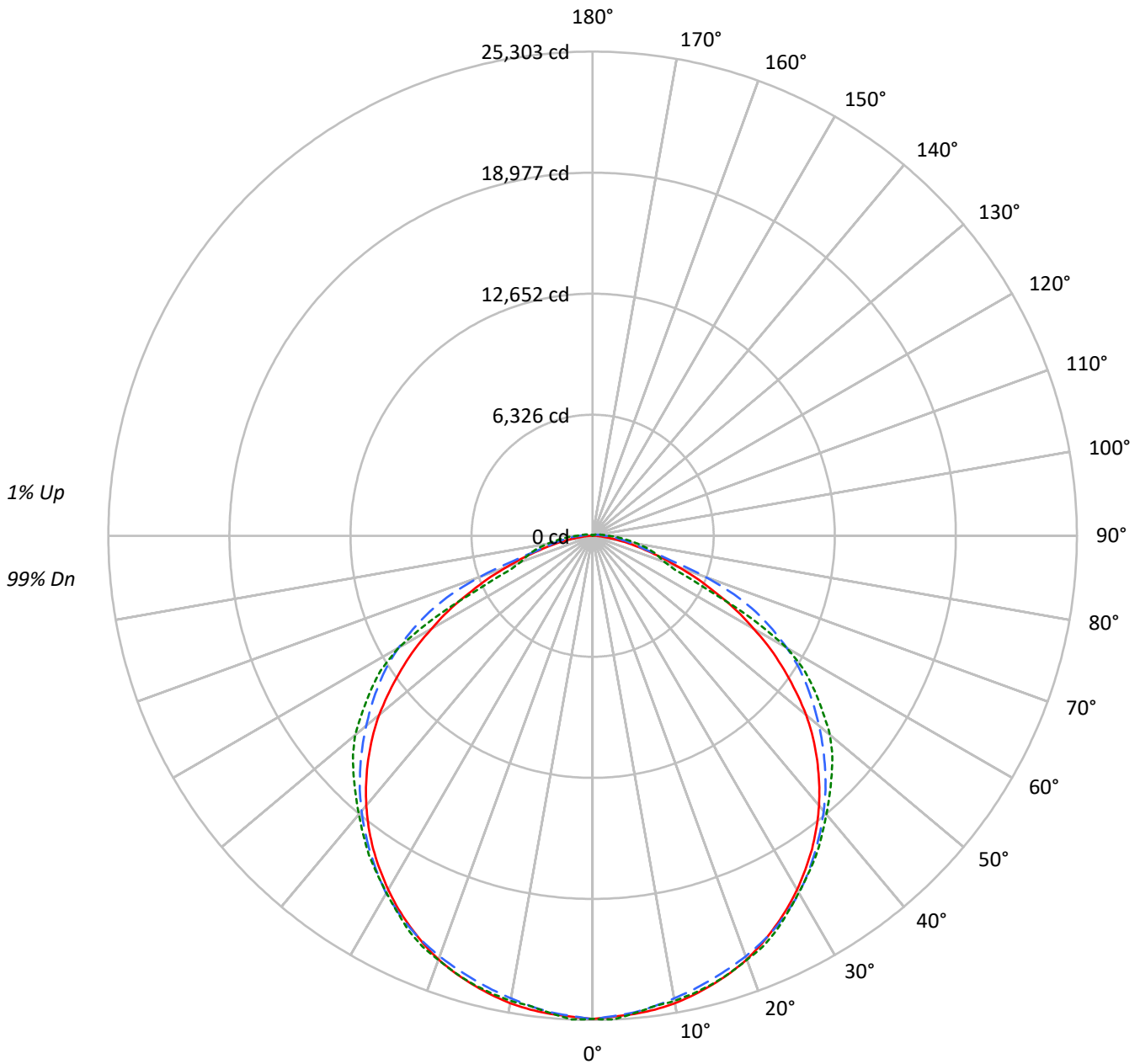
Lumens per Lamp: N/A
Luminaire Lumens: 71372.0 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.8' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

TEST NUMBER: P830819

CATALOG NUMBER: OHBL-90SE-A-UNV-L930-CD

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	106	106	106	101	101	101	99																			
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86	83																			
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72	70																			
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61	59																			
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53	51																			
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46	44																			
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40	38																			
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34																			
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32	30																			
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29	27																			
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	39935	39935	39935
5°	39673	39354	39437
10°	39528	38758	38999
15°	39277	38313	38738
20°	39026	38032	38395
25°	38556	37749	38055
30°	38043	37303	37335
35°	37431	36596	36938
40°	36635	35865	36398
45°	35532	35020	36158
50°	34036	34057	35872
55°	31661	33110	34533
60°	28551	31725	31926
65°	24491	29153	20233
70°	19727	22758	14670
75°	14790	13510	14888
80°	10295	11233	14215
85°	5859	10292	13324



TEST NUMBER: P830819

CATALOG NUMBER: OHBL-90SE-A-UNV-L930-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2381.0	3.3
10°-20°	6827.5	9.6
20°-30°	10427.8	14.6
30°-40°	12652.5	17.7
40°-50°	13261.0	18.6
50°-60°	12016.5	16.8
60°-70°	8056.6	11.3
70°-80°	3617.7	5.1
80°-90°	1312.8	1.8
90°-100°	395.2	0.6
100°-110°	186.5	0.3
110°-120°	93.4	0.1
120°-130°	51.6	0.1
130°-140°	35.4	0.0
140°-150°	23.8	0.0
150°-160°	17.7	0.0
160°-170°	11.4	0.0
170°-180°	3.6	0.0
0°-30°	19636.3	27.5
0°-40°	32288.8	45.2
0°-60°	57566.2	80.7
0°-90°	70553.4	98.9
90°-120°	675.1	0.9
90°-150°	785.9	1.1
90°-180°	819.0	1.1
0°-180°	71372.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	25252	25252	25252	25252	25252	
5°	25087	25175	25000	25076	25043	###
15°	24273	24178	24006	24218	24247	6853
25°	22550	22451	22608	22816	22750	10394
35°	19986	20034	20238	20454	20374	12492
45°	16587	16857	17171	17610	17664	12778
55°	12206	12794	13666	14214	14181	10895
65°	7164	8284	9405	7938	6481	7138
75°	2819	4089	3009	3078	3279	3080
85°	486	931	1194	1442	1512	593
90°	4	310	617	774	811	29
95°	4	194	424	515	529	5
105°	15	84	208	252	263	17
115°	29	44	106	135	142	27
125°	26	29	66	77	80	25
135°	33	36	40	58	62	26
145°	33	36	36	40	44	22
155°	36	40	40	40	36	17
165°	40	40	40	40	40	11
175°	40	40	36	33	33	4
180°	36	36	36	36	36	



TEST NUMBER: P830819

CATALOG NUMBER: OHBL-90SE-A-UNV-L930-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	25251.5	25251.5	25251.5	25251.5	25251.5
2.5°	25149.2	25255.1	25123.7	25266.1	25302.6
5°	25087.2	25174.8	24999.5	25076.2	25043.4
7.5°	24974.0	25003.2	24795.1	24857.1	24791.4
10°	24806.0	24791.4	24546.8	24667.3	24681.9
12.5°	24557.8	24513.9	24294.9	24477.4	24481.1
15°	24273.0	24178.0	24006.4	24218.2	24247.4
17.5°	23944.4	23820.2	23707.0	23980.9	23937.1
20°	23561.0	23414.9	23393.0	23692.4	23582.9
22.5°	23086.3	22973.1	23024.3	23309.1	23239.7
25°	22549.6	22451.0	22608.0	22816.1	22750.4
27.5°	21983.7	21925.3	22104.2	22264.8	22137.0
30°	21363.0	21330.1	21567.4	21698.9	21538.2
32.5°	20687.5	20698.5	20924.8	21103.7	20954.0
35°	19986.5	20034.0	20238.4	20453.8	20373.5
37.5°	19216.1	19322.0	19526.4	19771.1	19687.1
40°	18401.9	18555.2	18781.6	19077.3	19000.7
42.5°	17522.0	17715.5	18007.6	18336.2	18328.9
45°	16587.3	16857.4	17171.4	17609.6	17664.3
47.5°	15616.0	15919.1	16317.1	16901.3	16985.2
50°	14560.9	14940.6	15437.1	16138.2	16189.3
52.5°	13385.2	13903.6	14560.9	15232.7	15170.6
55°	12205.9	12793.7	13666.3	14214.0	14181.1
57.5°	11030.2	11691.0	12749.9	13140.6	13136.9
60°	9715.8	10551.9	11709.3	12005.0	11712.9
62.5°	8499.9	9398.1	10599.3	10383.9	9383.5
65°	7163.6	8284.5	9405.4	7937.6	6480.8
67.5°	5977.0	7145.3	7988.8	5436.6	4655.2
70°	4783.0	6071.9	6228.9	4034.5	3979.8
72.5°	3724.2	5097.0	4297.4	3454.0	3629.3
75°	2818.7	4089.3	3008.6	3077.9	3278.7
77.5°	2055.6	3140.0	2340.4	2698.2	2862.5
80°	1413.0	2223.6	1909.6	2267.4	2380.6
82.5°	887.2	1467.8	1529.8	1825.6	1942.4
85°	485.6	931.0	1193.9	1442.2	1511.6
87.5°	200.8	562.3	912.8	1113.6	1172.0
90°	3.7	310.3	617.0	774.0	810.6
92.5°	3.7	237.3	503.9	624.3	649.9
95°	3.7	193.5	423.5	514.8	529.4
97.5°	7.3	153.3	354.2	427.2	441.8
100°	11.0	127.8	295.7	357.8	368.8
102.5°	14.6	102.2	248.3	299.4	310.3
105°	14.6	84.0	208.1	251.9	262.9



TEST NUMBER: P830819

CATALOG NUMBER: OHBL-90SE-A-UNV-L930-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	25.6	51.1	124.1	157.0	164.3
115°	29.2	43.8	105.9	135.1	142.4
117.5°	29.2	36.5	91.3	113.2	120.5
120°	29.2	32.9	80.3	98.6	102.2
122.5°	29.2	29.2	69.4	87.6	91.3
125°	25.6	29.2	65.7	76.7	80.3
127.5°	29.2	29.2	58.4	69.4	73.0
130°	29.2	32.9	51.1	65.7	65.7
132.5°	32.9	36.5	47.5	62.1	62.1
135°	32.9	36.5	40.2	58.4	62.1
137.5°	36.5	36.5	36.5	54.8	58.4
140°	36.5	36.5	32.9	47.5	51.1
142.5°	32.9	36.5	32.9	43.8	47.5
145°	32.9	36.5	36.5	40.2	43.8
147.5°	36.5	36.5	36.5	36.5	40.2
150°	36.5	36.5	36.5	36.5	36.5
152.5°	36.5	36.5	36.5	36.5	36.5
155°	36.5	40.2	40.2	40.2	36.5
157.5°	36.5	40.2	40.2	40.2	40.2
160°	36.5	40.2	40.2	40.2	40.2
162.5°	40.2	40.2	40.2	40.2	40.2
165°	40.2	40.2	40.2	40.2	40.2
167.5°	40.2	43.8	40.2	40.2	40.2
170°	40.2	40.2	40.2	36.5	36.5
172.5°	40.2	40.2	40.2	36.5	36.5
175°	40.2	40.2	36.5	32.9	32.9
177.5°	43.8	40.2	36.5	32.9	29.2
180°	36.5	36.5	36.5	36.5	36.5



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	18.3	69.4	178.9	215.4	222.7
110°	21.9	58.4	149.7	182.6	189.9



(END OF REPORT)