

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: P830879

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830879
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-L930-CD
Description: 90000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND WIDE LENS
Light Source: -
Ballast/Driver: -

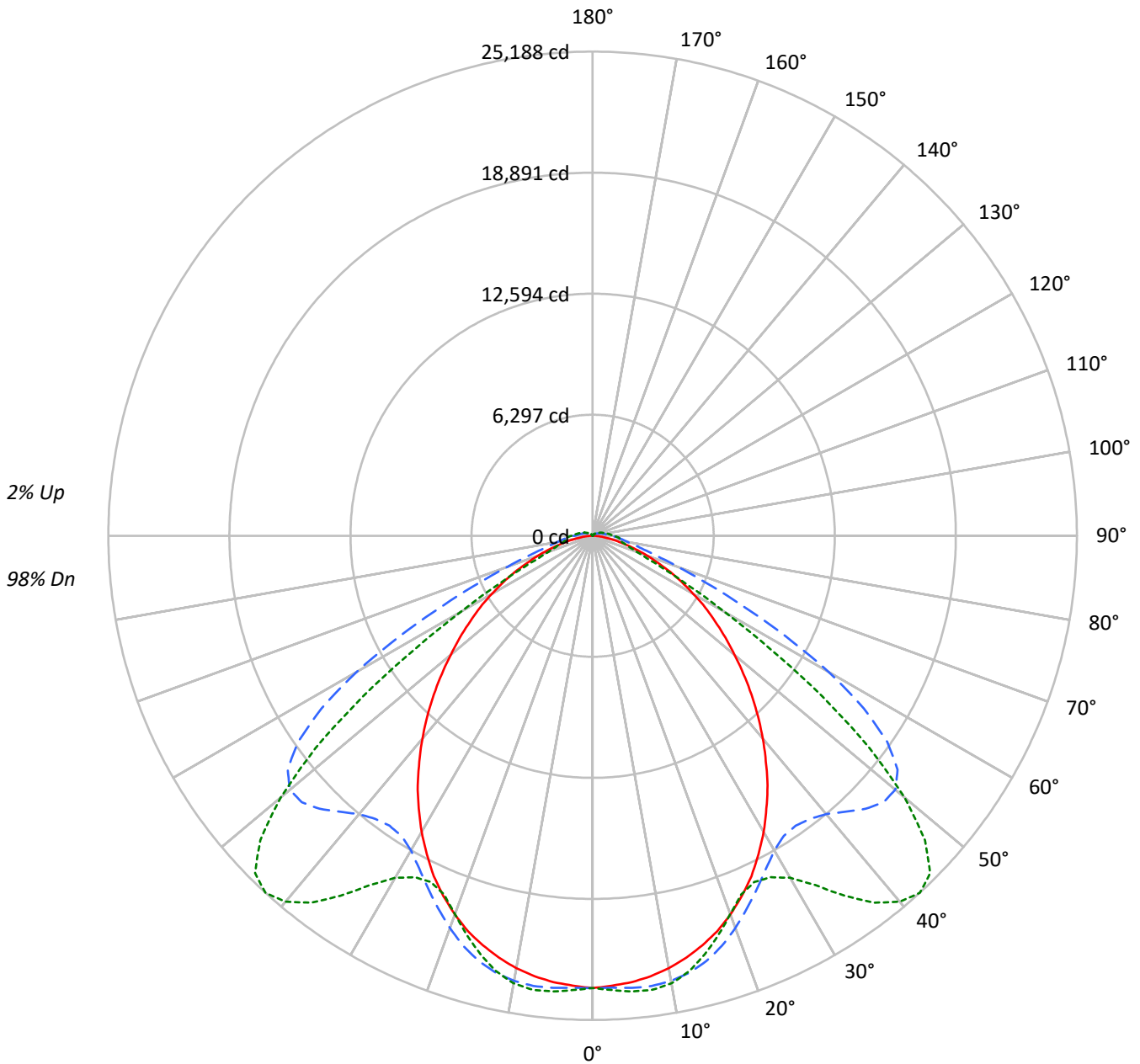
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 70446.0 lumens
Efficiency: N/A
Efficacy: 133.2 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

TEST NUMBER: P830879
CATALOG NUMBER: OHBL-90SE-W-UNV-L930-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830879

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

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°	37208	37208	37208
5°	36862	37173	37474
10°	36399	37133	37360
15°	35689	36536	36007
20°	34717	35296	34090
25°	33415	33792	33250
30°	31684	32678	35601
35°	29708	33301	41433
40°	27416	36088	47608
45°	25020	40964	50821
50°	22521	45333	46913
55°	20172	45319	35501
60°	17780	38384	21446
65°	15255	26543	12789
70°	12394	17192	9037
75°	9428	12354	8114
80°	6768	10899	8669
85°	4593	12078	12215



TEST NUMBER: P830879

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

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2248.3	3.2
10°-20°	6366.6	9.0
20°-30°	9316.4	13.2
30°-40°	12099.4	17.2
40°-50°	14774.8	21.0
50°-60°	13011.5	18.5
60°-70°	6780.4	9.6
70°-80°	2907.7	4.1
80°-90°	1396.4	2.0
90°-100°	656.0	0.9
100°-110°	407.8	0.6
110°-120°	241.1	0.3
120°-130°	131.0	0.2
130°-140°	65.8	0.1
140°-150°	31.6	0.0
150°-160°	11.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	17931.4	25.5
0°-40°	30030.8	42.6
0°-60°	57817.1	82.1
0°-90°	68901.6	97.8
90°-120°	1304.9	1.9
90°-150°	1533.4	2.2
90°-180°	1544.0	2.2
0°-180°	70446.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	23528	23528	23528	23528	23528	
5°	23309	23487	23614	23822	23797	###
15°	22056	22675	22893	22721	22538	6210
25°	19543	20589	20238	19858	19878	8969
35°	15863	17538	18416	21477	22853	9887
45°	11680	14695	20086	24320	24827	9006
55°	7777	12873	18705	16401	14578	6979
65°	4462	8919	8563	4761	4096	4414
75°	1797	4172	2751	1883	1787	1959
85°	381	1487	1401	1370	1386	424
90°	5	538	924	1056	1081	26
95°	10	315	736	863	888	8
105°	20	178	477	574	584	21
115°	30	102	294	360	371	31
125°	36	51	173	223	228	30
135°	30	30	81	137	142	24
145°	41	30	36	66	76	24
155°	41	41	30	30	30	13
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830879

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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	23527.7	23527.7	23527.7	23527.7	23527.7
2.5°	23426.2	23527.7	23532.8	23674.9	23659.7
5°	23309.4	23487.1	23614.0	23822.1	23796.7
7.5°	23116.5	23395.7	23619.0	23847.5	23827.2
10°	22842.4	23223.1	23517.5	23705.3	23644.4
12.5°	22487.1	22989.6	23278.9	23319.6	23202.8
15°	22055.6	22674.9	22893.2	22720.6	22537.8
17.5°	21568.3	22294.2	22370.3	21994.7	21766.3
20°	20959.2	21786.6	21710.4	21192.7	20938.9
22.5°	20284.1	21228.2	20984.6	20441.4	20197.8
25°	19542.9	20588.6	20238.4	19857.7	19878.0
27.5°	18674.9	19862.7	19522.6	19695.2	20020.1
30°	17791.7	19101.3	18893.2	19898.3	20537.9
32.5°	16822.2	18319.6	18507.4	20492.2	21537.9
35°	15862.8	17537.9	18416.1	21476.9	22852.6
37.5°	14801.9	16746.0	18563.3	22614.0	24055.6
40°	13771.4	15974.5	18898.3	23634.3	24852.5
42.5°	12720.7	15284.1	19461.7	24238.3	25187.6
45°	11680.1	14695.3	20086.1	24319.5	24827.2
47.5°	10639.5	14197.8	20517.6	23674.9	23441.4
50°	9634.4	13756.2	20548.0	22126.7	21172.4
52.5°	8695.3	13350.1	19989.6	19659.7	18177.5
55°	7776.6	12873.0	18705.4	16400.8	14578.5
57.5°	6939.0	12213.1	16725.7	12898.3	10908.5
60°	6050.7	11319.7	14167.4	9436.5	7867.9
62.5°	5233.4	10208.0	11299.4	6568.5	5654.8
65°	4461.9	8918.7	8563.4	4761.4	4096.4
67.5°	3644.6	7583.7	6319.7	3472.0	3045.7
70°	3005.0	6345.1	4705.5	2700.5	2451.8
72.5°	2350.2	5167.5	3517.7	2192.9	2055.8
75°	1796.9	4172.5	2751.2	1883.2	1786.8
77.5°	1324.9	3299.5	2213.2	1665.0	1573.6
80°	928.9	2599.0	1852.8	1487.3	1451.8
82.5°	624.4	2010.1	1578.7	1416.2	1421.3
85°	380.7	1487.3	1401.0	1370.5	1385.8
87.5°	182.7	1055.8	1203.0	1248.7	1263.9
90°	5.1	538.1	923.8	1055.8	1081.2
92.5°	0.0	411.2	812.2	944.2	969.5
95°	10.2	314.7	736.0	862.9	888.3
97.5°	10.2	258.9	659.9	791.9	807.1
100°	15.2	223.3	588.8	715.7	731.0
102.5°	15.2	198.0	527.9	639.6	649.7
105°	20.3	177.7	477.2	573.6	583.8



TEST NUMBER: P830879

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

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	30.5	121.8	335.0	406.1	416.2
115°	30.5	101.5	294.4	360.4	370.6
117.5°	35.5	91.4	258.9	319.8	324.9
120°	35.5	76.1	223.3	284.3	289.3
122.5°	35.5	60.9	198.0	253.8	258.9
125°	35.5	50.8	172.6	223.3	228.4
127.5°	30.5	35.5	147.2	198.0	203.0
130°	30.5	30.5	121.8	172.6	182.7
132.5°	30.5	30.5	101.5	152.3	162.4
135°	30.5	30.5	81.2	137.1	142.1
137.5°	30.5	30.5	66.0	116.8	126.9
140°	30.5	30.5	50.8	101.5	106.6
142.5°	35.5	30.5	45.7	86.3	91.4
145°	40.6	30.5	35.5	66.0	76.1
147.5°	40.6	35.5	35.5	55.8	60.9
150°	40.6	40.6	30.5	40.6	50.8
152.5°	40.6	40.6	30.5	30.5	40.6
155°	40.6	40.6	30.5	30.5	30.5
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°	25.4	157.4	426.4	512.7	522.8
110°	25.4	137.1	375.6	456.8	467.0



(END OF REPORT)