

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: P830711

Luminaire Tested: **OHBL-60SE-N-UNV-L930-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P830711
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-60SE-N-UNV-L930-CD
Description: 60000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

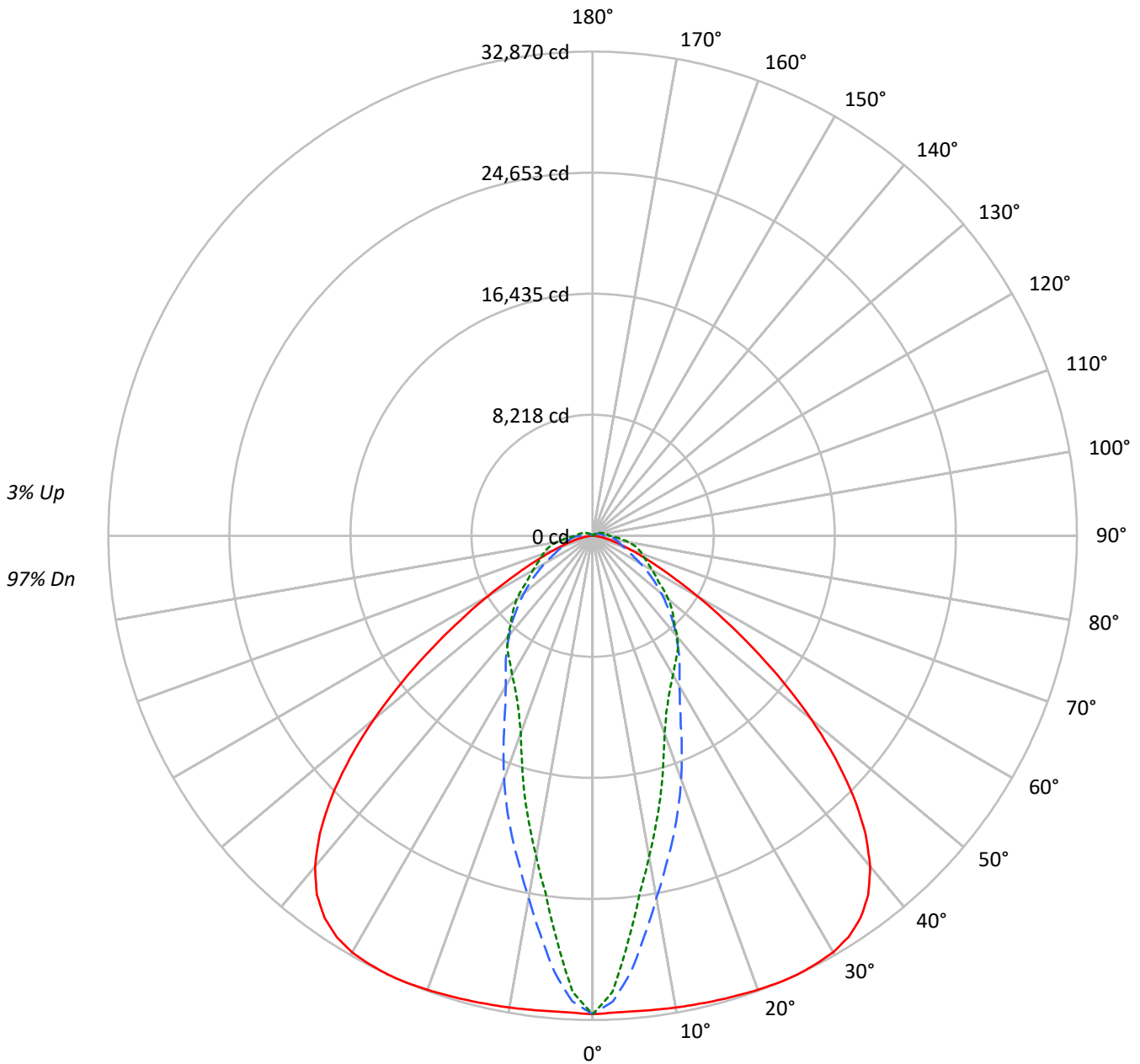
Lumens per Lamp: N/A
Luminaire Lumens: 47925.0 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 362
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: P830711

CATALOG NUMBER: OHBL-60SE-N-UNV-L930-CD

Luminous Intensity Polar Plot





TEST NUMBER: P830711

CATALOG NUMBER: OHBL-60SE-N-UNV-L930-CD

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	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	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	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	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	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	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	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	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	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	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	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	32	32	32	30		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	55461	55461	55461
5°	55348	50507	46959
10°	55973	42544	37654
15°	57066	36385	30905
20°	58669	30765	24997
25°	60698	25465	21903
30°	62796	21938	20347
35°	64103	19993	19385
40°	63006	18060	18391
45°	57963	16320	17027
50°	48903	14418	15981
55°	37159	12629	14221
60°	26040	10831	13614
65°	17516	9328	13328
70°	11962	8754	13983
75°	8301	9028	14940
80°	5715	9999	15381
85°	3342	12506	16136



TEST NUMBER: P830711

CATALOG NUMBER: OHBL-60SE-N-UNV-L930-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2733.4	5.7
10°-20°	6430.3	13.4
20°-30°	8060.3	16.8
30°-40°	8552.8	17.8
40°-50°	7733.1	16.1
50°-60°	5607.0	11.7
60°-70°	3518.7	7.3
70°-80°	2328.5	4.9
80°-90°	1341.5	2.8
90°-100°	649.9	1.4
100°-110°	448.6	0.9
110°-120°	276.8	0.6
120°-130°	134.1	0.3
130°-140°	61.7	0.1
140°-150°	33.7	0.1
150°-160°	14.7	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	17223.9	35.9
0°-40°	25776.8	53.8
0°-60°	39116.9	81.6
0°-90°	46305.6	96.6
90°-120°	1375.3	2.9
90°-150°	1604.7	3.3
90°-180°	1619.0	3.4
0°-180°	47925.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	32472	32472	32472	32472	32472	
5°	32407	31576	29721	28343	27629	###
15°	32654	26615	21139	18799	17946	9260
25°	32870	20580	14154	12563	12164	15186
35°	31693	13682	10273	9951	9948	19702
45°	25055	8666	7445	7624	7754	19086
55°	13264	5371	4858	5269	5458	11985
65°	4744	3115	2812	3604	4005	4936
75°	1465	1678	1888	2933	3109	1633
85°	256	695	1381	1922	1765	308
90°	0	290	800	1128	1137	17
95°	12	204	705	958	1001	11
105°	25	136	513	680	698	25
115°	34	96	346	433	442	33
125°	37	49	176	222	219	32
135°	31	37	77	120	120	24
145°	37	40	46	71	68	22
155°	37	46	49	52	46	11
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P830711

CATALOG NUMBER: OHBL-60SE-N-UNV-L930-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	32471.7	32471.7	32471.7	32471.7	32471.7
2.5°	32403.8	32218.3	31640.4	31288.1	30991.4
5°	32406.8	31575.5	29721.2	28342.9	27629.0
7.5°	32453.2	30605.1	27264.3	25252.4	24467.4
10°	32524.3	29402.9	24971.1	22826.3	22093.9
12.5°	32576.8	28049.3	22953.0	20749.5	19946.0
15°	32654.1	26615.3	21138.9	18799.4	17946.5
17.5°	32725.2	25264.7	19346.4	16901.9	15953.1
20°	32796.2	23809.1	17554.0	15035.2	14253.3
22.5°	32864.2	22273.1	15804.7	13585.8	13051.1
25°	32870.4	20579.6	14154.4	12562.8	12164.2
27.5°	32790.1	18824.2	12816.2	11706.8	11459.5
30°	32651.0	17121.3	11777.8	11088.7	10912.5
32.5°	32304.9	15384.4	10974.3	10492.2	10390.2
35°	31692.9	13681.6	10272.8	9951.4	9948.3
37.5°	30728.7	12170.3	9512.5	9456.9	9524.9
40°	29304.0	10847.6	8792.4	8940.8	8940.8
42.5°	27403.3	9697.9	8140.3	8291.8	8251.6
45°	25054.6	8665.7	7445.0	7624.2	7754.0
47.5°	22331.9	7757.1	6734.2	7080.3	7259.6
50°	19371.2	6891.8	6085.2	6527.1	6731.1
52.5°	16268.3	6091.3	5451.6	5958.5	6122.3
55°	13264.4	5371.3	4858.2	5269.3	5457.8
57.5°	10544.7	4685.2	4277.2	4666.6	5056.0
60°	8205.2	4094.9	3730.2	4286.5	4675.9
62.5°	6267.5	3569.5	3217.2	3931.1	4320.5
65°	4743.9	3115.2	2812.3	3603.5	4005.3
67.5°	3575.7	2722.7	2497.1	3365.5	3758.0
70°	2685.6	2342.6	2243.7	3217.2	3569.5
72.5°	1984.1	1993.4	2042.8	3087.4	3356.3
75°	1464.9	1678.1	1888.3	2932.9	3109.0
77.5°	1047.7	1390.7	1749.2	2747.4	2809.3
80°	726.3	1134.2	1604.0	2503.3	2450.8
82.5°	454.3	908.6	1474.2	2234.4	2089.2
85°	256.5	695.4	1381.4	1922.3	1764.7
87.5°	114.3	519.2	1208.4	1498.9	1400.0
90°	0.0	290.5	800.4	1128.0	1137.3
92.5°	6.2	241.1	738.6	1032.2	1063.1
95°	12.4	204.0	704.6	958.1	1001.3
97.5°	15.5	179.2	661.4	890.1	927.1
100°	18.5	160.7	608.8	819.0	849.9
102.5°	21.6	148.3	559.4	744.8	769.5
105°	24.7	136.0	513.0	679.9	698.4



TEST NUMBER: P830711

CATALOG NUMBER: OHBL-60SE-N-UNV-L930-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	30.9	105.1	386.3	488.3	503.7
115°	34.0	95.8	346.1	432.7	441.9
117.5°	37.1	83.4	302.9	380.1	383.2
120°	37.1	74.2	259.6	324.5	324.5
122.5°	37.1	61.8	216.3	268.9	265.8
125°	37.1	49.4	176.2	222.5	219.4
127.5°	34.0	40.2	142.2	185.4	182.3
130°	34.0	40.2	114.3	157.6	157.6
132.5°	30.9	37.1	92.7	136.0	136.0
135°	30.9	37.1	77.3	120.5	120.5
137.5°	30.9	40.2	64.9	105.1	105.1
140°	30.9	37.1	55.6	92.7	92.7
142.5°	34.0	37.1	49.4	80.4	80.4
145°	37.1	40.2	46.4	71.1	68.0
147.5°	37.1	43.3	46.4	61.8	58.7
150°	37.1	46.4	46.4	55.6	52.5
152.5°	37.1	46.4	46.4	52.5	49.4
155°	37.1	46.4	49.4	52.5	46.4
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°	24.7	126.7	469.8	608.8	630.5
110°	27.8	114.3	429.6	543.9	565.6



(END OF REPORT)