

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: P829991

Luminaire Tested: **OHBL-18SE-N-UNV-L930-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829991
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-18SE-N-UNV-L930-CD
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 90CRI, 3000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

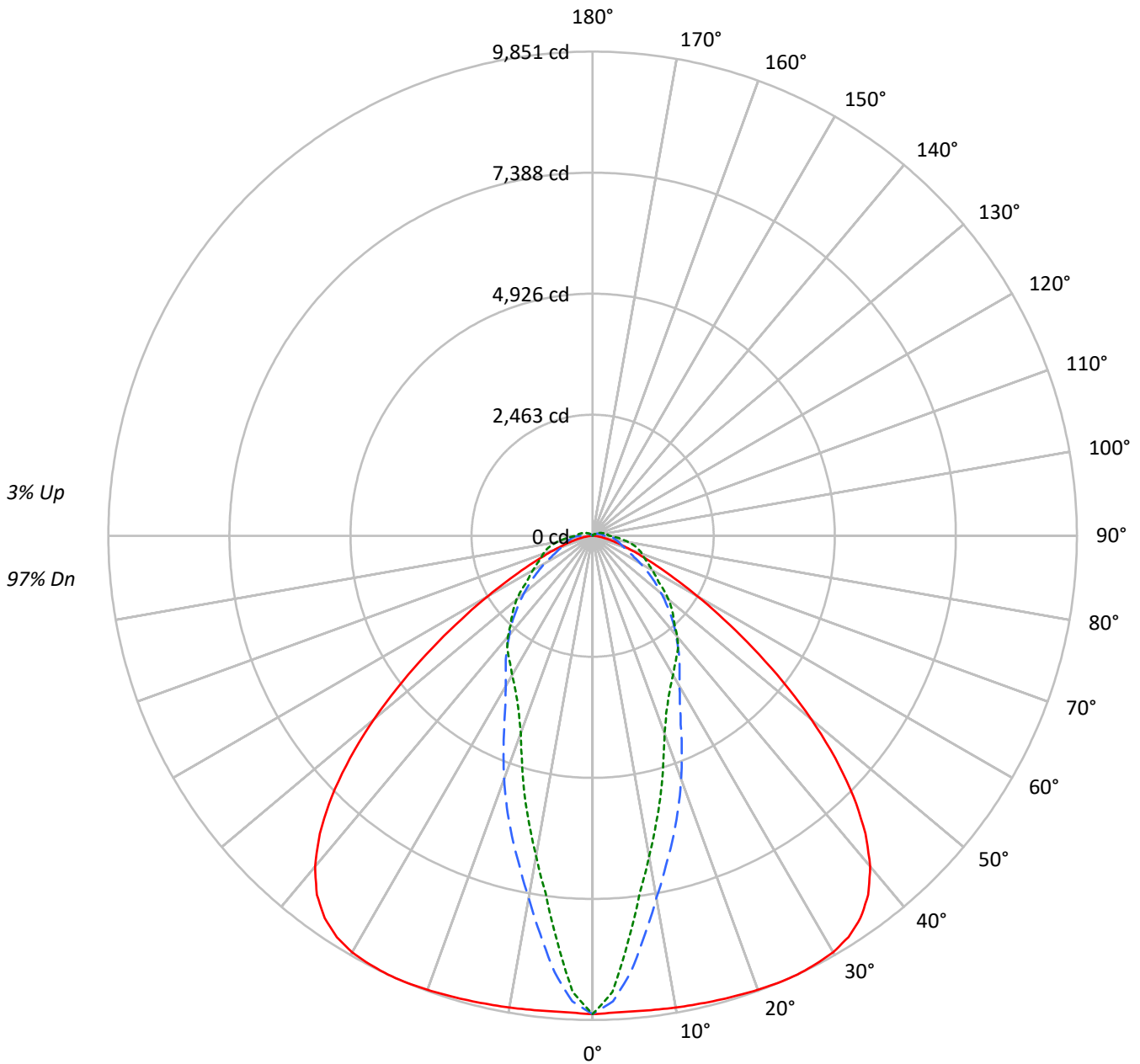
Lumens per Lamp: N/A
Luminaire Lumens: 14363.0 lumens
Efficiency: N/A
Efficacy: 136.8 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

Input Watts (W): 105
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: P829991

CATALOG NUMBER: OHBL-18SE-N-UNV-L930-CD

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	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°	16622	16622	16622
5°	16588	15137	14074
10°	16775	12750	11285
15°	17103	10905	9262
20°	17583	9220	7492
25°	18191	7632	6564
30°	18820	6575	6098
35°	19212	5992	5810
40°	18883	5412	5512
45°	17371	4891	5103
50°	14656	4321	4789
55°	11136	3785	4262
60°	7804	3246	4080
65°	5249	2796	3995
70°	3585	2623	4191
75°	2488	2706	4478
80°	1713	2996	4610
85°	1002	3748	4836



TEST NUMBER: P829991

CATALOG NUMBER: OHBL-18SE-N-UNV-L930-CD

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	819.2	5.7
10°-20°	1927.1	13.4
20°-30°	2415.6	16.8
30°-40°	2563.3	17.8
40°-50°	2317.6	16.1
50°-60°	1680.4	11.7
60°-70°	1054.5	7.3
70°-80°	697.9	4.9
80°-90°	402.0	2.8
90°-100°	194.8	1.4
100°-110°	134.4	0.9
110°-120°	83.0	0.6
120°-130°	40.2	0.3
130°-140°	18.5	0.1
140°-150°	10.1	0.1
150°-160°	4.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	5162.0	35.9
0°-40°	7725.2	53.8
0°-60°	11723.2	81.6
0°-90°	13877.7	96.6
90°-120°	412.2	2.9
90°-150°	480.9	3.3
90°-180°	485.0	3.4
0°-180°	14363.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	9732	9732	9732	9732	9732	
5°	9712	9463	8907	8494	8280	928
15°	9786	7976	6335	5634	5378	2775
25°	9851	6168	4242	3765	3646	4551
35°	9498	4100	3079	2982	2982	5905
45°	7509	2597	2231	2285	2324	5720
55°	3975	1610	1456	1579	1636	3592
65°	1422	934	843	1080	1200	1479
75°	439	503	566	879	932	489
85°	77	208	414	576	529	92
90°	0	87	240	338	341	5
95°	4	61	211	287	300	3
105°	7	41	154	204	209	7
115°	10	29	104	130	132	10
125°	11	15	53	67	66	10
135°	9	11	23	36	36	7
145°	11	12	14	21	20	7
155°	11	14	15	16	14	3
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P829991

CATALOG NUMBER: OHBL-18SE-N-UNV-L930-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	9731.7	9731.7	9731.7	9731.7	9731.7
2.5°	9711.3	9655.7	9482.5	9377.0	9288.0
5°	9712.2	9463.1	8907.4	8494.3	8280.3
7.5°	9726.1	9172.3	8171.0	7568.1	7332.8
10°	9747.4	8812.0	7483.8	6841.0	6621.5
12.5°	9763.2	8406.3	6879.0	6218.6	5977.8
15°	9786.3	7976.5	6335.3	5634.1	5378.5
17.5°	9807.6	7571.8	5798.1	5065.4	4781.1
20°	9829.0	7135.5	5260.9	4506.0	4271.7
22.5°	9849.3	6675.2	4736.6	4071.6	3911.4
25°	9851.2	6167.6	4242.0	3765.0	3645.6
27.5°	9827.1	5641.6	3841.0	3508.5	3434.4
30°	9785.4	5131.2	3529.8	3323.2	3270.5
32.5°	9681.7	4610.7	3289.0	3144.5	3113.9
35°	9498.3	4100.3	3078.7	2982.4	2981.5
37.5°	9209.3	3647.4	2850.9	2834.2	2854.6
40°	8782.3	3251.0	2635.1	2679.5	2679.5
42.5°	8212.7	2906.4	2439.6	2485.0	2473.0
45°	7508.8	2597.1	2231.2	2285.0	2323.9
47.5°	6692.8	2324.8	2018.2	2121.9	2175.7
50°	5805.5	2065.5	1823.7	1956.2	2017.3
52.5°	4875.6	1825.6	1633.8	1785.7	1834.8
55°	3975.3	1609.8	1456.0	1579.2	1635.7
57.5°	3160.2	1404.1	1281.9	1398.6	1515.3
60°	2459.1	1227.2	1117.9	1284.7	1401.4
62.5°	1878.4	1069.8	964.2	1178.1	1294.8
65°	1421.7	933.6	842.9	1080.0	1200.4
67.5°	1071.6	816.0	748.4	1008.6	1126.3
70°	804.9	702.1	672.4	964.2	1069.8
72.5°	594.6	597.4	612.2	925.3	1005.9
75°	439.0	502.9	565.9	879.0	931.8
77.5°	314.0	416.8	524.2	823.4	841.9
80°	217.7	339.9	480.7	750.2	734.5
82.5°	136.2	272.3	441.8	669.7	626.1
85°	76.9	208.4	414.0	576.1	528.9
87.5°	34.3	155.6	362.1	449.2	419.6
90°	0.0	87.1	239.9	338.1	340.8
92.5°	1.9	72.2	221.4	309.4	318.6
95°	3.7	61.1	211.2	287.1	300.1
97.5°	4.6	53.7	198.2	266.7	277.9
100°	5.6	48.2	182.5	245.4	254.7
102.5°	6.5	44.5	167.6	223.2	230.6
105°	7.4	40.8	153.8	203.8	209.3



TEST NUMBER: P829991

CATALOG NUMBER: OHBL-18SE-N-UNV-L930-CD

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	9.3	31.5	115.8	146.3	151.0
115°	10.2	28.7	103.7	129.7	132.4
117.5°	11.1	25.0	90.8	113.9	114.9
120°	11.1	22.2	77.8	97.3	97.3
122.5°	11.1	18.5	64.8	80.6	79.7
125°	11.1	14.8	52.8	66.7	65.8
127.5°	10.2	12.0	42.6	55.6	54.6
130°	10.2	12.0	34.3	47.2	47.2
132.5°	9.3	11.1	27.8	40.8	40.8
135°	9.3	11.1	23.2	36.1	36.1
137.5°	9.3	12.0	19.5	31.5	31.5
140°	9.3	11.1	16.7	27.8	27.8
142.5°	10.2	11.1	14.8	24.1	24.1
145°	11.1	12.0	13.9	21.3	20.4
147.5°	11.1	13.0	13.9	18.5	17.6
150°	11.1	13.9	13.9	16.7	15.7
152.5°	11.1	13.9	13.9	15.7	14.8
155°	11.1	13.9	14.8	15.7	13.9
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°	7.4	38.0	140.8	182.5	188.9
110°	8.3	34.3	128.7	163.0	169.5



(END OF REPORT)