

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: P829987

Luminaire Tested: **OHBL-18SE-N-UNV-L830-CD**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829987
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-L830-CD
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND NARROW LENS
Light Source: -
Ballast/Driver: -

Summary

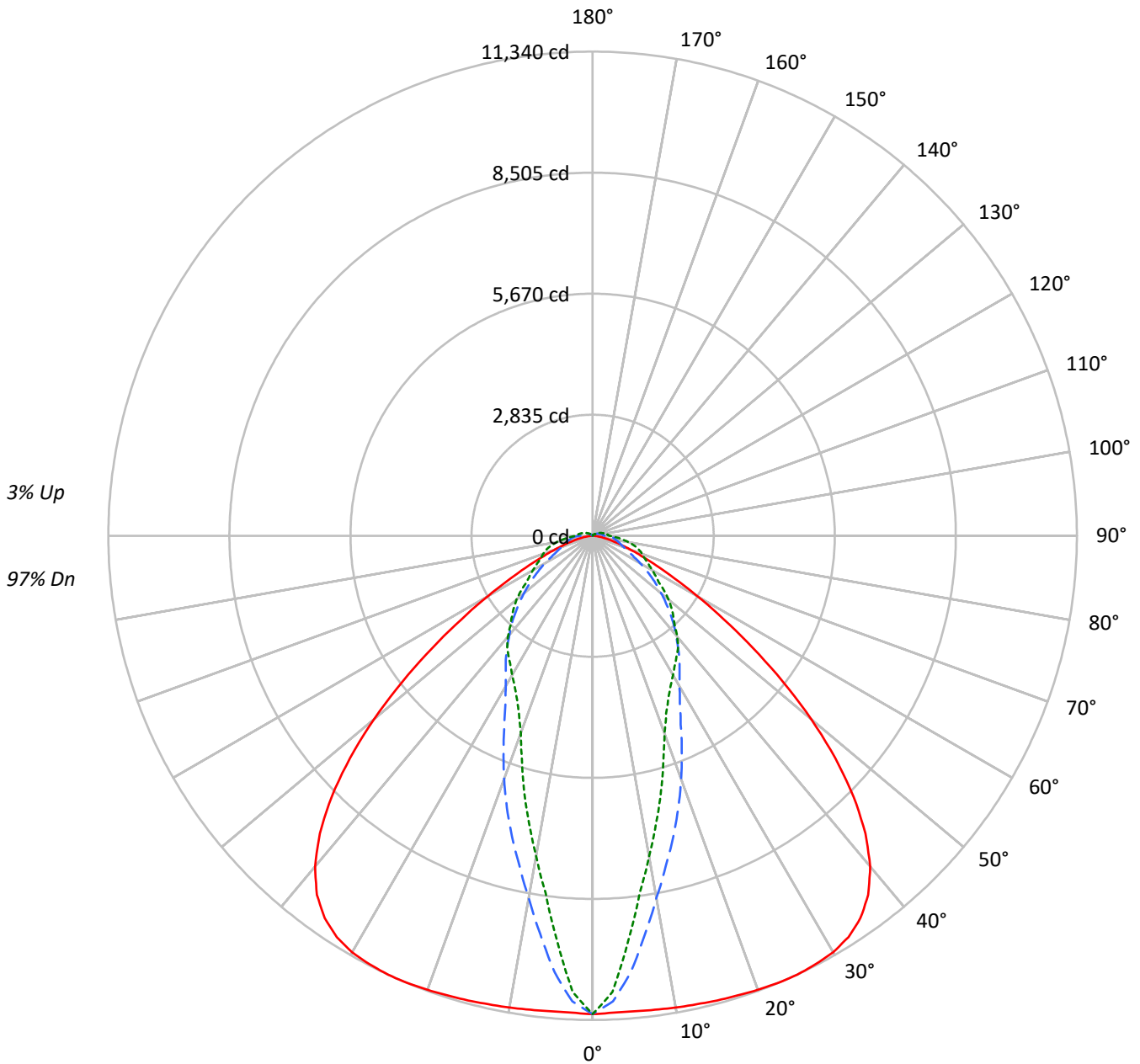
Lumens per Lamp: N/A
Luminaire Lumens: 16534.1 lumens
Efficiency: N/A
Efficacy: 157.5 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.53 / 0.78
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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

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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	0					
RCR																										
0	118	118	118	118	115	115	115	115	109	109	109	104	104	104	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	82					
2	100	93	86	81	97	90	85	80	86	82	78	83	79	75	79	76	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	62					
4	85	74	66	60	83	73	66	60	70	64	59	67	62	57	65	60	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	48					
6	74	62	53	47	72	60	53	47	58	52	46	56	50	46	55	49	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	39					
8	65	52	44	39	63	51	44	39	50	43	38	48	42	38	47	41	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	32					
10	57	45	37	33	56	44	37	32	43	37	32	42	36	32	41	35	32	32	32	32	30					

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	19134	19134	19134
5°	19095	17425	16201
10°	19311	14678	12991
15°	19688	12553	10662
20°	20241	10614	8624
25°	20941	8785	7556
30°	21665	7568	7020
35°	22115	6898	6688
40°	21737	6231	6345
45°	19997	5630	5874
50°	16871	4974	5513
55°	12820	4357	4906
60°	8984	3737	4697
65°	6043	3218	4598
70°	4127	3020	4824
75°	2864	3115	5154
80°	1972	3450	5306
85°	1153	4315	5567



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	943.0	5.7
10°-20°	2218.4	13.4
20°-30°	2780.8	16.8
30°-40°	2950.7	17.8
40°-50°	2667.9	16.1
50°-60°	1934.4	11.7
60°-70°	1213.9	7.3
70°-80°	803.3	4.9
80°-90°	462.8	2.8
90°-100°	224.2	1.4
100°-110°	154.8	0.9
110°-120°	95.5	0.6
120°-130°	46.3	0.3
130°-140°	21.3	0.1
140°-150°	11.6	0.1
150°-160°	5.1	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
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0°-30°	5942.2	35.9
0°-40°	8892.9	53.8
0°-60°	13495.3	81.6
0°-90°	15975.3	96.6
90°-120°	474.5	2.9
90°-150°	553.7	3.3
90°-180°	559.0	3.4
0°-180°	16534.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	11203	11203	11203	11203	11203	
5°	11180	10894	10254	9778	9532	###
15°	11266	9182	7293	6486	6192	3195
25°	11340	7100	4883	4334	4197	5239
35°	10934	4720	3544	3433	3432	6797
45°	8644	2990	2568	2630	2675	6585
55°	4576	1853	1676	1818	1883	4135
65°	1637	1075	970	1243	1382	1703
75°	505	579	652	1012	1073	563
85°	88	240	477	663	609	106
90°	0	100	276	389	392	6
95°	4	70	243	330	346	4
105°	8	47	177	235	241	9
115°	12	33	119	149	152	11
125°	13	17	61	77	76	11
135°	11	13	27	42	42	8
145°	13	14	16	24	24	8
155°	13	16	17	18	16	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P829987

CATALOG NUMBER: OHBL-18SE-N-UNV-L830-CD

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	11202.7	11202.7	11202.7	11202.7	11202.7
2.5°	11179.2	11115.2	10915.9	10794.3	10692.0
5°	11180.3	10893.5	10253.7	9778.2	9531.9
7.5°	11196.3	10558.7	9406.1	8712.0	8441.2
10°	11220.8	10143.9	8615.0	7875.0	7622.3
12.5°	11238.9	9676.9	7918.7	7158.5	6881.3
15°	11265.6	9182.2	7292.9	6485.8	6191.5
17.5°	11290.1	8716.3	6674.5	5831.1	5503.8
20°	11314.6	8214.1	6056.1	5187.1	4917.4
22.5°	11338.1	7684.2	5452.6	4687.1	4502.6
25°	11340.2	7099.9	4883.2	4334.1	4196.6
27.5°	11312.5	6494.3	4421.6	4038.8	3953.5
30°	11264.5	5906.8	4063.3	3825.6	3764.8
32.5°	11145.1	5307.6	3786.1	3619.8	3584.6
35°	10934.0	4720.1	3544.1	3433.2	3432.1
37.5°	10601.3	4198.7	3281.8	3262.6	3286.1
40°	10109.8	3742.4	3033.4	3084.5	3084.5
42.5°	9454.1	3345.8	2808.4	2860.6	2846.8
45°	8643.8	2989.7	2568.5	2630.3	2675.1
47.5°	7704.4	2676.2	2323.3	2442.7	2504.5
50°	6683.0	2377.6	2099.4	2251.8	2322.2
52.5°	5612.5	2101.5	1880.8	2055.7	2112.2
55°	4576.2	1853.1	1676.1	1817.9	1882.9
57.5°	3637.9	1616.4	1475.6	1610.0	1744.3
60°	2830.8	1412.7	1286.9	1478.8	1613.2
62.5°	2162.3	1231.5	1109.9	1356.2	1490.6
65°	1636.6	1074.7	970.3	1243.2	1381.8
67.5°	1233.6	939.3	861.5	1161.1	1296.5
70°	926.5	808.2	774.1	1109.9	1231.5
72.5°	684.5	687.7	704.8	1065.1	1157.9
75°	505.4	579.0	651.5	1011.8	1072.6
77.5°	361.4	479.8	603.5	947.9	969.2
80°	250.6	391.3	553.4	863.6	845.5
82.5°	156.7	313.5	508.6	770.9	720.8
85°	88.5	239.9	476.6	663.2	608.8
87.5°	39.4	179.1	416.9	517.1	483.0
90°	0.0	100.2	276.1	389.2	392.4
92.5°	2.1	83.2	254.8	356.1	366.8
95°	4.3	70.4	243.1	330.5	345.5
97.5°	5.3	61.8	228.2	307.1	319.9
100°	6.4	55.4	210.0	282.5	293.2
102.5°	7.5	51.2	193.0	257.0	265.5
105°	8.5	46.9	177.0	234.6	241.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	10.7	36.3	133.3	168.5	173.8
115°	11.7	33.1	119.4	149.3	152.5
117.5°	12.8	28.8	104.5	131.1	132.2
120°	12.8	25.6	89.6	112.0	112.0
122.5°	12.8	21.3	74.6	92.8	91.7
125°	12.8	17.1	60.8	76.8	75.7
127.5°	11.7	13.9	49.0	64.0	62.9
130°	11.7	13.9	39.4	54.4	54.4
132.5°	10.7	12.8	32.0	46.9	46.9
135°	10.7	12.8	26.7	41.6	41.6
137.5°	10.7	13.9	22.4	36.3	36.3
140°	10.7	12.8	19.2	32.0	32.0
142.5°	11.7	12.8	17.1	27.7	27.7
145°	12.8	13.9	16.0	24.5	23.5
147.5°	12.8	14.9	16.0	21.3	20.3
150°	12.8	16.0	16.0	19.2	18.1
152.5°	12.8	16.0	16.0	18.1	17.1
155°	12.8	16.0	17.1	18.1	16.0
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°	8.5	43.7	162.1	210.0	217.5
110°	9.6	39.4	148.2	187.7	195.1



(END OF REPORT)