

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: P829975

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

Issue Date: 5/3/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P829975  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2106-285-1)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/3/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: OHBL-18SE-MFL-UNV-L830-CD  
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND MEDIUM FROSTED LENS  
Light Source: -  
Ballast/Driver: -

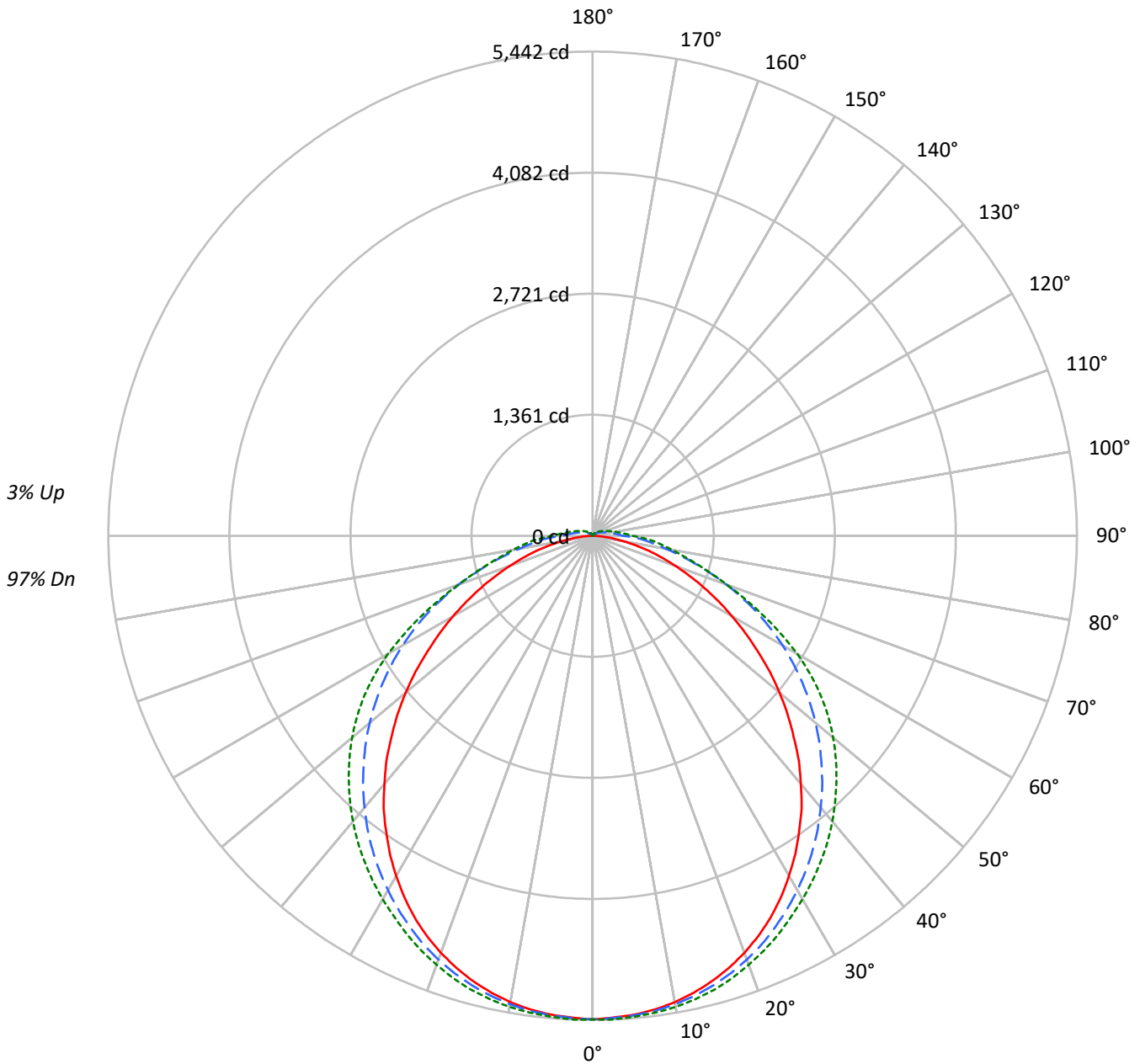
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16270.0 lumens  
Efficiency: N/A  
Efficacy: 155.0 lumens/watt  
Spacing Criteria (0/90/45): 1.21 / 1.29 / 1.38  
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<sub>in</sub>): 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	107	102	98	94	104	100	96	92	95	91	88	90	88	85	86	84	82	82	82	82	80
2	98	89	82	76	95	87	80	75	83	77	73	79	74	71	75	72	68	68	68	68	66
3	89	78	70	63	86	76	69	62	73	66	61	70	64	59	67	62	58	58	58	58	56
4	81	69	60	53	79	68	59	53	65	57	52	62	56	51	59	54	50	50	50	50	47
5	75	62	53	46	72	60	52	46	58	50	45	56	49	44	53	48	43	43	43	43	41
6	69	56	47	40	67	54	46	40	52	45	39	50	44	39	48	43	38	38	38	38	36
7	64	50	42	35	62	49	41	35	48	40	35	46	39	34	44	38	34	34	34	34	32
8	60	46	37	31	58	45	37	31	43	36	31	42	35	31	41	35	30	30	30	30	28
9	56	42	34	28	54	41	34	28	40	33	28	39	32	28	37	32	27	27	27	27	25
10	52	39	31	26	51	38	31	26	37	30	25	36	29	25	35	29	25	25	25	25	23

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	9285	9285	9285
5°	9226	9193	9220
10°	9161	9108	9165
15°	9059	9007	9096
20°	8923	8884	8997
25°	8741	8732	8897
30°	8490	8567	8797
35°	8186	8392	8708
40°	7821	8190	8621
45°	7390	7971	8510
50°	6919	7749	8377
55°	6340	7477	8157
60°	5747	7158	7728
65°	5099	6751	7031
70°	4397	6234	6275
75°	3687	5636	5754
80°	2795	5192	5670
85°	1768	5348	6253



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	515.1	3.2
10°-20°	1477.8	9.1
20°-30°	2234.9	13.7
30°-40°	2683.1	16.5
40°-50°	2771.2	17.0
50°-60°	2493.2	15.3
60°-70°	1878.1	11.5
70°-80°	1134.0	7.0
80°-90°	554.6	3.4
90°-100°	233.5	1.4
100°-110°	133.3	0.8
110°-120°	78.2	0.5
120°-130°	44.2	0.3
130°-140°	23.3	0.1
140°-150°	11.3	0.1
150°-160°	4.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	4227.9	26.0
0°-40°	6910.9	42.5
0°-60°	12175.2	74.8
0°-90°	15742.0	96.8
90°-120°	445.0	2.7
90°-150°	523.8	3.2
90°-180°	528.0	3.2
0°-180°	16270.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5436	5436	5436	5436	5436	
5°	5402	5416	5410	5431	5424	513
15°	5184	5209	5233	5277	5282	1461
25°	4734	4786	4854	4929	4941	2177
35°	4047	4142	4312	4442	4469	2530
45°	3194	3356	3636	3834	3876	2466
55°	2263	2497	2876	3093	3131	2029
65°	1381	1663	2036	2137	2113	1372
75°	651	934	1179	1209	1197	694
85°	136	358	591	672	684	157
90°	0	140	338	426	443	9
95°	7	94	253	322	334	6
105°	9	54	146	192	200	9
115°	11	31	90	121	126	11
125°	11	15	54	78	82	10
135°	9	12	28	48	53	7
145°	13	12	13	24	28	8
155°	13	15	13	12	13	4
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	



TEST NUMBER: P829975

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

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5436.3	5436.3	5436.3	5436.3	5436.3
2.5°	5420.4	5433.7	5425.7	5443.0	5441.6
5°	5401.7	5416.4	5409.7	5431.0	5424.4
7.5°	5369.8	5385.8	5384.4	5408.4	5405.7
10°	5323.2	5340.5	5345.9	5377.8	5377.8
12.5°	5259.4	5282.0	5295.3	5333.9	5335.2
15°	5183.5	5208.8	5232.8	5276.7	5282.0
17.5°	5091.7	5123.7	5156.9	5207.5	5214.1
20°	4988.0	5023.9	5069.1	5122.3	5130.3
22.5°	4868.2	4910.8	4969.3	5031.9	5041.2
25°	4733.8	4785.7	4853.6	4929.4	4941.4
27.5°	4580.8	4640.7	4732.5	4817.7	4828.3
30°	4414.5	4485.0	4599.5	4700.6	4717.9
32.5°	4238.9	4320.1	4461.1	4574.2	4598.1
35°	4047.3	4141.8	4312.1	4442.5	4469.1
37.5°	3858.4	3962.2	4155.1	4304.1	4336.0
40°	3637.5	3766.6	3987.4	4152.4	4191.0
42.5°	3430.0	3569.7	3819.8	3999.4	4036.7
45°	3194.5	3355.5	3636.2	3834.4	3875.7
47.5°	2973.6	3147.9	3459.2	3664.1	3706.7
50°	2740.8	2932.4	3270.3	3484.5	3528.4
52.5°	2507.9	2714.2	3074.7	3296.9	3338.2
55°	2263.1	2497.3	2876.5	3093.4	3130.6
57.5°	2035.6	2283.1	2672.9	2879.1	2901.8
60°	1810.8	2067.6	2465.4	2646.3	2654.3
62.5°	1591.2	1861.3	2252.5	2396.2	2385.5
65°	1381.0	1663.1	2035.6	2136.7	2112.8
67.5°	1178.8	1470.2	1813.4	1878.6	1846.7
70°	987.2	1282.6	1597.9	1631.2	1601.9
72.5°	818.2	1104.3	1379.7	1407.6	1386.4
75°	650.6	934.0	1178.8	1209.4	1197.4
77.5°	493.6	769.0	993.9	1033.8	1036.4
80°	355.2	618.7	832.9	895.4	903.4
82.5°	234.2	480.3	698.5	778.3	790.3
85°	135.7	357.9	590.7	671.9	683.9
87.5°	58.5	258.1	475.0	548.2	562.8
90°	0.0	139.7	337.9	425.8	443.0
92.5°	4.0	115.8	290.0	369.9	384.5
95°	6.7	94.5	252.8	322.0	333.9
97.5°	8.0	79.8	219.5	280.7	292.7
100°	8.0	69.2	190.3	246.1	256.8
102.5°	8.0	61.2	166.3	215.5	224.9
105°	9.3	54.5	146.4	191.6	199.6



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	10.6	35.9	101.1	135.7	141.0
115°	10.6	30.6	90.5	121.1	126.4
117.5°	12.0	26.6	79.8	109.1	113.1
120°	12.0	22.6	70.5	97.1	102.4
122.5°	12.0	18.6	62.5	87.8	91.8
125°	10.6	14.6	54.5	78.5	82.5
127.5°	9.3	12.0	46.6	70.5	74.5
130°	9.3	10.6	39.9	62.5	66.5
132.5°	9.3	12.0	33.3	54.5	59.9
135°	9.3	12.0	27.9	47.9	53.2
137.5°	9.3	12.0	22.6	41.2	46.6
140°	10.6	12.0	18.6	34.6	39.9
142.5°	12.0	12.0	14.6	29.3	33.3
145°	13.3	12.0	13.3	23.9	27.9
147.5°	13.3	13.3	13.3	18.6	22.6
150°	13.3	14.6	13.3	14.6	18.6
152.5°	13.3	14.6	13.3	12.0	14.6
155°	13.3	14.6	13.3	12.0	13.3
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°	9.3	47.9	129.1	170.3	177.0
110°	9.3	42.6	114.4	151.7	158.3



(END OF REPORT)