

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: P829963

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

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P829963
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2103-200-1)
Test Lab: INNOVATION CENTER
Issue Date: 5/3/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: OHBL-18SE-MCL-UNV-L830-CD
Description: 18000 LUMEN OHBL SE LED LUMINAIRE WITH 80CRI, 3000K LEDS AND MEDIUM CLEAR LENS
Light Source: -
Ballast/Driver: -

Summary

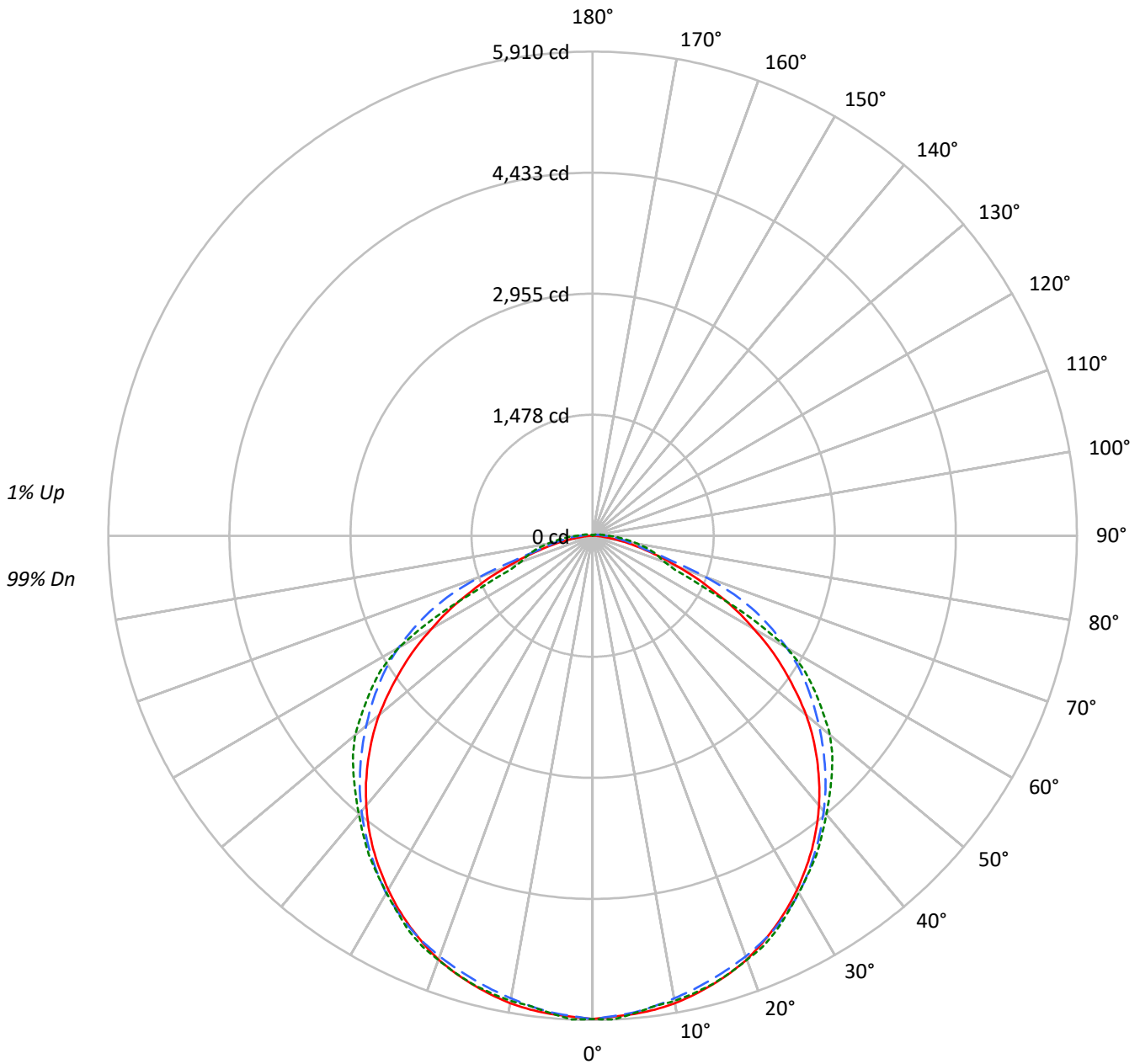
Lumens per Lamp: N/A
Luminaire Lumens: 16671.0 lumens
Efficiency: N/A
Efficacy: 158.8 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 1.67' x L: 3.78' x H: 0.17')
CIE Type: Direct

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									
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	106	106	106	101	101	101	99																			
1	109	104	100	96	106	102	98	95	97	94	91	93	91	88	90	87	86	83																			
2	99	91	84	79	96	89	83	78	85	80	76	82	78	74	79	75	72	70																			
3	91	80	72	66	88	79	71	65	75	69	64	72	67	63	70	65	61	59																			
4	83	71	62	56	81	70	62	55	67	60	54	65	59	54	62	57	53	51																			
5	76	64	55	48	74	62	54	48	60	53	47	58	52	46	56	50	46	44																			
6	70	57	48	42	68	56	48	42	54	47	41	52	46	41	51	45	40	38																			
7	65	52	43	37	63	51	43	37	49	42	36	48	41	36	46	40	36	34																			
8	61	47	39	33	59	46	38	33	45	38	33	44	37	32	42	36	32	30																			
9	57	43	35	30	55	43	35	29	41	34	29	40	34	29	39	33	29	27																			
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	36	30	26	24																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10074	10074	10074
5°	10008	9923	9942
10°	9972	9768	9826
15°	9908	9652	9753
20°	9845	9576	9661
25°	9726	9501	9568
30°	9597	9383	9380
35°	9442	9200	9273
40°	9242	9011	9129
45°	8963	8792	9060
50°	8586	8544	8978
55°	7987	8298	8631
60°	7202	7941	7966
65°	6178	7286	5037
70°	4976	5676	3642
75°	3731	3360	3680
80°	2597	2780	3489
85°	1478	2525	3229



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.1	3.3
10°-20°	1594.8	9.6
20°-30°	2435.7	14.6
30°-40°	2955.4	17.7
40°-50°	3097.5	18.6
50°-60°	2806.8	16.8
60°-70°	1881.9	11.3
70°-80°	845.0	5.1
80°-90°	306.6	1.8
90°-100°	92.3	0.6
100°-110°	43.5	0.3
110°-120°	21.8	0.1
120°-130°	12.0	0.1
130°-140°	8.3	0.0
140°-150°	5.6	0.0
150°-160°	4.1	0.0
160°-170°	2.7	0.0
170°-180°	0.8	0.0
0°-30°	4586.6	27.5
0°-40°	7542.0	45.2
0°-60°	13446.3	80.7
0°-90°	16479.8	98.9
90°-120°	157.7	0.9
90°-150°	183.5	1.1
90°-180°	191.0	1.1
0°-180°	16671.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5898	5898	5898	5898	5898	
5°	5860	5880	5839	5857	5850	557
15°	5670	5648	5607	5657	5664	1601
25°	5267	5244	5281	5329	5314	2428
35°	4668	4680	4727	4778	4759	2918
45°	3874	3938	4011	4113	4126	2985
55°	2851	2988	3192	3320	3312	2545
65°	1673	1935	2197	1854	1514	1667
75°	658	955	703	719	766	720
85°	113	218	279	337	353	138
90°	1	72	144	181	189	7
95°	1	45	99	120	124	1
105°	3	20	49	59	61	4
115°	7	10	25	32	33	6
125°	6	7	15	18	19	6
135°	8	8	9	14	14	6
145°	8	8	8	9	10	5
155°	8	9	9	9	8	4
165°	9	9	9	9	9	3
175°	9	9	8	8	8	1
180°	8	8	8	8	8	



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

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5898.2	5898.2	5898.2	5898.2	5898.2
2.5°	5874.3	5899.1	5868.4	5901.6	5910.2
5°	5859.8	5880.3	5839.4	5857.3	5849.6
7.5°	5833.4	5840.2	5791.6	5806.1	5790.8
10°	5794.2	5790.8	5733.6	5761.8	5765.2
12.5°	5736.2	5725.9	5674.8	5717.4	5718.3
15°	5669.7	5647.5	5607.4	5656.9	5663.7
17.5°	5592.9	5563.9	5537.5	5601.4	5591.2
20°	5503.4	5469.2	5464.1	5534.1	5508.5
22.5°	5392.5	5366.0	5378.0	5444.5	5428.3
25°	5267.1	5244.1	5280.8	5329.4	5314.0
27.5°	5134.9	5121.3	5163.1	5200.6	5170.7
30°	4989.9	4982.3	5037.7	5068.4	5030.9
32.5°	4832.2	4834.7	4887.6	4929.4	4894.4
35°	4668.4	4679.5	4727.3	4777.6	4758.8
37.5°	4488.5	4513.2	4561.0	4618.1	4598.5
40°	4298.3	4334.1	4387.0	4456.1	4438.2
42.5°	4092.8	4138.0	4206.2	4282.9	4281.2
45°	3874.4	3937.5	4010.9	4113.2	4126.0
47.5°	3647.6	3718.4	3811.3	3947.8	3967.4
50°	3401.1	3489.8	3605.8	3769.5	3781.5
52.5°	3126.5	3247.6	3401.1	3558.0	3543.5
55°	2851.0	2988.3	3192.2	3320.1	3312.4
57.5°	2576.4	2730.8	2978.1	3069.4	3068.5
60°	2269.4	2464.7	2735.0	2804.1	2735.9
62.5°	1985.4	2195.2	2475.8	2425.5	2191.8
65°	1673.3	1935.1	2196.9	1854.1	1513.8
67.5°	1396.1	1669.0	1866.0	1269.9	1087.4
70°	1117.2	1418.3	1454.9	942.4	929.6
72.5°	869.9	1190.6	1003.8	806.8	847.7
75°	658.4	955.2	702.7	718.9	765.8
77.5°	480.1	733.4	546.7	630.2	668.6
80°	330.0	519.4	446.0	529.6	556.0
82.5°	207.2	342.8	357.3	426.4	453.7
85°	113.4	217.5	278.9	336.9	353.1
87.5°	46.9	131.3	213.2	260.1	273.8
90°	0.9	72.5	144.1	180.8	189.3
92.5°	0.9	55.4	117.7	145.8	151.8
95°	0.9	45.2	98.9	120.2	123.7
97.5°	1.7	35.8	82.7	99.8	103.2
100°	2.6	29.8	69.1	83.6	86.1
102.5°	3.4	23.9	58.0	69.9	72.5
105°	3.4	19.6	48.6	58.8	61.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	6.0	11.9	29.0	36.7	38.4
115°	6.8	10.2	24.7	31.6	33.3
117.5°	6.8	8.5	21.3	26.4	28.1
120°	6.8	7.7	18.8	23.0	23.9
122.5°	6.8	6.8	16.2	20.5	21.3
125°	6.0	6.8	15.4	17.9	18.8
127.5°	6.8	6.8	13.6	16.2	17.1
130°	6.8	7.7	11.9	15.4	15.4
132.5°	7.7	8.5	11.1	14.5	14.5
135°	7.7	8.5	9.4	13.6	14.5
137.5°	8.5	8.5	8.5	12.8	13.6
140°	8.5	8.5	7.7	11.1	11.9
142.5°	7.7	8.5	7.7	10.2	11.1
145°	7.7	8.5	8.5	9.4	10.2
147.5°	8.5	8.5	8.5	8.5	9.4
150°	8.5	8.5	8.5	8.5	8.5
152.5°	8.5	8.5	8.5	8.5	8.5
155°	8.5	9.4	9.4	9.4	8.5
157.5°	8.5	9.4	9.4	9.4	9.4
160°	8.5	9.4	9.4	9.4	9.4
162.5°	9.4	9.4	9.4	9.4	9.4
165°	9.4	9.4	9.4	9.4	9.4
167.5°	9.4	10.2	9.4	9.4	9.4
170°	9.4	9.4	9.4	8.5	8.5
172.5°	9.4	9.4	9.4	8.5	8.5
175°	9.4	9.4	8.5	7.7	7.7
177.5°	10.2	9.4	8.5	7.7	6.8
180°	8.5	8.5	8.5	8.5	8.5



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180° - - 45°-225° - - - - 90°-270°







107.5°	4.3	16.2	41.8	50.3	52.0
110°	5.1	13.6	35.0	42.6	44.3



(END OF REPORT)