

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: P826512

Luminaire Tested: **OHBL-18SE-MCL-UNV-L830-CD-UPL12**

Issue Date: 5/3/2024



Test Information

Test Method: LM-79-08
Report Number: P826512
REPORT IS A COMBINATION OF REPORTS P826066 AND G3-2310-221-12
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-UPL12
Description:
Light Source: -
Ballast/Driver: -

Summary

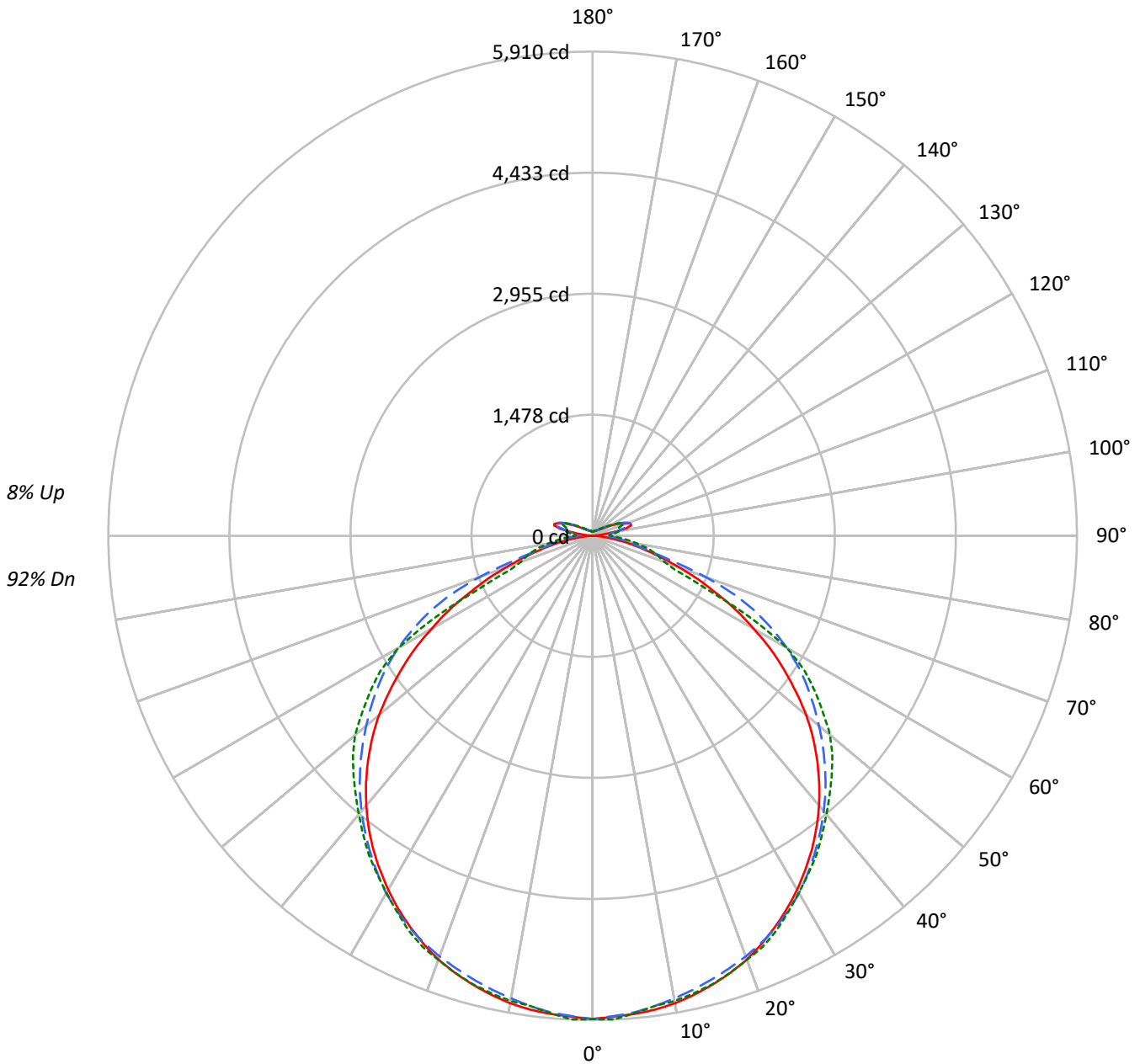
Lumens per Lamp: N/A
Luminaire Lumens: 17829.7 lumens
Efficiency: N/A
Efficacy: 157.2 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Direct

Input Watts (W): 113.4
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	117	117	117	117	114	114	114	114	107	107	107	101	101	101	95	95	95	92																			
1	107	103	99	95	104	100	96	93	94	91	88	89	87	84	84	82	81	78																			
2	98	90	83	78	95	87	81	76	83	78	73	78	74	71	74	71	68	65																			
3	89	79	71	65	86	77	70	64	73	67	62	69	64	60	66	61	58	55																			
4	82	70	62	55	79	68	60	54	65	58	53	62	56	51	59	54	50	47																			
5	75	63	54	47	73	61	53	47	58	51	45	55	49	44	53	47	43	41																			
6	69	56	47	41	67	55	47	41	52	45	40	50	44	39	48	42	38	36																			
7	64	51	42	36	62	50	42	36	48	40	35	46	39	34	44	38	34	32																			
8	60	46	38	32	58	45	37	32	43	36	31	42	35	31	40	34	30	28																			
9	56	43	34	29	54	42	34	29	40	33	28	38	32	28	37	31	27	25																			
10	52	39	31	26	51	38	31	26	37	30	26	36	29	25	34	29	25	23																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	10074	10074	10074
5°	9960	9923	9991
10°	9875	9768	9922
15°	9764	9652	9898
20°	9651	9576	9854
25°	9484	9500	9813
30°	9304	9383	9676
35°	9097	9200	9625
40°	8841	9011	9542
45°	8508	8792	9545
50°	8075	8544	9546
55°	7429	8298	9279
60°	6607	7941	8683
65°	5568	7286	5589
70°	4376	5676	4141
75°	3164	3360	4340
80°	2072	2780	4375
85°	1037	2525	4601



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.1	3.1
10°-20°	1594.8	8.9
20°-30°	2435.7	13.7
30°-40°	2955.3	16.6
40°-50°	3097.5	17.4
50°-60°	2806.8	15.7
60°-70°	1881.8	10.6
70°-80°	845.0	4.7
80°-90°	309.6	1.7
90°-100°	203.0	1.1
100°-110°	428.7	2.4
110°-120°	352.7	2.0
120°-130°	170.6	1.0
130°-140°	87.6	0.5
140°-150°	51.7	0.3
150°-160°	31.1	0.2
160°-170°	16.6	0.1
170°-180°	5.1	0.0
0°-30°	4586.6	25.7
0°-40°	7541.9	42.3
0°-60°	13446.2	75.4
0°-90°	16482.6	92.4
90°-120°	984.4	5.5
90°-150°	1294.3	7.3
90°-180°	1347.0	7.6
0°-180°	17829.7	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	5647	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°	4	89	166	210	222	9
95°	24	99	179	228	248	78
105°	484	495	454	346	326	459
115°	342	345	361	365	361	341
125°	170	177	189	190	192	159
135°	102	106	111	116	117	82
145°	77	80	81	83	85	49
155°	64	66	67	68	67	30
165°	58	58	59	59	59	16
175°	53	53	52	51	51	5
180°	51	51	51	51	51	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	5898.1	5898.1	5898.1	5898.1	<i>5898.1</i>
2.5°	<i>5874.3</i>	<i>5899.1</i>	<i>5868.4</i>	<i>5901.6</i>	<i>5910.1</i>
5°	5859.8	5880.3	5839.3	5857.3	<i>5849.6</i>
7.5°	5833.4	5840.2	5791.6	5806.1	<i>5790.8</i>
10°	5794.1	5790.8	5733.6	5761.7	<i>5765.2</i>
12.5°	5736.1	5725.9	5674.7	5717.3	<i>5718.3</i>
15°	5669.6	5647.4	5607.3	5656.8	<i>5663.6</i>
17.5°	5592.8	5563.9	5537.5	5601.4	<i>5591.2</i>
20°	5503.3	5469.2	5464.1	5534.0	<i>5508.4</i>
22.5°	5392.5	5366.0	5378.0	5444.5	<i>5428.3</i>
25°	5267.1	5244.1	5280.7	5329.4	<i>5314.0</i>
27.5°	5134.9	5121.2	5163.0	5200.6	<i>5170.7</i>
30°	4989.9	4982.2	5037.7	5068.4	<i>5030.9</i>
32.5°	4832.1	4834.7	4887.6	4929.3	<i>4894.4</i>
35°	4668.4	4679.5	4727.2	4777.6	<i>4758.8</i>
37.5°	4488.4	4513.2	4560.9	4618.1	<i>4598.4</i>
40°	4298.2	4334.1	4386.9	4456.1	<i>4438.1</i>
42.5°	4092.8	4137.9	4206.2	4282.9	<i>4281.2</i>
45°	3874.4	3937.6	4010.9	4113.2	<i>4126.0</i>
47.5°	3647.6	3718.3	3811.3	3947.8	<i>3967.3</i>
50°	3401.1	3489.8	3605.8	3769.5	<i>3781.5</i>
52.5°	3126.5	3247.5	3401.1	3558.0	<i>3543.6</i>
55°	2851.0	2988.3	3192.2	3320.0	<i>3312.4</i>
57.5°	2576.4	2730.8	2978.1	3069.3	<i>3068.5</i>
60°	2269.3	2464.7	2735.0	2804.1	<i>2735.9</i>
62.5°	1985.4	2195.2	2475.7	2425.5	<i>2191.7</i>
65°	1673.2	1935.1	2196.9	1854.0	<i>1513.7</i>
67.5°	1396.1	1669.0	1866.0	1269.8	<i>1087.4</i>
70°	1117.2	1418.3	1454.9	942.4	<i>929.6</i>
72.5°	869.9	1190.6	1003.8	806.8	<i>847.7</i>
75°	658.4	955.2	702.8	718.9	<i>765.8</i>
77.5°	480.2	733.5	546.7	630.3	<i>668.6</i>
80°	330.1	519.3	446.0	529.6	<i>556.0</i>
82.5°	207.2	342.8	357.3	426.4	<i>453.7</i>
85°	113.4	217.5	278.9	336.9	<i>353.1</i>
87.5°	46.9	131.3	213.2	260.1	<i>273.8</i>
90°	3.6	89.2	166.5	209.7	<i>221.9</i>
92.5°	9.2	76.9	153.1	196.1	<i>206.7</i>
95°	24.1	99.2	178.9	228.2	<i>248.4</i>
97.5°	127.3	172.6	237.2	282.1	<i>294.9</i>
100°	259.3	306.2	298.9	323.6	<i>330.9</i>
102.5°	412.0	426.8	352.0	336.1	<i>334.0</i>
105°	484.5	495.1	454.3	346.4	<i>325.7</i>



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	394.9	403.7	418.0	410.7	396.6
115°	341.8	345.2	360.7	364.7	360.8
117.5°	287.8	293.3	308.9	311.2	311.0
120°	242.2	248.6	261.7	262.1	263.1
122.5°	205.0	209.7	221.8	223.3	225.1
125°	169.7	177.1	189.4	190.0	191.9
127.5°	143.6	149.2	162.6	164.2	165.0
130°	125.9	130.5	139.4	143.8	143.8
132.5°	113.7	117.4	123.7	128.0	129.0
135°	102.5	106.3	110.8	116.0	116.9
137.5°	96.0	97.9	100.7	105.8	107.7
140°	88.6	91.4	92.3	96.7	97.5
142.5°	82.1	84.9	85.8	89.3	91.1
145°	77.4	80.2	81.1	82.9	84.7
147.5°	73.7	75.6	77.4	77.4	79.2
150°	70.9	71.8	72.8	73.7	73.7
152.5°	67.2	68.1	69.0	70.0	70.0
155°	64.4	66.2	67.1	68.0	67.2
157.5°	61.6	64.3	64.3	65.2	65.2
160°	59.7	61.5	62.4	62.4	62.4
162.5°	58.7	59.6	59.6	60.6	60.6
165°	57.8	57.8	58.7	58.7	58.7
167.5°	55.9	56.8	56.9	56.9	56.9
170°	55.0	55.0	55.0	55.1	55.1
172.5°	54.1	54.1	54.1	53.2	53.2
175°	53.1	53.1	52.3	51.4	51.4
177.5°	53.0	53.1	52.3	51.4	50.5
180°	51.4	51.4	51.4	51.4	51.4



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	488.2	501.9	489.4	397.4	339.6
110°	448.1	463.1	464.0	433.5	387.8



(END OF REPORT)