

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: P826514

Luminaire Tested: **OHBL-18SE-MCL-UNV-L830-CD-UPL24**

Issue Date: 5/3/2024

Test Information

Test Method: LM-79-08
Report Number: P826514
REPORT IS A COMBINATION OF REPORTS P826234 AND G3-2310-221-6
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-UPL24
Description:
Light Source: -
Ballast/Driver: -

Summary

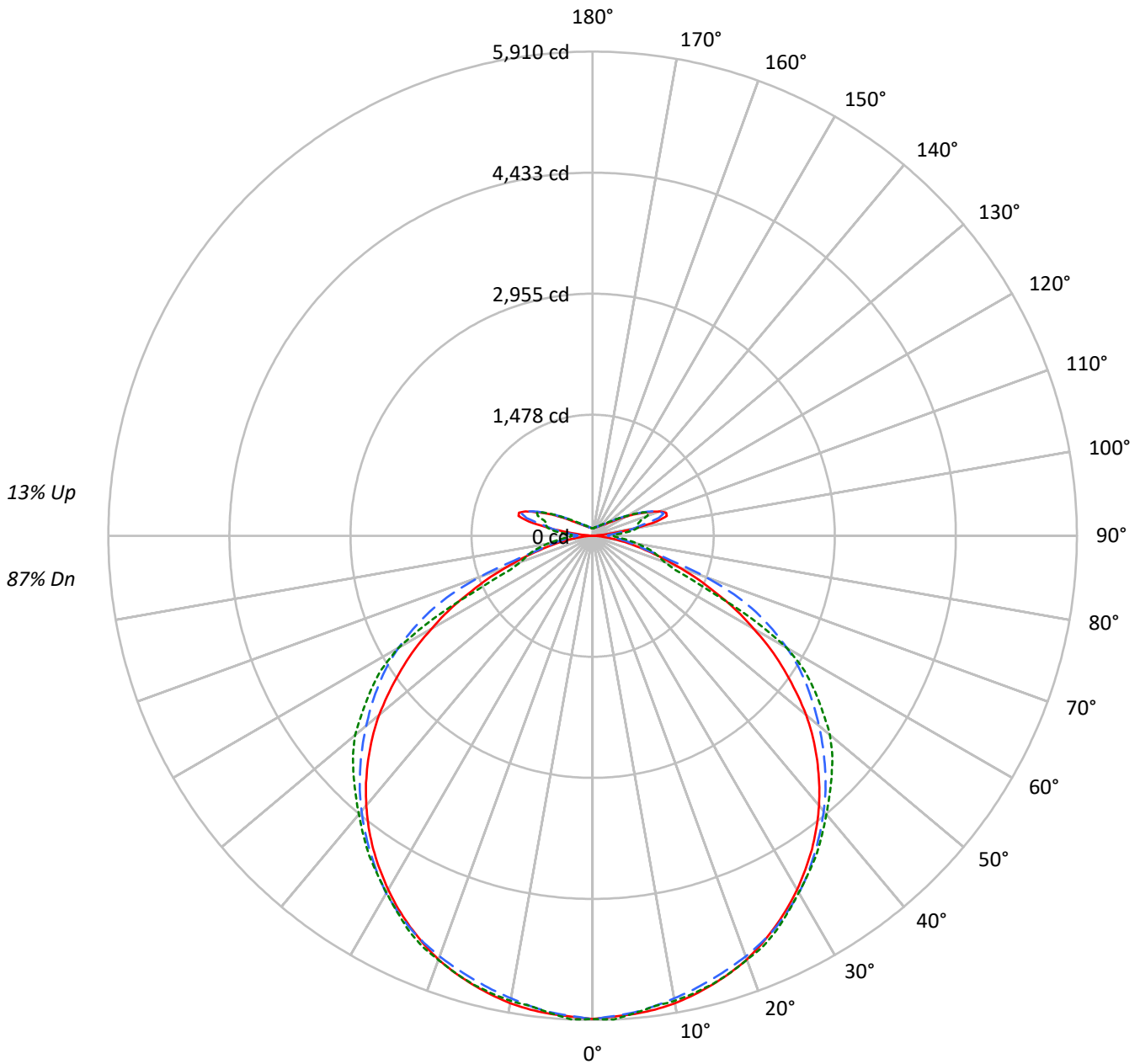
Lumens per Lamp: N/A
Luminaire Lumens: 18923.1 lumens
Efficiency: N/A
Efficacy: 154.6 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.27 / 1.39
Luminous Opening: Rectangular w/ Sides (W: 3.78' x L: 1.67' x H: 0.17')
CIE Type: Semi-Direct

Input Watts (W): 122.4
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

TEST NUMBER: P826514

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L830-CD-UPL24

Luminous Intensity Polar Plot





TEST NUMBER: P826514

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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	116	116	116	116	112	112	112	112	104	104	104	97	97	97	90	90	90	87																			
1	106	102	98	94	102	98	94	91	92	89	86	85	83	81	80	78	76	74																			
2	97	89	82	77	93	86	80	75	80	75	71	75	71	68	70	67	64	62																			
3	88	78	70	64	85	76	68	63	71	65	60	66	61	57	62	58	55	52																			
4	81	69	61	54	78	67	59	53	63	56	51	59	54	49	56	51	47	45																			
5	74	62	53	47	71	60	52	46	56	49	44	53	47	43	50	45	41	39																			
6	69	56	47	41	66	54	46	40	51	44	39	48	42	37	45	40	36	34																			
7	63	50	42	36	61	49	41	35	46	39	34	44	38	33	41	36	32	30																			
8	59	46	37	32	57	45	37	31	42	35	30	40	34	29	38	33	29	26																			
9	55	42	34	28	53	41	33	28	39	32	27	37	31	26	35	30	26	24																			
10	52	39	31	26	50	38	30	25	36	29	25	34	28	24	32	27	23	22																			

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



TEST NUMBER: P826514

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	556.1	2.9
10°-20°	1594.8	8.4
20°-30°	2435.7	12.9
30°-40°	2955.3	15.6
40°-50°	3097.5	16.4
50°-60°	2806.8	14.8
60°-70°	1881.8	9.9
70°-80°	845.0	4.5
80°-90°	312.4	1.7
90°-100°	308.0	1.6
100°-110°	792.6	4.2
110°-120°	664.3	3.5
120°-130°	320.3	1.7
130°-140°	162.5	0.9
140°-150°	95.0	0.5
150°-160°	56.3	0.3
160°-170°	29.7	0.2
170°-180°	9.1	0.0
0°-30°	4586.6	24.2
0°-40°	7541.9	39.9
0°-60°	13446.2	71.1
0°-90°	16485.4	87.1
90°-120°	1764.9	9.3
90°-150°	2342.7	12.4
90°-180°	2438.0	12.9
0°-180°	18923.1	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°	6	104	188	238	254	10
95°	50	148	259	332	364	154
105°	937	943	834	618	575	890
115°	651	661	675	680	676	656
125°	320	338	353	355	353	301
135°	194	198	206	212	215	153
145°	143	147	150	152	154	91
155°	116	119	121	122	121	55
165°	102	103	104	104	104	29
175°	93	94	93	93	93	9
180°	92	92	92	92	92	



TEST NUMBER: P826514

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L830-CD-UPL24

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°	5.5	104.1	187.9	238.5	<i>253.6</i>
92.5°	16.7	97.3	184.7	240.7	<i>258.8</i>
95°	50.2	148.5	259.0	332.4	<i>363.8</i>
97.5°	252.0	306.6	374.0	452.4	<i>486.6</i>
100°	516.2	575.2	509.2	548.8	<i>559.8</i>
102.5°	797.2	813.0	633.1	585.5	<i>580.6</i>
105°	936.8	942.7	834.0	618.1	<i>575.1</i>



TEST NUMBER: P826514

CATALOG NUMBER: OHBL-18SE-MCL-UNV-L830-CD-UPL24

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	757.8	775.0	777.2	763.4	735.3
115°	650.7	660.7	675.2	680.1	676.2
117.5°	557.7	560.4	576.9	581.0	583.6
120°	462.8	473.8	493.4	492.9	488.3
122.5°	389.3	400.4	415.4	417.8	413.1
125°	320.5	338.1	353.1	354.7	352.9
127.5°	272.9	285.0	301.2	304.7	304.6
130°	238.5	246.8	260.4	264.7	265.7
132.5°	213.3	220.7	229.8	236.9	236.0
135°	193.7	198.4	205.7	211.9	214.6
137.5°	178.9	181.6	187.2	194.2	195.1
140°	164.9	168.6	172.3	177.6	179.4
142.5°	151.9	156.5	159.3	163.8	164.6
145°	142.6	147.2	150.0	151.8	153.5
147.5°	135.1	138.8	140.7	142.6	143.4
150°	128.6	130.5	133.3	134.2	135.1
152.5°	122.1	124.0	126.7	127.7	127.7
155°	116.5	119.2	121.1	122.0	121.2
157.5°	111.9	114.6	116.4	117.3	117.3
160°	108.1	109.9	111.8	112.7	112.7
162.5°	105.2	106.2	107.1	108.0	108.0
165°	102.5	103.4	104.3	104.3	104.3
167.5°	99.7	100.5	100.6	101.5	101.5
170°	96.9	97.8	97.8	97.9	97.9
172.5°	95.0	95.9	95.9	95.1	96.0
175°	93.1	94.1	93.2	93.2	93.2
177.5°	94.0	93.1	92.3	91.4	90.5
180°	92.3	92.3	92.3	92.3	92.3



Report Generated By 670246072 / DESKTOP-50001EG





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







107.5°	941.4	957.0	910.0	728.7	616.9
110°	869.6	886.5	866.0	802.0	712.5



(END OF REPORT)