

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: P290168

Luminaire Tested: **8SSRK-LN-12-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290168  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-10)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SSRK-LN-12-L830-CD1-U  
Description: 12000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 80 CRI 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11372.4 lumens  
Efficiency: N/A  
Efficacy: 140.6 lumens/watt  
Spacing Criteria (0/90/45): 1.28 / 1.03 / 1.16  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct

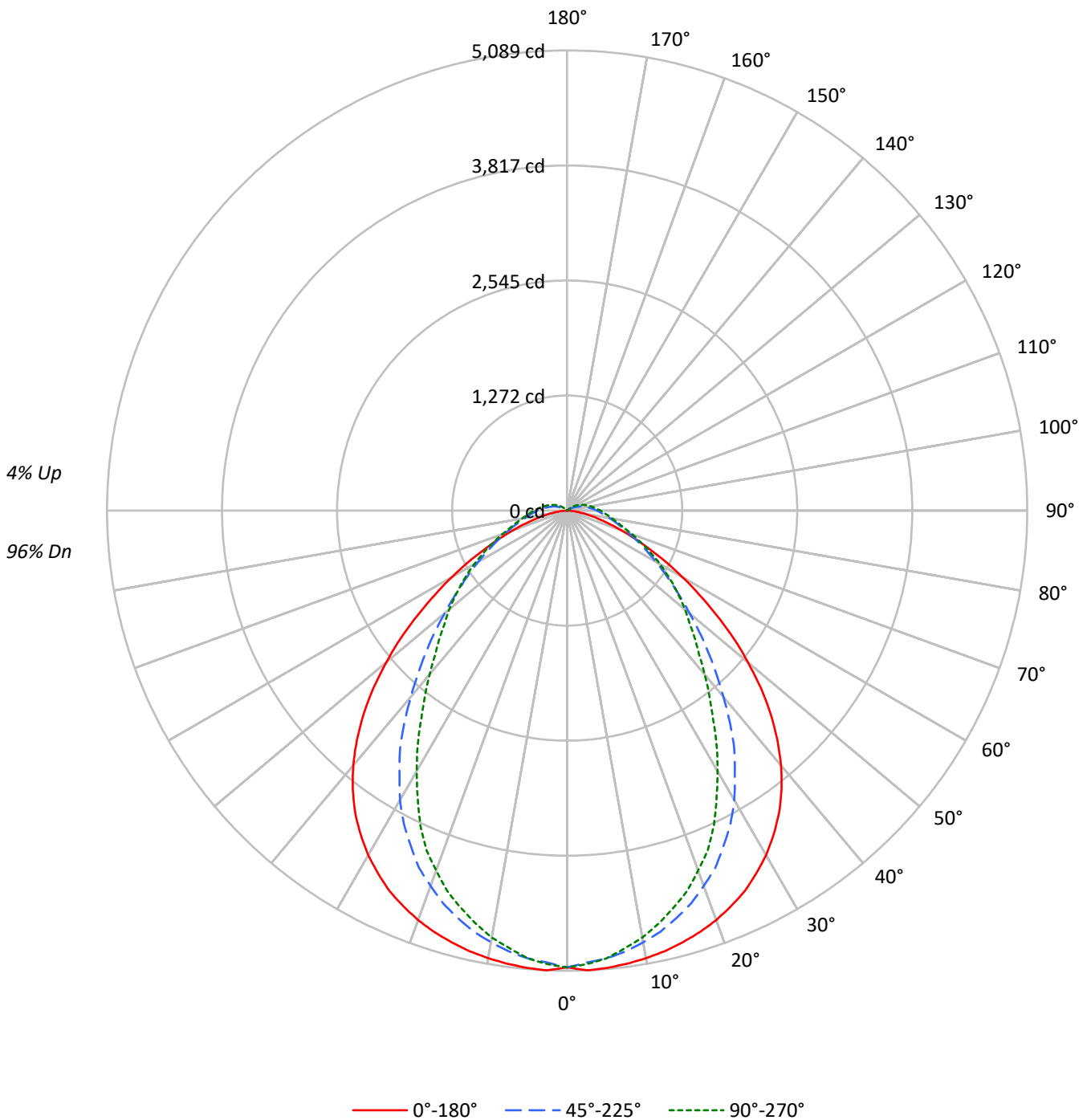
Input Watts (W): 80.8951  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	103	103	103	98	98	98	96				
1	108	104	99	96	105	101	97	94	96	93	90	91	89	86	87	85	83	81				
2	99	91	85	80	96	89	83	78	85	80	76	81	77	74	78	74	71	69				
3	91	81	74	68	88	79	72	67	76	70	65	73	68	63	70	65	62	59				
4	84	73	65	58	81	71	64	58	68	62	56	65	60	55	63	58	54	52				
5	78	66	57	51	75	64	56	51	62	55	50	59	53	49	57	52	48	46				
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	47	43	41				
7	67	54	46	40	65	53	46	40	52	45	39	50	44	39	48	43	38	36				
8	63	50	42	36	61	49	41	36	47	41	36	46	40	35	44	39	35	33				
9	59	46	38	33	57	45	38	33	44	37	32	43	36	32	41	36	32	30				
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	38	33	29	27				

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

	0°	45°	90°
0°	163124	163124	163124
5°	164229	129047	119372
10°	164204	105889	92195
15°	164294	88545	73355
20°	164350	74582	59270
25°	163908	62696	47750
30°	162124	52184	37478
35°	158757	42502	29172
40°	152543	33471	22920
45°	142517	26160	18214
50°	127848	20226	14831
55°	110197	15742	12047
60°	91793	12349	9686
65°	73170	9720	7650
70°	57091	7695	6014
75°	42728	6252	4788
80°	30917	5156	3970
85°	19212	4349	3384



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	474.3	4.2
10°-20°	1328.1	11.7
20°-30°	1914.0	16.8
30°-40°	2073.3	18.2
40°-50°	1836.3	16.1
50°-60°	1397.3	12.3
60°-70°	930.9	8.2
70°-80°	575.1	5.1
80°-90°	360.4	3.2
90°-100°	236.8	2.1
100°-110°	145.1	1.3
110°-120°	74.9	0.7
120°-130°	24.6	0.2
130°-140°	1.5	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3716.4	32.7
0°-40°	5789.6	50.9
0°-60°	9023.2	79.3
0°-90°	10889.6	95.8
90°-120°	456.7	4.0
90°-150°	482.8	4.2
90°-180°	483.0	4.2
0°-180°	11372.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	5052	5052	5052	5052	5052	
5°	5076	5044	4971	4990	4971	483
15°	4942	4848	4666	4604	4546	1396
25°	4645	4427	4093	3917	3840	2137
35°	4086	3703	3225	2921	2813	2546
45°	3186	2687	2202	2034	1994	2444
55°	2016	1645	1415	1432	1436	1811
65°	1000	877	903	955	959	1010
75°	369	449	582	621	611	408
85°	64	231	393	433	427	78
90°	3	168	328	369	366	5
95°	7	119	272	314	313	5
105°	4	47	170	217	222	5
115°	4	4	87	135	147	3
125°	3	3	3	59	74	2
135°	0	0	0	0	0	1
145°	0	0	0	0	0	0
155°	0	0	0	0	0	0
165°	0	0	0	0	0	0
175°	0	0	0	0	0	0
180°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	5051.6	5051.6	5051.6	5051.6	5051.6
2.5°	5089.1	5061.0	5003.5	5036.9	5020.9
5°	5075.7	5043.6	4971.4	4990.1	4971.4
7.5°	5054.3	5014.2	4917.9	4925.9	4881.8
10°	5026.2	4972.7	4848.3	4834.9	4794.8
12.5°	4990.1	4915.2	4769.4	4715.9	4677.1
15°	4941.9	4848.3	4666.4	4603.6	4546.0
17.5°	4887.1	4766.7	4555.4	4479.2	4411.0
20°	4818.9	4667.8	4416.3	4310.7	4235.8
22.5°	4736.0	4559.4	4278.6	4124.7	4064.6
25°	4645.0	4427.0	4092.6	3917.4	3839.9
27.5°	4526.0	4281.2	3909.4	3690.1	3579.1
30°	4400.3	4108.7	3696.8	3444.0	3326.3
32.5°	4249.1	3920.1	3450.7	3181.8	3077.5
35°	4086.0	3703.4	3224.6	2921.0	2812.7
37.5°	3893.4	3469.4	2955.8	2677.6	2582.6
40°	3682.0	3215.3	2688.3	2443.6	2368.7
42.5°	3441.3	2957.1	2436.9	2225.5	2161.3
45°	3185.8	2687.0	2201.5	2034.3	1994.2
47.5°	2907.7	2416.8	1980.8	1861.8	1832.3
50°	2608.1	2146.6	1766.8	1701.3	1702.6
52.5°	2323.2	1891.2	1584.9	1567.5	1563.5
55°	2015.6	1645.1	1415.0	1432.4	1436.4
57.5°	1737.4	1416.4	1270.6	1302.7	1306.7
60°	1472.6	1211.7	1132.8	1182.3	1189.0
62.5°	1230.5	1036.5	1015.1	1066.0	1064.6
65°	1000.4	877.4	902.8	955.0	959.0
67.5°	805.2	747.6	809.2	854.6	852.0
70°	639.3	631.3	718.2	766.4	763.7
72.5°	497.5	533.6	647.3	688.8	678.1
75°	369.1	449.4	581.8	620.6	611.2
77.5°	271.5	379.8	524.3	561.7	555.0
80°	185.9	322.3	474.8	513.6	505.6
82.5°	119.0	274.2	432.0	469.5	464.1
85°	64.2	231.4	393.2	433.3	426.7
87.5°	24.1	196.6	358.4	398.6	395.9
90°	2.7	168.5	327.7	369.1	366.5
92.5°	4.0	143.1	298.3	341.1	341.1
95°	6.7	119.0	271.5	314.3	313.0
97.5°	5.3	100.3	242.1	288.9	288.9
100°	5.3	82.9	215.3	262.1	264.8
102.5°	5.3	65.5	192.6	238.1	243.4
105°	4.0	46.8	169.9	216.7	222.0
107.5°	4.0	26.7	147.1	196.6	203.3
110°	4.0	6.7	127.1	175.2	183.2



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	4.0	4.0	107.0	155.1	163.2
115°	4.0	4.0	86.9	135.1	147.1
117.5°	2.7	2.7	64.2	117.7	128.4
120°	2.7	2.7	40.1	99.0	109.7
122.5°	2.7	2.7	17.4	78.9	93.6
125°	2.7	2.7	2.7	58.8	73.6
127.5°	2.7	2.7	1.3	34.8	52.2
130°	2.7	2.7	1.3	13.4	32.1
132.5°	2.7	2.7	1.3	1.3	9.4
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0
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

(END OF REPORT)