

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: P290424

Luminaire Tested: **8SSRK-SLN-10-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290424  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-15)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SSRK-SLN-10-L830-CD1-U  
Description: 10000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 80 CRI 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

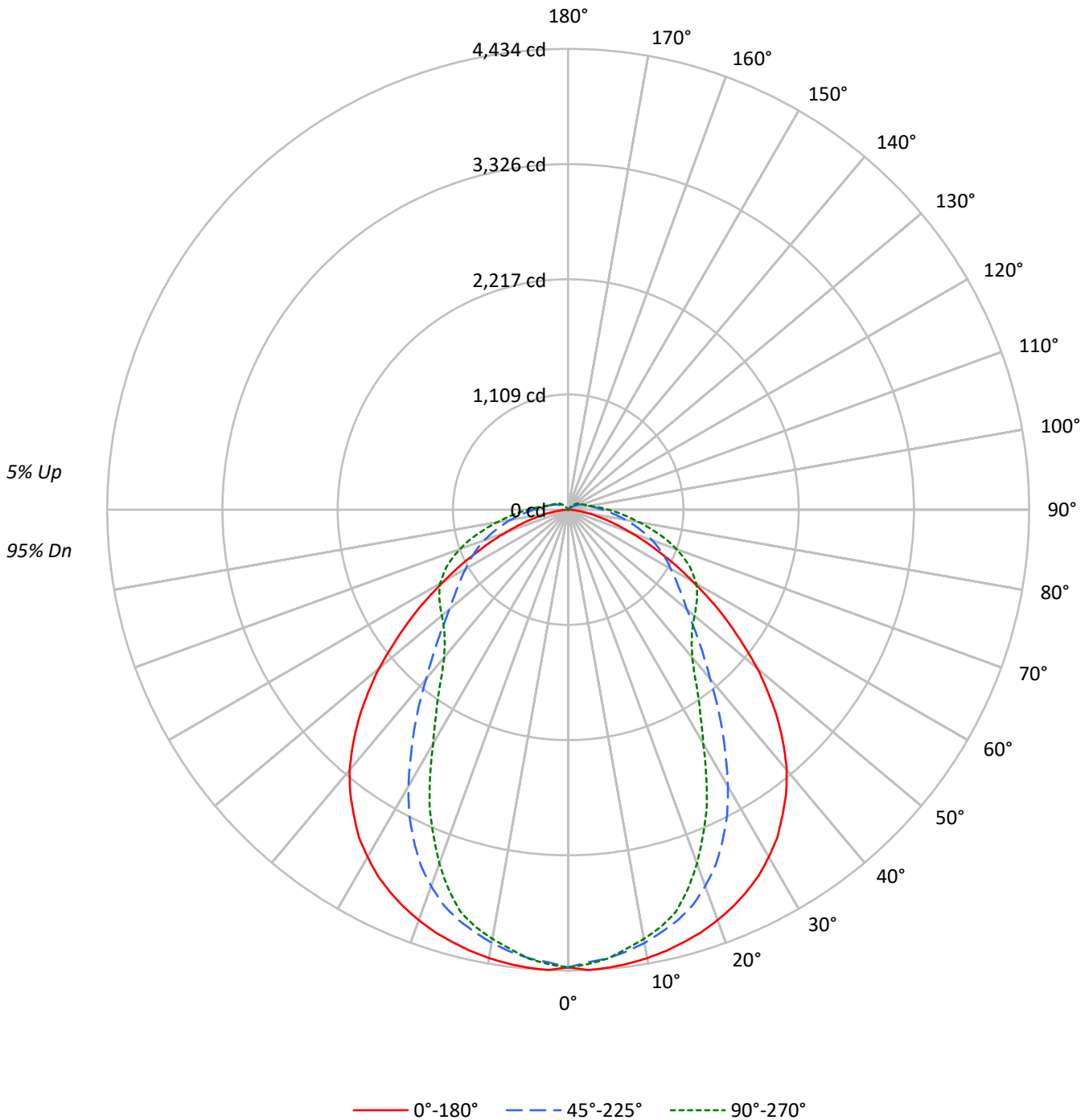
Lumens per Lamp: N/A  
Luminaire Lumens: 10425.2 lumens  
Efficiency: N/A  
Efficacy: 145.0 lumens/watt  
Spacing Criteria (0/90/45): 1.29 / 0.98 / 1.11  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct  
  
Input Watts (W): 71.9151  
Input Voltage (V): NR  
Input 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	0
RCR																				
0	118	118	118	118	115	115	115	115	108	108	108		103	103	103		98	98	98	95
1	107	102	98	94	104	100	96	92	94	91	88		90	87	85		85	83	81	79
2	98	90	83	77	95	87	81	76	83	78	73		79	75	71		75	72	69	66
3	90	79	71	65	87	77	70	64	74	67	62		70	65	60		67	63	59	56
4	82	71	62	56	80	69	61	55	66	59	54		63	57	52		60	55	51	49
5	76	64	55	48	74	62	54	48	60	52	47		57	51	46		55	49	45	43
6	71	58	49	43	68	56	48	42	54	47	42		52	46	41		50	45	40	38
7	66	53	44	38	64	52	44	38	50	42	37		48	41	37		46	40	36	34
8	61	48	40	34	60	47	40	34	46	39	34		44	38	33		43	37	33	31
9	57	44	37	31	56	44	36	31	42	35	31		41	35	30		40	34	30	28
10	54	41	34	28	53	41	33	28	39	33	28		38	32	28		37	31	27	26

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

	0°	45°	90°
0°	142192	142192	142192
5°	143100	112458	104113
10°	143109	92438	80615
15°	143186	77521	64620
20°	143317	65089	50677
25°	143141	53840	39226
30°	142136	43388	29271
35°	139594	34036	22573
40°	135474	26467	17959
45°	127428	21024	15368
50°	116426	17042	13818
55°	102132	14418	12688
60°	86338	12421	11587
65°	70917	10789	10271
70°	56787	9189	8716
75°	43643	7584	7038
80°	31449	6082	5437
85°	19810	4756	4136



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	413.5	4.0
10°-20°	1159.1	11.1
20°-30°	1629.9	15.6
30°-40°	1706.8	16.4
40°-50°	1545.3	14.8
50°-60°	1315.2	12.6
60°-70°	1040.0	10.0
70°-80°	708.1	6.8
80°-90°	404.1	3.9
90°-100°	224.1	2.1
100°-110°	136.9	1.3
110°-120°	83.2	0.8
120°-130°	45.1	0.4
130°-140°	13.6	0.1
140°-150°	0.3	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3202.5	30.7
0°-40°	4909.3	47.1
0°-60°	7769.8	74.5
0°-90°	9921.9	95.2
90°-120°	444.2	4.3
90°-150°	503.3	4.8
90°-180°	503.0	4.8
0°-180°	10425.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4403	4403	4403	4403	4403	
5°	4423	4395	4332	4352	4336	421
15°	4307	4225	4085	4043	4005	1217
25°	4056	3855	3514	3242	3154	1869
35°	3593	3188	2582	2260	2176	2245
45°	2848	2262	1769	1677	1683	2188
55°	1868	1426	1296	1445	1513	1671
65°	970	842	1002	1224	1288	976
75°	377	459	706	867	898	411
85°	66	218	430	514	522	80
90°	1	152	329	383	383	4
95°	2	117	259	287	284	2
105°	2	71	173	181	173	3
115°	2	10	117	136	132	2
125°	1	2	53	94	100	1
135°	2	2	2	38	51	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°	4403.4	4403.4	4403.4	4403.4	4403.4
2.5°	4433.5	4409.4	4358.8	4391.3	4376.9
5°	4422.7	4395.0	4332.3	4351.6	4335.9
7.5°	4405.8	4368.5	4287.8	4293.8	4263.7
10°	4380.5	4332.3	4232.4	4221.5	4192.6
12.5°	4348.0	4281.7	4161.3	4146.8	4113.1
15°	4307.0	4225.1	4085.4	4043.3	4004.7
17.5°	4261.3	4157.7	3987.9	3893.9	3827.7
20°	4202.2	4071.0	3854.2	3718.1	3621.7
22.5°	4136.0	3977.0	3703.6	3498.9	3389.3
25°	4056.5	3855.4	3514.5	3242.3	3154.4
27.5°	3968.6	3728.9	3308.6	2990.6	2873.8
30°	3857.8	3568.7	3073.7	2732.8	2597.9
32.5°	3742.2	3396.5	2818.4	2475.1	2370.3
35°	3592.8	3188.1	2582.3	2259.5	2176.4
37.5°	3442.3	2965.3	2347.4	2066.8	1993.3
40°	3270.0	2740.1	2125.8	1907.8	1856.0
42.5°	3065.3	2511.2	1937.9	1774.1	1756.1
45°	2848.5	2261.9	1769.3	1676.6	1682.6
47.5°	2612.4	2035.5	1616.3	1598.3	1628.4
50°	2375.1	1824.7	1488.7	1539.3	1586.2
52.5°	2111.4	1621.2	1387.5	1491.1	1547.7
55°	1868.1	1426.0	1296.0	1445.3	1512.8
57.5°	1626.0	1259.8	1216.5	1398.3	1469.4
60°	1385.1	1108.1	1139.4	1347.8	1422.4
62.5°	1175.5	963.5	1071.9	1291.1	1356.2
65°	969.6	841.9	1002.1	1223.7	1287.5
67.5°	798.5	733.5	932.2	1143.0	1200.8
70°	635.9	631.1	857.6	1053.9	1106.9
72.5°	496.2	538.4	779.3	961.1	1011.7
75°	377.0	458.9	705.8	867.2	898.5
77.5°	275.8	384.2	631.1	772.0	793.7
80°	189.1	319.2	560.1	676.9	692.5
82.5°	119.2	263.8	491.4	591.4	602.2
85°	66.2	218.0	430.0	514.3	521.5
87.5°	25.3	179.5	374.6	446.8	452.9
90°	1.2	151.8	328.8	383.0	383.0
92.5°	1.2	132.5	291.5	332.4	334.8
95°	2.4	116.8	259.0	286.7	284.2
97.5°	2.4	106.0	228.8	251.7	244.5
100°	2.4	96.4	206.0	221.6	214.4
102.5°	2.4	85.5	187.9	197.5	189.1
105°	2.4	71.1	173.4	180.7	173.4
107.5°	2.4	56.6	157.8	167.4	160.2
110°	2.4	42.2	143.3	155.4	149.3



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	26.5	130.1	144.5	140.9
115°	2.4	9.6	116.8	136.1	132.5
117.5°	1.2	4.8	100.0	126.5	125.3
120°	1.2	3.6	84.3	118.0	118.0
122.5°	1.2	3.6	69.9	106.0	110.8
125°	1.2	2.4	53.0	93.9	100.0
127.5°	1.2	2.4	37.3	81.9	89.1
130°	1.2	2.4	19.3	67.4	77.1
132.5°	1.2	2.4	2.4	53.0	63.8
135°	2.4	2.4	2.4	38.5	50.6
137.5°	2.4	2.4	2.4	20.5	36.1
140°	2.4	2.4	1.2	1.2	16.9
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)