

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: P290418

Luminaire Tested: **8SSRK-SLN-80-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290418  
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-80-L840-CD1-U  
Description: 8000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 80 CRI 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8789.2 lumens  
Efficiency: N/A  
Efficacy: 155.2 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

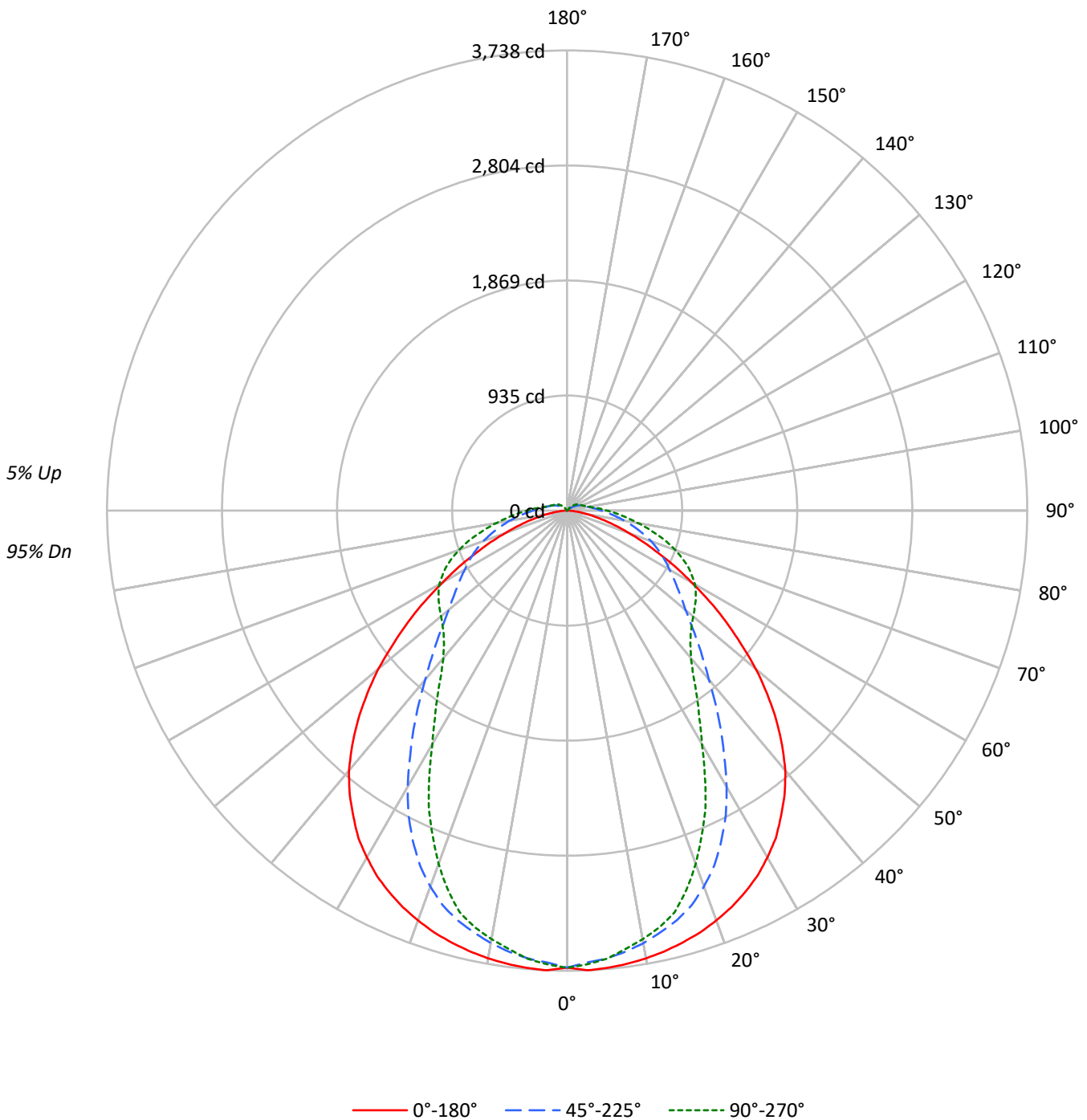
Input Watts (W): 56.6491  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	119879	119879	119879
5°	120642	94812	87775
10°	120652	77931	67965
15°	120719	65356	54480
20°	120828	54876	42725
25°	120678	45392	33070
30°	119831	36580	24678
35°	117688	28696	19031
40°	114216	22314	15141
45°	107431	17725	12956
50°	98157	14368	11649
55°	86103	12155	10697
60°	72787	10472	9769
65°	59785	9095	8660
70°	47875	7747	7348
75°	36790	6394	5933
80°	26510	5128	4584
85°	16698	4010	3487



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	348.6	4.0
10°-20°	977.2	11.1
20°-30°	1374.1	15.6
30°-40°	1439.0	16.4
40°-50°	1302.8	14.8
50°-60°	1108.8	12.6
60°-70°	876.8	10.0
70°-80°	597.0	6.8
80°-90°	340.6	3.9
90°-100°	188.9	2.1
100°-110°	115.4	1.3
110°-120°	70.2	0.8
120°-130°	38.0	0.4
130°-140°	11.5	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°	2699.9	30.7
0°-40°	4138.9	47.1
0°-60°	6550.6	74.5
0°-90°	8364.9	95.2
90°-120°	374.5	4.3
90°-150°	424.2	4.8
90°-180°	424.0	4.8
0°-180°	8789.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3712	3712	3712	3712	3712	
5°	3729	3705	3652	3669	3656	355
15°	3631	3562	3444	3409	3376	1026
25°	3420	3250	2963	2734	2659	1576
35°	3029	2688	2177	1905	1835	1893
45°	2402	1907	1492	1414	1418	1844
55°	1575	1202	1093	1218	1275	1408
65°	817	710	845	1032	1086	823
75°	318	387	595	731	758	347
85°	56	184	362	434	440	67
90°	1	128	277	323	323	3
95°	2	98	218	242	240	1
105°	2	60	146	152	146	2
115°	2	8	98	115	112	1
125°	1	2	45	79	84	1
135°	2	2	2	32	43	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°	3712.4	3712.4	3712.4	3712.4	3712.4
2.5°	3737.8	3717.5	3674.8	3702.2	3690.0
5°	3728.6	3705.3	3652.5	3668.7	3655.5
7.5°	3714.4	3682.9	3614.9	3620.0	3594.6
10°	3693.1	3652.5	3568.2	3559.1	3534.7
12.5°	3665.7	3609.8	3508.3	3496.1	3467.7
15°	3631.2	3562.1	3444.3	3408.8	3376.3
17.5°	3592.6	3505.2	3362.1	3282.9	3227.0
20°	3542.8	3432.1	3249.4	3134.6	3053.4
22.5°	3487.0	3352.9	3122.4	2949.8	2857.4
25°	3419.9	3250.4	2963.0	2733.5	2659.4
27.5°	3345.8	3143.7	2789.4	2521.3	2422.8
30°	3252.4	3008.7	2591.4	2304.0	2190.3
32.5°	3154.9	2863.5	2376.1	2086.7	1998.4
35°	3029.0	2687.8	2177.1	1904.9	1834.9
37.5°	2902.1	2500.0	1979.1	1742.5	1680.5
40°	2756.9	2310.1	1792.2	1608.4	1564.8
42.5°	2584.3	2117.2	1633.8	1495.7	1480.5
45°	2401.5	1907.0	1491.7	1413.5	1418.5
47.5°	2202.5	1716.1	1362.7	1347.5	1372.9
50°	2002.4	1538.4	1255.1	1297.7	1337.3
52.5°	1780.0	1366.8	1169.8	1257.1	1304.8
55°	1574.9	1202.3	1092.6	1218.5	1275.4
57.5°	1370.8	1062.1	1025.6	1178.9	1238.8
60°	1167.7	934.2	960.6	1136.3	1199.2
62.5°	991.1	812.3	903.7	1088.5	1143.4
65°	817.4	709.8	844.8	1031.7	1085.5
67.5°	673.2	618.4	785.9	963.6	1012.4
70°	536.1	532.1	723.0	888.5	933.2
72.5°	418.4	453.9	657.0	810.3	853.0
75°	317.8	386.9	595.0	731.1	757.5
77.5°	232.5	323.9	532.1	650.9	669.2
80°	159.4	269.1	472.2	570.7	583.9
82.5°	100.5	222.4	414.3	498.6	507.7
85°	55.8	183.8	362.5	433.6	439.7
87.5°	21.3	151.3	315.8	376.7	381.8
90°	1.0	127.9	277.2	322.9	322.9
92.5°	1.0	111.7	245.7	280.3	282.3
95°	2.0	98.5	218.3	241.7	239.6
97.5°	2.0	89.4	192.9	212.2	206.1
100°	2.0	81.2	173.6	186.8	180.7
102.5°	2.0	72.1	158.4	166.5	159.4
105°	2.0	59.9	146.2	152.3	146.2
107.5°	2.0	47.7	133.0	141.1	135.1
110°	2.0	35.5	120.8	131.0	125.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	22.3	109.7	121.9	118.8
115°	2.0	8.1	98.5	114.7	111.7
117.5°	1.0	4.1	84.3	106.6	105.6
120°	1.0	3.0	71.1	99.5	99.5
122.5°	1.0	3.0	58.9	89.4	93.4
125°	1.0	2.0	44.7	79.2	84.3
127.5°	1.0	2.0	31.5	69.0	75.1
130°	1.0	2.0	16.2	56.9	65.0
132.5°	1.0	2.0	2.0	44.7	53.8
135°	2.0	2.0	2.0	32.5	42.6
137.5°	2.0	2.0	2.0	17.3	30.5
140°	2.0	2.0	1.0	1.0	14.2
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)