

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: P290413

Luminaire Tested: **8SSRK-SLN-80-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290413
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-L935-CD1-U
Description: 8000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 90 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7259.9 lumens
Efficiency: N/A
Efficacy: 128.2 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

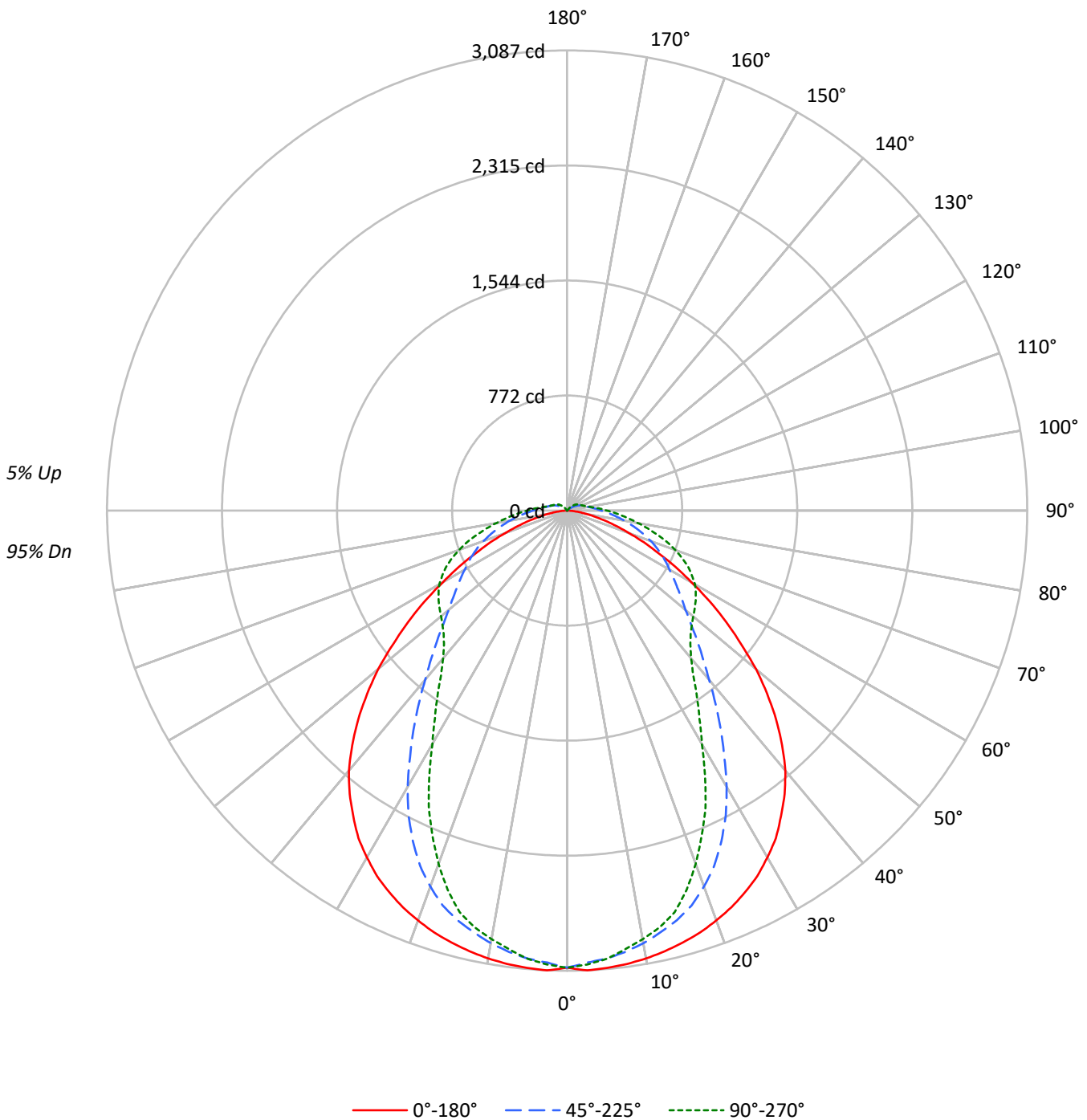
Input Watts (W): 56.6491
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	99019	99019	99019
5°	99650	78313	72501
10°	99659	64371	56138
15°	99712	53984	45000
20°	99802	45326	35291
25°	99678	37493	27315
30°	98981	30214	20383
35°	97208	23701	15719
40°	94343	18432	12507
45°	88736	14641	10702
50°	81078	11868	9622
55°	71123	10041	8835
60°	60121	8649	8069
65°	49384	7513	7153
70°	39552	6399	6070
75°	30388	5281	4901
80°	21903	4235	3787
85°	13795	3312	2880



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	287.9	4.0
10°-20°	807.1	11.1
20°-30°	1135.0	15.6
30°-40°	1188.6	16.4
40°-50°	1076.1	14.8
50°-60°	915.9	12.6
60°-70°	724.2	10.0
70°-80°	493.1	6.8
80°-90°	281.4	3.9
90°-100°	156.1	2.1
100°-110°	95.3	1.3
110°-120°	58.0	0.8
120°-130°	31.4	0.4
130°-140°	9.5	0.1
140°-150°	0.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2230.1	30.7
0°-40°	3418.7	47.1
0°-60°	5410.7	74.5
0°-90°	6909.4	95.2
90°-120°	309.4	4.3
90°-150°	350.5	4.8
90°-180°	350.0	4.8
0°-180°	7259.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3066	3066	3066	3066	3066	
5°	3080	3060	3017	3030	3019	293
15°	2999	2942	2845	2816	2789	847
25°	2825	2685	2447	2258	2197	1301
35°	2502	2220	1798	1574	1516	1563
45°	1984	1575	1232	1168	1172	1523
55°	1301	993	902	1006	1053	1163
65°	675	586	698	852	897	680
75°	262	320	492	604	626	286
85°	46	152	299	358	363	55
90°	1	106	229	267	267	3
95°	2	81	180	200	198	1
105°	2	50	121	126	121	2
115°	2	7	81	95	92	1
125°	1	2	37	65	70	1
135°	2	2	2	27	35	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°	3066.4	3066.4	3066.4	3066.4	3066.4
2.5°	3087.4	3070.6	3035.4	3058.0	3048.0
5°	3079.8	3060.5	3016.9	3030.3	3019.4
7.5°	3068.1	3042.1	2985.9	2990.1	2969.1
10°	3050.5	3016.9	2947.3	2939.8	2919.6
12.5°	3027.8	2981.7	2897.8	2887.8	2864.3
15°	2999.3	2942.3	2845.0	2815.6	2788.8
17.5°	2967.4	2895.3	2777.0	2711.6	2665.5
20°	2926.3	2834.9	2683.9	2589.2	2522.1
22.5°	2880.2	2769.5	2579.1	2436.5	2360.2
25°	2824.8	2684.8	2447.4	2257.9	2196.6
27.5°	2763.6	2596.7	2304.0	2082.6	2001.2
30°	2686.5	2485.2	2140.4	1903.1	1809.1
32.5°	2605.9	2365.2	1962.6	1723.6	1650.6
35°	2501.9	2220.1	1798.2	1573.5	1515.6
37.5°	2397.1	2065.0	1634.7	1439.3	1388.1
40°	2277.2	1908.1	1480.4	1328.6	1292.5
42.5°	2134.6	1748.8	1349.5	1235.5	1222.9
45°	1983.6	1575.1	1232.1	1167.5	1171.7
47.5°	1819.2	1417.5	1125.6	1113.0	1134.0
50°	1654.0	1270.7	1036.7	1071.9	1104.6
52.5°	1470.3	1128.9	966.2	1038.4	1077.8
55°	1300.9	993.1	902.5	1006.5	1053.4
57.5°	1132.3	877.3	847.1	973.8	1023.3
60°	964.5	771.6	793.4	938.5	990.5
62.5°	818.6	671.0	746.5	899.1	944.4
65°	675.2	586.3	697.8	852.2	896.6
67.5°	556.1	510.8	649.2	796.0	836.2
70°	442.9	439.5	597.2	733.9	770.8
72.5°	345.6	374.9	542.7	669.3	704.5
75°	262.5	319.6	491.5	603.9	625.7
77.5°	192.1	267.6	439.5	537.6	552.7
80°	131.7	222.3	390.0	471.4	482.3
82.5°	83.0	183.7	342.2	411.8	419.4
85°	46.1	151.8	299.4	358.1	363.2
87.5°	17.6	125.0	260.8	311.2	315.4
90°	0.8	105.7	229.0	266.7	266.7
92.5°	0.8	92.3	203.0	231.5	233.2
95°	1.7	81.4	180.3	199.6	197.9
97.5°	1.7	73.8	159.4	175.3	170.3
100°	1.7	67.1	143.4	154.3	149.3
102.5°	1.7	59.5	130.8	137.6	131.7
105°	1.7	49.5	120.8	125.8	120.8
107.5°	1.7	39.4	109.9	116.6	111.6
110°	1.7	29.4	99.8	108.2	104.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	18.5	90.6	100.6	98.1
115°	1.7	6.7	81.4	94.8	92.3
117.5°	0.8	3.4	69.6	88.1	87.2
120°	0.8	2.5	58.7	82.2	82.2
122.5°	0.8	2.5	48.6	73.8	77.2
125°	0.8	1.7	36.9	65.4	69.6
127.5°	0.8	1.7	26.0	57.0	62.1
130°	0.8	1.7	13.4	47.0	53.7
132.5°	0.8	1.7	1.7	36.9	44.5
135°	1.7	1.7	1.7	26.8	35.2
137.5°	1.7	1.7	1.7	14.3	25.2
140°	1.7	1.7	0.8	0.8	11.7
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)