

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: P290327

Luminaire Tested: **8SSRK-SLC-80-L950-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290327  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-16)  
Test Lab: INNOVATION CENTER(G3)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: METALUX  
Catalog Number: 8SSRK-SLC-80-L950-CD1-U  
Description: 8000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE CLEAR LENS AND 90 CRI 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8191.4 lumens  
Efficiency: N/A  
Efficacy: 144.6 lumens/watt  
Spacing Criteria (0/90/45): 1.44 / 0.89 / 0.98  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct

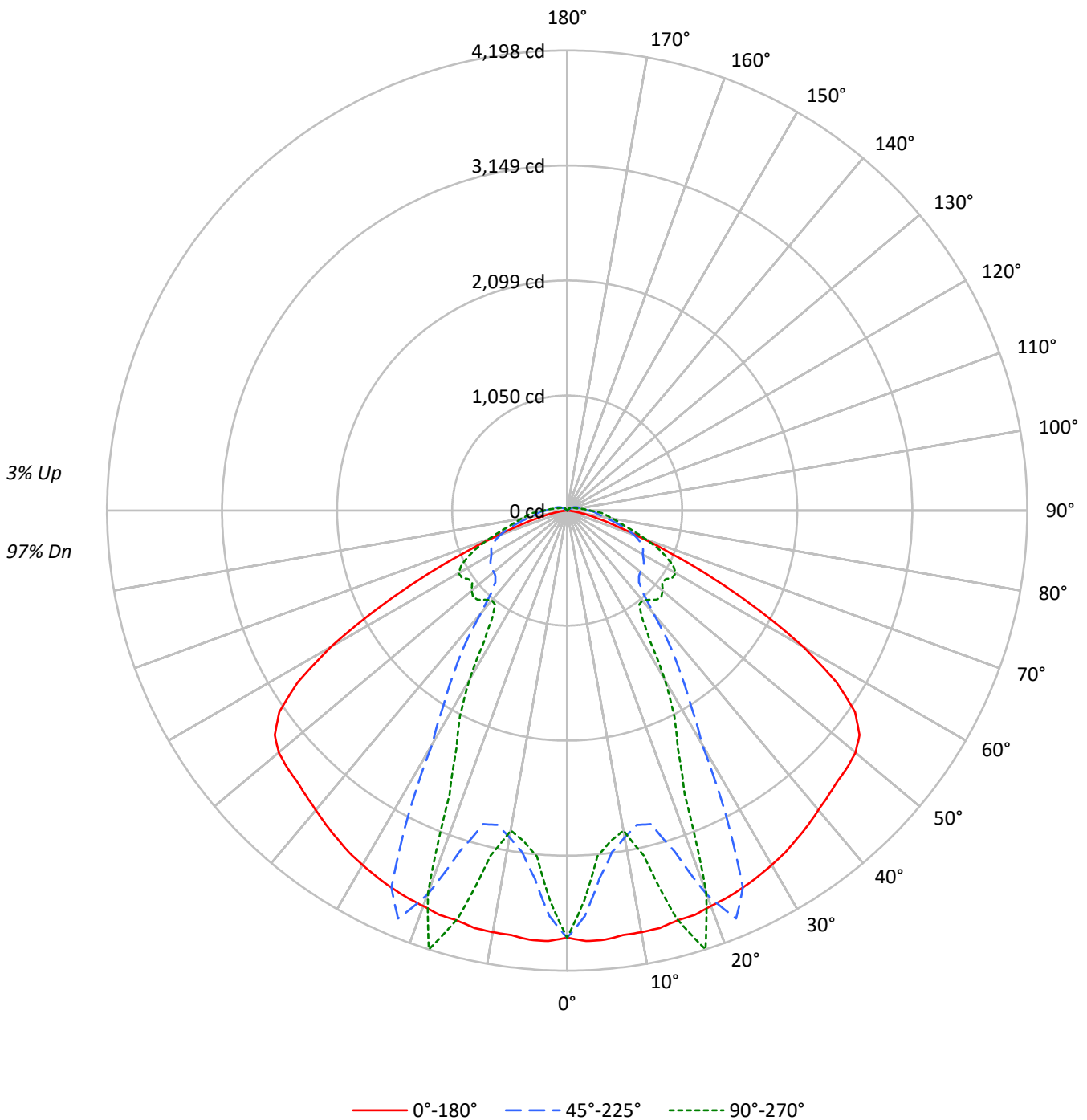
Input Watts (W): 56.6491  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P290327

CATALOG NUMBER: 8SSRK-SLC-80-L950-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P290327

CATALOG NUMBER: 8SSRK-SLC-80-L950-CD1-U

**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	104	104	104	99	99	99	99	99	99	97	
1	108	103	99	95	105	101	97	93	96	93	90	91	89	87	87	85	83	87	85	83	81	
2	99	91	84	79	96	89	83	78	85	80	75	81	77	73	77	74	71	77	74	71	69	
3	91	81	73	67	88	79	72	66	75	69	64	72	67	63	69	65	61	69	65	61	59	
4	84	72	64	57	81	71	63	57	68	61	56	65	59	54	62	57	53	62	57	53	51	
5	77	65	56	50	75	64	56	50	61	54	49	59	53	48	57	51	47	57	51	47	45	
6	72	59	50	44	70	58	50	44	56	49	43	54	47	43	52	46	42	52	46	42	40	
7	67	54	45	40	65	53	45	39	51	44	39	49	43	38	48	42	38	48	42	38	36	
8	62	49	41	36	61	49	41	35	47	40	35	46	39	35	44	38	34	44	38	34	32	
9	58	46	38	32	57	45	37	32	44	37	32	42	36	32	41	35	31	41	35	31	29	
10	55	42	35	30	54	42	34	30	40	34	29	39	33	29	38	33	29	38	33	29	27	

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

	0°	45°	90°
0°	125795	125795	125795
5°	127171	87491	76033
10°	127568	66100	56980
15°	128718	56195	62122
20°	130927	62977	51924
25°	133914	58096	29659
30°	137531	34791	20090
35°	142011	23696	12298
40°	147749	15241	10340
45°	156099	11024	10512
50°	168314	9992	9914
55°	175218	9517	9170
60°	155236	8687	9316
65°	108672	8176	7970
70°	63155	6951	5994
75°	35910	5250	4264
80°	20390	3706	3297
85°	9845	2975	2699



TEST NUMBER: P290327

CATALOG NUMBER: 8SSRK-SLC-80-L950-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	323.6	4.0
10°-20°	972.0	11.9
20°-30°	1430.7	17.5
30°-40°	1397.6	17.1
40°-50°	1158.6	14.1
50°-60°	1063.7	13.0
60°-70°	842.9	10.3
70°-80°	468.0	5.7
80°-90°	247.9	3.0
90°-100°	130.3	1.6
100°-110°	78.5	1.0
110°-120°	44.8	0.5
120°-130°	24.7	0.3
130°-140°	7.8	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°	2726.3	33.3
0°-40°	4123.9	50.3
0°-60°	6346.3	77.5
0°-90°	7905.1	96.5
90°-120°	253.6	3.1
90°-150°	286.3	3.5
90°-180°	286.0	3.5
0°-180°	8191.4	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3896	3896	3896	3896	3896	
5°	3930	3710	3370	3227	3166	374
15°	3872	3092	2962	3627	3850	1098
25°	3795	2952	3792	2586	2385	1754
35°	3655	3524	1798	1284	1186	2294
45°	3489	1594	928	1058	1151	2706
55°	3205	710	855	1025	1093	2783
65°	1486	461	759	963	999	1504
75°	310	281	489	522	544	368
85°	33	138	269	327	340	45
90°	1	101	197	215	213	1
95°	2	80	153	159	152	1
105°	2	53	107	92	83	2
115°	2	6	70	66	61	2
125°	2	2	32	51	50	2
135°	2	2	2	22	27	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



TEST NUMBER: P290327

CATALOG NUMBER: 8SSRK-SLC-80-L950-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3895.6	3895.6	3895.6	3895.6	3895.6
2.5°	3930.4	3860.0	3703.5	3597.4	3561.7
5°	3930.4	3709.9	3370.5	3226.8	3166.5
7.5°	3906.6	3519.6	3142.7	3080.5	3041.1
10°	3904.8	3316.5	3026.5	2974.3	2963.4
12.5°	3900.2	3204.0	2936.8	3121.6	3221.4
15°	3871.8	3092.4	2961.5	3626.7	3849.9
17.5°	3867.3	3009.1	3261.6	4103.3	4197.6
20°	3838.9	2943.2	3729.1	4042.9	3710.8
22.5°	3820.6	2897.5	4030.1	3252.5	2800.5
25°	3795.0	2952.4	3792.3	2585.5	2385.1
27.5°	3765.7	3129.0	3143.6	2250.6	2118.0
30°	3732.8	3405.3	2464.7	1967.0	1783.1
32.5°	3699.8	3607.4	2097.9	1614.8	1398.9
35°	3655.0	3524.2	1797.8	1284.5	1185.7
37.5°	3612.9	3139.9	1524.2	1108.9	1080.5
40°	3566.3	2529.7	1224.1	1039.3	1068.6
42.5°	3526.9	2005.5	1028.3	1032.0	1104.3
45°	3489.4	1593.8	927.7	1058.5	1150.9
47.5°	3467.5	1267.1	887.5	1090.6	1164.7
50°	3433.6	1015.5	872.8	1097.0	1138.1
52.5°	3362.3	837.1	868.2	1063.1	1091.5
55°	3204.9	710.0	855.4	1024.7	1093.3
57.5°	2914.9	631.3	826.2	1032.9	1138.1
60°	2490.4	570.0	796.9	1059.5	1143.6
62.5°	1981.7	514.2	781.3	1037.5	1089.6
65°	1485.8	461.1	759.4	963.4	999.1
67.5°	1040.2	415.4	710.0	871.0	890.2
70°	707.2	371.4	648.7	753.0	761.2
72.5°	475.7	327.5	572.7	631.3	644.1
75°	310.2	280.9	488.6	521.5	544.4
77.5°	197.6	238.8	405.3	447.4	476.7
80°	122.6	197.6	341.3	401.6	419.9
82.5°	68.6	164.7	295.5	358.6	368.7
85°	32.9	138.1	269.0	326.6	340.3
87.5°	8.2	117.1	237.0	270.8	270.8
90°	0.9	100.6	196.7	215.0	213.2
92.5°	0.9	88.7	171.1	183.0	179.3
95°	1.8	79.6	152.8	159.2	151.9
97.5°	1.8	75.0	140.9	136.3	125.3
100°	1.8	69.5	128.1	116.2	104.3
102.5°	1.8	62.2	117.1	102.5	92.4
105°	1.8	53.1	107.0	92.4	83.3
107.5°	1.8	42.1	96.1	84.2	76.9
110°	1.8	30.2	86.0	77.8	72.3



TEST NUMBER: P290327

CATALOG NUMBER: 8SSRK-SLC-80-L950-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.8	18.3	77.8	72.3	67.7
115°	1.8	6.4	69.5	65.9	61.3
117.5°	1.8	2.7	61.3	63.1	57.6
120°	1.8	2.7	51.2	59.5	54.9
122.5°	1.8	2.7	42.1	55.8	53.1
125°	1.8	1.8	32.0	51.2	50.3
127.5°	1.8	1.8	22.0	44.8	46.7
130°	1.8	1.8	11.0	36.6	41.2
132.5°	1.8	1.8	1.8	30.2	33.9
135°	1.8	1.8	1.8	22.0	27.4
137.5°	1.8	1.8	1.8	11.0	20.1
140°	1.8	1.8	1.8	1.8	8.2
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)