

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: P290149

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290149
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-80-L935-CD1-U
Description: 8000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 90 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7131.8 lumens
Efficiency: N/A
Efficacy: 125.9 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

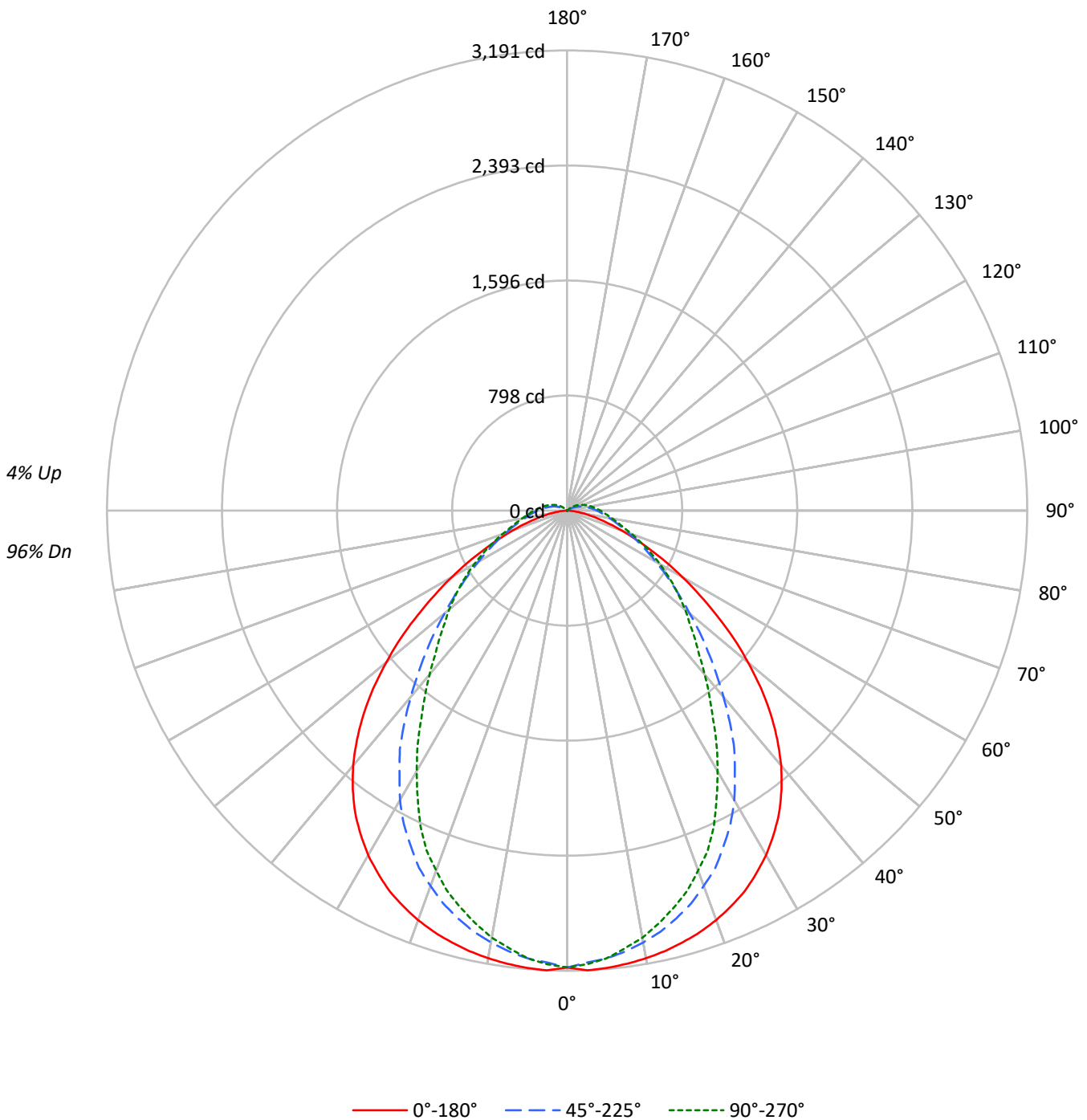
Input Watts (W): 56.6491
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290149

CATALOG NUMBER: 8SSRK-LN-80-L935-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P290149

CATALOG NUMBER: 8SSRK-LN-80-L935-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	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°	102296	102296	102296
5°	102989	80927	74859
10°	102975	66404	57817
15°	103030	55529	46002
20°	103066	46771	37168
25°	102787	39317	29944
30°	101667	32725	23502
35°	99555	26654	18295
40°	95660	20990	14373
45°	89376	16405	11422
50°	80171	12684	9301
55°	69105	9873	7555
60°	57565	7744	6074
65°	45888	6095	4798
70°	35801	4826	3771
75°	26799	3921	3002
80°	19392	3234	2489
85°	12060	2728	2122



TEST NUMBER: P290149

CATALOG NUMBER: 8SSRK-LN-80-L935-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.4	4.2
10°-20°	832.9	11.7
20°-30°	1200.3	16.8
30°-40°	1300.2	18.2
40°-50°	1151.6	16.1
50°-60°	876.2	12.3
60°-70°	583.8	8.2
70°-80°	360.7	5.1
80°-90°	226.0	3.2
90°-100°	148.5	2.1
100°-110°	91.0	1.3
110°-120°	47.0	0.7
120°-130°	15.4	0.2
130°-140°	0.9	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°	2330.6	32.7
0°-40°	3630.7	50.9
0°-60°	5658.6	79.3
0°-90°	6829.0	95.8
90°-120°	286.5	4.0
90°-150°	302.8	4.2
90°-180°	303.0	4.2
0°-180°	7131.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3168	3168	3168	3168	3168	
5°	3183	3163	3118	3129	3118	303
15°	3099	3040	2926	2887	2851	875
25°	2913	2776	2566	2457	2408	1340
35°	2562	2322	2022	1832	1764	1597
45°	1998	1685	1381	1276	1251	1532
55°	1264	1032	887	898	901	1135
65°	627	550	566	599	601	633
75°	232	282	365	389	383	256
85°	40	145	247	272	268	49
90°	2	106	206	232	230	3
95°	4	75	170	197	196	3
105°	2	29	106	136	139	3
115°	2	2	54	85	92	2
125°	2	2	2	37	46	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



TEST NUMBER: P290149

CATALOG NUMBER: 8SSRK-LN-80-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3167.9	3167.9	3167.9	3167.9	3167.9
2.5°	3191.4	3173.8	3137.7	3158.7	3148.6
5°	3183.0	3162.9	3117.6	3129.3	3117.6
7.5°	3169.6	3144.4	3084.0	3089.1	3061.4
10°	3152.0	3118.4	3040.4	3032.0	3006.9
12.5°	3129.3	3082.4	2990.9	2957.4	2933.1
15°	3099.1	3040.4	2926.4	2886.9	2850.9
17.5°	3064.7	2989.3	2856.7	2808.9	2766.2
20°	3022.0	2927.2	2769.5	2703.3	2656.3
22.5°	2970.0	2859.3	2683.1	2586.7	2548.9
25°	2912.9	2776.2	2566.5	2456.7	2408.0
27.5°	2838.3	2684.8	2451.6	2314.1	2244.5
30°	2759.4	2576.6	2318.3	2159.8	2085.9
32.5°	2664.7	2458.3	2163.9	1995.4	1929.9
35°	2562.3	2322.5	2022.2	1831.8	1763.9
37.5°	2441.6	2175.7	1853.6	1679.2	1619.6
40°	2309.0	2016.3	1685.9	1532.4	1485.4
42.5°	2158.1	1854.5	1528.2	1395.7	1355.4
45°	1997.9	1685.0	1380.6	1275.7	1250.6
47.5°	1823.4	1515.6	1242.2	1167.5	1149.1
50°	1635.5	1346.2	1108.0	1066.9	1067.7
52.5°	1456.9	1186.0	993.9	983.0	980.5
55°	1264.0	1031.6	887.4	898.3	900.8
57.5°	1089.5	888.2	796.8	816.9	819.4
60°	923.5	759.9	710.4	741.4	745.6
62.5°	771.6	650.0	636.6	668.5	667.6
65°	627.4	550.2	566.1	598.9	601.4
67.5°	504.9	468.9	507.4	536.0	534.3
70°	400.9	395.9	450.4	480.6	478.9
72.5°	312.0	334.7	405.9	432.0	425.2
75°	231.5	281.8	364.9	389.2	383.3
77.5°	170.3	238.2	328.8	352.3	348.1
80°	116.6	202.1	297.8	322.1	317.0
82.5°	74.6	171.9	270.9	294.4	291.0
85°	40.3	145.1	246.6	271.8	267.6
87.5°	15.1	123.3	224.8	249.9	248.3
90°	1.7	105.7	205.5	231.5	229.8
92.5°	2.5	89.7	187.0	213.9	213.9
95°	4.2	74.6	170.3	197.1	196.3
97.5°	3.4	62.9	151.8	181.2	181.2
100°	3.4	52.0	135.0	164.4	166.1
102.5°	3.4	41.1	120.8	149.3	152.7
105°	2.5	29.4	106.5	135.9	139.2
107.5°	2.5	16.8	92.3	123.3	127.5
110°	2.5	4.2	79.7	109.9	114.9



TEST NUMBER: P290149

CATALOG NUMBER: 8SSRK-LN-80-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.5	2.5	67.1	97.3	102.3
115°	2.5	2.5	54.5	84.7	92.3
117.5°	1.7	1.7	40.3	73.8	80.5
120°	1.7	1.7	25.2	62.1	68.8
122.5°	1.7	1.7	10.9	49.5	58.7
125°	1.7	1.7	1.7	36.9	46.1
127.5°	1.7	1.7	0.8	21.8	32.7
130°	1.7	1.7	0.8	8.4	20.1
132.5°	1.7	1.7	0.8	0.8	5.9
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)