

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: P290164

Luminaire Tested: **8SSRK-LN-12-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290164
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-12-L930-CD1-U
Description: 12000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 90 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9154.8 lumens
Efficiency: N/A
Efficacy: 113.2 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

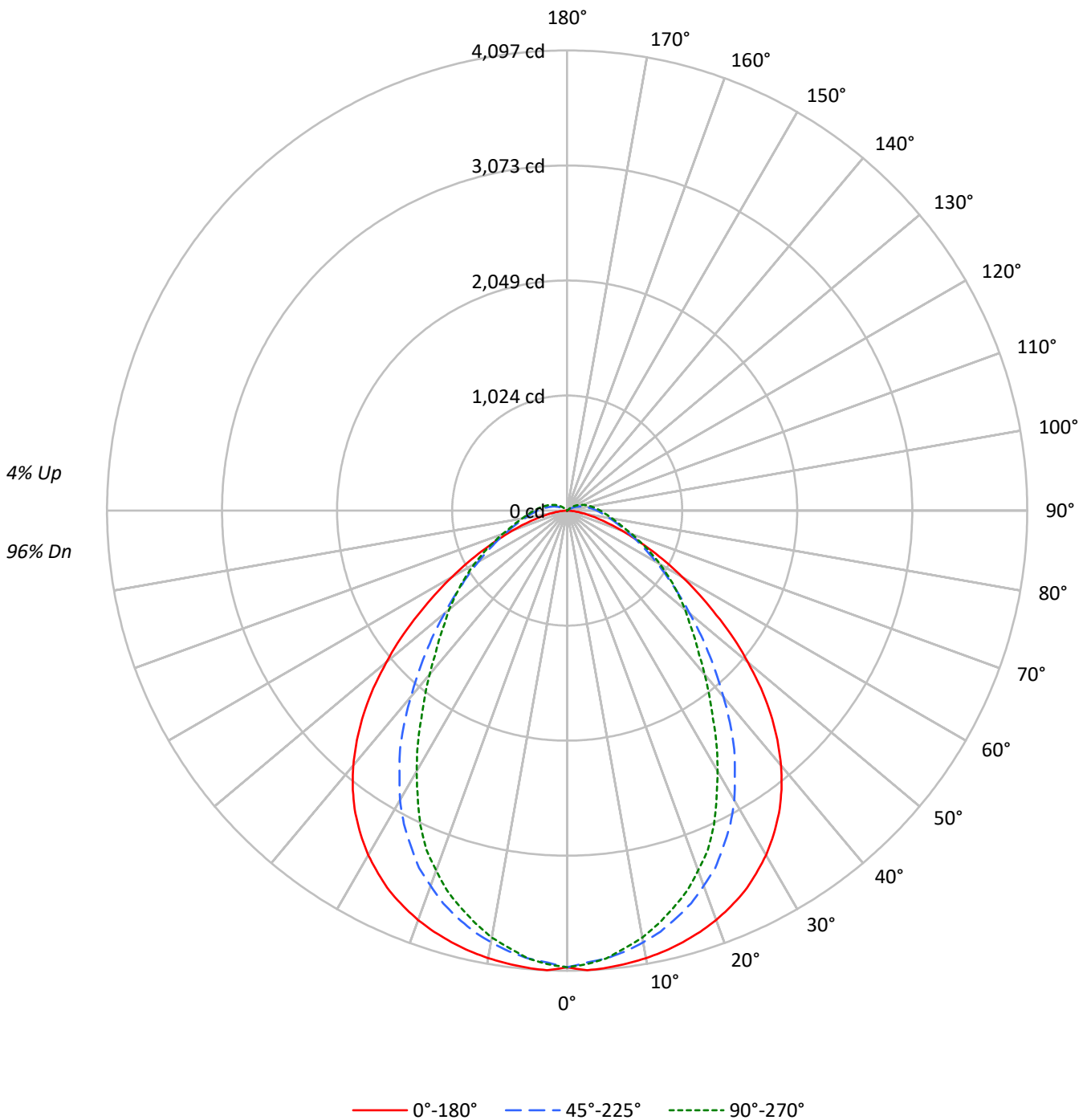
Input Watts (W): 80.8951
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290164

CATALOG NUMBER: 8SSRK-LN-12-L930-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P290164

CATALOG NUMBER: 8SSRK-LN-12-L930-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	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°	131313	131313	131313
5°	132203	103881	96093
10°	132185	85241	74216
15°	132259	71280	59052
20°	132301	60038	47712
25°	131945	50472	38439
30°	130508	42008	30170
35°	127798	34214	23483
40°	122796	26944	18451
45°	114728	21059	14662
50°	102917	16282	11939
55°	88705	12673	9698
60°	73890	9941	7797
65°	58900	7824	6159
70°	45955	6195	4841
75°	34405	5032	3854
80°	24897	4150	3196
85°	15471	3501	2724



TEST NUMBER: P290164

CATALOG NUMBER: 8SSRK-LN-12-L930-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.8	4.2
10°-20°	1069.1	11.7
20°-30°	1540.8	16.8
30°-40°	1669.0	18.2
40°-50°	1478.2	16.1
50°-60°	1124.8	12.3
60°-70°	749.4	8.2
70°-80°	463.0	5.1
80°-90°	290.1	3.2
90°-100°	190.6	2.1
100°-110°	116.8	1.3
110°-120°	60.3	0.7
120°-130°	19.8	0.2
130°-140°	1.2	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°	2991.7	32.7
0°-40°	4660.7	50.9
0°-60°	7263.7	79.3
0°-90°	8766.2	95.8
90°-120°	367.7	4.0
90°-150°	388.7	4.2
90°-180°	389.0	4.2
0°-180°	9154.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4066	4066	4066	4066	4066	
5°	4086	4060	4002	4017	4002	389
15°	3978	3903	3756	3706	3660	1124
25°	3739	3564	3295	3154	3091	1720
35°	3289	2981	2596	2351	2264	2050
45°	2565	2163	1772	1638	1605	1967
55°	1622	1324	1139	1153	1156	1458
65°	805	706	727	769	772	813
75°	297	362	468	500	492	329
85°	52	186	316	349	344	63
90°	2	136	264	297	295	4
95°	5	96	219	253	252	4
105°	3	38	137	174	179	4
115°	3	3	70	109	118	3
125°	2	2	2	47	59	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: P290164

CATALOG NUMBER: 8SSRK-LN-12-L930-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4066.5	4066.5	4066.5	4066.5	4066.5
2.5°	4096.7	4074.1	4027.8	4054.7	4041.8
5°	4085.9	4060.1	4001.9	4017.0	4001.9
7.5°	4068.7	4036.4	3958.9	3965.3	3929.8
10°	4046.1	4003.0	3902.9	3892.1	3859.8
12.5°	4017.0	3956.7	3839.4	3796.3	3765.1
15°	3978.3	3902.9	3756.5	3705.9	3659.6
17.5°	3934.1	3837.2	3667.1	3605.7	3550.8
20°	3879.2	3757.5	3555.1	3470.1	3409.8
22.5°	3812.5	3670.3	3444.2	3320.4	3272.0
25°	3739.2	3563.7	3294.6	3153.5	3091.1
27.5°	3643.4	3446.4	3147.1	2970.5	2881.1
30°	3542.2	3307.5	2975.9	2772.4	2677.7
32.5°	3420.6	3155.7	2777.8	2561.4	2477.4
35°	3289.2	2981.3	2595.8	2351.4	2264.2
37.5°	3134.2	2792.9	2379.4	2155.5	2079.0
40°	2964.0	2588.3	2164.1	1967.1	1906.8
42.5°	2770.2	2380.5	1961.7	1791.6	1739.9
45°	2564.6	2163.0	1772.2	1637.6	1605.3
47.5°	2340.7	1945.5	1594.5	1498.7	1475.0
50°	2099.5	1728.0	1422.3	1369.5	1370.6
52.5°	1870.2	1522.4	1275.8	1261.8	1258.6
55°	1622.5	1324.3	1139.1	1153.1	1156.3
57.5°	1398.6	1140.2	1022.8	1048.7	1051.9
60°	1185.4	975.5	911.9	951.8	957.2
62.5°	990.5	834.4	817.2	858.1	857.0
65°	805.3	706.3	726.7	768.7	772.0
67.5°	648.1	601.9	651.4	688.0	685.8
70°	514.6	508.2	578.2	616.9	614.8
72.5°	400.5	429.6	521.1	554.5	545.9
75°	297.2	361.8	468.3	499.6	492.0
77.5°	218.6	305.8	422.1	452.2	446.8
80°	149.7	259.5	382.2	413.4	407.0
82.5°	95.8	220.7	347.8	377.9	373.6
85°	51.7	186.3	316.5	348.8	343.5
87.5°	19.4	158.3	288.5	320.8	318.7
90°	2.2	135.7	263.8	297.2	295.0
92.5°	3.2	115.2	240.1	274.5	274.5
95°	5.4	95.8	218.6	253.0	251.9
97.5°	4.3	80.7	194.9	232.6	232.6
100°	4.3	66.8	173.3	211.0	213.2
102.5°	4.3	52.8	155.0	191.6	196.0
105°	3.2	37.7	136.7	174.4	178.7
107.5°	3.2	21.5	118.4	158.3	163.7
110°	3.2	5.4	102.3	141.0	147.5



TEST NUMBER: P290164

CATALOG NUMBER: 8SSRK-LN-12-L930-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.2	3.2	86.1	124.9	131.4
115°	3.2	3.2	70.0	108.7	118.4
117.5°	2.2	2.2	51.7	94.7	103.4
120°	2.2	2.2	32.3	79.7	88.3
122.5°	2.2	2.2	14.0	63.5	75.4
125°	2.2	2.2	2.2	47.4	59.2
127.5°	2.2	2.2	1.1	28.0	42.0
130°	2.2	2.2	1.1	10.8	25.8
132.5°	2.2	2.2	1.1	1.1	7.5
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)