

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: P290430

Luminaire Tested: **8SSRK-SLN-12-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290430
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-12-L940-CD1-U
Description: 12000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 90 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

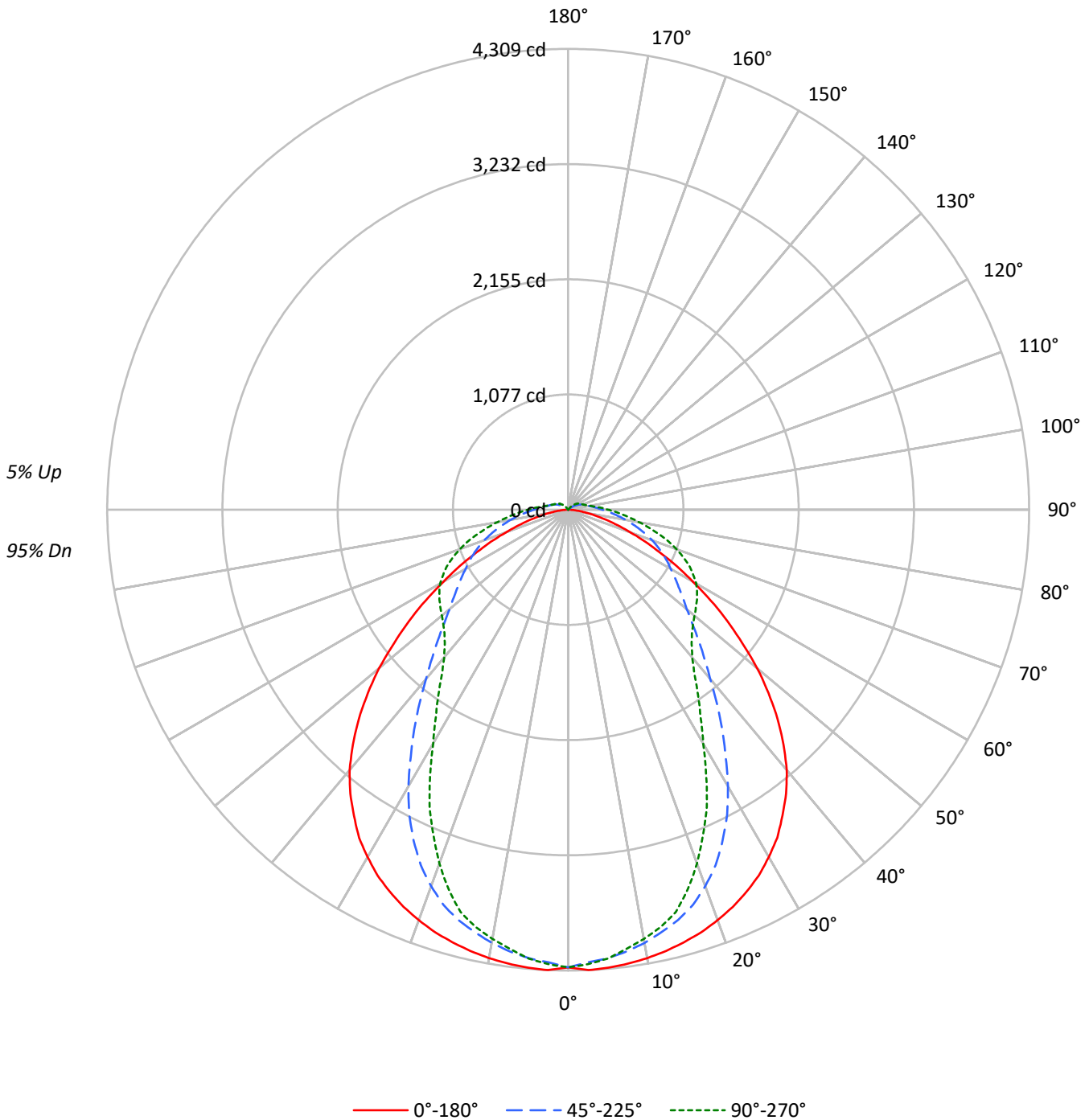
Lumens per Lamp: N/A
Luminaire Lumens: 10131.7 lumens
Efficiency: N/A
Efficacy: 125.2 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 0.98 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

Input Watts (W): 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: P290430
CATALOG NUMBER: 8SSRK-SLN-12-L940-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P290430

CATALOG NUMBER: 8SSRK-SLN-12-L940-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	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°	138188	138188	138188
5°	139072	109293	101183
10°	139081	89834	78347
15°	139157	75339	62802
20°	139286	63257	49251
25°	139112	52325	38121
30°	138135	42167	28447
35°	135666	33078	21937
40°	131662	25723	17454
45°	123840	20432	14935
50°	113152	16563	13429
55°	99257	14012	12331
60°	83907	12071	11261
65°	68920	10485	9982
70°	55189	8930	8471
75°	42416	7370	6840
80°	30568	5911	5285
85°	19271	4622	4019



TEST NUMBER: P290430

CATALOG NUMBER: 8SSRK-SLN-12-L940-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	401.9	4.0
10°-20°	1126.4	11.1
20°-30°	1584.0	15.6
30°-40°	1658.8	16.4
40°-50°	1501.8	14.8
50°-60°	1278.2	12.6
60°-70°	1010.7	10.0
70°-80°	688.2	6.8
80°-90°	392.7	3.9
90°-100°	217.8	2.1
100°-110°	133.1	1.3
110°-120°	80.9	0.8
120°-130°	43.8	0.4
130°-140°	13.2	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°	3112.3	30.7
0°-40°	4771.1	47.1
0°-60°	7551.1	74.5
0°-90°	9642.6	95.2
90°-120°	431.7	4.3
90°-150°	489.1	4.8
90°-180°	489.0	4.8
0°-180°	10131.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4279	4279	4279	4279	4279	
5°	4298	4271	4210	4229	4214	409
15°	4186	4106	3970	3930	3892	1183
25°	3942	3747	3416	3151	3066	1816
35°	3492	3098	2510	2196	2115	2182
45°	2768	2198	1720	1629	1635	2126
55°	1816	1386	1260	1405	1470	1623
65°	942	818	974	1189	1251	949
75°	366	446	686	843	873	400
85°	64	212	418	500	507	77
90°	1	148	320	372	372	4
95°	2	114	252	279	276	2
105°	2	69	169	176	169	2
115°	2	9	114	132	129	2
125°	1	2	52	91	97	1
135°	2	2	2	38	49	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: P290430

CATALOG NUMBER: 8SSRK-SLN-12-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4279.4	4279.4	4279.4	4279.4	4279.4
2.5°	4308.7	4285.3	4236.1	4267.7	4253.7
5°	4298.2	4271.2	4210.4	4229.1	4213.9
7.5°	4281.8	4245.5	4167.1	4172.9	4143.7
10°	4257.2	4210.4	4113.2	4102.7	4074.6
12.5°	4225.6	4161.2	4044.2	4030.1	3997.3
15°	4185.8	4106.2	3970.4	3929.5	3892.0
17.5°	4141.3	4040.7	3875.6	3784.3	3719.9
20°	4084.0	3956.4	3745.7	3613.4	3519.8
22.5°	4019.6	3865.1	3599.4	3400.4	3293.9
25°	3942.3	3746.9	3415.6	3151.1	3065.6
27.5°	3856.9	3623.9	3215.4	2906.4	2792.9
30°	3749.2	3468.3	2987.2	2655.9	2524.8
32.5°	3636.8	3300.9	2739.0	2405.4	2303.6
35°	3491.7	3098.4	2509.6	2195.9	2115.1
37.5°	3345.4	2881.8	2281.4	2008.6	1937.2
40°	3178.0	2662.9	2066.0	1854.1	1803.8
42.5°	2979.0	2440.5	1883.4	1724.2	1706.6
45°	2768.3	2198.2	1719.5	1629.4	1635.2
47.5°	2538.9	1978.2	1570.8	1553.3	1582.6
50°	2308.3	1773.3	1446.8	1495.9	1541.6
52.5°	2051.9	1575.5	1348.4	1449.1	1504.1
55°	1815.5	1385.9	1259.5	1404.6	1470.2
57.5°	1580.2	1224.4	1182.2	1359.0	1428.0
60°	1346.1	1076.9	1107.3	1309.8	1382.4
62.5°	1142.4	936.4	1041.8	1254.8	1318.0
65°	942.3	818.2	973.9	1189.3	1251.3
67.5°	776.1	712.8	906.0	1110.8	1167.0
70°	618.0	613.4	833.4	1024.2	1075.7
72.5°	482.3	523.2	757.3	934.1	983.2
75°	366.4	446.0	685.9	842.8	873.2
77.5°	268.1	373.4	613.4	750.3	771.4
80°	183.8	310.2	544.3	657.8	673.1
82.5°	115.9	256.3	477.6	574.7	585.3
85°	64.4	211.9	417.9	499.8	506.8
87.5°	24.6	174.4	364.0	434.3	440.1
90°	1.2	147.5	319.6	372.2	372.2
92.5°	1.2	128.8	283.3	323.1	325.4
95°	2.3	113.5	251.7	278.6	276.2
97.5°	2.3	103.0	222.4	244.6	237.6
100°	2.3	93.6	200.2	215.4	208.4
102.5°	2.3	83.1	182.6	192.0	183.8
105°	2.3	69.1	168.6	175.6	168.6
107.5°	2.3	55.0	153.3	162.7	155.7
110°	2.3	41.0	139.3	151.0	145.1



TEST NUMBER: P290430

CATALOG NUMBER: 8SSRK-SLN-12-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	25.8	126.4	140.5	137.0
115°	2.3	9.4	113.5	132.3	128.8
117.5°	1.2	4.7	97.2	122.9	121.7
120°	1.2	3.5	81.9	114.7	114.7
122.5°	1.2	3.5	67.9	103.0	107.7
125°	1.2	2.3	51.5	91.3	97.2
127.5°	1.2	2.3	36.3	79.6	86.6
130°	1.2	2.3	18.7	65.5	74.9
132.5°	1.2	2.3	2.3	51.5	62.0
135°	2.3	2.3	2.3	37.5	49.2
137.5°	2.3	2.3	2.3	19.9	35.1
140°	2.3	2.3	1.2	1.2	16.4
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)