

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: P290431

Luminaire Tested: **8SSRK-SLN-12-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290431
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-L950-CD1-U
Description: 12000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 90 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10790.4 lumens
Efficiency: N/A
Efficacy: 133.4 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

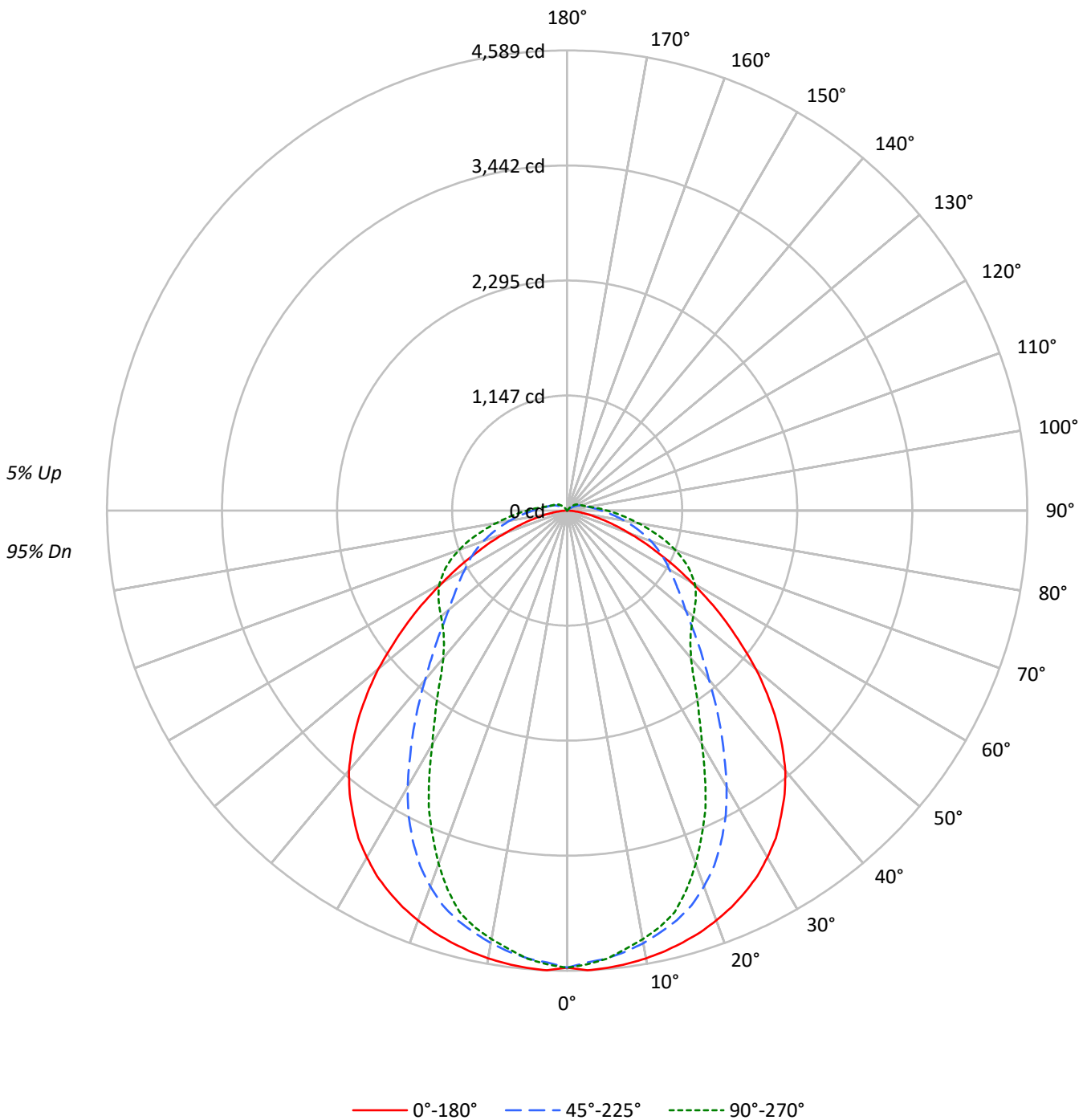
Input Watts (W): 80.8951
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290431

CATALOG NUMBER: 8SSRK-SLN-12-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P290431

CATALOG NUMBER: 8SSRK-SLN-12-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	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°	147175	147175	147175
5°	148112	116398	107760
10°	148124	95674	83440
15°	148203	80236	66884
20°	148341	67369	52452
25°	148156	55726	40600
30°	147114	44908	30297
35°	144486	35229	23363
40°	140222	27395	18588
45°	131892	21761	15906
50°	120505	17639	14302
55°	105708	14923	13132
60°	89362	12856	11993
65°	73396	11167	10631
70°	58779	9511	9021
75°	45171	7850	7285
80°	32547	6295	5628
85°	20528	4922	4281



TEST NUMBER: P290431

CATALOG NUMBER: 8SSRK-SLN-12-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.0	4.0
10°-20°	1199.7	11.1
20°-30°	1687.0	15.6
30°-40°	1766.6	16.4
40°-50°	1599.4	14.8
50°-60°	1361.3	12.6
60°-70°	1076.4	10.0
70°-80°	732.9	6.8
80°-90°	418.2	3.9
90°-100°	231.9	2.1
100°-110°	141.7	1.3
110°-120°	86.1	0.8
120°-130°	46.7	0.4
130°-140°	14.1	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°	3314.7	30.7
0°-40°	5081.3	47.1
0°-60°	8042.0	74.5
0°-90°	10269.5	95.2
90°-120°	459.8	4.3
90°-150°	520.9	4.8
90°-180°	521.0	4.8
0°-180°	10790.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4558	4558	4558	4558	4558	
5°	4578	4549	4484	4504	4488	435
15°	4458	4373	4228	4185	4145	1260
25°	4199	3990	3638	3356	3265	1934
35°	3719	3300	2673	2339	2253	2324
45°	2948	2341	1831	1735	1742	2264
55°	1934	1476	1341	1496	1566	1729
65°	1004	871	1037	1267	1333	1011
75°	390	475	730	898	930	426
85°	69	226	445	532	540	82
90°	1	157	340	396	396	4
95°	2	121	268	297	294	2
105°	2	74	180	187	180	3
115°	2	10	121	141	137	2
125°	1	2	55	97	104	1
135°	2	2	2	40	52	2
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: P290431

CATALOG NUMBER: 8SSRK-SLN-12-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	4557.7	4557.7	4557.7	4557.7	4557.7
2.5°	4588.8	4563.9	4511.5	4545.2	4530.2
5°	4577.6	4548.9	4484.1	4504.0	4487.8
7.5°	4560.1	4521.5	4438.0	4444.2	4413.0
10°	4534.0	4484.1	4380.6	4369.4	4339.5
12.5°	4500.3	4431.7	4307.1	4292.1	4257.2
15°	4457.9	4373.2	4228.5	4184.9	4145.0
17.5°	4410.6	4303.3	4127.6	4030.3	3961.8
20°	4349.5	4213.6	3989.2	3848.3	3748.6
22.5°	4280.9	4116.3	3833.4	3621.4	3508.0
25°	4198.6	3990.4	3637.6	3355.9	3264.9
27.5°	4107.6	3859.5	3424.5	3095.4	2974.4
30°	3992.9	3693.7	3181.4	2828.6	2689.0
32.5°	3873.3	3515.5	2917.1	2561.8	2453.4
35°	3718.7	3299.8	2672.8	2338.7	2252.6
37.5°	3562.8	3069.2	2429.7	2139.2	2063.2
40°	3384.6	2836.1	2200.3	1974.7	1921.0
42.5°	3172.7	2599.2	2005.8	1836.3	1817.6
45°	2948.3	2341.2	1831.3	1735.3	1741.5
47.5°	2703.9	2106.8	1673.0	1654.3	1685.4
50°	2458.3	1888.6	1540.8	1593.2	1641.8
52.5°	2185.3	1678.0	1436.1	1543.3	1601.9
55°	1933.5	1476.0	1341.4	1495.9	1565.8
57.5°	1682.9	1304.0	1259.1	1447.3	1520.9
60°	1433.6	1146.9	1179.3	1395.0	1472.3
62.5°	1216.7	997.3	1109.5	1336.4	1403.7
65°	1003.5	871.4	1037.2	1266.6	1332.6
67.5°	826.5	759.2	964.9	1183.0	1242.9
70°	658.2	653.2	887.6	1090.8	1145.6
72.5°	513.6	557.2	806.6	994.8	1047.2
75°	390.2	475.0	730.5	897.6	930.0
77.5°	285.5	397.7	653.2	799.1	821.5
80°	195.7	330.4	579.7	700.6	716.8
82.5°	123.4	273.0	508.6	612.1	623.3
85°	68.6	225.6	445.0	532.3	539.8
87.5°	26.2	185.7	387.7	462.5	468.7
90°	1.2	157.1	340.3	396.4	396.4
92.5°	1.2	137.1	301.7	344.1	346.6
95°	2.5	120.9	268.0	296.7	294.2
97.5°	2.5	109.7	236.9	260.5	253.1
100°	2.5	99.7	213.2	229.4	221.9
102.5°	2.5	88.5	194.5	204.4	195.7
105°	2.5	73.6	179.5	187.0	179.5
107.5°	2.5	58.6	163.3	173.3	165.8
110°	2.5	43.6	148.3	160.8	154.6



TEST NUMBER: P290431

CATALOG NUMBER: 8SSRK-SLN-12-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	27.4	134.6	149.6	145.9
115°	2.5	10.0	120.9	140.9	137.1
117.5°	1.2	5.0	103.5	130.9	129.6
120°	1.2	3.7	87.3	122.2	122.2
122.5°	1.2	3.7	72.3	109.7	114.7
125°	1.2	2.5	54.9	97.2	103.5
127.5°	1.2	2.5	38.6	84.8	92.3
130°	1.2	2.5	19.9	69.8	79.8
132.5°	1.2	2.5	2.5	54.9	66.1
135°	2.5	2.5	2.5	39.9	52.4
137.5°	2.5	2.5	2.5	21.2	37.4
140°	2.5	2.5	1.2	1.2	17.5
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)