

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: P290478

Luminaire Tested: **8SSRK-SLW-40-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290478
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-17)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-SLW-40-L940-CD1-U
Description: 4000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE FROSTED LENS AND 90 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3333.5 lumens
Efficiency: N/A
Efficacy: 123.4 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.23 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

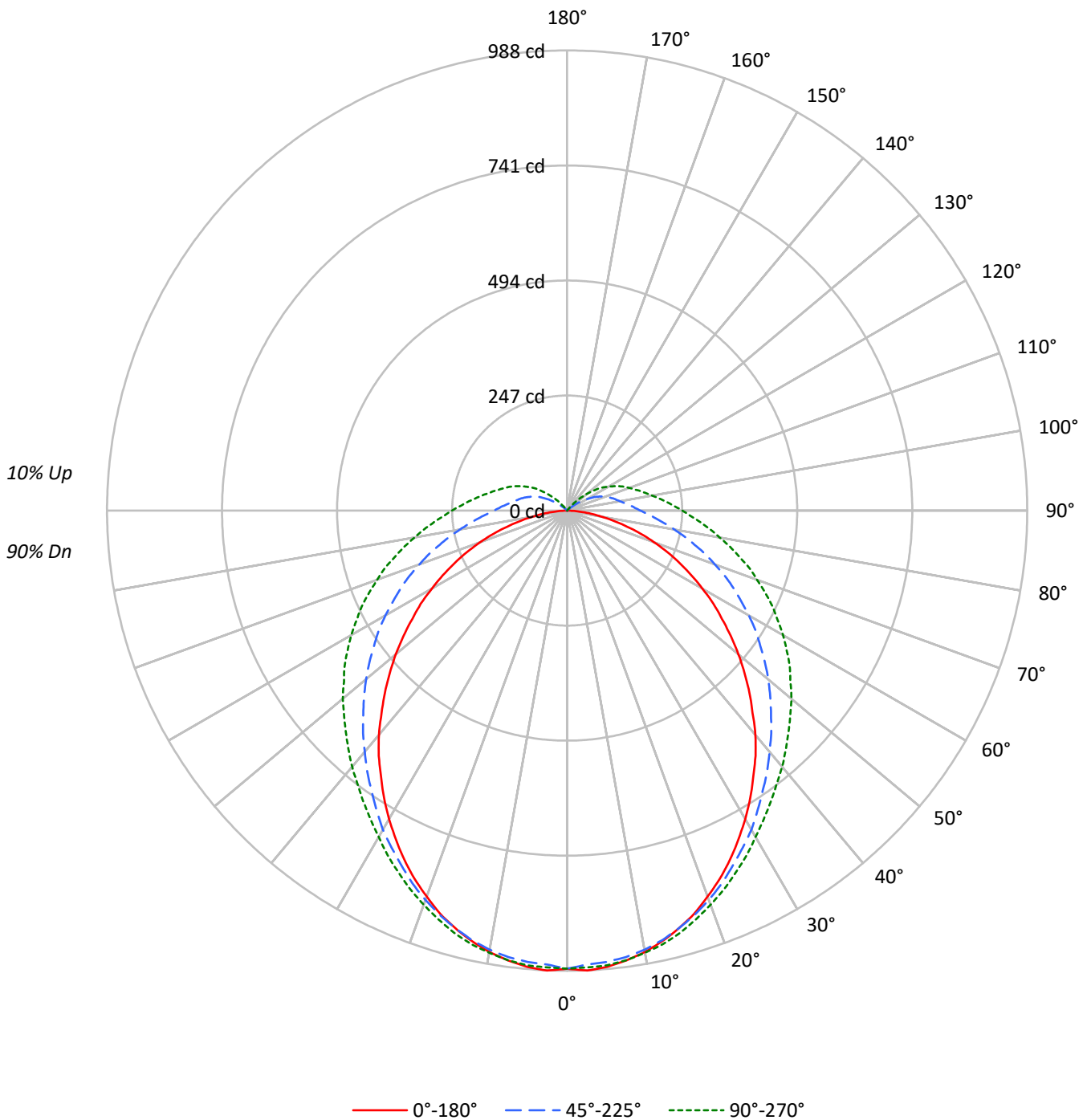
Input Watts (W): 27.0151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290478

CATALOG NUMBER: 8SSRK-SLW-40-L940-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P290478

CATALOG NUMBER: 8SSRK-SLW-40-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	117	117	117	117	113	113	113	113	106	106	106	99	99	99	93	93	93	90
1	104	99	94	89	101	96	91	87	89	86	82	84	81	78	79	76	74	71
2	94	85	78	71	91	82	76	70	77	72	67	72	68	64	68	64	61	58
3	86	74	66	59	82	72	64	58	68	61	55	63	58	53	60	55	51	48
4	78	66	56	49	75	64	55	49	60	53	47	56	50	45	53	48	43	41
5	72	59	49	42	69	57	48	42	54	46	40	50	44	39	48	42	38	35
6	66	53	43	37	64	51	43	36	48	41	35	46	39	34	43	37	33	31
7	61	48	39	32	59	46	38	32	44	36	31	42	35	30	39	34	29	27
8	57	43	35	29	55	42	34	28	40	33	28	38	32	27	36	30	26	24
9	53	40	32	26	51	39	31	26	37	30	25	35	29	24	33	28	24	22
10	50	37	29	23	48	36	28	23	34	27	23	33	26	22	31	26	21	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	31759	31759	31759
5°	31822	25249	23536
10°	31441	20910	18536
15°	30861	17615	15140
20°	30074	15025	12600
25°	29196	12885	10661
30°	28174	11170	9117
35°	27085	9659	7910
40°	26059	8415	6950
45°	24774	7355	6140
50°	23544	6454	5479
55°	22197	5630	4896
60°	20913	4911	4359
65°	19463	4242	3882
70°	17718	3616	3416
75°	15431	3042	2995
80°	12490	2533	2611
85°	8828	2113	2275



TEST NUMBER: P290478

CATALOG NUMBER: 8SSRK-SLW-40-L940-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.9	2.8
10°-20°	262.9	7.9
20°-30°	388.9	11.7
30°-40°	459.3	13.8
40°-50°	477.4	14.3
50°-60°	450.1	13.5
60°-70°	383.7	11.5
70°-80°	290.2	8.7
80°-90°	195.8	5.9
90°-100°	134.4	4.0
100°-110°	96.4	2.9
110°-120°	61.9	1.9
120°-130°	31.5	0.9
130°-140°	8.0	0.2
140°-150°	0.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	744.7	22.3
0°-40°	1204.0	36.1
0°-60°	2131.5	63.9
0°-90°	3001.2	90.0
90°-120°	292.7	8.8
90°-150°	332.3	10.0
90°-180°	332.0	10.0
0°-180°	3333.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	984	984	984	984	984	
5°	984	981	973	982	980	93
15°	928	931	928	937	938	261
25°	827	837	841	856	857	381
35°	697	714	733	755	763	437
45°	554	581	619	657	672	427
55°	406	448	506	560	584	364
65°	266	320	394	459	487	264
75°	133	198	283	355	382	142
85°	30	99	191	262	287	34
90°	0	70	157	224	247	2
95°	0	56	134	193	214	0
105°	1	36	101	146	162	1
115°	1	5	70	110	124	1
125°	1	1	30	68	82	1
135°	1	0	0	22	32	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: P290478

CATALOG NUMBER: 8SSRK-SLW-40-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	983.5	983.5	983.5	983.5	983.5
2.5°	988.5	985.2	975.6	983.9	981.9
5°	983.5	981.0	972.7	981.9	980.2
7.5°	974.0	973.6	966.9	976.5	973.6
10°	962.4	962.8	957.4	966.9	964.0
12.5°	946.6	948.2	944.5	953.6	953.2
15°	928.3	931.2	928.3	937.4	938.3
17.5°	907.6	912.1	910.0	921.3	920.0
20°	881.8	888.0	889.7	900.9	900.5
22.5°	856.1	864.0	866.9	878.5	880.2
25°	827.4	837.0	841.1	855.7	857.3
27.5°	796.3	808.7	816.2	830.7	834.5
30°	764.7	778.0	791.3	805.8	809.2
32.5°	731.9	746.5	761.8	781.8	785.5
35°	697.1	713.7	732.8	754.8	762.7
37.5°	664.3	682.9	705.4	731.1	739.4
40°	629.0	648.1	675.9	705.0	718.2
42.5°	589.5	615.3	648.5	683.4	695.0
45°	553.8	581.2	619.0	657.2	672.2
47.5°	516.5	548.4	591.2	633.5	649.7
50°	480.3	515.2	563.8	609.5	629.0
52.5°	443.0	482.4	535.1	585.8	604.1
55°	406.0	448.0	506.1	560.5	583.7
57.5°	372.8	415.6	479.9	535.6	559.2
60°	335.5	384.9	450.5	510.2	535.1
62.5°	301.0	351.2	421.4	484.9	509.8
65°	266.1	320.1	394.0	459.2	486.6
67.5°	233.3	287.7	366.2	433.8	460.0
70°	198.4	257.4	337.5	407.3	433.8
72.5°	166.5	227.1	311.0	381.5	410.2
75°	133.3	198.0	283.1	355.4	382.4
77.5°	103.8	169.8	258.2	330.9	357.9
80°	75.1	144.1	233.3	306.4	332.5
82.5°	51.1	120.4	211.3	284.0	309.7
85°	29.5	99.2	191.0	261.6	286.9
87.5°	11.2	82.6	172.7	242.0	265.3
90°	0.4	70.2	156.9	223.8	247.4
92.5°	0.4	61.4	144.9	207.2	229.2
95°	0.4	55.6	133.7	192.6	214.2
97.5°	0.8	51.1	123.7	179.8	198.9
100°	0.8	46.5	115.4	167.3	185.6
102.5°	0.8	41.9	107.9	156.1	173.1
105°	0.8	35.7	101.3	145.7	162.3
107.5°	0.8	27.8	93.8	137.0	151.5
110°	0.8	20.3	85.9	128.3	142.4



TEST NUMBER: P290478

CATALOG NUMBER: 8SSRK-SLW-40-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	12.5	78.9	119.6	133.3
115°	0.8	4.6	70.2	110.0	123.7
117.5°	0.8	1.7	59.8	100.9	112.9
120°	0.8	1.2	49.8	90.9	103.0
122.5°	0.8	1.2	39.4	80.1	93.0
125°	0.8	1.2	29.5	68.5	82.2
127.5°	0.8	0.8	19.1	56.5	68.9
130°	0.8	0.8	9.1	44.8	56.9
132.5°	0.8	0.8	0.4	32.8	44.4
135°	0.8	0.4	0.4	21.6	32.0
137.5°	0.8	0.4	0.0	10.4	20.8
140°	0.8	0.4	0.0	0.0	8.3
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)