

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: P290458

Luminaire Tested: **4SSRK-SLW-40-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290458
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: 4SSRK-SLW-40-L840-CD1-U
Description: 4000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE FROSTED LENS AND 80 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3966.3 lumens
Efficiency: N/A
Efficacy: 143.2 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.23 / 1.34
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Direct

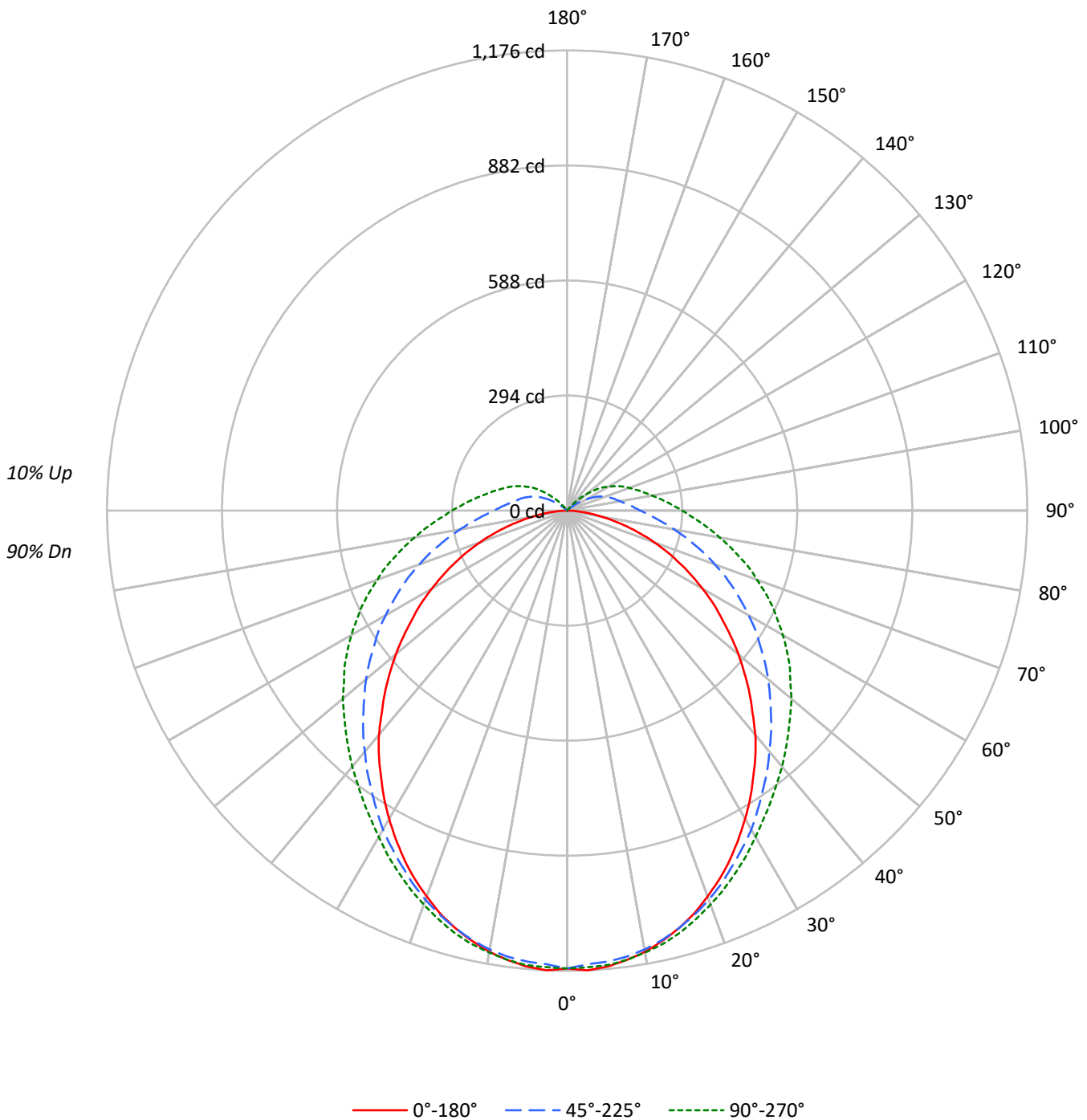
Input Watts (W): 27.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290458

CATALOG NUMBER: 4SSRK-SLW-40-L840-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P290458

CATALOG NUMBER: 4SSRK-SLW-40-L840-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°	75575	75575	75575
5°	75588	60026	56010
10°	74541	49671	44109
15°	73033	41822	36029
20°	71032	35661	29983
25°	68818	30573	25368
30°	66261	26495	21694
35°	63537	22905	18822
40°	60964	19953	16539
45°	57782	17436	14608
50°	54704	15297	13039
55°	51341	13342	11650
60°	48080	11636	10373
65°	44413	10050	9236
70°	40003	8567	8130
75°	34249	7206	7126
80°	26894	6000	6214
85°	17618	5001	5413



TEST NUMBER: P290458

CATALOG NUMBER: 4SSRK-SLW-40-L840-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.6	2.8
10°-20°	312.8	7.9
20°-30°	462.7	11.7
30°-40°	546.5	13.8
40°-50°	568.1	14.3
50°-60°	535.6	13.5
60°-70°	456.5	11.5
70°-80°	345.3	8.7
80°-90°	233.0	5.9
90°-100°	159.9	4.0
100°-110°	114.7	2.9
110°-120°	73.6	1.9
120°-130°	37.5	0.9
130°-140°	9.5	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°	886.0	22.3
0°-40°	1432.5	36.1
0°-60°	2536.1	63.9
0°-90°	3570.9	90.0
90°-120°	348.3	8.8
90°-150°	395.5	10.0
90°-180°	395.0	10.0
0°-180°	3966.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1170	1170	1170	1170	1170	
5°	1170	1167	1157	1168	1166	111
15°	1104	1108	1104	1115	1116	311
25°	984	996	1001	1018	1020	453
35°	829	849	872	898	907	519
45°	659	692	736	782	800	508
55°	483	533	602	667	694	433
65°	317	381	469	546	579	314
75°	159	236	337	423	455	169
85°	35	118	227	311	341	40
90°	0	84	187	266	294	2
95°	0	66	159	229	255	1
105°	1	42	120	173	193	1
115°	1	5	84	131	147	1
125°	1	2	35	82	98	1
135°	1	0	0	26	38	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: P290458

CATALOG NUMBER: 4SSRK-SLW-40-L840-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1170.2	1170.2	1170.2	1170.2	1170.2
2.5°	1176.1	1172.2	1160.8	1170.7	1168.2
5°	1170.2	1167.2	1157.4	1168.2	1166.3
7.5°	1158.8	1158.4	1150.5	1161.8	1158.4
10°	1145.0	1145.5	1139.1	1150.5	1147.0
12.5°	1126.2	1128.2	1123.8	1134.6	1134.2
15°	1104.5	1108.0	1104.5	1115.4	1116.4
17.5°	1079.8	1085.2	1082.8	1096.1	1094.6
20°	1049.2	1056.6	1058.6	1071.9	1071.4
22.5°	1018.6	1027.9	1031.4	1045.2	1047.2
25°	984.5	995.8	1000.8	1018.1	1020.0
27.5°	947.4	962.2	971.1	988.4	992.9
30°	909.9	925.7	941.5	958.8	962.7
32.5°	870.9	888.2	906.4	930.1	934.6
35°	829.4	849.1	871.9	898.0	907.4
37.5°	790.3	812.6	839.3	869.9	879.8
40°	748.4	771.1	804.2	838.8	854.6
42.5°	701.4	732.1	771.6	813.1	826.9
45°	659.0	691.6	736.5	782.0	799.7
47.5°	614.5	652.5	703.4	753.8	773.1
50°	571.5	613.0	670.8	725.1	748.4
52.5°	527.1	574.0	636.7	697.0	718.7
55°	483.1	533.0	602.1	666.9	694.5
57.5°	443.6	494.5	571.0	637.2	665.4
60°	399.1	457.9	536.0	607.1	636.7
62.5°	358.1	417.9	501.4	577.0	606.6
65°	316.6	380.8	468.8	546.3	578.9
67.5°	277.6	342.3	435.7	516.2	547.3
70°	236.1	306.3	401.6	484.6	516.2
72.5°	198.1	270.2	370.0	454.0	488.0
75°	158.6	235.6	336.9	422.8	454.9
77.5°	123.5	202.0	307.2	393.7	425.8
80°	89.4	171.4	277.6	364.5	395.7
82.5°	60.8	143.3	251.4	337.9	368.5
85°	35.1	118.1	227.2	311.2	341.3
87.5°	13.3	98.3	205.5	288.0	315.6
90°	0.5	83.5	186.7	266.2	294.4
92.5°	0.5	73.1	172.4	246.5	272.7
95°	0.5	66.2	159.1	229.2	254.9
97.5°	1.0	60.8	147.2	213.9	236.6
100°	1.0	55.3	137.3	199.1	220.8
102.5°	1.0	49.9	128.4	185.7	206.0
105°	1.0	42.5	120.5	173.4	193.1
107.5°	1.0	33.1	111.6	163.0	180.3
110°	1.0	24.2	102.3	152.6	169.4



TEST NUMBER: P290458

CATALOG NUMBER: 4SSRK-SLW-40-L840-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	14.8	93.9	142.3	158.6
115°	1.0	5.4	83.5	130.9	147.2
117.5°	1.0	2.0	71.1	120.0	134.4
120°	1.0	1.5	59.3	108.2	122.5
122.5°	1.0	1.5	46.9	95.3	110.6
125°	1.0	1.5	35.1	81.5	97.8
127.5°	1.0	1.0	22.7	67.2	82.0
130°	1.0	1.0	10.9	53.3	67.7
132.5°	1.0	1.0	0.5	39.0	52.9
135°	1.0	0.5	0.5	25.7	38.0
137.5°	1.0	0.5	0.0	12.3	24.7
140°	1.0	0.5	0.0	0.0	9.9
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)