

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: P289949

Luminaire Tested: **8SSRK-LW-40-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289949
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-LW-40-L935-CD1-U
Description: 4000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 90 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3066.4 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Semi-Direct

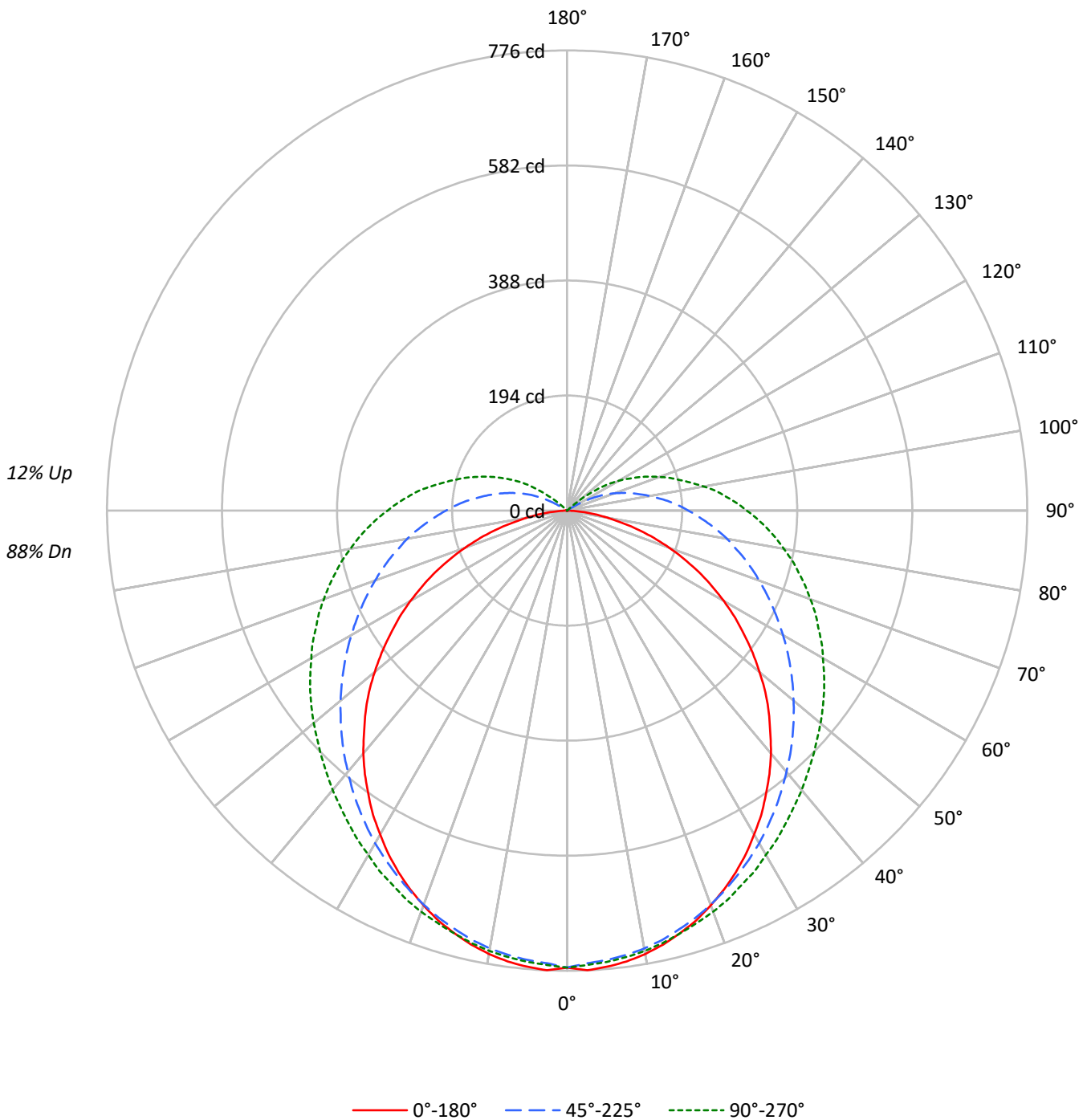
Input Watts (W): 27.0151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P289949

CATALOG NUMBER: 8SSRK-LW-40-L935-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P289949

CATALOG NUMBER: 8SSRK-LW-40-L935-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	116	116	116	116	112	112	112	112	105	105	105		98	98	98		91	91	91	88
1	103	97	92	87	99	94	89	84	87	83	79		81	78	75		76	73	71	67
2	93	83	75	68	89	80	73	67	74	68	63		69	64	60		65	61	57	54
3	84	72	63	56	80	70	61	54	65	58	52		60	54	50		56	51	47	44
4	76	63	54	47	73	61	52	46	57	50	44		53	47	42		50	44	40	37
5	70	56	47	40	67	54	46	39	51	43	37		48	41	36		45	39	34	32
6	65	50	41	34	62	49	40	34	46	38	32		43	36	31		40	35	30	28
7	60	46	36	30	57	44	36	30	42	34	28		39	32	27		37	31	26	24
8	55	41	33	27	53	40	32	26	38	31	25		36	29	24		34	28	24	21
9	52	38	30	24	50	37	29	23	35	28	23		33	27	22		31	25	21	19
10	49	35	27	21	47	34	26	21	32	25	21		31	24	20		29	23	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	24884	24884	24884
5°	24985	19751	18347
10°	24803	16378	14498
15°	24515	13869	11905
20°	24153	11947	10073
25°	23745	10402	8660
30°	23237	9144	7555
35°	22710	8073	6672
40°	22152	7162	5954
45°	21509	6387	5354
50°	20765	5708	4859
55°	19901	5110	4437
60°	19024	4583	4058
65°	17905	4112	3729
70°	16360	3692	3438
75°	14308	3315	3165
80°	11392	2975	2912
85°	7391	2631	2681



TEST NUMBER: P289949

CATALOG NUMBER: 8SSRK-LW-40-L935-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.8	2.4
10°-20°	207.7	6.8
20°-30°	315.0	10.3
30°-40°	384.4	12.5
40°-50°	414.0	13.5
50°-60°	406.6	13.3
60°-70°	367.4	12.0
70°-80°	305.9	10.0
80°-90°	234.6	7.7
90°-100°	169.9	5.5
100°-110°	109.7	3.6
110°-120°	59.1	1.9
120°-130°	18.7	0.6
130°-140°	0.7	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°	595.5	19.4
0°-40°	979.8	32.0
0°-60°	1800.5	58.7
0°-90°	2708.3	88.3
90°-120°	338.7	11.0
90°-150°	358.1	11.7
90°-180°	358.0	11.7
0°-180°	3066.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	771	771	771	771	771	
5°	772	769	761	766	764	73
15°	737	736	731	739	738	208
25°	673	674	679	694	696	310
35°	584	592	612	637	643	366
45°	481	499	538	573	586	371
55°	364	400	459	510	529	326
65°	245	298	382	446	467	242
75°	124	205	308	380	404	131
85°	25	126	238	312	338	30
90°	1	94	204	278	303	1
95°	2	68	173	245	269	1
105°	2	24	113	176	198	2
115°	1	1	57	112	133	1
125°	1	0	0	45	64	1
135°	0	0	0	0	0	0
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: P289949

CATALOG NUMBER: 8SSRK-LW-40-L935-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	770.6	770.6	770.6	770.6	770.6
2.5°	775.9	772.6	764.1	769.4	767.0
5°	772.2	769.4	760.9	766.5	764.1
7.5°	767.0	764.1	756.0	761.7	759.7
10°	759.2	756.4	749.9	755.6	754.0
12.5°	749.5	747.5	741.4	748.3	746.7
15°	737.4	735.7	730.9	739.0	737.8
17.5°	724.4	722.8	719.9	728.4	728.8
20°	708.2	707.8	707.4	718.3	719.9
22.5°	691.6	692.0	693.6	707.0	709.4
25°	672.9	673.7	679.0	693.6	696.4
27.5°	653.0	655.9	663.6	680.6	685.1
30°	630.7	635.6	647.8	665.6	670.5
32.5°	608.9	614.1	630.3	651.4	657.9
35°	584.5	592.2	612.5	636.8	643.3
37.5°	560.2	569.1	594.3	620.6	628.7
40°	534.7	546.4	575.2	604.8	615.3
42.5°	507.1	523.7	557.0	588.6	600.3
45°	480.8	499.0	537.5	572.8	586.2
47.5°	453.6	475.5	518.1	557.4	571.6
50°	423.6	450.0	498.6	542.0	557.8
52.5°	394.4	425.6	479.1	526.2	543.6
55°	364.0	400.1	459.3	510.4	529.0
57.5°	335.6	374.2	440.2	493.7	513.6
60°	305.2	349.0	420.4	478.3	498.2
62.5°	274.4	323.9	400.9	461.7	484.0
65°	244.8	297.9	381.9	445.9	467.4
67.5°	213.2	274.4	363.2	428.9	453.2
70°	183.2	250.1	344.6	412.7	436.6
72.5°	153.2	226.6	326.3	396.4	420.8
75°	123.6	205.1	308.5	379.8	404.1
77.5°	94.0	182.4	290.2	363.2	388.7
80°	68.5	162.6	274.0	346.2	370.9
82.5°	46.6	143.9	255.8	330.0	355.1
85°	24.7	125.7	237.9	312.1	338.1
87.5°	7.3	109.4	220.5	294.7	320.6
90°	0.8	94.4	204.3	277.7	302.8
92.5°	1.2	81.5	188.9	262.3	286.6
95°	1.6	68.5	173.1	245.2	269.2
97.5°	1.6	57.2	156.9	227.8	253.4
100°	1.6	46.2	141.5	210.0	233.5
102.5°	1.6	36.1	126.9	192.1	215.2
105°	1.6	24.3	112.7	176.3	198.2
107.5°	1.6	12.2	98.9	160.9	182.4
110°	1.6	2.4	85.1	145.1	165.8



TEST NUMBER: P289949

CATALOG NUMBER: 8SSRK-LW-40-L935-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	1.6	71.7	128.5	149.6
115°	1.2	1.2	56.8	112.3	133.4
117.5°	1.2	1.2	40.5	97.3	116.3
120°	1.2	0.8	23.5	81.5	100.5
122.5°	0.8	0.8	7.7	63.2	83.9
125°	0.8	0.4	0.4	45.0	64.0
127.5°	0.8	0.4	0.0	25.1	43.4
130°	0.8	0.4	0.0	7.3	24.7
132.5°	0.8	0.4	0.0	0.0	5.3
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)