

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: P289955

Luminaire Tested: **8SSRK-LW-40-L850-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289955
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-L850-CD1-U
Description: 4000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 80 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3712.4 lumens
Efficiency: N/A
Efficacy: 137.4 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

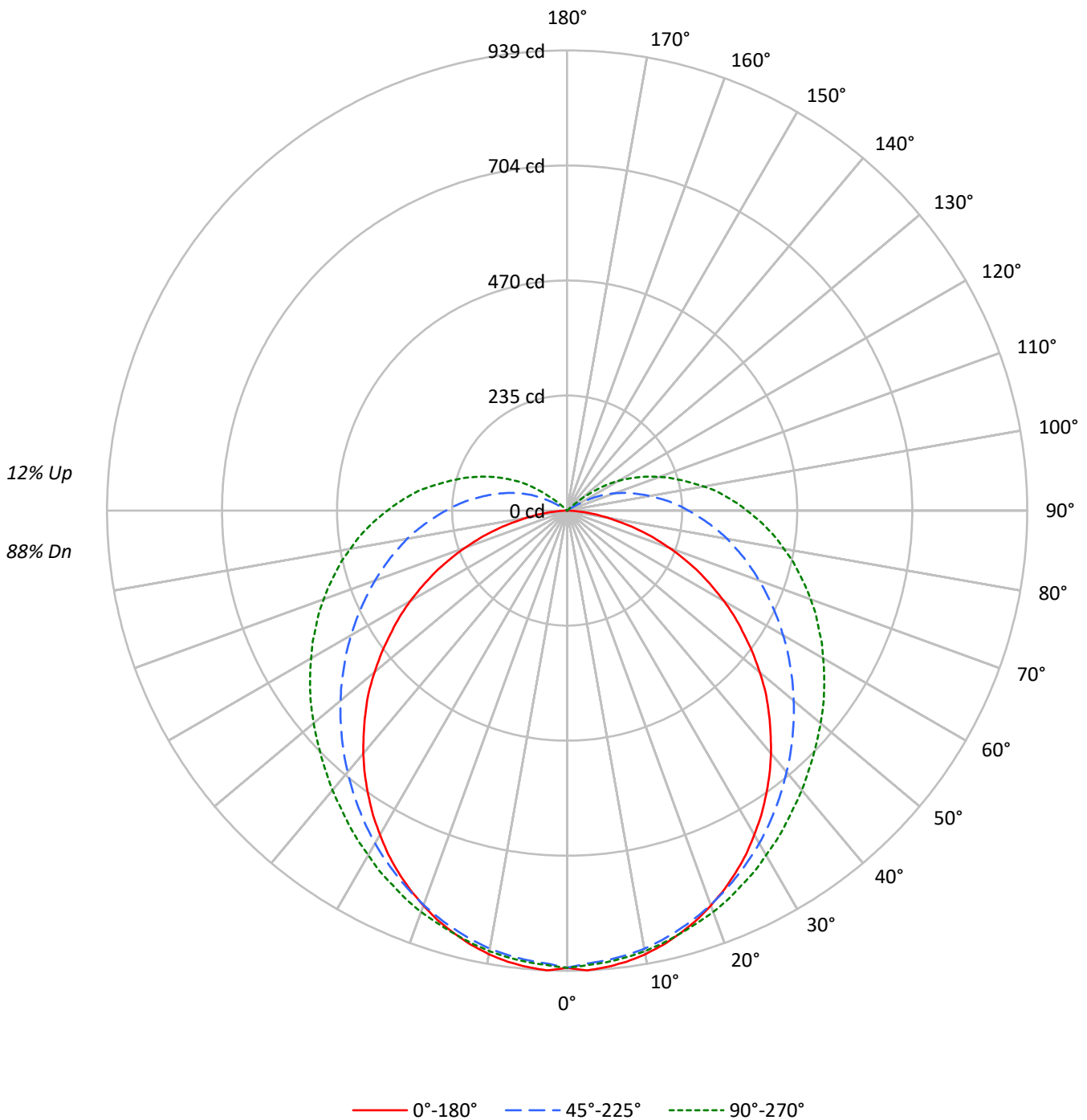
Input Watts (W): 27.0151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P289955

CATALOG NUMBER: 8SSRK-LW-40-L850-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P289955

CATALOG NUMBER: 8SSRK-LW-40-L850-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		75	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°	30125	30125	30125
5°	30249	23912	22213
10°	30030	19829	17551
15°	29678	16789	14413
20°	29242	14463	12196
25°	28748	12593	10484
30°	28134	11070	9145
35°	27497	9773	8077
40°	26817	8671	7209
45°	26036	7732	6481
50°	25137	6910	5883
55°	24094	6186	5371
60°	23032	5548	4913
65°	21679	4977	4514
70°	19807	4469	4162
75°	17330	4013	3833
80°	13787	3603	3525
85°	8947	3187	3246



TEST NUMBER: P289955

CATALOG NUMBER: 8SSRK-LW-40-L850-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.1	2.4
10°-20°	251.5	6.8
20°-30°	381.3	10.3
30°-40°	465.4	12.5
40°-50°	501.2	13.5
50°-60°	492.3	13.3
60°-70°	444.8	12.0
70°-80°	370.3	10.0
80°-90°	284.0	7.7
90°-100°	205.6	5.5
100°-110°	132.8	3.6
110°-120°	71.6	1.9
120°-130°	22.7	0.6
130°-140°	0.8	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°	720.9	19.4
0°-40°	1186.3	32.0
0°-60°	2179.7	58.7
0°-90°	3278.9	88.3
90°-120°	410.1	11.0
90°-150°	433.6	11.7
90°-180°	434.0	11.7
0°-180°	3712.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	933	933	933	933	933	
5°	935	932	921	928	925	89
15°	893	891	885	895	893	252
25°	815	816	822	840	843	375
35°	708	717	742	771	779	443
45°	582	604	651	693	710	449
55°	441	484	556	618	640	395
65°	296	361	462	540	566	292
75°	150	248	374	460	489	159
85°	30	152	288	378	409	36
90°	1	114	247	336	367	2
95°	2	83	210	297	326	2
105°	2	29	136	214	240	2
115°	2	2	69	136	162	2
125°	1	0	0	54	78	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: P289955

CATALOG NUMBER: 8SSRK-LW-40-L850-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	932.9	932.9	932.9	932.9	932.9
2.5°	939.3	935.4	925.1	931.5	928.5
5°	934.9	931.5	921.2	928.0	925.1
7.5°	928.5	925.1	915.3	922.1	919.7
10°	919.2	915.8	907.9	914.8	912.8
12.5°	907.4	905.0	897.6	905.9	904.0
15°	892.7	890.7	884.8	894.7	893.2
17.5°	877.0	875.0	871.6	881.9	882.4
20°	857.4	856.9	856.4	869.6	871.6
22.5°	837.2	837.7	839.7	855.9	858.8
25°	814.7	815.6	822.0	839.7	843.1
27.5°	790.6	794.1	803.4	824.0	829.4
30°	763.6	769.5	784.2	805.8	811.7
32.5°	737.1	743.5	763.1	788.7	796.5
35°	707.7	717.0	741.5	771.0	778.8
37.5°	678.2	689.0	719.5	751.4	761.2
40°	647.3	661.5	696.4	732.2	745.0
42.5°	613.9	634.1	674.3	712.6	726.8
45°	582.0	604.1	650.7	693.4	709.6
47.5°	549.2	575.7	627.2	674.8	692.0
50°	512.8	544.7	603.6	656.1	675.3
52.5°	477.5	515.3	580.1	637.0	658.1
55°	440.7	484.4	556.0	617.9	640.4
57.5°	406.3	453.0	533.0	597.7	621.8
60°	369.5	422.5	508.9	579.1	603.1
62.5°	332.2	392.1	485.4	559.0	586.0
65°	296.4	360.7	462.3	539.8	565.8
67.5°	258.1	332.2	439.7	519.2	548.7
70°	221.8	302.8	417.1	499.6	528.5
72.5°	185.5	274.3	395.1	480.0	509.4
75°	149.7	248.3	373.5	459.8	489.3
77.5°	113.9	220.8	351.4	439.7	470.6
80°	82.9	196.8	331.8	419.1	449.0
82.5°	56.4	174.2	309.7	399.5	429.9
85°	29.9	152.1	288.1	377.9	409.3
87.5°	8.8	132.5	267.0	356.8	388.2
90°	1.0	114.3	247.3	336.2	366.6
92.5°	1.5	98.6	228.7	317.5	347.0
95°	2.0	82.9	209.6	296.9	325.9
97.5°	2.0	69.2	189.9	275.8	306.7
100°	2.0	55.9	171.3	254.2	282.7
102.5°	2.0	43.7	153.6	232.6	260.6
105°	2.0	29.4	136.4	213.5	240.0
107.5°	2.0	14.7	119.7	194.8	220.8
110°	2.0	2.9	103.1	175.7	200.7



TEST NUMBER: P289955

CATALOG NUMBER: 8SSRK-LW-40-L850-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	2.0	86.9	155.6	181.1
115°	1.5	1.5	68.7	135.9	161.5
117.5°	1.5	1.5	49.1	117.8	140.8
120°	1.5	1.0	28.5	98.6	121.7
122.5°	1.0	1.0	9.3	76.6	101.6
125°	1.0	0.5	0.5	54.5	77.5
127.5°	1.0	0.5	0.0	30.4	52.5
130°	1.0	0.5	0.0	8.8	29.9
132.5°	1.0	0.5	0.0	0.0	6.4
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)