

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: P289958

Luminaire Tested: **8SSRK-LW-50-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289958
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-50-L940-CD1-U
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 90 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3953.9 lumens
Efficiency: N/A
Efficacy: 115.6 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

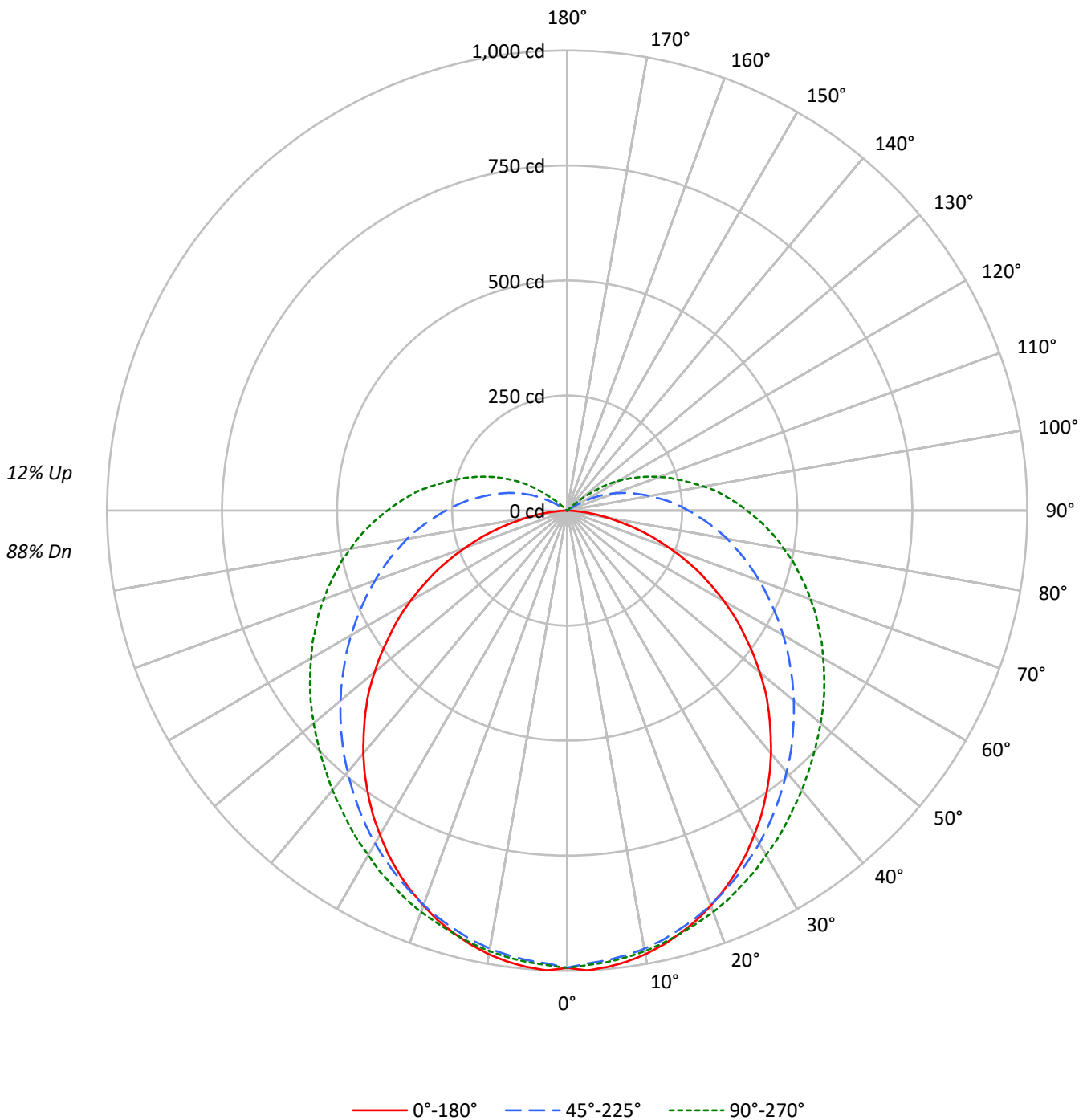
Input Watts (W): 34.1991
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	32085	32085	32085
5°	32217	25467	23656
10°	31984	21118	18693
15°	31606	17882	15350
20°	31142	15403	12989
25°	30615	13412	11167
30°	29965	11790	9740
35°	29284	10410	8603
40°	28561	9235	7677
45°	27731	8236	6903
50°	26774	7360	6265
55°	25663	6588	5721
60°	24535	5908	5233
65°	23090	5301	4807
70°	21093	4761	4433
75°	18453	4275	4082
80°	14685	3837	3755
85°	9546	3393	3457



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.8	2.4
10°-20°	267.8	6.8
20°-30°	406.1	10.3
30°-40°	495.6	12.5
40°-50°	533.8	13.5
50°-60°	524.3	13.3
60°-70°	473.7	12.0
70°-80°	394.4	10.0
80°-90°	302.5	7.7
90°-100°	219.0	5.5
100°-110°	141.5	3.6
110°-120°	76.3	1.9
120°-130°	24.1	0.6
130°-140°	0.9	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°	767.8	19.4
0°-40°	1263.4	32.0
0°-60°	2321.5	58.7
0°-90°	3492.1	88.3
90°-120°	436.8	11.0
90°-150°	461.8	11.7
90°-180°	462.0	11.7
0°-180°	3953.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	994	994	994	994	994	
5°	996	992	981	988	985	95
15°	951	949	942	953	951	268
25°	868	869	876	894	898	400
35°	754	764	790	821	830	472
45°	620	643	693	738	756	478
55°	469	516	592	658	682	421
65°	316	384	492	575	603	312
75°	159	264	398	490	521	169
85°	32	162	307	402	436	38
90°	1	122	263	358	390	2
95°	2	88	223	316	347	2
105°	2	31	145	227	256	2
115°	2	2	73	145	172	2
125°	1	0	0	58	83	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



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CATALOG NUMBER: 8SSRK-LW-50-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	993.6	993.6	993.6	993.6	993.6
2.5°	1000.4	996.2	985.2	992.0	988.9
5°	995.7	992.0	981.1	988.4	985.2
7.5°	988.9	985.2	974.8	982.1	979.5
10°	979.0	975.3	966.9	974.3	972.2
12.5°	966.4	963.8	956.0	964.9	962.8
15°	950.7	948.7	942.4	952.8	951.3
17.5°	934.0	931.9	928.3	939.2	939.8
20°	913.1	912.6	912.1	926.2	928.3
22.5°	891.7	892.2	894.3	911.5	914.7
25°	867.6	868.7	875.5	894.3	898.0
27.5°	842.0	845.7	855.6	877.6	883.3
30°	813.3	819.6	835.2	858.2	864.5
32.5°	785.1	791.9	812.8	839.9	848.3
35°	753.7	763.6	789.8	821.1	829.5
37.5°	722.3	733.8	766.2	800.2	810.7
40°	689.4	704.6	741.7	779.8	793.4
42.5°	653.9	675.3	718.2	758.9	774.1
45°	619.9	643.4	693.1	738.5	755.8
47.5°	584.9	613.1	668.0	718.7	737.0
50°	546.2	580.2	642.9	698.8	719.2
52.5°	508.6	548.8	617.8	678.4	700.9
55°	469.4	515.9	592.2	658.0	682.1
57.5°	432.8	482.4	567.6	636.6	662.2
60°	393.6	450.0	542.0	616.8	642.4
62.5°	353.9	417.6	516.9	595.3	624.1
65°	315.7	384.2	492.4	574.9	602.6
67.5°	274.9	353.9	468.3	553.0	584.4
70°	236.2	322.5	444.3	532.1	562.9
72.5°	197.6	292.2	420.8	511.2	542.5
75°	159.4	264.5	397.8	489.7	521.1
77.5°	121.3	235.2	374.2	468.3	501.2
80°	88.3	209.6	353.3	446.4	478.2
82.5°	60.1	185.5	329.8	425.5	457.9
85°	31.9	162.0	306.8	402.5	435.9
87.5°	9.4	141.1	284.3	380.0	413.4
90°	1.0	121.8	263.4	358.0	390.4
92.5°	1.6	105.1	243.6	338.2	369.5
95°	2.1	88.3	223.2	316.2	347.1
97.5°	2.1	73.7	202.3	293.7	326.7
100°	2.1	59.6	182.4	270.7	301.1
102.5°	2.1	46.5	163.6	247.7	277.5
105°	2.1	31.4	145.3	227.4	255.6
107.5°	2.1	15.7	127.5	207.5	235.2
110°	2.1	3.1	109.8	187.1	213.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.6	2.1	92.5	165.7	192.9
115°	1.6	1.6	73.2	144.8	172.0
117.5°	1.6	1.6	52.3	125.4	150.0
120°	1.6	1.0	30.3	105.1	129.6
122.5°	1.0	1.0	9.9	81.5	108.2
125°	1.0	0.5	0.5	58.0	82.6
127.5°	1.0	0.5	0.0	32.4	55.9
130°	1.0	0.5	0.0	9.4	31.9
132.5°	1.0	0.5	0.0	0.0	6.8
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)