

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: P290414

Luminaire Tested: **8SSRK-SLN-80-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290414
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-15)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-SLN-80-L940-CD1-U
Description: 8000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 90 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7435.7 lumens
Efficiency: N/A
Efficacy: 131.3 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 0.98 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

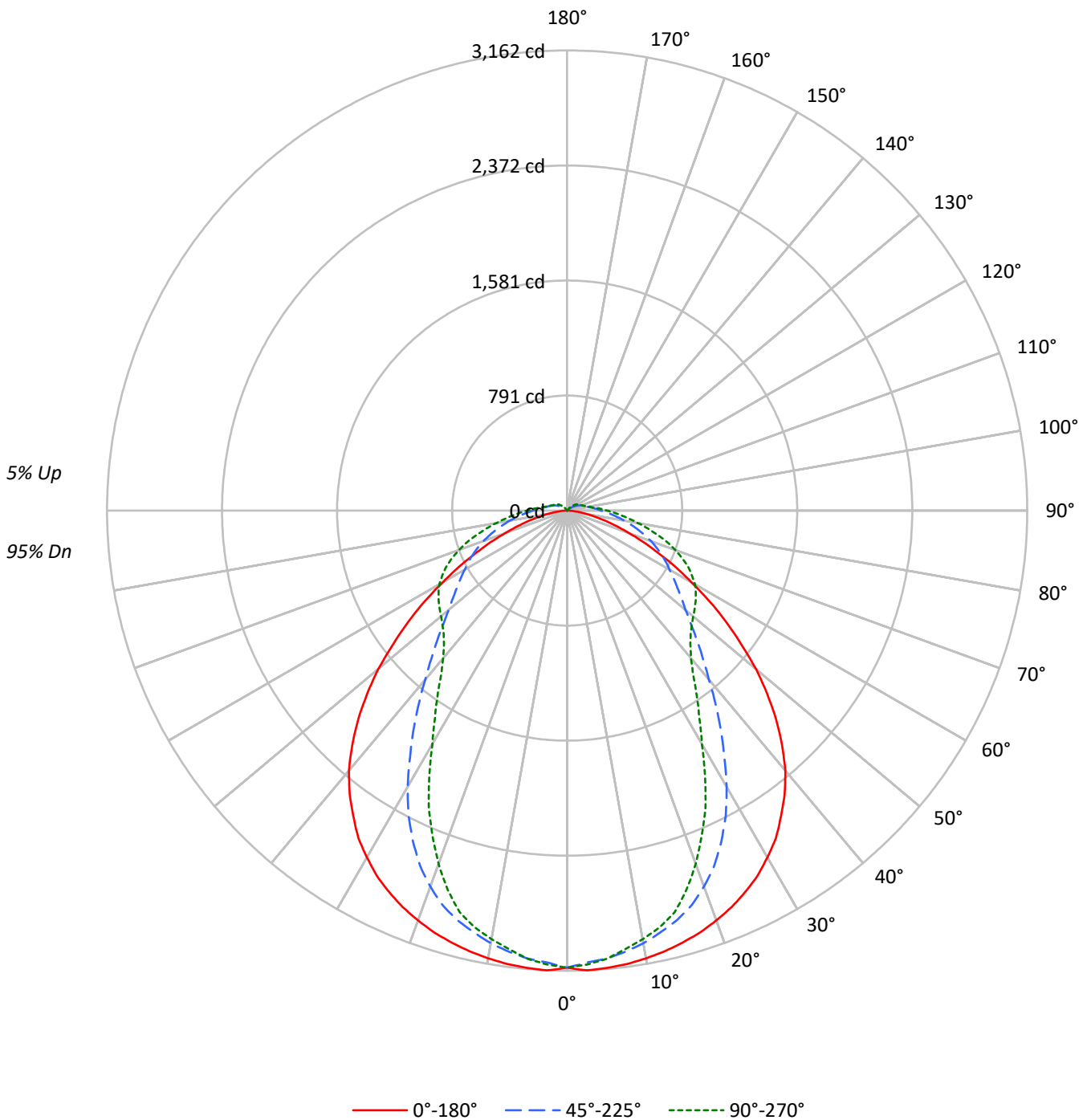
Input Watts (W): 56.6491
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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	118	118	118	118	115	115	115	115	108	108	108	103	103	103	98	98	98	95
1	107	102	98	94	104	100	96	92	94	91	88	90	87	85	85	83	81	79
2	98	90	83	77	95	87	81	76	83	78	73	79	75	71	75	72	69	66
3	90	79	71	65	87	77	70	64	74	67	62	70	65	60	67	63	59	56
4	82	71	62	56	80	69	61	55	66	59	54	63	57	52	60	55	51	49
5	76	64	55	48	74	62	54	48	60	52	47	57	51	46	55	49	45	43
6	71	58	49	43	68	56	48	42	54	47	42	52	46	41	50	45	40	38
7	66	53	44	38	64	52	44	38	50	42	37	48	41	37	46	40	36	34
8	61	48	40	34	60	47	40	34	46	39	34	44	38	33	43	37	33	31
9	57	44	37	31	56	44	36	31	42	35	31	41	35	30	40	34	30	28
10	54	41	34	28	53	41	33	28	39	33	28	38	32	28	37	31	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	101418	101418	101418
5°	102063	80210	74259
10°	102073	65930	57498
15°	102129	55291	46090
20°	102220	46425	36146
25°	102096	38401	27977
30°	101376	30946	20878
35°	99563	24276	16100
40°	96626	18878	12809
45°	90884	14995	10961
50°	83039	12155	9856
55°	72845	10283	9050
60°	61579	8859	8264
65°	50577	7694	7326
70°	40508	6553	6217
75°	31129	5409	5019
80°	22435	4338	3879
85°	14124	3392	2950



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.9	4.0
10°-20°	826.7	11.1
20°-30°	1162.5	15.6
30°-40°	1217.4	16.4
40°-50°	1102.2	14.8
50°-60°	938.1	12.6
60°-70°	741.8	10.0
70°-80°	505.0	6.8
80°-90°	288.2	3.9
90°-100°	159.8	2.1
100°-110°	97.6	1.3
110°-120°	59.4	0.8
120°-130°	32.2	0.4
130°-140°	9.7	0.1
140°-150°	0.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2284.1	30.7
0°-40°	3501.5	47.1
0°-60°	5541.8	74.5
0°-90°	7076.7	95.2
90°-120°	316.8	4.3
90°-150°	359.0	4.8
90°-180°	359.0	4.8
0°-180°	7435.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3141	3141	3141	3141	3141	
5°	3154	3135	3090	3104	3093	300
15°	3072	3014	2914	2884	2856	868
25°	2893	2750	2507	2313	2250	1333
35°	2562	2274	1842	1612	1552	1601
45°	2032	1613	1262	1196	1200	1560
55°	1332	1017	924	1031	1079	1191
65°	692	600	715	873	918	696
75°	269	327	503	618	641	293
85°	47	156	307	367	372	57
90°	1	108	234	273	273	3
95°	2	83	185	204	203	1
105°	2	51	124	129	124	2
115°	2	7	83	97	94	1
125°	1	2	38	67	71	1
135°	2	2	2	28	36	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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3140.7	3140.7	3140.7	3140.7	3140.7
2.5°	3162.2	3145.0	3108.9	3132.1	3121.8
5°	3154.4	3134.7	3090.0	3103.7	3092.6
7.5°	3142.4	3115.8	3058.2	3062.5	3041.0
10°	3124.4	3090.0	3018.7	3011.0	2990.3
12.5°	3101.2	3053.9	2968.0	2957.7	2933.6
15°	3072.0	3013.5	2913.9	2883.8	2856.3
17.5°	3039.3	2965.4	2844.3	2777.3	2730.1
20°	2997.2	2903.6	2749.0	2651.9	2583.2
22.5°	2950.0	2836.6	2641.6	2495.5	2417.4
25°	2893.3	2749.8	2506.7	2312.6	2249.8
27.5°	2830.6	2659.6	2359.8	2133.0	2049.7
30°	2751.5	2545.4	2192.3	1949.2	1853.0
32.5°	2669.1	2422.5	2010.2	1765.3	1690.6
35°	2562.5	2273.9	1841.8	1611.6	1552.3
37.5°	2455.2	2115.0	1674.3	1474.1	1421.7
40°	2332.3	1954.3	1516.2	1360.7	1323.8
42.5°	2186.3	1791.1	1382.2	1265.4	1252.5
45°	2031.6	1613.3	1261.9	1195.8	1200.1
47.5°	1863.3	1451.8	1152.8	1140.0	1161.4
50°	1694.0	1301.5	1061.8	1097.9	1131.4
52.5°	1505.9	1156.3	989.6	1063.5	1103.9
55°	1332.4	1017.1	924.3	1030.9	1079.0
57.5°	1159.7	898.6	867.6	997.4	1048.0
60°	987.9	790.3	812.7	961.3	1014.5
62.5°	838.4	687.2	764.6	920.9	967.3
65°	691.5	600.5	714.7	872.8	918.3
67.5°	569.5	523.2	664.9	815.2	856.5
70°	453.6	450.1	611.6	751.7	789.5
72.5°	353.9	384.0	555.8	685.5	721.6
75°	268.9	327.3	503.4	618.5	640.8
77.5°	196.7	274.0	450.1	550.6	566.1
80°	134.9	227.6	399.5	482.8	494.0
82.5°	85.0	188.1	350.5	421.8	429.5
85°	47.2	155.5	306.7	366.8	372.0
87.5°	18.0	128.0	267.2	318.7	323.0
90°	0.9	108.2	234.5	273.2	273.2
92.5°	0.9	94.5	207.9	237.1	238.8
95°	1.7	83.3	184.7	204.5	202.7
97.5°	1.7	75.6	163.2	179.5	174.4
100°	1.7	68.7	146.9	158.1	152.9
102.5°	1.7	61.0	134.0	140.9	134.9
105°	1.7	50.7	123.7	128.9	123.7
107.5°	1.7	40.4	112.5	119.4	114.3
110°	1.7	30.1	102.2	110.8	106.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	18.9	92.8	103.1	100.5
115°	1.7	6.9	83.3	97.1	94.5
117.5°	0.9	3.4	71.3	90.2	89.3
120°	0.9	2.6	60.1	84.2	84.2
122.5°	0.9	2.6	49.8	75.6	79.0
125°	0.9	1.7	37.8	67.0	71.3
127.5°	0.9	1.7	26.6	58.4	63.6
130°	0.9	1.7	13.7	48.1	55.0
132.5°	0.9	1.7	1.7	37.8	45.5
135°	1.7	1.7	1.7	27.5	36.1
137.5°	1.7	1.7	1.7	14.6	25.8
140°	1.7	1.7	0.9	0.9	12.0
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)