

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: P290410

Luminaire Tested: **8SSRK-SLN-60-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290410
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-60-L840-CD1-U
Description: 6000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 80 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6429.5 lumens
Efficiency: N/A
Efficacy: 155.4 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

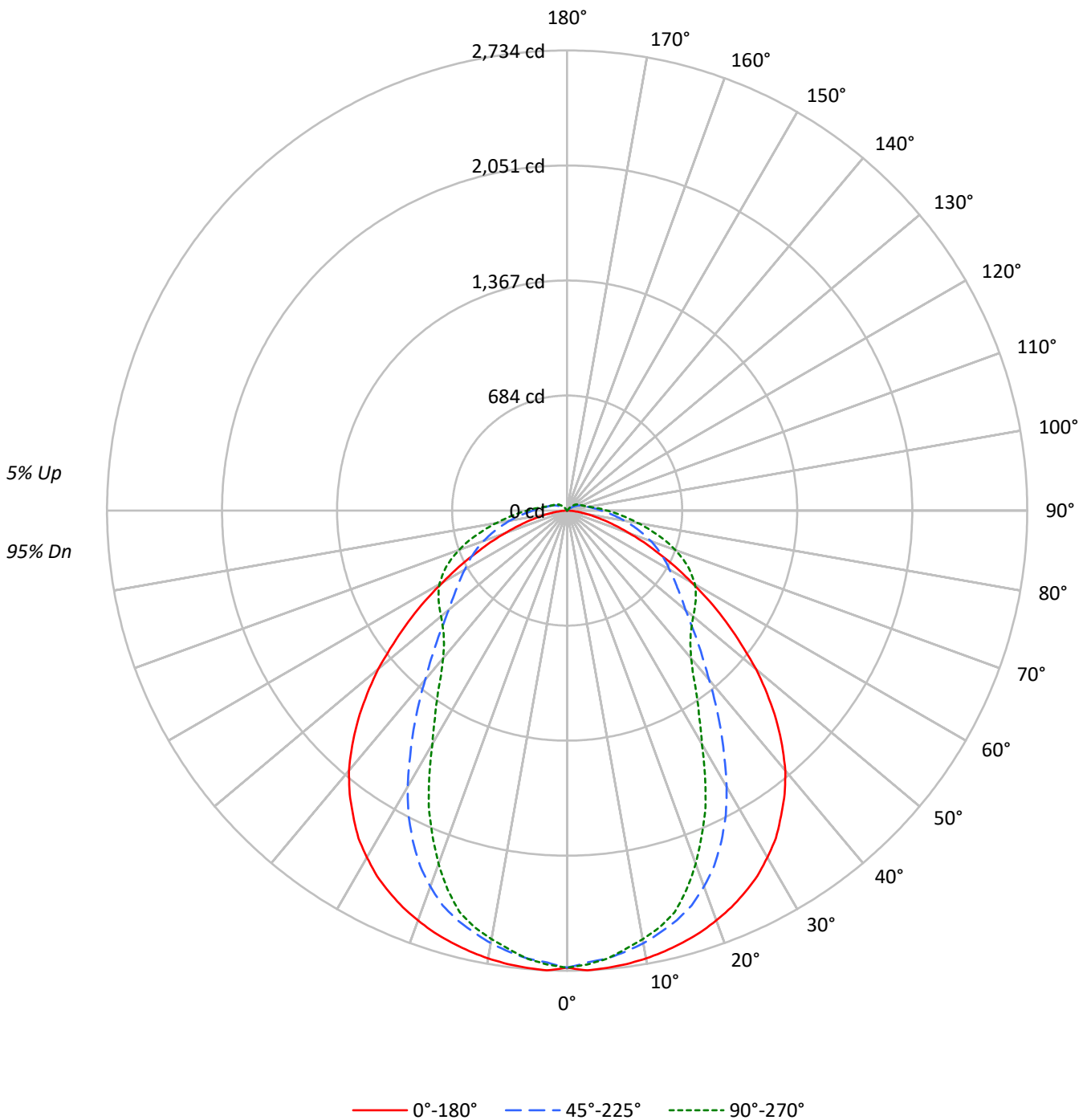
Input Watts (W): 41.3831
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	87694	87694	87694
5°	88254	69357	64210
10°	88260	57008	49718
15°	88309	47810	39853
20°	88391	40143	31254
25°	88281	33205	24192
30°	87659	26758	18052
35°	86092	20992	13922
40°	83550	16324	11076
45°	78586	12966	9478
50°	71804	10510	8522
55°	62987	8892	7825
60°	53245	7660	7147
65°	43738	6653	6335
70°	35024	5667	5375
75°	26915	4678	4340
80°	19392	3751	3353
85°	12239	2933	2550



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	255.0	4.0
10°-20°	714.8	11.1
20°-30°	1005.2	15.6
30°-40°	1052.7	16.4
40°-50°	953.0	14.8
50°-60°	811.1	12.6
60°-70°	641.4	10.0
70°-80°	436.7	6.8
80°-90°	249.2	3.9
90°-100°	138.2	2.1
100°-110°	84.4	1.3
110°-120°	51.3	0.8
120°-130°	27.8	0.4
130°-140°	8.4	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°	1975.1	30.7
0°-40°	3027.7	47.1
0°-60°	4791.9	74.5
0°-90°	6119.1	95.2
90°-120°	274.0	4.3
90°-150°	310.4	4.8
90°-180°	310.0	4.8
0°-180°	6429.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2716	2716	2716	2716	2716	
5°	2728	2710	2672	2684	2674	259
15°	2656	2606	2520	2494	2470	751
25°	2502	2378	2168	2000	1945	1153
35°	2216	1966	1593	1394	1342	1385
45°	1757	1395	1091	1034	1038	1349
55°	1152	880	799	891	933	1030
65°	598	519	618	755	794	602
75°	232	283	435	535	554	254
85°	41	134	265	317	322	49
90°	1	94	203	236	236	2
95°	2	72	160	177	175	1
105°	2	44	107	111	107	2
115°	2	6	72	84	82	1
125°	1	2	33	58	62	1
135°	2	2	2	24	31	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°	2715.7	2715.7	2715.7	2715.7	2715.7
2.5°	2734.3	2719.4	2688.2	2708.3	2699.4
5°	2727.6	2710.5	2671.9	2683.8	2674.1
7.5°	2717.2	2694.2	2644.4	2648.1	2629.5
10°	2701.6	2671.9	2610.2	2603.5	2585.7
12.5°	2681.5	2640.7	2566.4	2557.5	2536.7
15°	2656.3	2605.8	2519.6	2493.6	2469.8
17.5°	2628.0	2564.2	2459.4	2401.5	2360.6
20°	2591.7	2510.7	2377.0	2293.0	2233.6
22.5°	2550.8	2452.7	2284.1	2157.9	2090.3
25°	2501.8	2377.7	2167.5	1999.6	1945.4
27.5°	2447.5	2299.7	2040.5	1844.4	1772.3
30°	2379.2	2200.9	1895.6	1685.4	1602.2
32.5°	2307.9	2094.7	1738.2	1526.5	1461.8
35°	2215.8	1966.2	1592.6	1393.5	1342.3
37.5°	2122.9	1828.8	1447.7	1274.7	1229.3
40°	2016.7	1689.9	1311.1	1176.6	1144.7
42.5°	1890.4	1548.8	1195.2	1094.2	1083.0
45°	1756.7	1395.0	1091.2	1034.0	1037.7
47.5°	1611.1	1255.3	996.8	985.7	1004.3
50°	1464.8	1125.4	918.1	949.3	978.3
52.5°	1302.1	999.8	855.7	919.6	954.5
55°	1152.1	879.5	799.3	891.4	933.0
57.5°	1002.8	777.0	750.2	862.4	906.2
60°	854.2	683.4	702.7	831.2	877.3
62.5°	725.0	594.2	661.1	796.3	836.4
65°	598.0	519.2	618.0	754.7	794.1
67.5°	492.5	452.4	574.9	704.9	740.6
70°	392.2	389.2	528.9	650.0	682.6
72.5°	306.0	332.0	480.6	592.8	624.0
75°	232.5	283.0	435.3	534.8	554.1
77.5°	170.1	237.0	389.2	476.1	489.5
80°	116.6	196.8	345.4	417.5	427.1
82.5°	73.5	162.7	303.1	364.7	371.4
85°	40.9	134.4	265.2	317.2	321.6
87.5°	15.6	110.7	231.0	275.6	279.3
90°	0.7	93.6	202.8	236.2	236.2
92.5°	0.7	81.7	179.8	205.0	206.5
95°	1.5	72.1	159.7	176.8	175.3
97.5°	1.5	65.4	141.1	155.2	150.8
100°	1.5	59.4	127.0	136.7	132.2
102.5°	1.5	52.7	115.9	121.8	116.6
105°	1.5	43.8	107.0	111.4	107.0
107.5°	1.5	34.9	97.3	103.3	98.8
110°	1.5	26.0	88.4	95.8	92.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	16.3	80.2	89.1	86.9
115°	1.5	5.9	72.1	83.9	81.7
117.5°	0.7	3.0	61.7	78.0	77.3
120°	0.7	2.2	52.0	72.8	72.8
122.5°	0.7	2.2	43.1	65.4	68.3
125°	0.7	1.5	32.7	57.9	61.7
127.5°	0.7	1.5	23.0	50.5	55.0
130°	0.7	1.5	11.9	41.6	47.5
132.5°	0.7	1.5	1.5	32.7	39.4
135°	1.5	1.5	1.5	23.8	31.2
137.5°	1.5	1.5	1.5	12.6	22.3
140°	1.5	1.5	0.7	0.7	10.4
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)