

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: P290434

Luminaire Tested: **8SSRK-SLN-12-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290434
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-12-L840-CD1-U
Description: 12000 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: 11976.1 lumens
Efficiency: N/A
Efficacy: 148.0 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

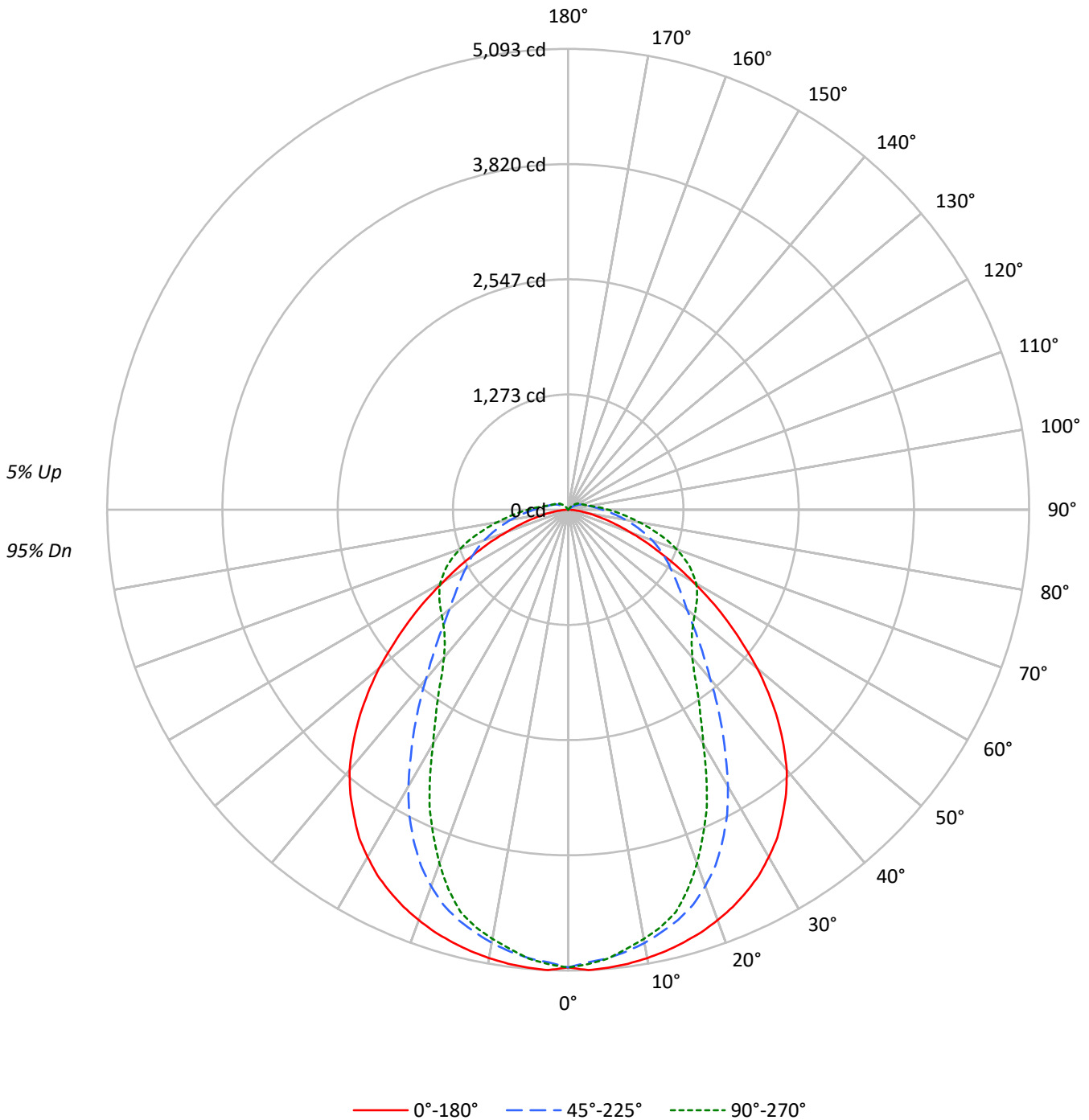
Input Watts (W): 80.8951
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	163343	163343	163343
5°	164387	129188	119603
10°	164400	106189	92608
15°	164490	89054	74234
20°	164640	74771	58216
25°	164437	61849	45060
30°	163281	49842	33625
35°	160361	39099	25931
40°	155629	30405	20631
45°	146382	24152	17654
50°	133750	19577	15873
55°	117326	16563	14575
60°	99179	14268	13311
65°	81464	12394	11799
70°	65235	10555	10012
75°	50137	8713	8085
80°	36122	6987	6247
85°	22773	5463	4751



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.0	4.0
10°-20°	1331.5	11.1
20°-30°	1872.4	15.6
30°-40°	1960.7	16.4
40°-50°	1775.2	14.8
50°-60°	1510.9	12.6
60°-70°	1194.7	10.0
70°-80°	813.4	6.8
80°-90°	464.1	3.9
90°-100°	257.4	2.1
100°-110°	157.3	1.3
110°-120°	95.6	0.8
120°-130°	51.8	0.4
130°-140°	15.7	0.1
140°-150°	0.4	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3678.9	30.7
0°-40°	5639.6	47.1
0°-60°	8925.6	74.5
0°-90°	11397.9	95.2
90°-120°	510.3	4.3
90°-150°	578.2	4.8
90°-180°	578.0	4.8
0°-180°	11976.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	5058	5058	5058	5058	5058	
5°	5081	5049	4977	4999	4981	483
15°	4948	4854	4693	4645	4600	1398
25°	4660	4429	4037	3725	3624	2147
35°	4127	3662	2966	2596	2500	2579
45°	3272	2598	2032	1926	1933	2513
55°	2146	1638	1489	1660	1738	1919
65°	1114	967	1151	1406	1479	1122
75°	433	527	811	996	1032	472
85°	76	250	494	591	599	91
90°	1	174	378	440	440	5
95°	3	134	298	329	326	2
105°	3	82	199	208	199	3
115°	3	11	134	156	152	2
125°	1	3	61	108	115	1
135°	3	3	3	44	58	2
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°	5058.4	5058.4	5058.4	5058.4	5058.4
2.5°	5093.0	5065.4	5007.2	5044.6	5028.0
5°	5080.6	5048.8	4976.8	4998.9	4981.0
7.5°	5061.2	5018.3	4925.6	4932.5	4897.9
10°	5032.2	4976.8	4862.0	4849.5	4816.3
12.5°	4994.8	4918.7	4780.3	4763.7	4725.0
15°	4947.8	4853.7	4693.2	4644.7	4600.5
17.5°	4895.2	4776.2	4581.1	4473.2	4397.1
20°	4827.4	4676.6	4427.5	4271.2	4160.5
22.5°	4751.3	4568.6	4254.6	4019.4	3893.4
25°	4660.0	4428.9	4037.3	3724.6	3623.6
27.5°	4559.0	4283.6	3800.7	3435.5	3301.3
30°	4431.7	4099.6	3530.9	3139.4	2984.4
32.5°	4298.8	3901.8	3237.6	2843.3	2722.9
35°	4127.3	3662.4	2966.4	2595.6	2500.2
37.5°	3954.3	3406.4	2696.6	2374.3	2289.9
40°	3756.5	3147.7	2442.1	2191.6	2132.1
42.5°	3521.3	2884.8	2226.2	2038.0	2017.3
45°	3272.2	2598.4	2032.5	1926.0	1932.9
47.5°	3001.0	2338.3	1856.8	1836.0	1870.6
50°	2728.5	2096.2	1710.1	1768.2	1822.2
52.5°	2425.4	1862.3	1593.9	1712.9	1777.9
55°	2146.0	1638.2	1488.8	1660.3	1737.8
57.5°	1867.9	1447.2	1397.4	1606.4	1688.0
60°	1591.1	1272.9	1308.9	1548.2	1634.0
62.5°	1350.4	1106.9	1231.4	1483.2	1557.9
65°	1113.8	967.1	1151.2	1405.7	1479.1
67.5°	917.3	842.6	1070.9	1313.0	1379.4
70°	730.5	725.0	985.1	1210.6	1271.5
72.5°	570.0	618.5	895.2	1104.1	1162.2
75°	433.1	527.2	810.8	996.2	1032.2
77.5°	316.8	441.4	725.0	886.9	911.8
80°	217.2	366.7	643.4	777.6	795.6
82.5°	137.0	303.0	564.5	679.3	691.8
85°	76.1	250.4	493.9	590.8	599.1
87.5°	29.1	206.2	430.3	513.3	520.2
90°	1.4	174.3	377.7	440.0	440.0
92.5°	1.4	152.2	334.8	381.9	384.6
95°	2.8	134.2	297.5	329.3	326.5
97.5°	2.8	121.8	262.9	289.2	280.9
100°	2.8	110.7	236.6	254.6	246.3
102.5°	2.8	98.2	215.8	226.9	217.2
105°	2.8	81.6	199.2	207.5	199.2
107.5°	2.8	65.0	181.3	192.3	184.0
110°	2.8	48.4	164.6	178.5	171.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	30.4	149.4	166.0	161.9
115°	2.8	11.1	134.2	156.3	152.2
117.5°	1.4	5.5	114.8	145.3	143.9
120°	1.4	4.2	96.9	135.6	135.6
122.5°	1.4	4.2	80.2	121.8	127.3
125°	1.4	2.8	60.9	107.9	114.8
127.5°	1.4	2.8	42.9	94.1	102.4
130°	1.4	2.8	22.1	77.5	88.6
132.5°	1.4	2.8	2.8	60.9	73.3
135°	2.8	2.8	2.8	44.3	58.1
137.5°	2.8	2.8	2.8	23.5	41.5
140°	2.8	2.8	1.4	1.4	19.4
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)