

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: P290415

Luminaire Tested: **8SSRK-SLN-80-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290415
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-L950-CD1-U
Description: 8000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 90 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7919.0 lumens
Efficiency: N/A
Efficacy: 139.8 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

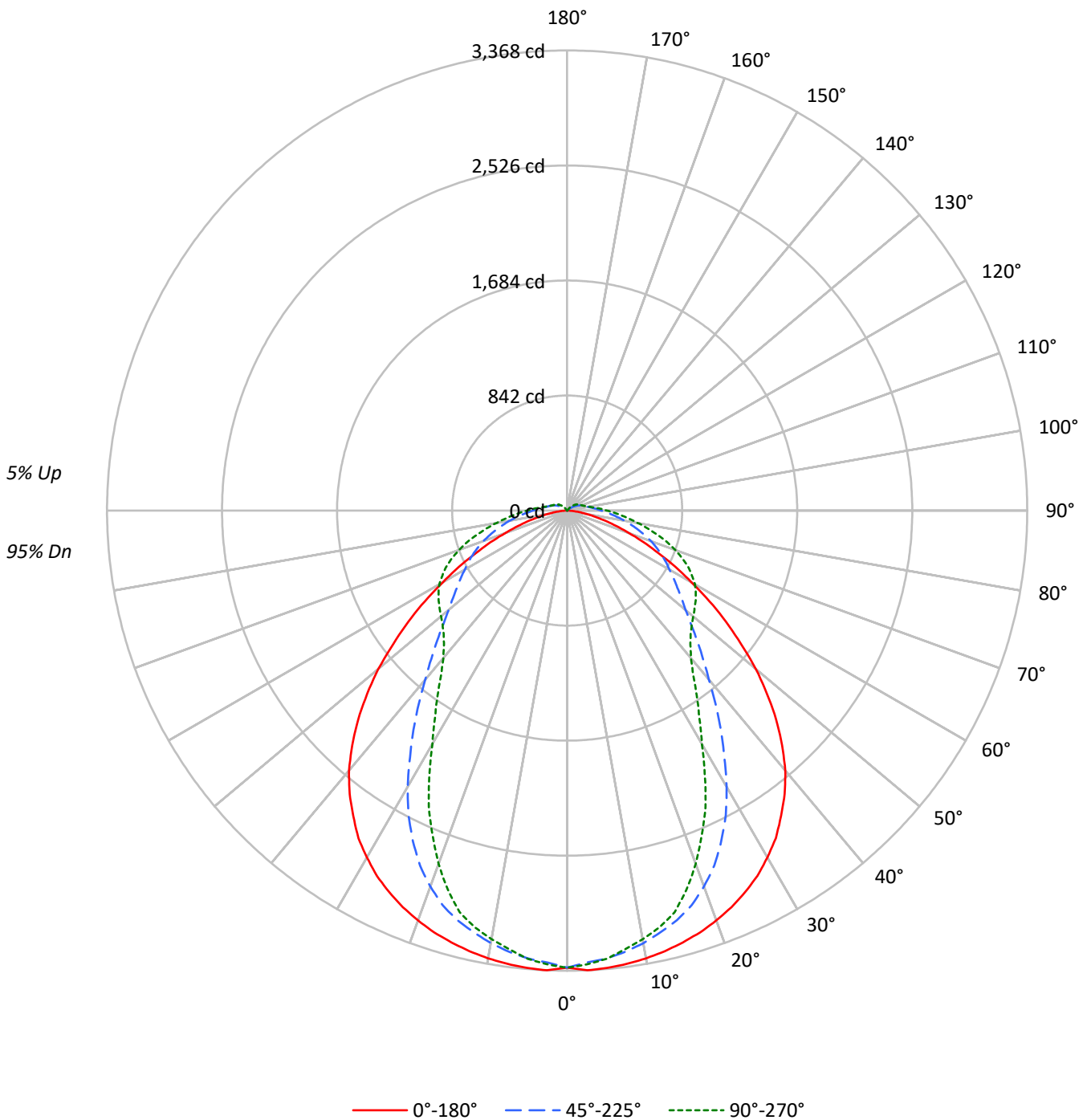
Input Watts (W): 56.6491
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	108012	108012	108012
5°	108700	85425	79085
10°	108708	70215	61237
15°	108768	58885	49086
20°	108867	49443	38495
25°	108733	40898	29796
30°	107967	32958	22234
35°	106036	25854	17146
40°	102906	20105	13643
45°	96793	15970	11673
50°	88441	12945	10496
55°	77579	10952	9638
60°	65581	9435	8802
65°	53868	8195	7802
70°	43142	6980	6621
75°	33155	5761	5346
80°	23882	4620	4131
85°	15052	3612	3141



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.1	4.0
10°-20°	880.4	11.1
20°-30°	1238.1	15.6
30°-40°	1296.5	16.4
40°-50°	1173.8	14.8
50°-60°	999.0	12.6
60°-70°	790.0	10.0
70°-80°	537.9	6.8
80°-90°	306.9	3.9
90°-100°	170.2	2.1
100°-110°	104.0	1.3
110°-120°	63.2	0.8
120°-130°	34.3	0.4
130°-140°	10.4	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°	2432.6	30.7
0°-40°	3729.2	47.1
0°-60°	5902.0	74.5
0°-90°	7536.8	95.2
90°-120°	337.4	4.3
90°-150°	382.2	4.8
90°-180°	382.0	4.8
0°-180°	7919.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3345	3345	3345	3345	3345	
5°	3360	3338	3291	3306	3294	320
15°	3272	3210	3103	3071	3042	924
25°	3081	2929	2670	2463	2396	1420
35°	2729	2422	1962	1716	1653	1705
45°	2164	1718	1344	1274	1278	1662
55°	1419	1083	984	1098	1149	1269
65°	736	640	761	930	978	742
75°	286	349	536	659	682	312
85°	50	166	327	391	396	60
90°	1	115	250	291	291	3
95°	2	89	197	218	216	1
105°	2	54	132	137	132	2
115°	2	7	89	103	101	1
125°	1	2	40	71	76	1
135°	2	2	2	29	38	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°	3344.9	3344.9	3344.9	3344.9	3344.9
2.5°	3367.7	3349.4	3311.0	3335.7	3324.7
5°	3359.5	3338.5	3290.9	3305.5	3293.6
7.5°	3346.7	3318.3	3257.0	3261.6	3238.7
10°	3327.5	3290.9	3214.9	3206.7	3184.8
12.5°	3302.8	3252.5	3161.0	3150.0	3124.4
15°	3271.7	3209.5	3103.3	3071.3	3042.0
17.5°	3236.9	3158.2	3029.2	2957.9	2907.5
20°	3192.1	3092.3	2927.7	2824.3	2751.1
22.5°	3141.8	3021.0	2813.3	2657.8	2574.5
25°	3081.4	2928.6	2669.7	2462.9	2396.1
27.5°	3014.6	2832.5	2513.2	2271.7	2182.9
30°	2930.4	2710.8	2334.8	2075.9	1973.4
32.5°	2842.6	2580.0	2140.9	1880.1	1800.5
35°	2729.1	2421.7	1961.5	1716.3	1653.2
37.5°	2614.8	2252.5	1783.1	1570.0	1514.2
40°	2483.9	2081.4	1614.8	1449.2	1409.9
42.5°	2328.4	1907.6	1472.1	1347.6	1333.9
45°	2163.7	1718.2	1344.0	1273.5	1278.1
47.5°	1984.4	1546.2	1227.8	1214.1	1236.9
50°	1804.2	1386.1	1130.8	1169.2	1204.9
52.5°	1603.8	1231.4	1054.0	1132.6	1175.6
55°	1419.0	1083.2	984.4	1097.9	1149.1
57.5°	1235.1	957.0	924.0	1062.2	1116.2
60°	1052.1	841.7	865.5	1023.8	1080.5
62.5°	892.9	731.9	814.3	980.8	1030.2
65°	736.5	639.5	761.2	929.5	978.0
67.5°	606.6	557.2	708.1	868.2	912.2
70°	483.1	479.4	651.4	800.5	840.8
72.5°	376.9	409.0	591.9	730.1	768.5
75°	286.4	348.6	536.1	658.7	682.5
77.5°	209.5	291.9	479.4	586.4	602.9
80°	143.6	242.4	425.4	514.2	526.1
82.5°	90.6	200.4	373.3	449.2	457.4
85°	50.3	165.6	326.6	390.7	396.1
87.5°	19.2	136.3	284.5	339.4	344.0
90°	0.9	115.3	249.8	290.9	290.9
92.5°	0.9	100.6	221.4	252.5	254.3
95°	1.8	88.7	196.7	217.7	215.9
97.5°	1.8	80.5	173.8	191.2	185.7
100°	1.8	73.2	156.4	168.3	162.9
102.5°	1.8	65.0	142.7	150.0	143.6
105°	1.8	54.0	131.7	137.2	131.7
107.5°	1.8	43.0	119.9	127.2	121.7
110°	1.8	32.0	108.9	118.0	113.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	20.1	98.8	109.8	107.0
115°	1.8	7.3	88.7	103.4	100.6
117.5°	0.9	3.7	75.9	96.1	95.1
120°	0.9	2.7	64.0	89.7	89.7
122.5°	0.9	2.7	53.1	80.5	84.2
125°	0.9	1.8	40.3	71.4	75.9
127.5°	0.9	1.8	28.4	62.2	67.7
130°	0.9	1.8	14.6	51.2	58.6
132.5°	0.9	1.8	1.8	40.3	48.5
135°	1.8	1.8	1.8	29.3	38.4
137.5°	1.8	1.8	1.8	15.6	27.4
140°	1.8	1.8	0.9	0.9	12.8
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)