

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: P290391

Luminaire Tested: **8SSRK-SLN-40-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290391
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-40-L950-CD1-U
Description: 4000 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: 3827.2 lumens
Efficiency: N/A
Efficacy: 141.7 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

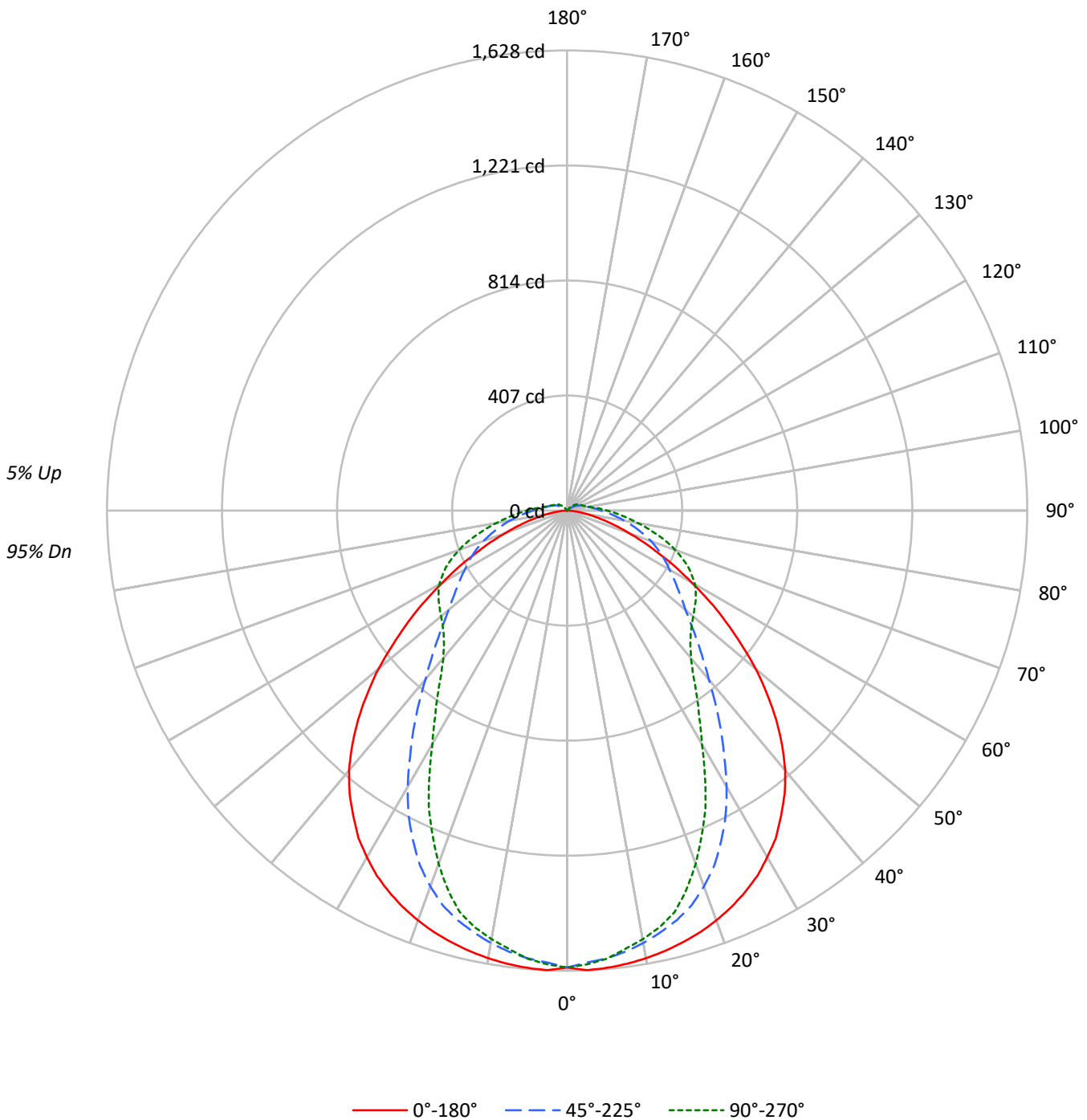
Input Watts (W): 27.0151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	52199	52199	52199
5°	52533	41284	38222
10°	52536	33934	29596
15°	52567	28459	23723
20°	52614	23895	18604
25°	52549	19765	14400
30°	52178	15928	10745
35°	51248	12495	8287
40°	49736	9716	6593
45°	46779	7718	5642
50°	42740	6256	5072
55°	37494	5293	4657
60°	31697	4560	4254
65°	26031	3961	3771
70°	20852	3373	3199
75°	16022	2784	2583
80°	11542	2233	1996
85°	7272	1746	1519



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.8	4.0
10°-20°	425.5	11.1
20°-30°	598.4	15.6
30°-40°	626.6	16.4
40°-50°	567.3	14.8
50°-60°	482.8	12.6
60°-70°	381.8	10.0
70°-80°	259.9	6.8
80°-90°	148.3	3.9
90°-100°	82.3	2.1
100°-110°	50.3	1.3
110°-120°	30.6	0.8
120°-130°	16.6	0.4
130°-140°	5.0	0.1
140°-150°	0.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1175.7	30.7
0°-40°	1802.3	47.1
0°-60°	2852.4	74.5
0°-90°	3642.4	95.2
90°-120°	163.1	4.3
90°-150°	184.8	4.8
90°-180°	185.0	4.8
0°-180°	3827.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1616	1616	1616	1616	1616	
5°	1624	1613	1590	1598	1592	154
15°	1581	1551	1500	1484	1470	447
25°	1489	1415	1290	1190	1158	686
35°	1319	1170	948	830	799	824
45°	1046	830	650	616	618	803
55°	686	524	476	531	555	613
65°	356	309	368	449	473	358
75°	138	168	259	318	330	151
85°	24	80	158	189	192	29
90°	0	56	121	141	141	1
95°	1	43	95	105	104	1
105°	1	26	64	66	64	1
115°	1	4	43	50	49	1
125°	0	1	20	34	37	0
135°	1	1	1	14	19	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°	1616.5	1616.5	1616.5	1616.5	1616.5
2.5°	1627.6	1618.7	1600.2	1612.1	1606.8
5°	1623.6	1613.4	1590.4	1597.5	1591.8
7.5°	1617.4	1603.7	1574.1	1576.3	1565.2
10°	1608.1	1590.4	1553.7	1549.8	1539.2
12.5°	1596.2	1571.9	1527.7	1522.3	1510.0
15°	1581.2	1551.1	1499.8	1484.3	1470.2
17.5°	1564.4	1526.3	1464.0	1429.5	1405.2
20°	1542.7	1494.5	1414.9	1364.9	1329.6
22.5°	1518.4	1460.0	1359.6	1284.5	1244.2
25°	1489.2	1415.3	1290.2	1190.3	1158.0
27.5°	1456.9	1368.9	1214.6	1097.9	1055.0
30°	1416.2	1310.1	1128.4	1003.3	953.7
32.5°	1373.8	1246.9	1034.6	908.6	870.2
35°	1319.0	1170.4	948.0	829.5	799.0
37.5°	1263.7	1088.6	861.8	758.7	731.8
40°	1200.5	1005.9	780.4	700.4	681.4
42.5°	1125.3	921.9	711.4	651.3	644.7
45°	1045.7	830.4	649.5	615.5	617.7
47.5°	959.0	747.2	593.4	586.7	597.8
50°	871.9	669.9	546.5	565.1	582.3
52.5°	775.1	595.1	509.4	547.4	568.2
55°	685.8	523.5	475.8	530.6	555.3
57.5°	596.9	462.5	446.6	513.3	539.4
60°	508.5	406.8	418.3	494.8	522.2
62.5°	431.5	353.7	393.5	474.0	497.9
65°	355.9	309.1	367.9	449.2	472.7
67.5°	293.2	269.3	342.2	419.6	440.8
70°	233.5	231.7	314.8	386.9	406.3
72.5°	182.2	197.6	286.1	352.8	371.4
75°	138.4	168.5	259.1	318.4	329.8
77.5°	101.3	141.0	231.7	283.4	291.4
80°	69.4	117.2	205.6	248.5	254.2
82.5°	43.8	96.8	180.4	217.1	221.1
85°	24.3	80.0	157.9	188.8	191.5
87.5°	9.3	65.9	137.5	164.0	166.3
90°	0.4	55.7	120.7	140.6	140.6
92.5°	0.4	48.6	107.0	122.0	122.9
95°	0.9	42.9	95.1	105.2	104.3
97.5°	0.9	38.9	84.0	92.4	89.8
100°	0.9	35.4	75.6	81.4	78.7
102.5°	0.9	31.4	69.0	72.5	69.4
105°	0.9	26.1	63.7	66.3	63.7
107.5°	0.9	20.8	57.9	61.5	58.8
110°	0.9	15.5	52.6	57.0	54.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.4	9.7	47.8	53.1	51.7
115°	0.9	3.5	42.9	50.0	48.6
117.5°	0.4	1.8	36.7	46.4	46.0
120°	0.4	1.3	31.0	43.3	43.3
122.5°	0.4	1.3	25.6	38.9	40.7
125°	0.4	0.9	19.5	34.5	36.7
127.5°	0.4	0.9	13.7	30.1	32.7
130°	0.4	0.9	7.1	24.8	28.3
132.5°	0.4	0.9	0.9	19.5	23.4
135°	0.9	0.9	0.9	14.1	18.6
137.5°	0.9	0.9	0.9	7.5	13.3
140°	0.9	0.9	0.4	0.4	6.2
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)