

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: P290103

Luminaire Tested: **4SSRK-LN-40-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290103
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-10)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SSRK-LN-40-L950-CD1-U
Description: 4000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 90 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3784.4 lumens
Efficiency: N/A
Efficacy: 136.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.03 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Direct

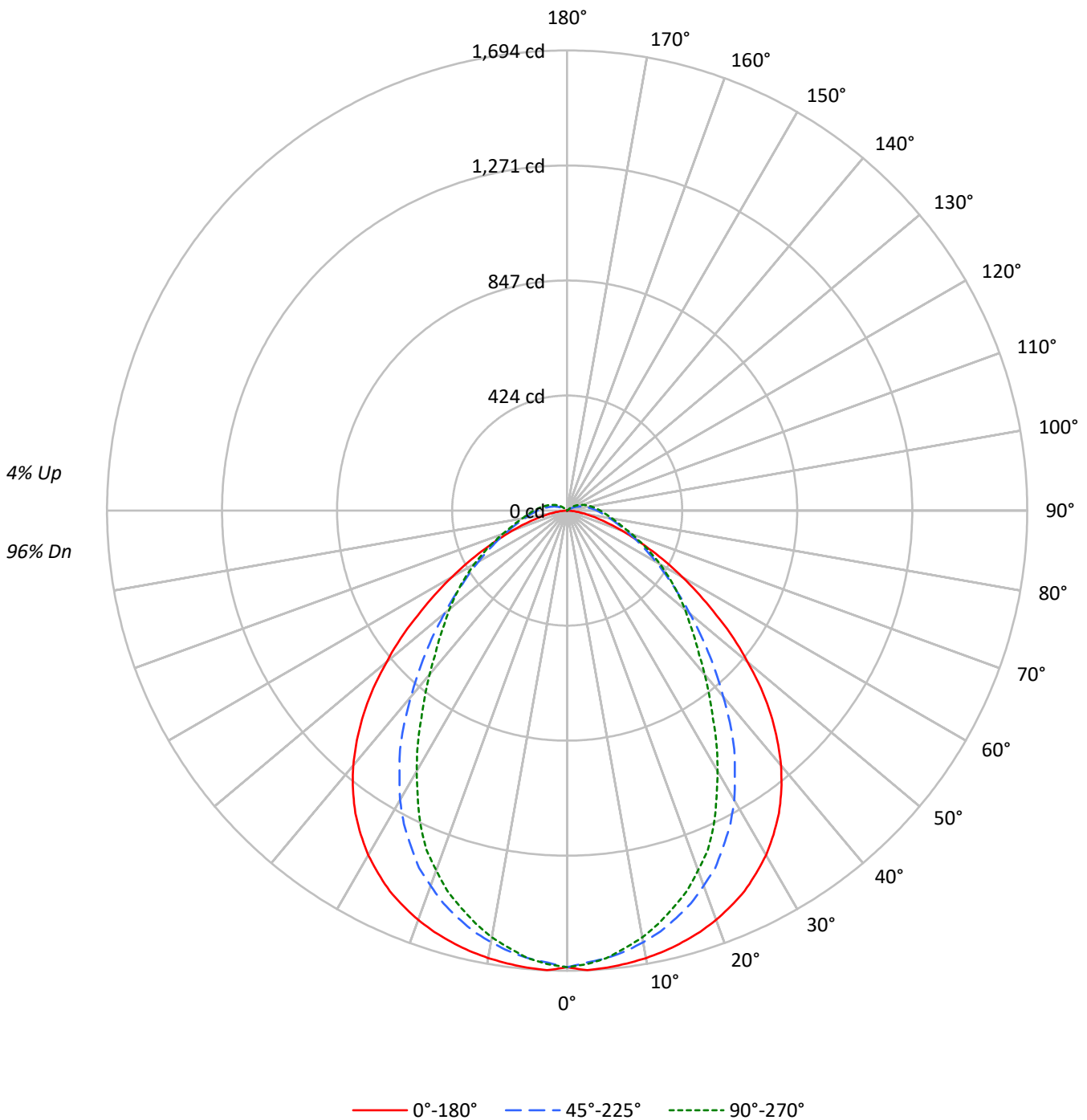
Input Watts (W): 27.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	50	30	10	0		
RCR																										
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	98	98	98	98	98	98	96		
1	108	104	99	96	105	101	97	94	96	93	90	91	89	86	87	85	83	87	85	83	87	85	83	81		
2	99	91	85	80	96	89	83	78	85	80	76	81	77	74	78	74	71	78	74	71	78	74	71	69		
3	91	81	74	68	88	79	72	67	76	70	65	73	68	63	70	65	62	70	65	62	70	65	62	59		
4	84	73	65	58	81	71	64	58	68	62	56	65	60	55	63	58	54	63	58	54	63	58	54	52		
5	78	66	57	51	75	64	56	51	62	55	50	59	53	49	57	52	48	57	52	48	57	52	48	46		
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	47	43	52	47	43	52	47	43	41		
7	67	54	46	40	65	53	46	40	52	45	39	50	44	39	48	43	38	48	43	38	48	43	38	36		
8	63	50	42	36	61	49	41	36	47	41	36	46	40	35	44	39	35	44	39	35	44	39	35	33		
9	59	46	38	33	57	45	38	33	44	37	32	43	36	32	41	36	32	41	36	32	41	36	32	30		
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	38	33	29	38	33	29	38	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	108564	108564	108564
5°	109100	85796	79446
10°	108888	70353	61360
15°	108739	58797	48821
20°	108565	49507	39445
25°	108046	41604	31780
30°	106633	34619	24943
35°	104162	28191	19416
40°	99812	22195	15254
45°	92959	17344	12122
50°	83076	13407	9871
55°	71277	10434	8018
60°	59031	8184	6447
65°	46700	6440	5091
70°	36038	5098	4002
75°	26519	4141	3186
80°	18621	3415	2641
85°	10742	2881	2252



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	157.8	4.2
10°-20°	441.9	11.7
20°-30°	636.9	16.8
30°-40°	689.9	18.2
40°-50°	611.1	16.1
50°-60°	465.0	12.3
60°-70°	309.8	8.2
70°-80°	191.4	5.1
80°-90°	119.9	3.2
90°-100°	78.8	2.1
100°-110°	48.3	1.3
110°-120°	24.9	0.7
120°-130°	8.2	0.2
130°-140°	0.5	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1236.7	32.7
0°-40°	1926.6	50.9
0°-60°	3002.6	79.3
0°-90°	3623.7	95.8
90°-120°	152.0	4.0
90°-150°	160.7	4.2
90°-180°	161.0	4.3
0°-180°	3784.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1681	1681	1681	1681	1681	
5°	1689	1678	1654	1661	1654	161
15°	1644	1613	1553	1532	1513	465
25°	1546	1473	1362	1304	1278	711
35°	1360	1232	1073	972	936	847
45°	1060	894	733	677	664	813
55°	671	547	471	477	478	602
65°	333	292	300	318	319	336
75°	123	150	194	206	203	136
85°	21	77	131	144	142	26
90°	1	56	109	123	122	2
95°	2	40	90	105	104	2
105°	1	16	56	72	74	2
115°	1	1	29	45	49	1
125°	1	1	1	20	24	1
135°	0	0	0	0	0	0
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°	1681.0	1681.0	1681.0	1681.0	1681.0
2.5°	1693.5	1684.1	1665.0	1676.1	1670.8
5°	1689.0	1678.4	1654.3	1660.6	1654.3
7.5°	1681.9	1668.6	1636.5	1639.2	1624.5
10°	1672.6	1654.8	1613.4	1608.9	1595.6
12.5°	1660.6	1635.6	1587.1	1569.3	1556.4
15°	1644.5	1613.4	1552.8	1531.9	1512.8
17.5°	1626.3	1586.2	1515.9	1490.5	1467.8
20°	1603.6	1553.3	1469.6	1434.5	1409.5
22.5°	1576.0	1517.2	1423.8	1372.6	1352.6
25°	1545.7	1473.2	1361.9	1303.6	1277.8
27.5°	1506.1	1424.7	1300.9	1227.9	1191.0
30°	1464.3	1367.3	1230.2	1146.1	1106.9
32.5°	1414.0	1304.5	1148.3	1058.8	1024.1
35°	1359.7	1232.4	1073.1	972.0	936.0
37.5°	1295.6	1154.5	983.6	891.0	859.4
40°	1225.3	1069.9	894.6	813.1	788.2
42.5°	1145.2	984.0	810.9	740.6	719.2
45°	1060.2	894.1	732.6	677.0	663.6
47.5°	967.6	804.2	659.1	619.5	609.7
50°	867.9	714.3	587.9	566.1	566.6
52.5°	773.1	629.3	527.4	521.6	520.3
55°	670.7	547.4	470.9	476.7	478.0
57.5°	578.1	471.3	422.8	433.5	434.8
60°	490.0	403.2	377.0	393.4	395.7
62.5°	409.5	344.9	337.8	354.7	354.3
65°	332.9	292.0	300.4	317.8	319.1
67.5°	267.9	248.8	269.3	284.4	283.5
70°	212.7	210.1	239.0	255.0	254.1
72.5°	165.6	177.6	215.4	229.2	225.7
75°	122.8	149.5	193.6	206.5	203.4
77.5°	90.3	126.4	174.5	186.9	184.7
80°	61.9	107.3	158.0	170.9	168.2
82.5°	39.6	91.2	143.8	156.2	154.4
85°	21.4	77.0	130.9	144.2	142.0
87.5°	8.0	65.4	119.3	132.6	131.7
90°	0.9	56.1	109.0	122.8	121.9
92.5°	1.3	47.6	99.3	113.5	113.5
95°	2.2	39.6	90.3	104.6	104.1
97.5°	1.8	33.4	80.6	96.1	96.1
100°	1.8	27.6	71.7	87.2	88.1
102.5°	1.8	21.8	64.1	79.2	81.0
105°	1.3	15.6	56.5	72.1	73.9
107.5°	1.3	8.9	49.0	65.4	67.7
110°	1.3	2.2	42.3	58.3	61.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	1.3	35.6	51.6	54.3
115°	1.3	1.3	28.9	45.0	49.0
117.5°	0.9	0.9	21.4	39.2	42.7
120°	0.9	0.9	13.4	32.9	36.5
122.5°	0.9	0.9	5.8	26.3	31.2
125°	0.9	0.9	0.9	19.6	24.5
127.5°	0.9	0.9	0.4	11.6	17.4
130°	0.9	0.9	0.4	4.5	10.7
132.5°	0.9	0.9	0.4	0.4	3.1
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
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)