

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: P290302

Luminaire Tested: **8SSRK-SLC-40-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290302
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-16)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-SLC-40-L940-CD1-U
Description: 4000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE CLEAR LENS AND 90 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3717.1 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Spacing Criteria (0/90/45): 1.44 / 0.89 / 0.98
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

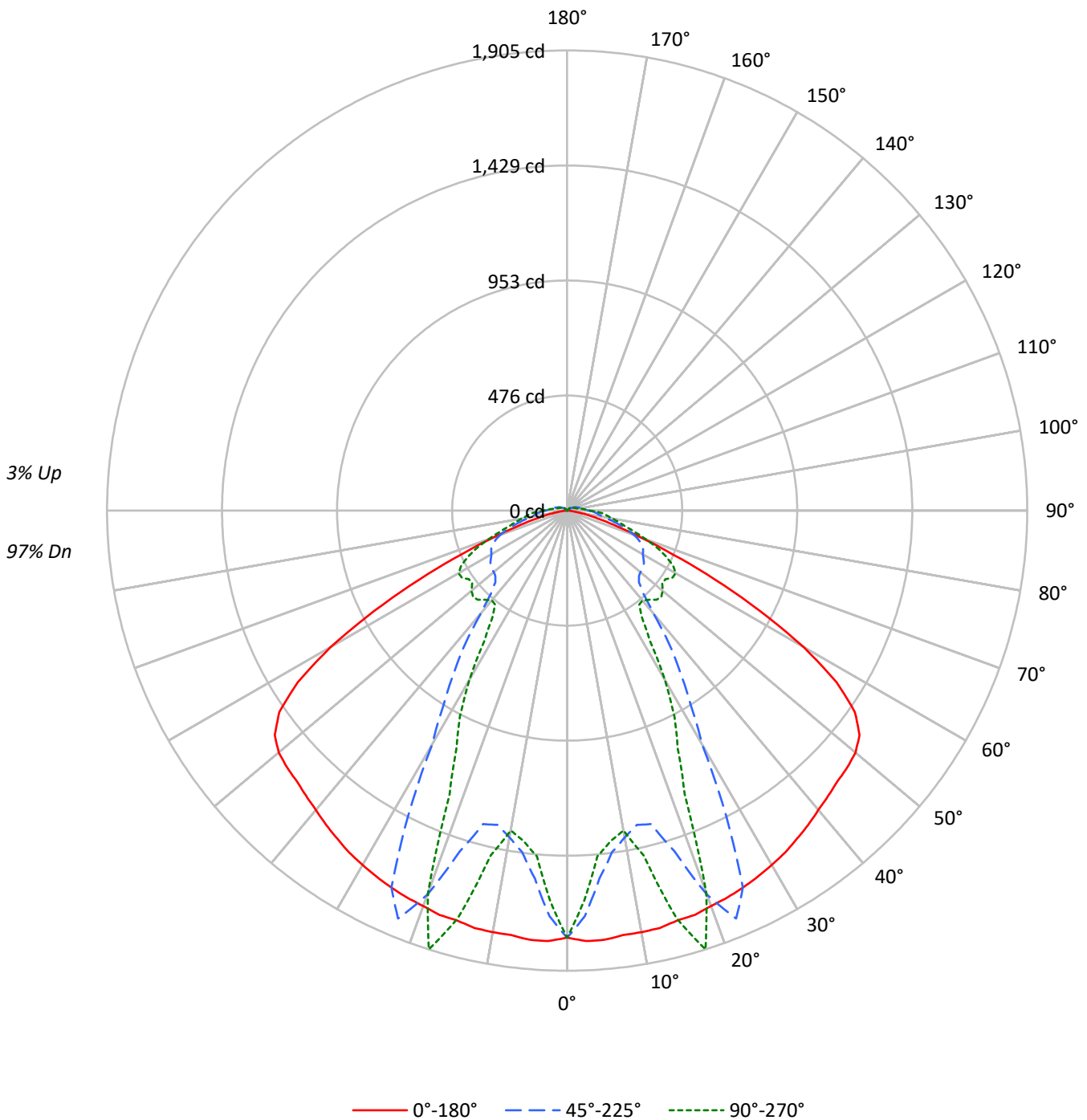
Input Watts (W): 27.0151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	109	109	104	104	104	99	99	99	97
1	108	103	99	95	105	101	97	93	96	93	90	91	89	87	87	85	83	81
2	99	91	84	79	96	89	83	78	85	80	75	81	77	73	77	74	71	69
3	91	81	73	67	88	79	72	66	75	69	64	72	67	63	69	65	61	59
4	84	72	64	57	81	71	63	57	68	61	56	65	59	54	62	57	53	51
5	77	65	56	50	75	64	56	50	61	54	49	59	53	48	57	51	47	45
6	72	59	50	44	70	58	50	44	56	49	43	54	47	43	52	46	42	40
7	67	54	45	40	65	53	45	39	51	44	39	49	43	38	48	42	38	36
8	62	49	41	36	61	49	41	35	47	40	35	46	39	35	44	38	34	32
9	58	46	38	32	57	45	37	32	44	37	32	42	36	32	41	35	31	29
10	55	42	35	30	54	42	34	30	40	34	29	39	33	29	38	33	29	27

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	57085	57085	57085
5°	57710	39703	34503
10°	57887	29996	25856
15°	58412	25501	28190
20°	59411	28578	23562
25°	60768	26363	13459
30°	62410	15789	9117
35°	64443	10753	5581
40°	67045	6916	4692
45°	70838	5003	4770
50°	76377	4534	4499
55°	79509	4319	4161
60°	70443	3942	4228
65°	49311	3710	3617
70°	28657	3154	2720
75°	16288	2382	1935
80°	9247	1682	1496
85°	4459	1351	1224



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.9	4.0
10°-20°	441.1	11.9
20°-30°	649.2	17.5
30°-40°	634.2	17.1
40°-50°	525.8	14.1
50°-60°	482.7	13.0
60°-70°	382.5	10.3
70°-80°	212.4	5.7
80°-90°	112.5	3.0
90°-100°	59.1	1.6
100°-110°	35.6	1.0
110°-120°	20.3	0.5
120°-130°	11.2	0.3
130°-140°	3.5	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°	1237.1	33.3
0°-40°	1871.4	50.3
0°-60°	2879.8	77.5
0°-90°	3587.2	96.5
90°-120°	115.0	3.1
90°-150°	129.9	3.5
90°-180°	130.0	3.5
0°-180°	3717.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1768	1768	1768	1768	1768	
5°	1784	1684	1530	1464	1437	170
15°	1757	1403	1344	1646	1747	498
25°	1722	1340	1721	1173	1082	796
35°	1659	1599	816	583	538	1041
45°	1584	723	421	480	522	1228
55°	1454	322	388	465	496	1263
65°	674	209	345	437	453	682
75°	141	128	222	237	247	167
85°	15	63	122	148	154	21
90°	0	46	89	98	97	1
95°	1	36	69	72	69	1
105°	1	24	49	42	38	1
115°	1	3	32	30	28	1
125°	1	1	14	23	23	1
135°	1	1	1	10	12	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°	1767.8	1767.8	1767.8	1767.8	1767.8
2.5°	1783.6	1751.6	1680.6	1632.4	1616.2
5°	1783.6	1683.5	1529.5	1464.3	1436.9
7.5°	1772.8	1597.2	1426.1	1397.9	1380.0
10°	1771.9	1505.0	1373.4	1349.7	1344.7
12.5°	1769.9	1453.9	1332.7	1416.6	1461.8
15°	1757.0	1403.3	1343.9	1645.7	1747.0
17.5°	1754.9	1365.5	1480.1	1862.0	1904.8
20°	1742.0	1335.6	1692.2	1834.6	1683.9
22.5°	1733.7	1314.8	1828.8	1475.9	1270.8
25°	1722.1	1339.7	1720.9	1173.3	1082.3
27.5°	1708.8	1419.9	1426.5	1021.3	961.1
30°	1693.9	1545.3	1118.5	892.6	809.2
32.5°	1678.9	1637.0	952.0	732.8	634.8
35°	1658.6	1599.2	815.8	582.9	538.1
37.5°	1639.5	1424.9	691.7	503.2	490.3
40°	1618.3	1147.9	555.5	471.6	484.9
42.5°	1600.5	910.0	466.6	468.3	501.1
45°	1583.5	723.2	421.0	480.3	522.3
47.5°	1573.5	575.0	402.7	494.9	528.5
50°	1558.1	460.8	396.1	497.8	516.5
52.5°	1525.7	379.9	394.0	482.4	495.3
55°	1454.3	322.2	388.2	465.0	496.1
57.5°	1322.7	286.5	374.9	468.7	516.5
60°	1130.1	258.6	361.6	480.8	519.0
62.5°	899.3	233.3	354.6	470.8	494.5
65°	674.2	209.2	344.6	437.2	453.4
67.5°	472.0	188.5	322.2	395.2	404.0
70°	320.9	168.6	294.4	341.7	345.4
72.5°	215.9	148.6	259.9	286.5	292.3
75°	140.7	127.5	221.7	236.6	247.0
77.5°	89.7	108.4	183.9	203.0	216.3
80°	55.6	89.7	154.9	182.3	190.6
82.5°	31.1	74.7	134.1	162.7	167.3
85°	14.9	62.7	122.1	148.2	154.4
87.5°	3.7	53.1	107.5	122.9	122.9
90°	0.4	45.7	89.3	97.6	96.7
92.5°	0.4	40.3	77.6	83.0	81.4
95°	0.8	36.1	69.3	72.2	68.9
97.5°	0.8	34.0	63.9	61.9	56.9
100°	0.8	31.6	58.1	52.7	47.3
102.5°	0.8	28.2	53.1	46.5	41.9
105°	0.8	24.1	48.6	41.9	37.8
107.5°	0.8	19.1	43.6	38.2	34.9
110°	0.8	13.7	39.0	35.3	32.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	8.3	35.3	32.8	30.7
115°	0.8	2.9	31.6	29.9	27.8
117.5°	0.8	1.2	27.8	28.6	26.2
120°	0.8	1.2	23.2	27.0	24.9
122.5°	0.8	1.2	19.1	25.3	24.1
125°	0.8	0.8	14.5	23.2	22.8
127.5°	0.8	0.8	10.0	20.3	21.2
130°	0.8	0.8	5.0	16.6	18.7
132.5°	0.8	0.8	0.8	13.7	15.4
135°	0.8	0.8	0.8	10.0	12.5
137.5°	0.8	0.8	0.8	5.0	9.1
140°	0.8	0.8	0.8	0.8	3.7
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)