

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: P290306

Luminaire Tested: **8SSRK-SLC-40-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290306
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-L840-CD1-U
Description: 4000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE CLEAR LENS AND 80 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4393.8 lumens
Efficiency: N/A
Efficacy: 162.6 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

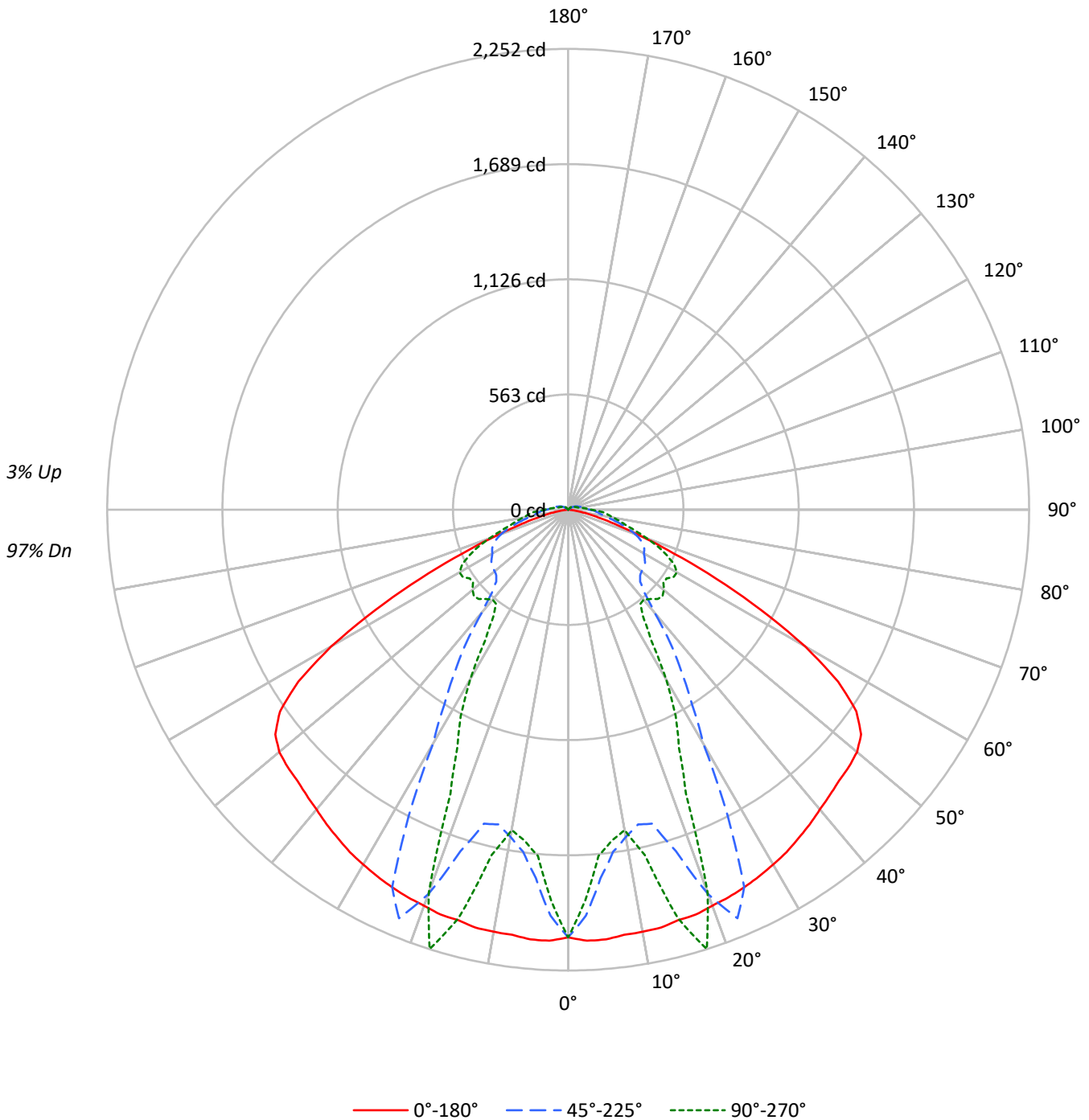
Input Watts (W): 27.0151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	67476	67476	67476
5°	68213	46929	40784
10°	68427	35456	30563
15°	69043	30142	33321
20°	70230	33781	27852
25°	71830	31161	15910
30°	73769	18663	10777
35°	76173	12710	6596
40°	79250	8175	5546
45°	83731	5913	5639
50°	90284	5360	5318
55°	93986	5104	4918
60°	83265	4659	4997
65°	58293	4385	4275
70°	33872	3728	3215
75°	19263	2816	2287
80°	10943	1987	1769
85°	5297	1596	1448



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.6	4.0
10°-20°	521.4	11.9
20°-30°	767.4	17.5
30°-40°	749.7	17.1
40°-50°	621.5	14.1
50°-60°	570.6	13.0
60°-70°	452.1	10.3
70°-80°	251.1	5.7
80°-90°	133.0	3.0
90°-100°	69.9	1.6
100°-110°	42.1	1.0
110°-120°	24.0	0.5
120°-130°	13.3	0.3
130°-140°	4.2	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°	1462.3	33.3
0°-40°	2212.0	50.3
0°-60°	3404.1	77.5
0°-90°	4240.2	96.5
90°-120°	136.0	3.1
90°-150°	153.6	3.5
90°-180°	154.0	3.5
0°-180°	4393.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2090	2090	2090	2090	2090	
5°	2108	1990	1808	1731	1698	200
15°	2077	1659	1588	1945	2065	589
25°	2036	1584	2034	1387	1279	941
35°	1960	1890	964	689	636	1230
45°	1872	855	498	568	617	1452
55°	1719	381	459	550	586	1493
65°	797	247	407	517	536	807
75°	166	151	262	280	292	197
85°	18	74	144	175	183	24
90°	0	54	106	115	114	1
95°	1	43	82	85	82	1
105°	1	28	57	50	45	1
115°	1	3	37	35	33	1
125°	1	1	17	28	27	1
135°	1	1	1	12	15	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°	2089.6	2089.6	2089.6	2089.6	2089.6
2.5°	2108.2	2070.4	1986.5	1929.6	1910.5
5°	2108.2	1990.0	1807.9	1730.8	1698.5
7.5°	2095.5	1887.9	1685.7	1652.3	1631.2
10°	2094.5	1778.9	1623.4	1595.4	1589.5
12.5°	2092.0	1718.6	1575.3	1674.4	1727.9
15°	2076.8	1658.7	1588.5	1945.3	2065.0
17.5°	2074.4	1614.1	1749.5	2201.0	2251.5
20°	2059.2	1578.7	2000.3	2168.6	1990.5
22.5°	2049.3	1554.2	2161.7	1744.6	1502.2
25°	2035.6	1583.6	2034.1	1386.8	1279.4
27.5°	2019.9	1678.3	1686.2	1207.2	1136.1
30°	2002.2	1826.5	1322.1	1055.1	956.5
32.5°	1984.6	1935.0	1125.3	866.2	750.3
35°	1960.5	1890.3	964.3	689.0	636.0
37.5°	1937.9	1684.2	817.6	594.8	579.6
40°	1912.9	1356.9	656.6	557.5	573.2
42.5°	1891.8	1075.7	551.6	553.6	592.3
45°	1871.7	854.9	497.6	567.8	617.4
47.5°	1859.9	679.7	476.0	585.0	624.7
50°	1841.8	544.7	468.2	588.4	610.5
52.5°	1803.5	449.0	465.7	570.2	585.5
55°	1719.1	380.8	458.8	549.6	586.4
57.5°	1563.5	338.6	443.1	554.0	610.5
60°	1335.8	305.7	427.4	568.3	613.4
62.5°	1062.9	275.8	419.1	556.5	584.5
65°	797.0	247.3	407.3	516.8	535.9
67.5°	558.0	222.8	380.8	467.2	477.5
70°	379.3	199.2	347.9	403.9	408.3
72.5°	255.2	175.7	307.2	338.6	345.5
75°	166.4	150.7	262.1	279.7	292.0
77.5°	106.0	128.1	217.4	240.0	255.7
80°	65.8	106.0	183.0	215.4	225.3
82.5°	36.8	88.3	158.5	192.4	197.8
85°	17.7	74.1	144.3	175.2	182.6
87.5°	4.4	62.8	127.1	145.3	145.3
90°	0.5	54.0	105.5	115.3	114.3
92.5°	0.5	47.6	91.8	98.1	96.2
95°	1.0	42.7	82.0	85.4	81.5
97.5°	1.0	40.2	75.6	73.1	67.2
100°	1.0	37.3	68.7	62.3	55.9
102.5°	1.0	33.4	62.8	55.0	49.6
105°	1.0	28.5	57.4	49.6	44.7
107.5°	1.0	22.6	51.5	45.1	41.2
110°	1.0	16.2	46.1	41.7	38.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	9.8	41.7	38.8	36.3
115°	1.0	3.4	37.3	35.3	32.9
117.5°	1.0	1.5	32.9	33.9	30.9
120°	1.0	1.5	27.5	31.9	29.4
122.5°	1.0	1.5	22.6	29.9	28.5
125°	1.0	1.0	17.2	27.5	27.0
127.5°	1.0	1.0	11.8	24.0	25.0
130°	1.0	1.0	5.9	19.6	22.1
132.5°	1.0	1.0	1.0	16.2	18.2
135°	1.0	1.0	1.0	11.8	14.7
137.5°	1.0	1.0	1.0	5.9	10.8
140°	1.0	1.0	1.0	1.0	4.4
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)