

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: P290305

Luminaire Tested: **8SSRK-SLC-40-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290305
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-L835-CD1-U
Description: 4000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE CLEAR LENS AND 80 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4320.6 lumens
Efficiency: N/A
Efficacy: 159.9 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

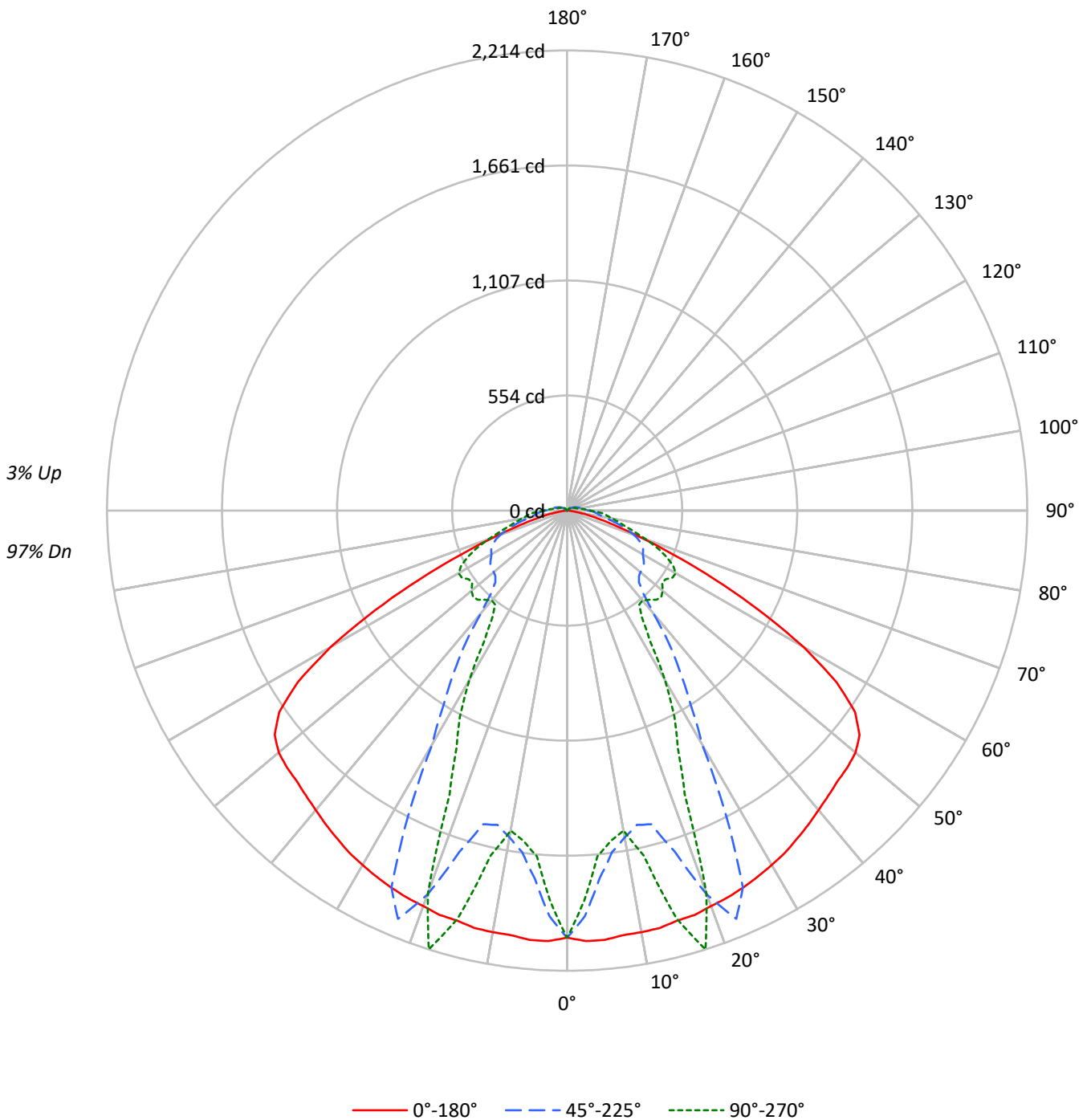
Input Watts (W): 27.0151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	66349	66349	66349
5°	67077	46145	40102
10°	67286	34864	30053
15°	67893	29639	32766
20°	69056	33217	27388
25°	70634	30642	15644
30°	72538	18351	10597
35°	74902	12498	6486
40°	77929	8039	5454
45°	82335	5814	5545
50°	88774	5271	5229
55°	92417	5020	4837
60°	81875	4582	4914
65°	57320	4312	4204
70°	33310	3666	3162
75°	18939	2769	2249
80°	10760	1955	1739
85°	5207	1570	1423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.7	4.0
10°-20°	512.7	11.9
20°-30°	754.6	17.5
30°-40°	737.2	17.1
40°-50°	611.1	14.1
50°-60°	561.1	13.0
60°-70°	444.6	10.3
70°-80°	246.9	5.7
80°-90°	130.8	3.0
90°-100°	68.8	1.6
100°-110°	41.4	1.0
110°-120°	23.6	0.5
120°-130°	13.0	0.3
130°-140°	4.1	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°	1438.0	33.3
0°-40°	2175.1	50.3
0°-60°	3347.3	77.5
0°-90°	4169.5	96.5
90°-120°	133.8	3.1
90°-150°	151.1	3.5
90°-180°	151.0	3.5
0°-180°	4320.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2055	2055	2055	2055	2055	
5°	2073	1957	1778	1702	1670	197
15°	2042	1631	1562	1913	2031	579
25°	2002	1557	2000	1364	1258	925
35°	1928	1859	948	678	625	1210
45°	1840	841	489	558	607	1427
55°	1690	374	451	540	577	1468
65°	784	243	400	508	527	793
75°	164	148	258	275	287	194
85°	17	73	142	172	180	24
90°	0	53	104	113	112	1
95°	1	42	81	84	80	1
105°	1	28	56	49	44	1
115°	1	3	37	35	32	1
125°	1	1	17	27	26	1
135°	1	1	1	12	14	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°	2054.7	2054.7	2054.7	2054.7	2054.7
2.5°	2073.1	2035.9	1953.4	1897.4	1878.6
5°	2073.1	1956.8	1777.7	1702.0	1670.1
7.5°	2060.5	1856.4	1657.6	1624.8	1604.0
10°	2059.6	1749.3	1596.3	1568.8	1563.0
12.5°	2057.1	1689.9	1549.0	1646.5	1699.1
15°	2042.2	1631.1	1562.0	1912.9	2030.6
17.5°	2039.8	1587.1	1720.3	2164.3	2214.0
20°	2024.8	1552.4	1966.9	2132.4	1957.3
22.5°	2015.2	1528.3	2125.7	1715.5	1477.1
25°	2001.7	1557.2	2000.2	1363.7	1258.0
27.5°	1986.2	1650.4	1658.1	1187.1	1117.1
30°	1968.8	1796.1	1300.0	1037.5	940.5
32.5°	1951.5	1902.7	1106.5	851.7	737.8
35°	1927.8	1858.8	948.2	677.5	625.4
37.5°	1905.6	1656.1	803.9	584.9	569.9
40°	1881.0	1334.3	645.7	548.2	563.6
42.5°	1860.3	1057.8	542.4	544.3	582.4
45°	1840.5	840.6	489.3	558.3	607.1
47.5°	1828.9	668.3	468.1	575.2	614.3
50°	1811.0	535.6	460.4	578.6	600.3
52.5°	1773.4	441.5	457.9	560.7	575.7
55°	1690.4	374.5	451.2	540.5	576.7
57.5°	1537.4	333.0	435.8	544.8	600.3
60°	1313.5	300.6	420.3	558.8	603.2
62.5°	1045.2	271.2	412.1	547.2	574.7
65°	783.7	243.2	400.5	508.1	527.0
67.5°	548.7	219.1	374.5	459.4	469.5
70°	373.0	195.9	342.1	397.1	401.5
72.5°	250.9	172.8	302.1	333.0	339.7
75°	163.6	148.1	257.7	275.1	287.1
77.5°	104.2	125.9	213.8	236.0	251.4
80°	64.7	104.2	180.0	211.8	221.5
82.5°	36.2	86.9	155.9	189.2	194.5
85°	17.4	72.9	141.9	172.3	179.5
87.5°	4.3	61.8	125.0	142.8	142.8
90°	0.5	53.1	103.8	113.4	112.4
92.5°	0.5	46.8	90.2	96.5	94.6
95°	1.0	42.0	80.6	84.0	80.1
97.5°	1.0	39.6	74.3	71.9	66.1
100°	1.0	36.7	67.6	61.3	55.0
102.5°	1.0	32.8	61.8	54.0	48.7
105°	1.0	28.0	56.5	48.7	43.9
107.5°	1.0	22.2	50.7	44.4	40.5
110°	1.0	15.9	45.4	41.0	38.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	9.7	41.0	38.1	35.7
115°	1.0	3.4	36.7	34.7	32.3
117.5°	1.0	1.4	32.3	33.3	30.4
120°	1.0	1.4	27.0	31.4	29.0
122.5°	1.0	1.4	22.2	29.4	28.0
125°	1.0	1.0	16.9	27.0	26.5
127.5°	1.0	1.0	11.6	23.6	24.6
130°	1.0	1.0	5.8	19.3	21.7
132.5°	1.0	1.0	1.0	15.9	17.9
135°	1.0	1.0	1.0	11.6	14.5
137.5°	1.0	1.0	1.0	5.8	10.6
140°	1.0	1.0	1.0	1.0	4.3
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)