

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: P290280

Luminaire Tested: **4SSRK-SLC-40-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290280  
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: 4SSRK-SLC-40-L830-CD1-U  
Description: 4000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE CLEAR LENS AND 80 CRI 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

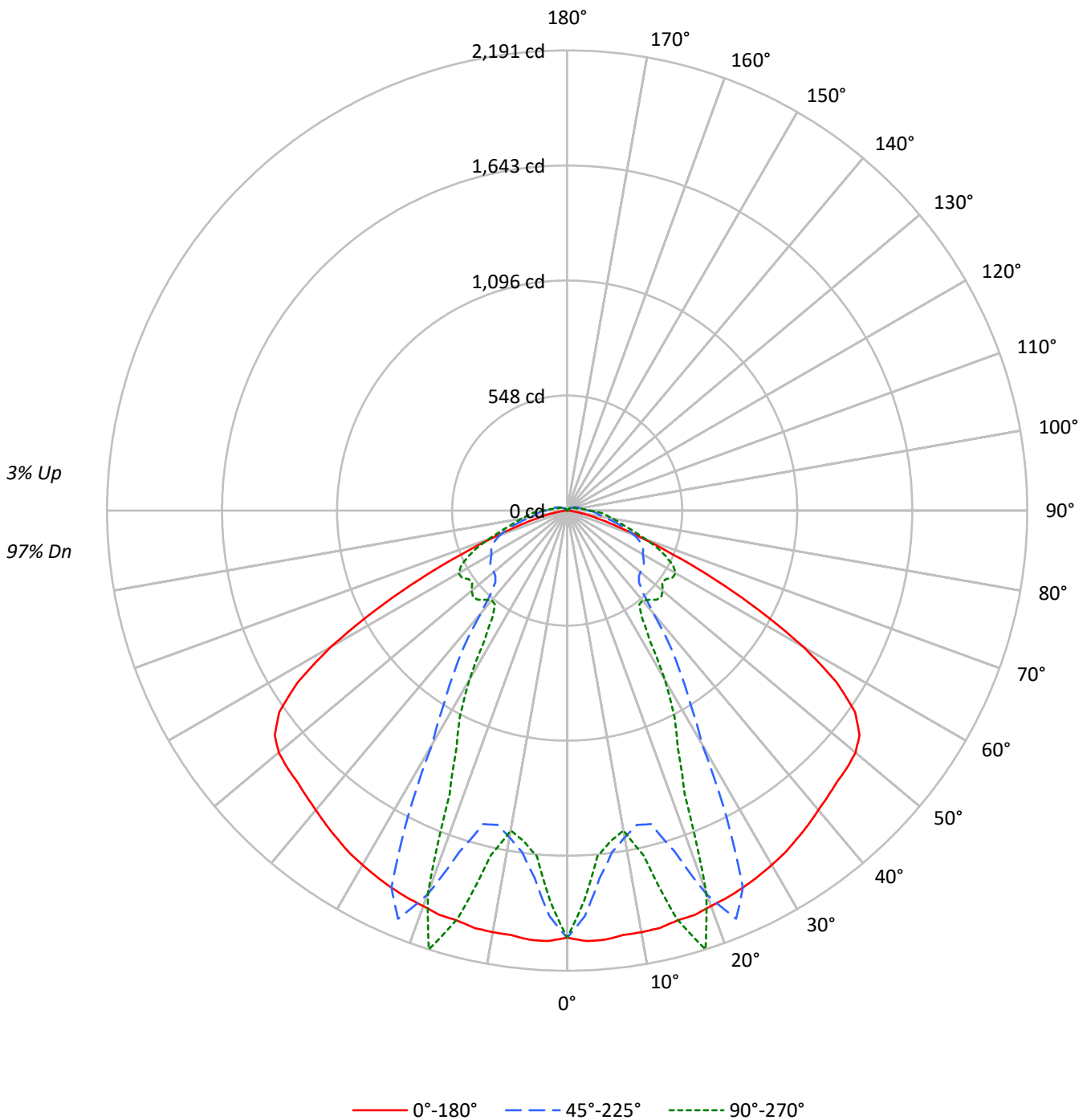
Lumens per Lamp: N/A  
Luminaire Lumens: 4275.2 lumens  
Efficiency: N/A  
Efficacy: 154.3 lumens/watt  
Spacing Criteria (0/90/45): 1.44 / 0.89 / 0.98  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Direct

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



TEST NUMBER: P290280  
CATALOG NUMBER: 4SSRK-SLC-40-L830-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P290280

CATALOG NUMBER: 4SSRK-SLC-40-L830-CD1-U

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

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°
0°	131310	131310	131310
5°	132502	91231	79364
10°	132676	68879	59476
15°	133621	58528	64845
20°	135646	65565	54199
25°	138453	60462	30959
30°	141872	36201	20970
35°	146134	24650	12836
40°	151620	15851	10793
45°	159684	11463	10973
50°	171530	10387	10349
55°	177763	9894	9571
60°	156577	9029	9725
65°	108788	8495	8319
70°	62537	7221	6257
75°	34962	5454	4451
80°	19253	3849	3442
85°	8634	3090	2817



TEST NUMBER: P290280

CATALOG NUMBER: 4SSRK-SLC-40-L830-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	168.9	4.0
10°-20°	507.3	11.9
20°-30°	746.7	17.5
30°-40°	729.4	17.1
40°-50°	604.7	14.1
50°-60°	555.2	13.0
60°-70°	439.9	10.3
70°-80°	244.3	5.7
80°-90°	129.4	3.0
90°-100°	68.0	1.6
100°-110°	41.0	1.0
110°-120°	23.4	0.5
120°-130°	12.9	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°	1422.9	33.3
0°-40°	2152.3	50.3
0°-60°	3312.2	77.5
0°-90°	4125.8	96.5
90°-120°	132.4	3.1
90°-150°	149.5	3.5
90°-180°	149.0	3.5
0°-180°	4275.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2033	2033	2033	2033	2033	
5°	2051	1936	1759	1684	1653	195
15°	2021	1614	1546	1893	2009	573
25°	1981	1541	1979	1349	1245	915
35°	1908	1839	938	670	619	1197
45°	1821	832	484	552	601	1412
55°	1673	370	446	535	571	1453
65°	776	241	396	503	521	785
75°	162	147	255	272	284	192
85°	17	72	140	170	178	24
90°	0	52	103	112	111	1
95°	1	42	80	83	79	1
105°	1	28	56	48	44	1
115°	1	3	36	34	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



TEST NUMBER: P290280

CATALOG NUMBER: 4SSRK-SLC-40-L830-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2033.2	2033.2	2033.2	2033.2	2033.2
2.5°	2051.3	2014.6	1932.9	1877.5	1858.9
5°	2051.3	1936.2	1759.1	1684.1	1652.6
7.5°	2038.9	1836.9	1640.2	1607.7	1587.2
10°	2038.0	1730.9	1579.6	1552.3	1546.6
12.5°	2035.6	1672.2	1532.8	1629.2	1681.3
15°	2020.8	1613.9	1545.7	1892.8	2009.3
17.5°	2018.4	1570.5	1702.3	2141.6	2190.8
20°	2003.6	1536.1	1946.3	2110.1	1936.7
22.5°	1994.0	1512.2	2103.4	1697.5	1461.6
25°	1980.7	1540.9	1979.2	1349.4	1244.8
27.5°	1965.4	1633.0	1640.7	1174.6	1105.4
30°	1948.2	1777.2	1286.4	1026.6	930.6
32.5°	1931.0	1882.8	1094.9	842.8	730.1
35°	1907.6	1839.3	938.3	670.4	618.8
37.5°	1885.6	1638.8	795.5	578.7	563.9
40°	1861.3	1320.3	638.9	542.4	557.7
42.5°	1840.7	1046.7	536.7	538.6	576.3
45°	1821.2	831.8	484.2	552.5	600.7
47.5°	1809.7	661.3	463.2	569.2	607.9
50°	1792.0	530.0	455.5	572.5	594.0
52.5°	1754.8	436.9	453.1	554.9	569.7
55°	1672.7	370.5	446.5	534.8	570.6
57.5°	1521.3	329.5	431.2	539.1	594.0
60°	1299.7	297.5	415.9	552.9	596.9
62.5°	1034.3	268.4	407.8	541.5	568.7
65°	775.5	240.7	396.3	502.8	521.4
67.5°	542.9	216.8	370.5	454.6	464.6
70°	369.1	193.9	338.5	393.0	397.3
72.5°	248.3	170.9	298.9	329.5	336.2
75°	161.9	146.6	255.0	272.2	284.1
77.5°	103.1	124.6	211.5	233.5	248.8
80°	64.0	103.1	178.1	209.6	219.2
82.5°	35.8	85.9	154.2	187.2	192.4
85°	17.2	72.1	140.4	170.5	177.6
87.5°	4.3	61.1	123.7	141.3	141.3
90°	0.5	52.5	102.7	112.2	111.3
92.5°	0.5	46.3	89.3	95.5	93.6
95°	1.0	41.5	79.7	83.1	79.3
97.5°	1.0	39.2	73.5	71.1	65.4
100°	1.0	36.3	66.8	60.6	54.4
102.5°	1.0	32.5	61.1	53.5	48.2
105°	1.0	27.7	55.9	48.2	43.5
107.5°	1.0	22.0	50.1	43.9	40.1
110°	1.0	15.8	44.9	40.6	37.7



TEST NUMBER: P290280

CATALOG NUMBER: 4SSRK-SLC-40-L830-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	9.5	40.6	37.7	35.3
115°	1.0	3.3	36.3	34.4	32.0
117.5°	1.0	1.4	32.0	32.9	30.1
120°	1.0	1.4	26.7	31.0	28.6
122.5°	1.0	1.4	22.0	29.1	27.7
125°	1.0	1.0	16.7	26.7	26.3
127.5°	1.0	1.0	11.5	23.4	24.4
130°	1.0	1.0	5.7	19.1	21.5
132.5°	1.0	1.0	1.0	15.8	17.7
135°	1.0	1.0	1.0	11.5	14.3
137.5°	1.0	1.0	1.0	5.7	10.5
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)