

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: P290304

Luminaire Tested: **8SSRK-SLC-40-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290304  
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-L830-CD1-U  
Description: 4000 LUMEN, 8 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: 4247.2 lumens  
Efficiency: N/A  
Efficacy: 157.2 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

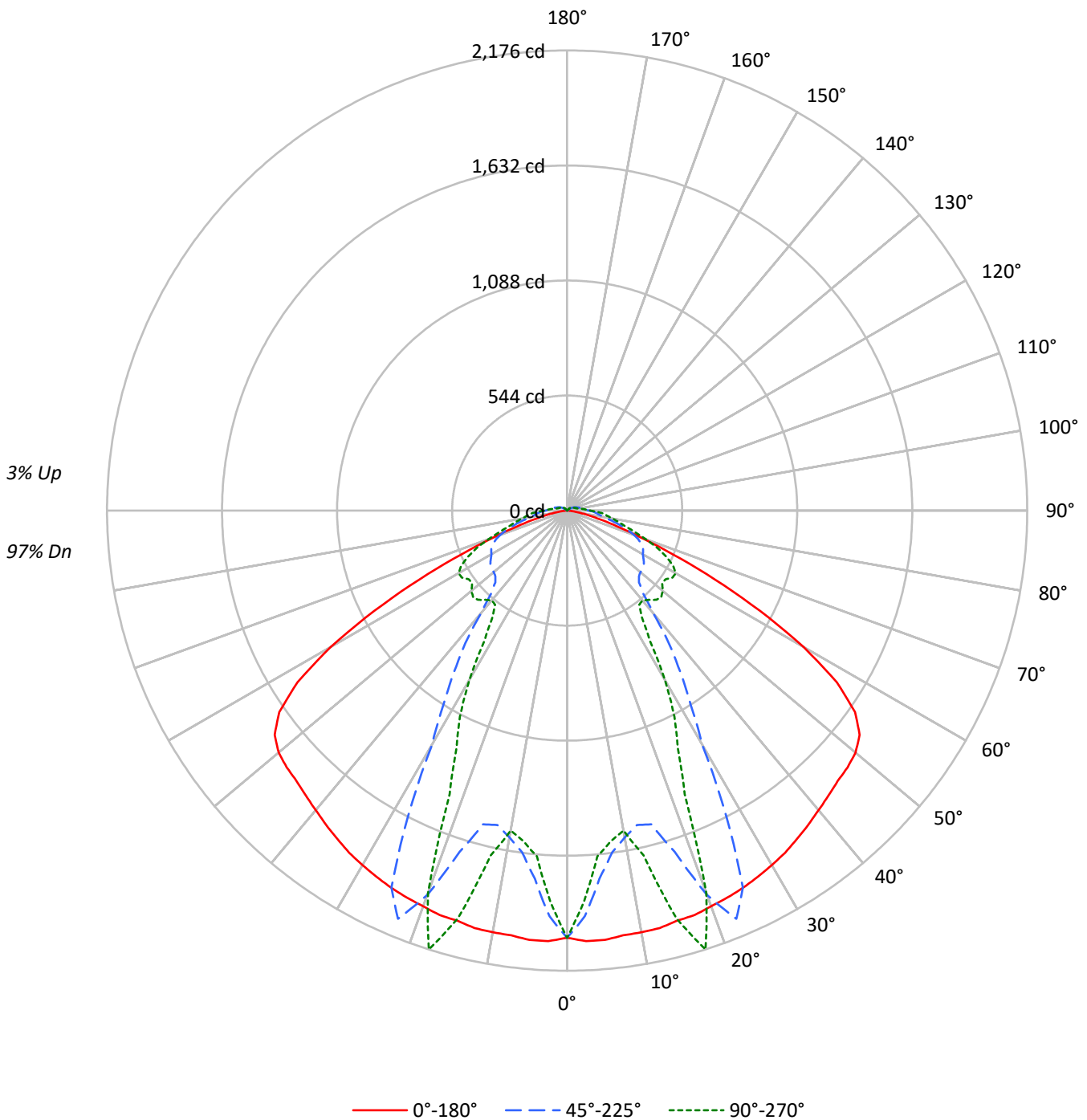
Input Watts (W): 27.0151  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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	97	
1	108	103	99	95	105	101	97	93	96	93	90	91	89	87	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	69	
3	91	81	73	67	88	79	72	66	75	69	64	72	67	63	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	51	
5	77	65	56	50	75	64	56	50	61	54	49	59	53	48	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	40	
7	67	54	45	40	65	53	45	39	51	44	39	49	43	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	32	
9	58	46	38	32	57	45	37	32	44	37	32	42	36	32	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	27	

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

	0°	45°	90°
0°	65226	65226	65226
5°	65938	45364	39423
10°	66143	34272	29544
15°	66743	29138	32211
20°	67887	32655	26923
25°	69434	30123	15379
30°	71311	18040	10418
35°	73632	12286	6376
40°	76607	7902	5362
45°	80939	5716	5451
50°	87270	5181	5140
55°	90848	4934	4755
60°	80492	4504	4831
65°	56347	4239	4132
70°	32747	3603	3108
75°	18615	2722	2211
80°	10577	1921	1709
85°	5117	1543	1400



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	167.8	4.0
10°-20°	504.0	11.9
20°-30°	741.8	17.5
30°-40°	724.7	17.1
40°-50°	600.8	14.1
50°-60°	551.5	13.0
60°-70°	437.0	10.3
70°-80°	242.7	5.7
80°-90°	128.5	3.0
90°-100°	67.6	1.6
100°-110°	40.7	1.0
110°-120°	23.2	0.5
120°-130°	12.8	0.3
130°-140°	4.0	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°	1413.6	33.3
0°-40°	2138.3	50.3
0°-60°	3290.6	77.5
0°-90°	4098.8	96.5
90°-120°	131.5	3.1
90°-150°	148.4	3.5
90°-180°	148.0	3.5
0°-180°	4247.2	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2020	2020	2020	2020	2020	
5°	2038	1924	1748	1673	1642	194
15°	2008	1603	1536	1880	1996	569
25°	1968	1531	1966	1341	1237	909
35°	1895	1827	932	666	615	1189
45°	1809	826	481	549	597	1403
55°	1662	368	444	531	567	1443
65°	770	239	394	500	518	780
75°	161	146	253	270	282	191
85°	17	72	140	169	176	24
90°	0	52	102	112	110	1
95°	1	41	79	82	79	1
105°	1	28	56	48	43	1
115°	1	3	36	34	32	1
125°	1	1	17	27	26	1
135°	1	1	1	11	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°	2019.9	2019.9	2019.9	2019.9	2019.9
2.5°	2037.9	2001.4	1920.3	1865.2	1846.7
5°	2037.9	1923.6	1747.6	1673.1	1641.8
7.5°	2025.6	1824.9	1629.5	1597.2	1576.8
10°	2024.6	1719.6	1569.2	1542.2	1536.5
12.5°	2022.3	1661.3	1522.7	1618.6	1670.3
15°	2007.6	1603.4	1535.6	1880.4	1996.2
17.5°	2005.2	1560.2	1691.2	2127.6	2176.4
20°	1990.5	1526.1	1933.6	2096.3	1924.1
22.5°	1981.0	1502.3	2089.6	1686.4	1452.1
25°	1967.7	1530.8	1966.3	1340.6	1236.7
27.5°	1952.5	1622.4	1630.0	1167.0	1098.2
30°	1935.5	1765.6	1278.0	1019.9	924.6
32.5°	1918.4	1870.5	1087.7	837.3	725.3
35°	1895.1	1827.3	932.1	666.0	614.8
37.5°	1873.3	1628.1	790.3	574.9	560.2
40°	1849.1	1311.7	634.7	538.9	554.1
42.5°	1828.7	1039.8	533.2	535.1	572.6
45°	1809.3	826.4	481.0	548.9	596.8
47.5°	1797.9	657.0	460.1	565.5	603.9
50°	1780.3	526.6	452.6	568.8	590.1
52.5°	1743.3	434.1	450.2	551.2	565.9
55°	1661.7	368.1	443.5	531.3	566.9
57.5°	1511.4	327.3	428.4	535.6	590.1
60°	1291.3	295.5	413.2	549.3	593.0
62.5°	1027.5	266.6	405.1	537.9	565.0
65°	770.4	239.1	393.7	499.5	518.0
67.5°	539.4	215.4	368.1	451.6	461.6
70°	366.7	192.6	336.3	390.4	394.7
72.5°	246.7	169.8	297.0	327.3	334.0
75°	160.8	145.6	253.3	270.4	282.3
77.5°	102.5	123.8	210.1	232.0	247.1
80°	63.6	102.5	176.9	208.3	217.7
82.5°	35.6	85.4	153.2	186.0	191.2
85°	17.1	71.6	139.5	169.4	176.5
87.5°	4.3	60.7	122.9	140.4	140.4
90°	0.5	52.2	102.0	111.5	110.5
92.5°	0.5	46.0	88.7	94.9	93.0
95°	0.9	41.3	79.2	82.5	78.7
97.5°	0.9	38.9	73.1	70.7	65.0
100°	0.9	36.1	66.4	60.2	54.1
102.5°	0.9	32.3	60.7	53.1	47.9
105°	0.9	27.5	55.5	47.9	43.2
107.5°	0.9	21.8	49.8	43.6	39.8
110°	0.9	15.7	44.6	40.3	37.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	9.5	40.3	37.5	35.1
115°	0.9	3.3	36.1	34.2	31.8
117.5°	0.9	1.4	31.8	32.7	29.9
120°	0.9	1.4	26.6	30.8	28.5
122.5°	0.9	1.4	21.8	28.9	27.5
125°	0.9	0.9	16.6	26.6	26.1
127.5°	0.9	0.9	11.4	23.2	24.2
130°	0.9	0.9	5.7	19.0	21.3
132.5°	0.9	0.9	0.9	15.7	17.6
135°	0.9	0.9	0.9	11.4	14.2
137.5°	0.9	0.9	0.9	5.7	10.4
140°	0.9	0.9	0.9	0.9	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)