

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: P290281

Luminaire Tested: **4SSRK-SLC-40-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290281  
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-L835-CD1-U  
Description: 4000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE CLEAR LENS AND 80 CRI 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

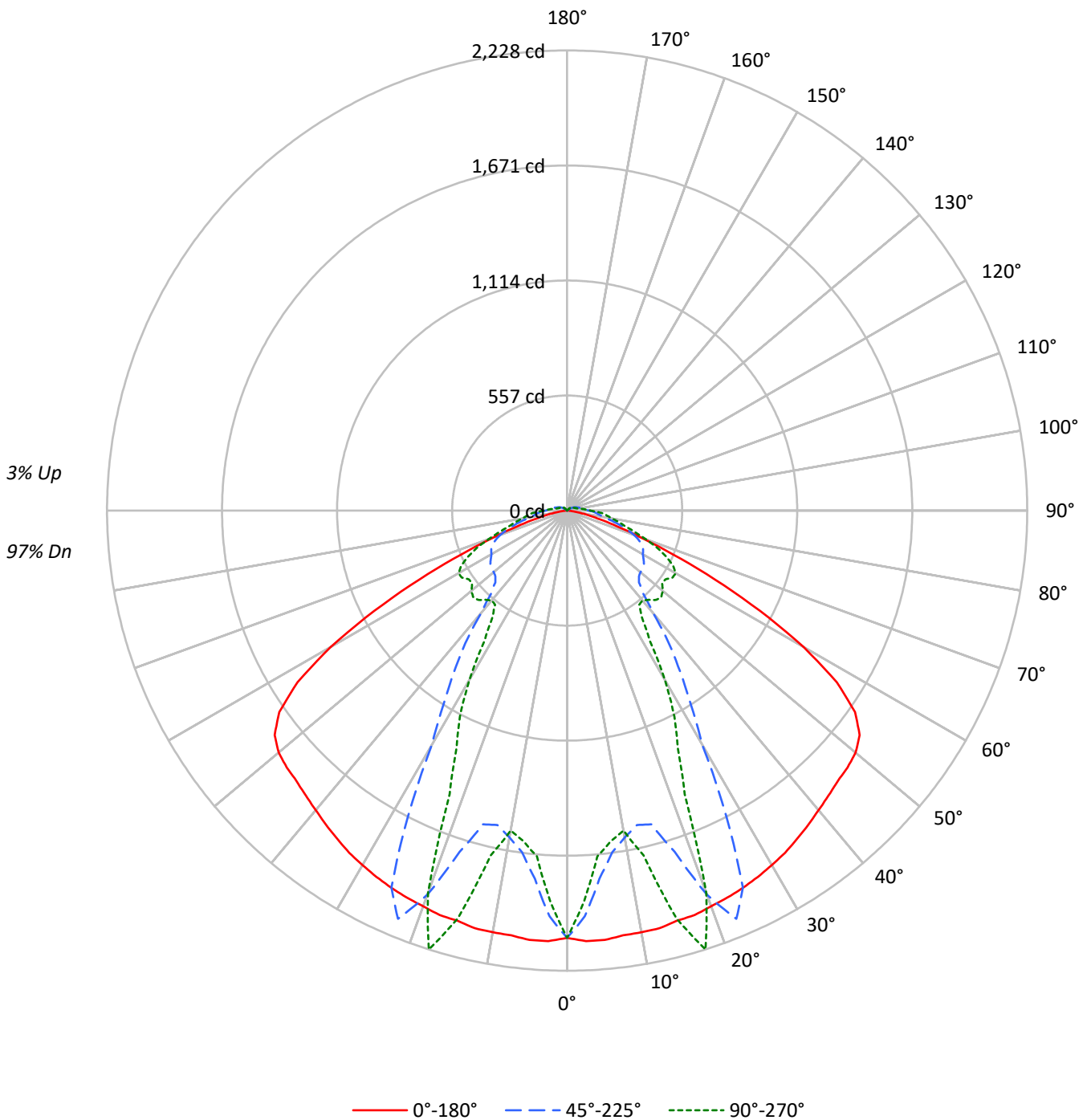
Lumens per Lamp: N/A  
Luminaire Lumens: 4349.0 lumens  
Efficiency: N/A  
Efficacy: 157.0 lumens/watt  
Spacing Criteria (0/90/45): 1.44 / 0.89 / 0.98  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Direct

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



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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°	133577	133577	133577
5°	134789	92803	80733
10°	134961	70065	60503
15°	135922	59536	65964
20°	137982	66694	55133
25°	140837	61507	31494
30°	144319	36826	21333
35°	148654	25075	13058
40°	154235	16124	10979
45°	162437	11660	11163
50°	174498	10568	10528
55°	180824	10064	9737
60°	159288	9185	9893
65°	110654	8643	8463
70°	63622	7347	6364
75°	35567	5549	4527
80°	19584	3916	3502
85°	8784	3143	2866



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	171.8	4.0
10°-20°	516.0	11.9
20°-30°	759.6	17.5
30°-40°	742.0	17.1
40°-50°	615.1	14.1
50°-60°	564.8	13.0
60°-70°	447.5	10.3
70°-80°	248.5	5.7
80°-90°	131.6	3.0
90°-100°	69.2	1.6
100°-110°	41.7	1.0
110°-120°	23.8	0.5
120°-130°	13.1	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°	1447.4	33.3
0°-40°	2189.4	50.3
0°-60°	3369.3	77.5
0°-90°	4196.9	96.5
90°-120°	134.6	3.1
90°-150°	152.1	3.5
90°-180°	152.0	3.5
0°-180°	4349.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2068	2068	2068	2068	2068	
5°	2087	1970	1789	1713	1681	198
15°	2056	1642	1572	1925	2044	583
25°	2015	1568	2013	1373	1266	931
35°	1940	1871	954	682	630	1218
45°	1853	846	492	562	611	1437
55°	1702	377	454	544	580	1478
65°	789	245	403	512	530	798
75°	165	149	259	277	289	195
85°	18	73	143	173	181	24
90°	0	53	104	114	113	1
95°	1	42	81	84	81	1
105°	1	28	57	49	44	1
115°	1	3	37	35	32	1
125°	1	1	17	27	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°	2068.3	2068.3	2068.3	2068.3	2068.3
2.5°	2086.7	2049.3	1966.2	1909.9	1891.0
5°	2086.7	1969.6	1789.4	1713.2	1681.1
7.5°	2074.1	1868.6	1668.5	1635.5	1614.6
10°	2073.1	1760.8	1606.8	1579.1	1573.3
12.5°	2070.7	1701.0	1559.2	1657.3	1710.3
15°	2055.6	1641.8	1572.3	1925.4	2044.0
17.5°	2053.2	1597.6	1731.6	2178.5	2228.5
20°	2038.1	1562.6	1979.8	2146.5	1970.1
22.5°	2028.4	1538.3	2139.7	1726.8	1486.8
25°	2014.8	1567.5	2013.4	1372.7	1266.3
27.5°	1999.3	1661.2	1669.0	1194.9	1124.5
30°	1981.8	1807.9	1308.6	1044.3	946.7
32.5°	1964.3	1915.2	1113.8	857.3	742.7
35°	1940.5	1871.0	954.5	682.0	629.5
37.5°	1918.2	1667.0	809.2	588.7	573.7
40°	1893.4	1343.1	649.9	551.8	567.3
42.5°	1872.5	1064.7	546.0	547.9	586.3
45°	1852.6	846.1	492.5	562.0	611.1
47.5°	1840.9	672.7	471.2	579.0	618.3
50°	1823.0	539.2	463.4	582.4	604.3
52.5°	1785.1	444.4	461.0	564.4	579.5
55°	1701.5	376.9	454.2	544.0	580.5
57.5°	1547.5	335.2	438.6	548.4	604.3
60°	1322.2	302.6	423.1	562.5	607.2
62.5°	1052.1	273.0	414.8	550.8	578.5
65°	788.8	244.8	403.2	511.5	530.4
67.5°	552.3	220.5	376.9	462.4	472.6
70°	375.5	197.2	344.4	399.8	404.1
72.5°	252.6	173.9	304.1	335.2	342.0
75°	164.7	149.1	259.4	276.9	289.0
77.5°	104.9	126.8	215.2	237.5	253.1
80°	65.1	104.9	181.2	213.2	223.0
82.5°	36.4	87.4	156.9	190.4	195.8
85°	17.5	73.3	142.8	173.4	180.7
87.5°	4.4	62.2	125.8	143.8	143.8
90°	0.5	53.4	104.4	114.1	113.2
92.5°	0.5	47.1	90.8	97.1	95.2
95°	1.0	42.3	81.1	84.5	80.6
97.5°	1.0	39.8	74.8	72.4	66.5
100°	1.0	36.9	68.0	61.7	55.4
102.5°	1.0	33.0	62.2	54.4	49.1
105°	1.0	28.2	56.8	49.1	44.2
107.5°	1.0	22.3	51.0	44.7	40.8
110°	1.0	16.0	45.7	41.3	38.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	9.7	41.3	38.4	35.9
115°	1.0	3.4	36.9	35.0	32.5
117.5°	1.0	1.5	32.5	33.5	30.6
120°	1.0	1.5	27.2	31.6	29.1
122.5°	1.0	1.5	22.3	29.6	28.2
125°	1.0	1.0	17.0	27.2	26.7
127.5°	1.0	1.0	11.7	23.8	24.8
130°	1.0	1.0	5.8	19.4	21.9
132.5°	1.0	1.0	1.0	16.0	18.0
135°	1.0	1.0	1.0	11.7	14.6
137.5°	1.0	1.0	1.0	5.8	10.7
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)