

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: P290313

Luminaire Tested: **8SSRK-SLC-50-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290313  
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-50-L835-CD1-U  
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE CLEAR LENS AND 80 CRI 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

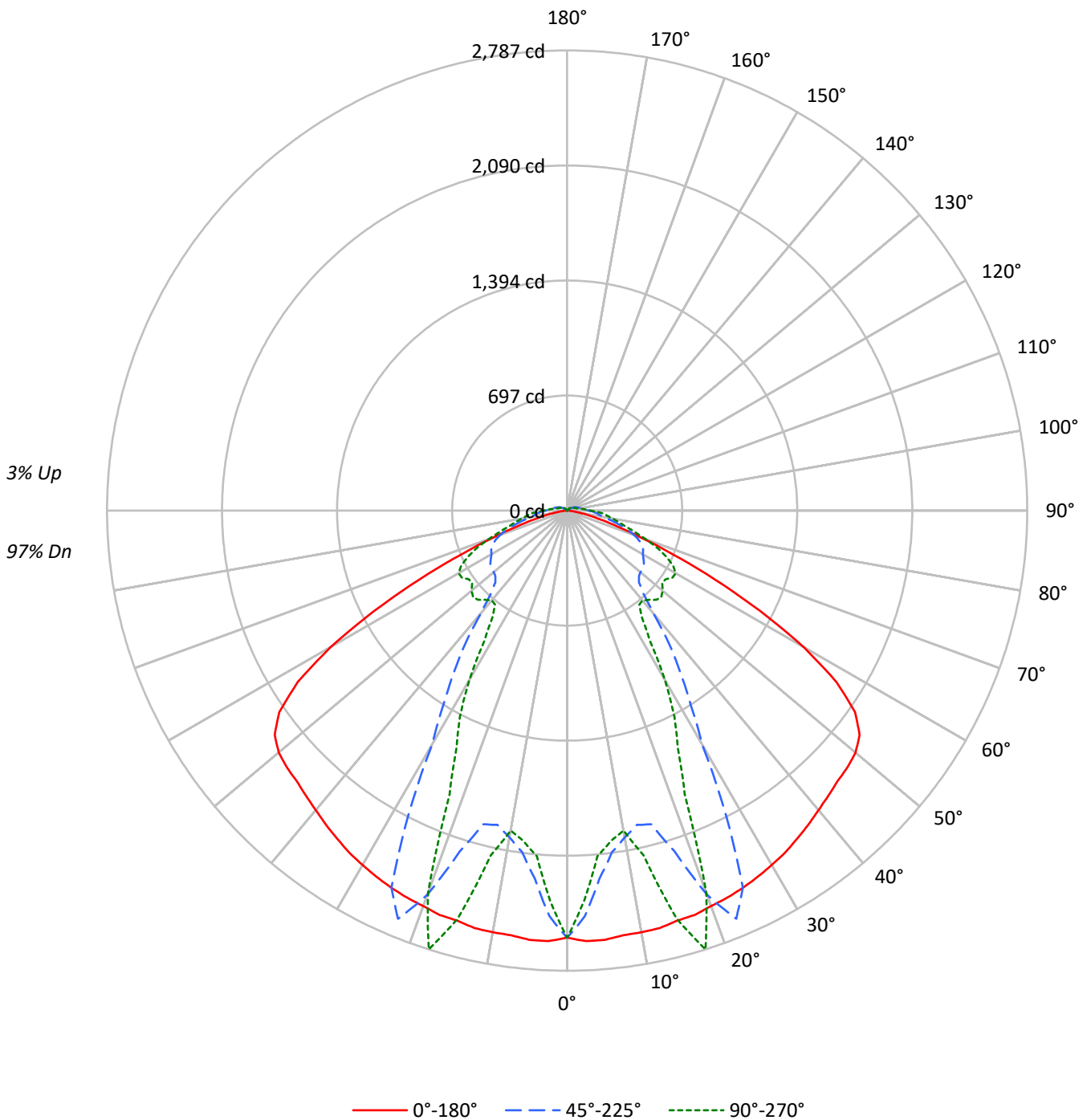
Lumens per Lamp: N/A  
Luminaire Lumens: 5439.1 lumens  
Efficiency: N/A  
Efficacy: 159.0 lumens/watt  
Spacing Criteria (0/90/45): 1.44 / 0.89 / 0.98  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 34.1991  
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: P290313  
CATALOG NUMBER: 8SSRK-SLC-50-L835-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P290313

CATALOG NUMBER: 8SSRK-SLC-50-L835-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	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°	83528	83528	83528
5°	84442	58094	50485
10°	84706	43891	37835
15°	85470	37314	41249
20°	86938	41818	34478
25°	88919	38576	19694
30°	91321	23102	13340
35°	94294	15734	8166
40°	98105	10120	6866
45°	103651	7320	6980
50°	111760	6635	6583
55°	116347	6319	6089
60°	103075	5768	6186
65°	72160	5428	5292
70°	41936	4615	3980
75°	23836	3486	2832
80°	13538	2461	2189
85°	6553	1975	1792



TEST NUMBER: P290313

CATALOG NUMBER: 8SSRK-SLC-50-L835-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.9	4.0
10°-20°	645.4	11.9
20°-30°	950.0	17.5
30°-40°	928.0	17.1
40°-50°	769.3	14.1
50°-60°	706.3	13.0
60°-70°	559.7	10.3
70°-80°	310.8	5.7
80°-90°	164.6	3.0
90°-100°	86.6	1.6
100°-110°	52.1	1.0
110°-120°	29.7	0.5
120°-130°	16.4	0.3
130°-140°	5.2	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°	1810.3	33.3
0°-40°	2738.3	50.3
0°-60°	4213.9	77.5
0°-90°	5249.0	96.5
90°-120°	168.4	3.1
90°-150°	190.1	3.5
90°-180°	190.0	3.5
0°-180°	5439.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	2587	2587	2587	2587	2587	
5°	2610	2463	2238	2143	2102	248
15°	2571	2053	1966	2408	2556	729
25°	2520	1960	2518	1717	1584	1164
35°	2427	2340	1194	853	787	1523
45°	2317	1058	616	703	764	1797
55°	2128	471	568	680	726	1848
65°	987	306	504	640	663	999
75°	206	186	324	346	362	244
85°	22	92	179	217	226	30
90°	1	67	131	143	142	1
95°	1	53	102	106	101	1
105°	1	35	71	61	55	1
115°	1	4	46	44	41	1
125°	1	1	21	34	33	1
135°	1	1	1	15	18	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: P290313

CATALOG NUMBER: 8SSRK-SLC-50-L835-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	2586.7	2586.7	2586.7	2586.7	2586.7
2.5°	2609.8	2563.0	2459.1	2388.7	2365.0
5°	2609.8	2463.4	2238.0	2142.6	2102.5
7.5°	2594.0	2337.0	2086.7	2045.4	2019.3
10°	2592.8	2202.2	2009.6	1975.0	1967.7
12.5°	2589.8	2127.4	1950.1	2072.8	2139.0
15°	2570.9	2053.3	1966.5	2408.1	2556.3
17.5°	2567.9	1998.1	2165.7	2724.6	2787.2
20°	2549.1	1954.3	2476.2	2684.5	2464.0
22.5°	2536.9	1923.9	2676.0	2159.6	1859.5
25°	2519.9	1960.4	2518.1	1716.8	1583.7
27.5°	2500.5	2077.6	2087.4	1494.4	1406.4
30°	2478.6	2261.1	1636.6	1306.1	1184.0
32.5°	2456.7	2395.4	1393.0	1072.2	928.9
35°	2426.9	2340.1	1193.7	852.9	787.3
37.5°	2399.0	2084.9	1012.1	736.3	717.5
40°	2368.0	1679.7	812.8	690.1	709.6
42.5°	2341.9	1331.6	682.8	685.3	733.2
45°	2317.0	1058.3	616.0	702.9	764.2
47.5°	2302.4	841.4	589.3	724.1	773.3
50°	2279.9	674.3	579.6	728.4	755.7
52.5°	2232.5	555.9	576.5	705.9	724.7
55°	2128.1	471.4	568.0	680.4	726.0
57.5°	1935.5	419.2	548.6	685.9	755.7
60°	1653.6	378.5	529.1	703.5	759.4
62.5°	1315.8	341.4	518.8	688.9	723.5
65°	986.6	306.2	504.2	639.7	663.4
67.5°	690.7	275.8	471.4	578.3	591.1
70°	469.6	246.6	430.7	500.0	505.4
72.5°	315.9	217.5	380.3	419.2	427.7
75°	205.9	186.5	324.4	346.3	361.5
77.5°	131.2	158.6	269.1	297.1	316.5
80°	81.4	131.2	226.6	266.7	278.8
82.5°	45.6	109.3	196.2	238.1	244.8
85°	21.9	91.7	178.6	216.9	226.0
87.5°	5.5	77.8	157.3	179.8	179.8
90°	0.6	66.8	130.6	142.8	141.5
92.5°	0.6	58.9	113.6	121.5	119.1
95°	1.2	52.9	101.5	105.7	100.8
97.5°	1.2	49.8	93.6	90.5	83.2
100°	1.2	46.2	85.0	77.2	69.3
102.5°	1.2	41.3	77.8	68.0	61.4
105°	1.2	35.2	71.1	61.4	55.3
107.5°	1.2	27.9	63.8	55.9	51.0
110°	1.2	20.0	57.1	51.6	48.0



TEST NUMBER: P290313

CATALOG NUMBER: 8SSRK-SLC-50-L835-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	12.1	51.6	48.0	45.0
115°	1.2	4.3	46.2	43.7	40.7
117.5°	1.2	1.8	40.7	41.9	38.3
120°	1.2	1.8	34.0	39.5	36.4
122.5°	1.2	1.8	27.9	37.1	35.2
125°	1.2	1.2	21.3	34.0	33.4
127.5°	1.2	1.2	14.6	29.8	31.0
130°	1.2	1.2	7.3	24.3	27.3
132.5°	1.2	1.2	1.2	20.0	22.5
135°	1.2	1.2	1.2	14.6	18.2
137.5°	1.2	1.2	1.2	7.3	13.4
140°	1.2	1.2	1.2	1.2	5.5
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)