

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: P290265

Luminaire Tested: **4SSRK-SLC-20-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290265  
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-20-L835-CD1-U  
Description: 2000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE CLEAR LENS AND 80 CRI 3500K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

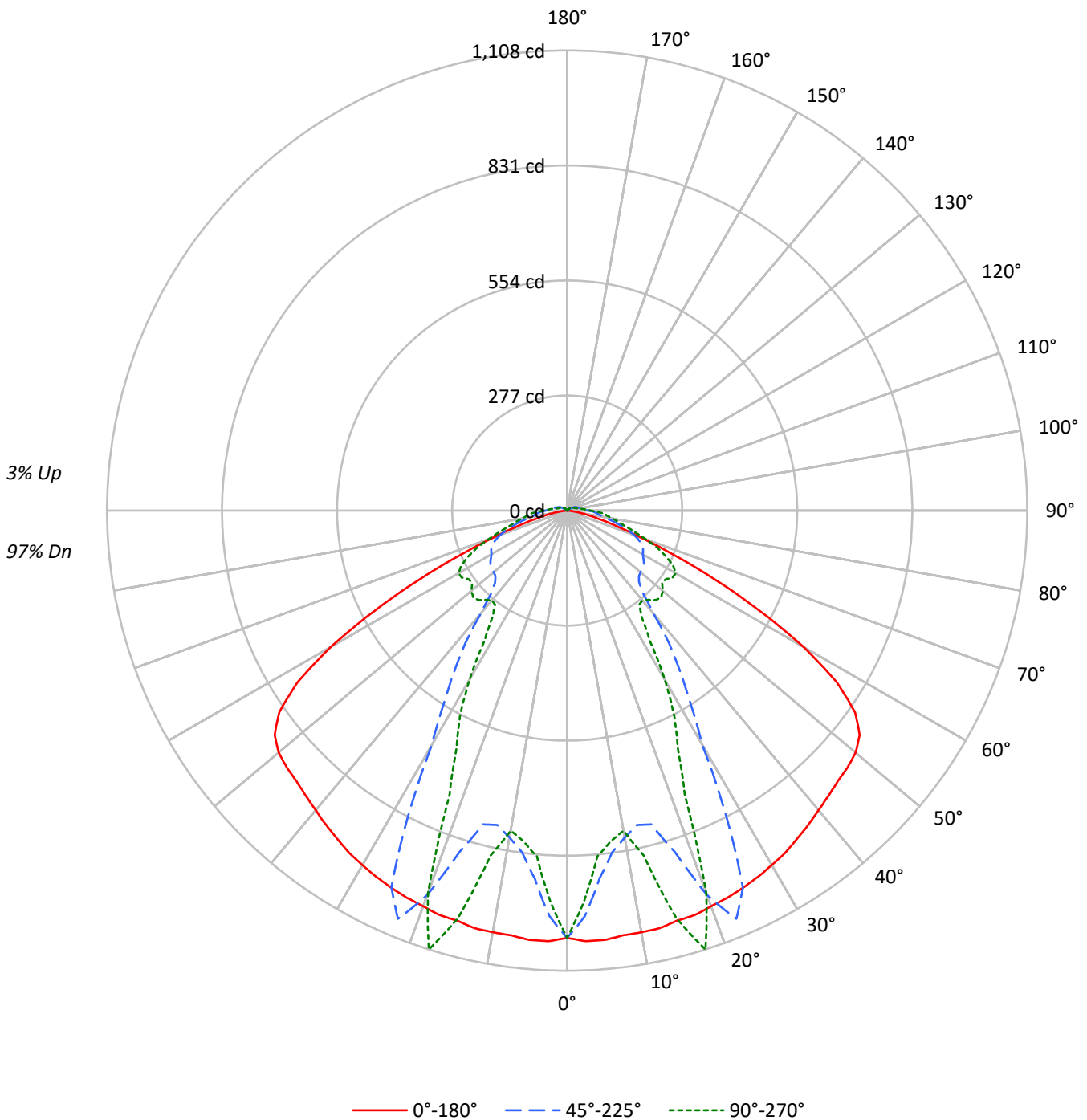
Lumens per Lamp: N/A  
Luminaire Lumens: 2163.0 lumens  
Efficiency: N/A  
Efficacy: 157.9 lumens/watt  
Spacing Criteria (0/90/45): 1.44 / 0.89 / 0.98  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 13.7  
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: P290265  
CATALOG NUMBER: 4SSRK-SLC-20-L835-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P290265

CATALOG NUMBER: 4SSRK-SLC-20-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	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°	66437	66437	66437
5°	67036	46158	40153
10°	67126	34850	30092
15°	67604	29611	32808
20°	68629	33172	27423
25°	70048	30591	15663
30°	71781	18314	10609
35°	73933	12471	6495
40°	76710	8019	5461
45°	80789	5800	5551
50°	86789	5256	5235
55°	89939	5006	4843
60°	79222	4567	4920
65°	55032	4298	4209
70°	31633	3654	3166
75°	17686	2759	2251
80°	9747	1947	1741
85°	4367	1563	1426



TEST NUMBER: P290265

CATALOG NUMBER: 4SSRK-SLC-20-L835-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.5	4.0
10°-20°	256.7	11.9
20°-30°	377.8	17.5
30°-40°	369.0	17.1
40°-50°	305.9	14.1
50°-60°	280.9	13.0
60°-70°	222.6	10.3
70°-80°	123.6	5.7
80°-90°	65.5	3.0
90°-100°	34.4	1.6
100°-110°	20.7	1.0
110°-120°	11.8	0.5
120°-130°	6.5	0.3
130°-140°	2.1	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°	719.9	33.3
0°-40°	1088.9	50.3
0°-60°	1675.8	77.5
0°-90°	2087.4	96.5
90°-120°	67.0	3.1
90°-150°	75.6	3.5
90°-180°	76.0	3.5
0°-180°	2163.0	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1029	1029	1029	1029	1029	
5°	1038	980	890	852	836	99
15°	1022	816	782	958	1017	290
25°	1002	780	1001	683	630	463
35°	965	931	475	339	313	606
45°	921	421	245	280	304	715
55°	846	188	226	271	289	735
65°	392	122	200	254	264	397
75°	82	74	129	138	144	97
85°	9	36	71	86	90	12
90°	0	27	52	57	56	0
95°	0	21	40	42	40	0
105°	0	14	28	24	22	1
115°	0	2	18	17	16	0
125°	0	0	8	14	13	0
135°	0	0	0	6	7	0
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: P290265

CATALOG NUMBER: 4SSRK-SLC-20-L835-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1028.7	1028.7	1028.7	1028.7	1028.7
2.5°	1037.8	1019.2	977.9	949.9	940.5
5°	1037.8	979.6	890.0	852.1	836.1
7.5°	1031.6	929.4	829.8	813.4	803.0
10°	1031.1	875.7	799.2	785.4	782.5
12.5°	1029.9	846.0	775.5	824.3	850.6
15°	1022.4	816.5	782.0	957.6	1016.6
17.5°	1021.2	794.6	861.2	1083.5	1108.4
20°	1013.7	777.2	984.7	1067.6	979.9
22.5°	1008.8	765.1	1064.2	858.8	739.5
25°	1002.1	779.6	1001.4	682.7	629.8
27.5°	994.4	826.2	830.1	594.3	559.3
30°	985.7	899.2	650.8	519.4	470.8
32.5°	977.0	952.6	553.9	426.4	369.4
35°	965.1	930.6	474.7	339.2	313.1
37.5°	954.0	829.1	402.5	292.8	285.3
40°	941.7	668.0	323.2	274.4	282.2
42.5°	931.3	529.5	271.5	272.5	291.6
45°	921.4	420.8	245.0	279.5	303.9
47.5°	915.6	334.6	234.3	288.0	307.5
50°	906.7	268.2	230.5	289.7	300.5
52.5°	887.8	221.0	229.3	280.7	288.2
55°	846.3	187.5	225.9	270.6	288.7
57.5°	769.7	166.7	218.1	272.7	300.5
60°	657.6	150.5	210.4	279.8	302.0
62.5°	523.3	135.8	206.3	274.0	287.7
65°	392.3	121.8	200.5	254.4	263.8
67.5°	274.7	109.7	187.5	230.0	235.1
70°	186.7	98.1	171.3	198.8	201.0
72.5°	125.6	86.5	151.2	166.7	170.1
75°	81.9	74.2	129.0	137.7	143.7
77.5°	52.2	63.1	107.0	118.1	125.9
80°	32.4	52.2	90.1	106.1	110.9
82.5°	18.1	43.5	78.0	94.7	97.4
85°	8.7	36.5	71.0	86.2	89.9
87.5°	2.2	30.9	62.6	71.5	71.5
90°	0.2	26.6	51.9	56.8	56.3
92.5°	0.2	23.4	45.2	48.3	47.4
95°	0.5	21.0	40.3	42.0	40.1
97.5°	0.5	19.8	37.2	36.0	33.1
100°	0.5	18.4	33.8	30.7	27.5
102.5°	0.5	16.4	30.9	27.1	24.4
105°	0.5	14.0	28.3	24.4	22.0
107.5°	0.5	11.1	25.4	22.2	20.3
110°	0.5	8.0	22.7	20.5	19.1



TEST NUMBER: P290265

CATALOG NUMBER: 4SSRK-SLC-20-L835-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	4.8	20.5	19.1	17.9
115°	0.5	1.7	18.4	17.4	16.2
117.5°	0.5	0.7	16.2	16.7	15.2
120°	0.5	0.7	13.5	15.7	14.5
122.5°	0.5	0.7	11.1	14.7	14.0
125°	0.5	0.5	8.5	13.5	13.3
127.5°	0.5	0.5	5.8	11.8	12.3
130°	0.5	0.5	2.9	9.7	10.9
132.5°	0.5	0.5	0.5	8.0	8.9
135°	0.5	0.5	0.5	5.8	7.2
137.5°	0.5	0.5	0.5	2.9	5.3
140°	0.5	0.5	0.5	0.5	2.2
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)