

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: P290329

Luminaire Tested: **8SSRK-SLC-80-L835-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290329  
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-80-L835-CD1-U  
Description: 8000 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: 8939.9 lumens  
Efficiency: N/A  
Efficacy: 157.8 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

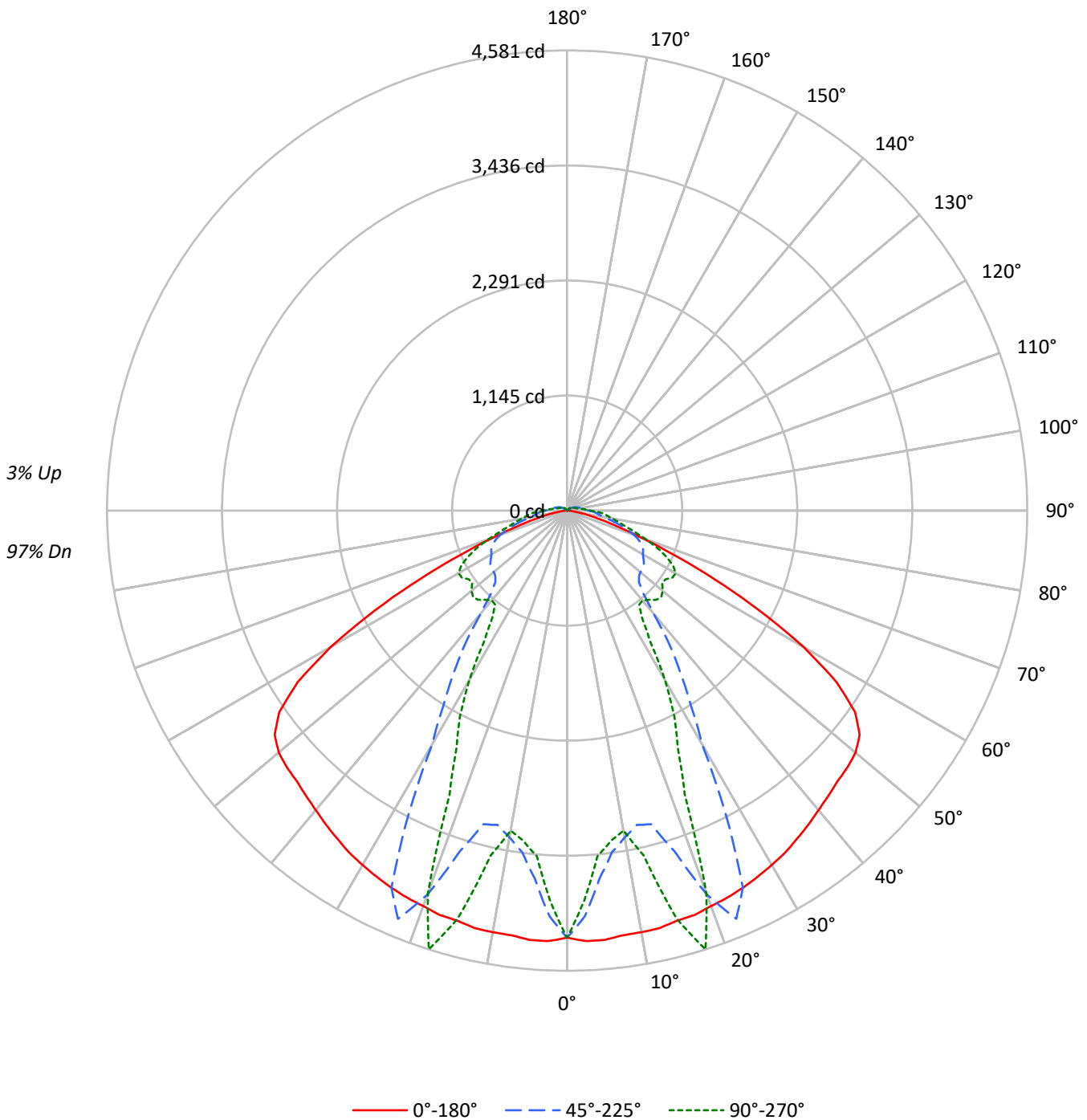
Input Watts (W): 56.6491  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	137290	137290	137290
5°	138790	95484	82980
10°	139225	72139	62185
15°	140480	61329	67799
20°	142891	68732	56668
25°	146151	63404	32370
30°	150098	37970	21927
35°	154988	25860	13421
40°	161247	16634	11284
45°	170365	12031	11473
50°	183691	10905	10820
55°	191226	10387	10007
60°	169417	9481	10167
65°	118605	8922	8699
70°	68924	7585	6541
75°	39186	5730	4654
80°	22252	4044	3598
85°	10743	3247	2945



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	353.2	4.0
10°-20°	1060.8	11.9
20°-30°	1561.4	17.5
30°-40°	1525.3	17.1
40°-50°	1264.5	14.1
50°-60°	1160.9	13.0
60°-70°	919.9	10.3
70°-80°	510.8	5.7
80°-90°	270.5	3.0
90°-100°	142.3	1.6
100°-110°	85.6	1.0
110°-120°	48.9	0.5
120°-130°	27.0	0.3
130°-140°	8.5	0.1
140°-150°	0.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2975.4	33.3
0°-40°	4500.7	50.3
0°-60°	6926.1	77.5
0°-90°	8627.4	96.5
90°-120°	276.8	3.1
90°-150°	312.5	3.5
90°-180°	313.0	3.5
0°-180°	8939.9	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4252	4252	4252	4252	4252	
5°	4290	4049	3678	3522	3456	408
15°	4226	3375	3232	3958	4202	1199
25°	4142	3222	4139	2822	2603	1914
35°	3989	3846	1962	1402	1294	2503
45°	3808	1739	1012	1155	1256	2953
55°	3498	775	934	1118	1193	3038
65°	1622	503	829	1051	1090	1641
75°	338	306	533	569	594	401
85°	36	151	294	356	371	50
90°	1	110	215	235	233	2
95°	2	87	167	174	166	1
105°	2	58	117	101	91	2
115°	2	7	76	72	67	2
125°	2	2	35	56	55	2
135°	2	2	2	24	30	2
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°	4251.6	4251.6	4251.6	4251.6	4251.6
2.5°	4289.5	4212.6	4041.9	3926.1	3887.1
5°	4289.5	4048.9	3678.4	3521.7	3455.8
7.5°	4263.6	3841.2	3429.8	3361.9	3319.0
10°	4261.6	3619.5	3303.0	3246.1	3234.1
12.5°	4256.6	3496.7	3205.2	3406.9	3515.7
15°	4225.6	3374.9	3232.1	3958.0	4201.7
17.5°	4220.6	3284.0	3559.6	4478.2	4581.1
20°	4189.7	3212.2	4069.9	4412.3	4049.9
22.5°	4169.7	3162.2	4398.4	3549.6	3056.4
25°	4141.8	3222.1	4138.8	2821.7	2603.1
27.5°	4109.8	3414.8	3430.8	2456.3	2311.5
30°	4073.9	3716.4	2689.9	2146.8	1946.1
32.5°	4037.9	3937.1	2289.5	1762.3	1526.7
35°	3989.0	3846.2	1962.0	1401.9	1294.0
37.5°	3943.0	3426.8	1663.5	1210.2	1179.2
40°	3892.1	2760.8	1336.0	1134.3	1166.2
42.5°	3849.2	2188.7	1122.3	1126.3	1205.2
45°	3808.3	1739.4	1012.5	1155.3	1256.1
47.5°	3784.3	1382.9	968.5	1190.2	1271.1
50°	3747.3	1108.3	952.6	1197.2	1242.1
52.5°	3669.5	913.6	947.6	1160.2	1191.2
55°	3497.7	774.8	933.6	1118.3	1193.2
57.5°	3181.2	689.0	901.6	1127.3	1242.1
60°	2717.9	622.1	869.7	1156.3	1248.1
62.5°	2162.7	561.2	852.7	1132.3	1189.2
65°	1621.6	503.2	828.7	1051.4	1090.4
67.5°	1135.3	453.3	774.8	950.6	971.5
70°	771.8	405.4	707.9	821.8	830.7
72.5°	519.2	357.5	625.1	689.0	702.9
75°	338.5	306.5	533.2	569.1	594.1
77.5°	215.7	260.6	442.3	488.3	520.2
80°	133.8	215.7	372.4	438.3	458.3
82.5°	74.9	179.7	322.5	391.4	402.4
85°	35.9	150.8	293.6	356.5	371.4
87.5°	9.0	127.8	258.6	295.6	295.6
90°	1.0	109.8	214.7	234.6	232.6
92.5°	1.0	96.9	186.7	199.7	195.7
95°	2.0	86.9	166.7	173.7	165.7
97.5°	2.0	81.9	153.8	148.8	136.8
100°	2.0	75.9	139.8	126.8	113.8
102.5°	2.0	67.9	127.8	111.8	100.8
105°	2.0	57.9	116.8	100.8	90.9
107.5°	2.0	45.9	104.8	91.9	83.9
110°	2.0	33.0	93.9	84.9	78.9



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.0	20.0	84.9	78.9	73.9
115°	2.0	7.0	75.9	71.9	66.9
117.5°	2.0	3.0	66.9	68.9	62.9
120°	2.0	3.0	55.9	64.9	59.9
122.5°	2.0	3.0	45.9	60.9	57.9
125°	2.0	2.0	34.9	55.9	54.9
127.5°	2.0	2.0	24.0	48.9	50.9
130°	2.0	2.0	12.0	39.9	44.9
132.5°	2.0	2.0	2.0	33.0	36.9
135°	2.0	2.0	2.0	24.0	30.0
137.5°	2.0	2.0	2.0	12.0	22.0
140°	2.0	2.0	2.0	2.0	9.0
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)