

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: P290328

Luminaire Tested: **8SSRK-SLC-80-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290328  
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-L830-CD1-U  
Description: 8000 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: 8788.3 lumens  
Efficiency: N/A  
Efficacy: 155.1 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

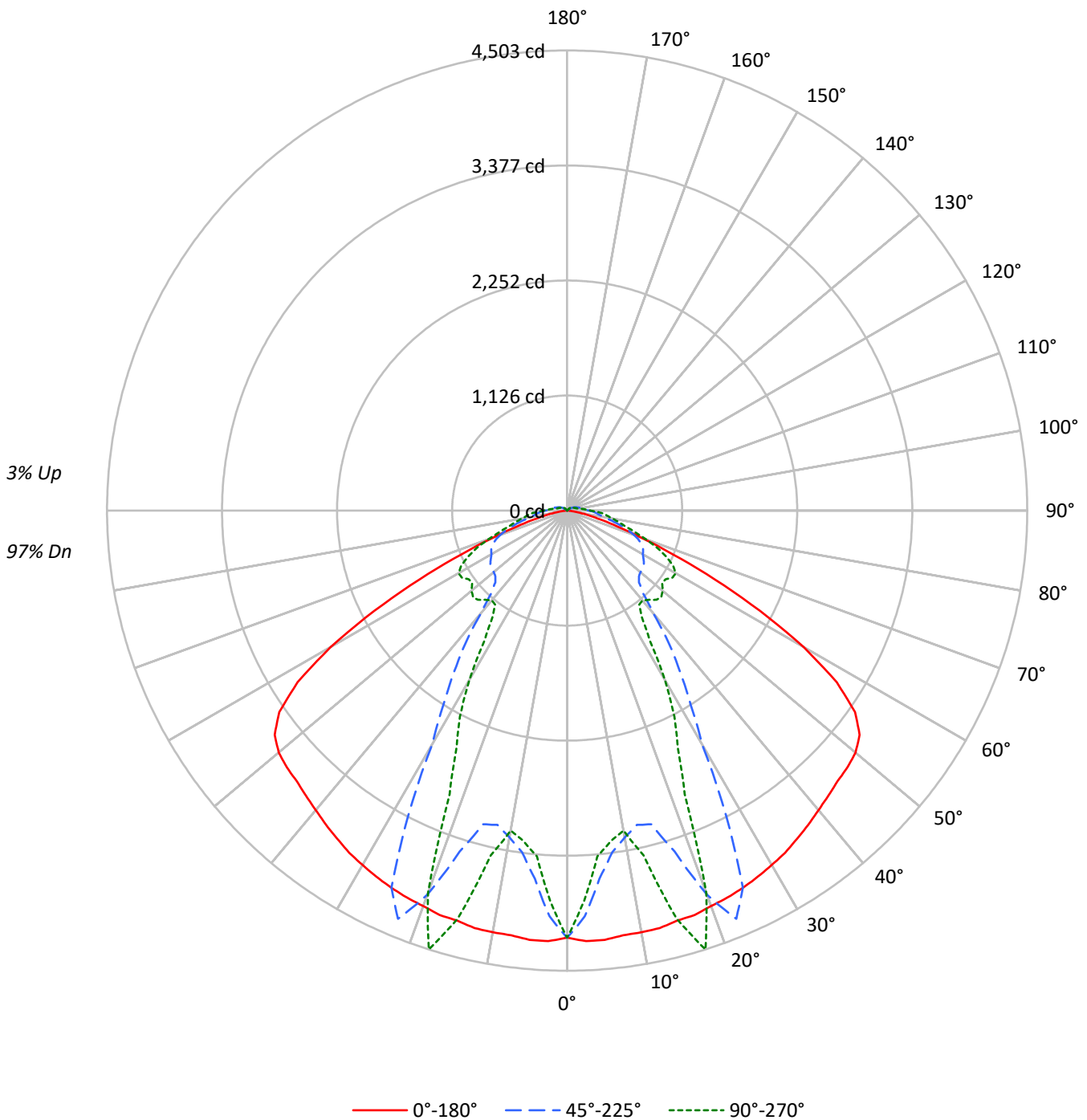
Input Watts (W): 56.6491  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	134962	134962	134962
5°	136438	93867	81573
10°	136863	70916	61132
15°	138100	60289	66649
20°	140466	67565	55707
25°	143671	62329	31821
30°	147552	37327	21555
35°	152358	25423	13194
40°	158513	16351	11094
45°	167475	11827	11278
50°	180578	10720	10637
55°	187984	10211	9838
60°	166543	9319	9995
65°	116593	8771	8551
70°	67754	7456	6431
75°	38515	5633	4574
80°	21870	3976	3537
85°	10563	3192	2895



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	347.2	4.0
10°-20°	1042.8	11.9
20°-30°	1534.9	17.5
30°-40°	1499.5	17.1
40°-50°	1243.1	14.1
50°-60°	1141.2	13.0
60°-70°	904.3	10.3
70°-80°	502.1	5.7
80°-90°	265.9	3.0
90°-100°	139.9	1.6
100°-110°	84.2	1.0
110°-120°	48.1	0.5
120°-130°	26.6	0.3
130°-140°	8.4	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°	2924.9	33.3
0°-40°	4424.4	50.3
0°-60°	6808.7	77.5
0°-90°	8481.1	96.5
90°-120°	272.1	3.1
90°-150°	307.3	3.5
90°-180°	307.0	3.5
0°-180°	8788.3	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	4180	4180	4180	4180	4180	
5°	4217	3980	3616	3462	3397	401
15°	4154	3318	3177	3891	4130	1178
25°	4072	3168	4069	2774	2559	1881
35°	3921	3781	1929	1378	1272	2461
45°	3744	1710	995	1136	1235	2903
55°	3438	762	918	1099	1173	2986
65°	1594	495	815	1034	1072	1613
75°	333	301	524	560	584	394
85°	35	148	289	350	365	49
90°	1	108	211	231	229	2
95°	2	85	164	171	163	1
105°	2	57	115	99	89	2
115°	2	7	75	71	66	2
125°	2	2	34	55	54	2
135°	2	2	2	24	29	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°	4179.5	4179.5	4179.5	4179.5	4179.5
2.5°	4216.8	4141.2	3973.4	3859.5	3821.2
5°	4216.8	3980.2	3616.1	3462.0	3397.2
7.5°	4191.3	3776.1	3371.7	3304.9	3262.7
10°	4189.3	3558.2	3247.0	3191.1	3179.3
12.5°	4184.4	3437.4	3150.8	3349.1	3456.1
15°	4154.0	3317.7	3177.3	3890.9	4130.4
17.5°	4149.1	3228.4	3499.3	4402.3	4503.4
20°	4118.6	3157.7	4000.8	4337.5	3981.2
22.5°	4099.0	3108.6	4323.8	3489.5	3004.6
25°	4071.5	3167.5	4068.6	2773.9	2558.9
27.5°	4040.1	3356.9	3372.6	2414.6	2272.3
30°	4004.8	3653.4	2644.3	2110.4	1913.1
32.5°	3969.4	3870.3	2250.7	1732.5	1500.8
35°	3921.3	3781.0	1928.8	1378.1	1272.1
37.5°	3876.2	3368.7	1635.3	1189.7	1159.2
40°	3826.1	2714.0	1313.3	1115.1	1146.5
42.5°	3783.9	2151.6	1103.3	1107.2	1184.7
45°	3743.7	1709.9	995.3	1135.7	1234.8
47.5°	3720.1	1359.5	952.1	1170.0	1249.5
50°	3683.8	1089.5	936.4	1176.9	1221.1
52.5°	3607.2	898.1	931.5	1140.6	1171.0
55°	3438.4	761.7	917.8	1099.3	1173.0
57.5°	3127.3	677.3	886.3	1108.2	1221.1
60°	2671.8	611.5	854.9	1136.6	1227.0
62.5°	2126.1	551.6	838.3	1113.1	1169.0
65°	1594.1	494.7	814.7	1033.6	1071.9
67.5°	1116.0	445.6	761.7	934.4	955.1
70°	758.7	398.5	695.9	807.8	816.7
72.5°	510.4	351.4	614.5	677.3	691.0
75°	332.7	301.3	524.2	559.5	584.0
77.5°	212.0	256.2	434.8	480.0	511.4
80°	131.5	212.0	366.1	430.9	450.5
82.5°	73.6	176.7	317.0	384.8	395.6
85°	35.3	148.2	288.6	350.4	365.1
87.5°	8.8	125.6	254.2	290.5	290.5
90°	1.0	108.0	211.0	230.7	228.7
92.5°	1.0	95.2	183.6	196.3	192.4
95°	2.0	85.4	163.9	170.8	162.9
97.5°	2.0	80.5	151.2	146.3	134.5
100°	2.0	74.6	137.4	124.7	111.9
102.5°	2.0	66.7	125.6	109.9	99.1
105°	2.0	56.9	114.8	99.1	89.3
107.5°	2.0	45.2	103.1	90.3	82.5
110°	2.0	32.4	92.3	83.4	77.5



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.0	19.6	83.4	77.5	72.6
115°	2.0	6.9	74.6	70.7	65.8
117.5°	2.0	2.9	65.8	67.7	61.8
120°	2.0	2.9	55.0	63.8	58.9
122.5°	2.0	2.9	45.2	59.9	56.9
125°	2.0	2.0	34.4	55.0	54.0
127.5°	2.0	2.0	23.6	48.1	50.1
130°	2.0	2.0	11.8	39.3	44.2
132.5°	2.0	2.0	2.0	32.4	36.3
135°	2.0	2.0	2.0	23.6	29.4
137.5°	2.0	2.0	2.0	11.8	21.6
140°	2.0	2.0	2.0	2.0	8.8
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)