

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: P290267

Luminaire Tested: **4SSRK-SLC-20-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290267  
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-L850-CD1-U  
Description: 2000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE CLEAR LENS AND 80 CRI 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2199.6 lumens  
Efficiency: N/A  
Efficacy: 160.6 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

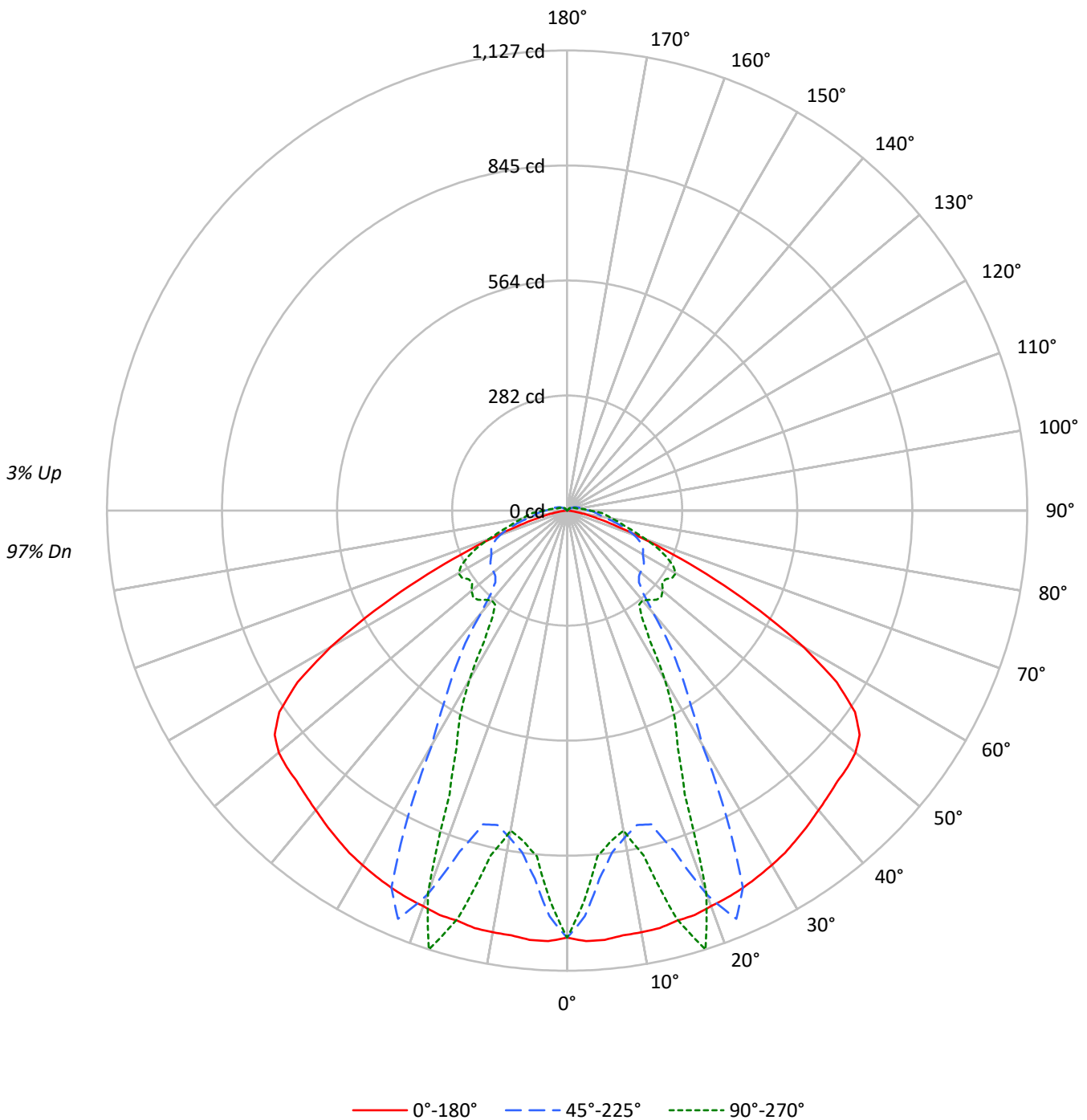
Input Watts (W): 13.7  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	67560	67560	67560
5°	68173	46941	40835
10°	68265	35438	30603
15°	68748	30114	33363
20°	69793	33734	27887
25°	71236	31108	15930
30°	72997	18627	10789
35°	75189	12684	6605
40°	78013	8155	5554
45°	82157	5897	5646
50°	88254	5345	5324
55°	91459	5090	4925
60°	80559	4646	5003
65°	55972	4371	4281
70°	32175	3716	3219
75°	17989	2806	2290
80°	9897	1980	1771
85°	4417	1589	1450



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.9	4.0
10°-20°	261.0	11.9
20°-30°	384.2	17.5
30°-40°	375.3	17.1
40°-50°	311.1	14.1
50°-60°	285.6	13.0
60°-70°	226.3	10.3
70°-80°	125.7	5.7
80°-90°	66.6	3.0
90°-100°	35.0	1.6
100°-110°	21.1	1.0
110°-120°	12.0	0.5
120°-130°	6.6	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°	732.1	33.3
0°-40°	1107.4	50.3
0°-60°	1704.2	77.5
0°-90°	2122.7	96.5
90°-120°	68.1	3.1
90°-150°	76.9	3.5
90°-180°	77.0	3.5
0°-180°	2199.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1046	1046	1046	1046	1046	
5°	1055	996	905	866	850	100
15°	1040	830	795	974	1034	295
25°	1019	793	1018	694	640	471
35°	982	946	483	345	318	616
45°	937	428	249	284	309	727
55°	861	191	230	275	294	747
65°	399	124	204	259	268	404
75°	83	75	131	140	146	99
85°	9	37	72	88	91	12
90°	0	27	53	58	57	0
95°	0	21	41	43	41	0
105°	0	14	29	25	22	1
115°	0	2	19	18	16	0
125°	0	0	9	14	14	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



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**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1046.1	1046.1	1046.1	1046.1	1046.1
2.5°	1055.4	1036.5	994.5	966.0	956.4
5°	1055.4	996.2	905.1	866.5	850.3
7.5°	1049.1	945.1	843.9	827.2	816.6
10°	1048.6	890.6	812.7	798.7	795.8
12.5°	1047.3	860.4	788.6	838.3	865.0
15°	1039.7	830.4	795.3	973.9	1033.8
17.5°	1038.5	808.0	875.8	1101.9	1127.2
20°	1030.9	790.4	1001.4	1085.7	996.5
22.5°	1026.0	778.1	1082.2	873.4	752.0
25°	1019.1	792.8	1018.3	694.3	640.5
27.5°	1011.2	840.2	844.2	604.4	568.7
30°	1002.4	914.4	661.9	528.2	478.8
32.5°	993.5	968.7	563.3	433.6	375.6
35°	981.5	946.4	482.8	344.9	318.4
37.5°	970.2	843.2	409.3	297.8	290.1
40°	957.7	679.3	328.7	279.1	287.0
42.5°	947.1	538.5	276.1	277.1	296.5
45°	937.0	428.0	249.1	284.3	309.1
47.5°	931.1	340.3	238.3	292.8	312.7
50°	922.0	272.7	234.4	294.6	305.6
52.5°	902.9	224.8	233.1	285.5	293.1
55°	860.6	190.6	229.7	275.2	293.6
57.5°	782.7	169.5	221.8	277.4	305.6
60°	668.7	153.1	214.0	284.5	307.1
62.5°	532.1	138.1	209.8	278.6	292.6
65°	399.0	123.8	203.9	258.7	268.3
67.5°	279.3	111.5	190.6	233.9	239.0
70°	189.9	99.7	174.2	202.2	204.4
72.5°	127.8	88.0	153.8	169.5	173.0
75°	83.3	75.4	131.2	140.0	146.2
77.5°	53.1	64.1	108.8	120.1	128.0
80°	32.9	53.1	91.6	107.9	112.8
82.5°	18.4	44.2	79.4	96.3	99.0
85°	8.8	37.1	72.2	87.7	91.4
87.5°	2.2	31.4	63.6	72.7	72.7
90°	0.2	27.0	52.8	57.7	57.2
92.5°	0.2	23.8	45.9	49.1	48.2
95°	0.5	21.4	41.0	42.7	40.8
97.5°	0.5	20.1	37.8	36.6	33.7
100°	0.5	18.7	34.4	31.2	28.0
102.5°	0.5	16.7	31.4	27.5	24.8
105°	0.5	14.2	28.7	24.8	22.4
107.5°	0.5	11.3	25.8	22.6	20.6
110°	0.5	8.1	23.1	20.9	19.4



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**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	4.9	20.9	19.4	18.2
115°	0.5	1.7	18.7	17.7	16.5
117.5°	0.5	0.7	16.5	17.0	15.5
120°	0.5	0.7	13.8	16.0	14.7
122.5°	0.5	0.7	11.3	15.0	14.2
125°	0.5	0.5	8.6	13.8	13.5
127.5°	0.5	0.5	5.9	12.0	12.5
130°	0.5	0.5	2.9	9.8	11.1
132.5°	0.5	0.5	0.5	8.1	9.1
135°	0.5	0.5	0.5	5.9	7.4
137.5°	0.5	0.5	0.5	2.9	5.4
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)