

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: P290320

Luminaire Tested: **8SSRK-SLC-60-L830-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290320  
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-60-L830-CD1-U  
Description: 6000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE CLEAR LENS AND 80 CRI 3000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

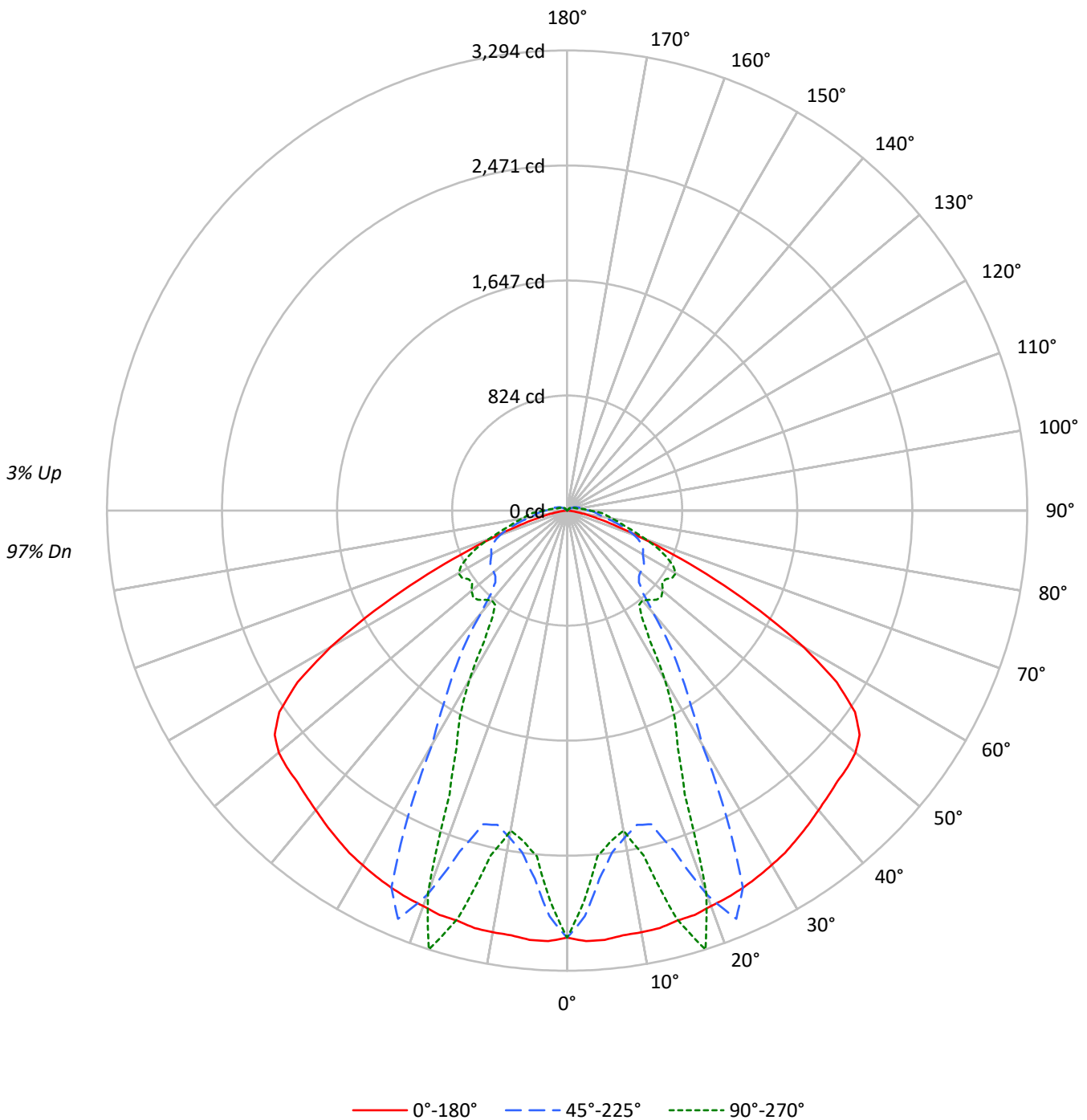
Lumens per Lamp: N/A  
Luminaire Lumens: 6428.8 lumens  
Efficiency: N/A  
Efficacy: 155.3 lumens/watt  
Spacing Criteria (0/90/45): 1.44 / 0.89 / 0.98  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct

Input Watts (W): 41.3831  
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°	98728	98728	98728
5°	99808	68664	59672
10°	100119	51878	44719
15°	101022	44104	48755
20°	102756	49426	40752
25°	105099	45595	23278
30°	107938	27306	15768
35°	111456	18597	9652
40°	115956	11961	8115
45°	122511	8652	8250
50°	132098	7842	7781
55°	137516	7469	7197
60°	121831	6818	7311
65°	85289	6417	6255
70°	49563	5455	4704
75°	28177	4120	3346
80°	15999	2908	2588
85°	7721	2335	2118



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	254.0	4.0
10°-20°	762.8	11.9
20°-30°	1122.8	17.5
30°-40°	1096.9	17.1
40°-50°	909.3	14.1
50°-60°	834.8	13.0
60°-70°	661.5	10.3
70°-80°	367.3	5.7
80°-90°	194.5	3.0
90°-100°	102.3	1.6
100°-110°	61.6	1.0
110°-120°	35.2	0.5
120°-130°	19.4	0.3
130°-140°	6.1	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°	2139.7	33.3
0°-40°	3236.5	50.3
0°-60°	4980.7	77.5
0°-90°	6204.1	96.5
90°-120°	199.0	3.1
90°-150°	224.7	3.5
90°-180°	225.0	3.5
0°-180°	6428.8	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3057	3057	3057	3057	3057	
5°	3085	2912	2645	2532	2485	293
15°	3039	2427	2324	2846	3022	862
25°	2978	2317	2976	2029	1872	1376
35°	2869	2766	1411	1008	931	1800
45°	2739	1251	728	831	903	2124
55°	2515	557	671	804	858	2184
65°	1166	362	596	756	784	1180
75°	243	220	383	409	427	289
85°	26	108	211	256	267	36
90°	1	79	154	169	167	1
95°	1	62	120	125	119	1
105°	1	42	84	72	65	1
115°	1	5	55	52	48	1
125°	1	1	25	40	40	1
135°	1	1	1	17	22	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: P290320

CATALOG NUMBER: 8SSRK-SLC-60-L830-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3057.4	3057.4	3057.4	3057.4	3057.4
2.5°	3084.7	3029.4	2906.6	2823.3	2795.3
5°	3084.7	2911.6	2645.2	2532.5	2485.1
7.5°	3066.0	2762.3	2466.5	2417.6	2386.8
10°	3064.6	2602.9	2375.3	2334.3	2325.7
12.5°	3061.0	2514.6	2304.9	2449.9	2528.2
15°	3038.7	2427.0	2324.3	2846.3	3021.5
17.5°	3035.1	2361.6	2559.8	3220.4	3294.3
20°	3012.9	2309.9	2926.7	3173.0	2912.4
22.5°	2998.5	2274.0	3162.9	2552.6	2197.9
25°	2978.4	2317.1	2976.3	2029.2	1871.9
27.5°	2955.4	2455.7	2467.2	1766.4	1662.3
30°	2929.6	2672.5	1934.4	1543.8	1399.5
32.5°	2903.7	2831.2	1646.5	1267.3	1097.9
35°	2868.6	2765.9	1410.9	1008.1	930.6
37.5°	2835.5	2464.3	1196.2	870.3	848.0
40°	2798.9	1985.4	960.7	815.7	838.7
42.5°	2768.0	1573.9	807.1	809.9	866.7
45°	2738.6	1250.8	728.1	830.8	903.3
47.5°	2721.4	994.5	696.5	855.9	914.1
50°	2694.8	797.0	685.0	860.9	893.2
52.5°	2638.8	657.0	681.4	834.4	856.6
55°	2515.3	557.2	671.4	804.2	858.1
57.5°	2287.7	495.4	648.4	810.7	893.2
60°	1954.5	447.3	625.4	831.5	897.5
62.5°	1555.3	403.5	613.2	814.3	855.2
65°	1166.1	361.9	596.0	756.1	784.1
67.5°	816.4	326.0	557.2	683.6	698.6
70°	555.0	291.5	509.1	590.9	597.4
72.5°	373.4	257.1	449.5	495.4	505.5
75°	243.4	220.4	383.4	409.3	427.2
77.5°	155.1	187.4	318.1	351.1	374.1
80°	96.2	155.1	267.8	315.2	329.6
82.5°	53.9	129.2	231.9	281.5	289.4
85°	25.8	108.4	211.1	256.3	267.1
87.5°	6.5	91.9	186.0	212.5	212.5
90°	0.7	79.0	154.4	168.7	167.3
92.5°	0.7	69.6	134.3	143.6	140.7
95°	1.4	62.5	119.9	124.9	119.2
97.5°	1.4	58.9	110.6	107.0	98.4
100°	1.4	54.6	100.5	91.2	81.9
102.5°	1.4	48.8	91.9	80.4	72.5
105°	1.4	41.6	84.0	72.5	65.3
107.5°	1.4	33.0	75.4	66.1	60.3
110°	1.4	23.7	67.5	61.0	56.7



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CATALOG NUMBER: 8SSRK-SLC-60-L830-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	14.4	61.0	56.7	53.1
115°	1.4	5.0	54.6	51.7	48.1
117.5°	1.4	2.2	48.1	49.5	45.2
120°	1.4	2.2	40.2	46.7	43.1
122.5°	1.4	2.2	33.0	43.8	41.6
125°	1.4	1.4	25.1	40.2	39.5
127.5°	1.4	1.4	17.2	35.2	36.6
130°	1.4	1.4	8.6	28.7	32.3
132.5°	1.4	1.4	1.4	23.7	26.6
135°	1.4	1.4	1.4	17.2	21.5
137.5°	1.4	1.4	1.4	8.6	15.8
140°	1.4	1.4	1.4	1.4	6.5
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)