

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: P290322

Luminaire Tested: **8SSRK-SLC-60-L840-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P290322  
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-L840-CD1-U  
Description: 6000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE CLEAR LENS AND 80 CRI 4000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

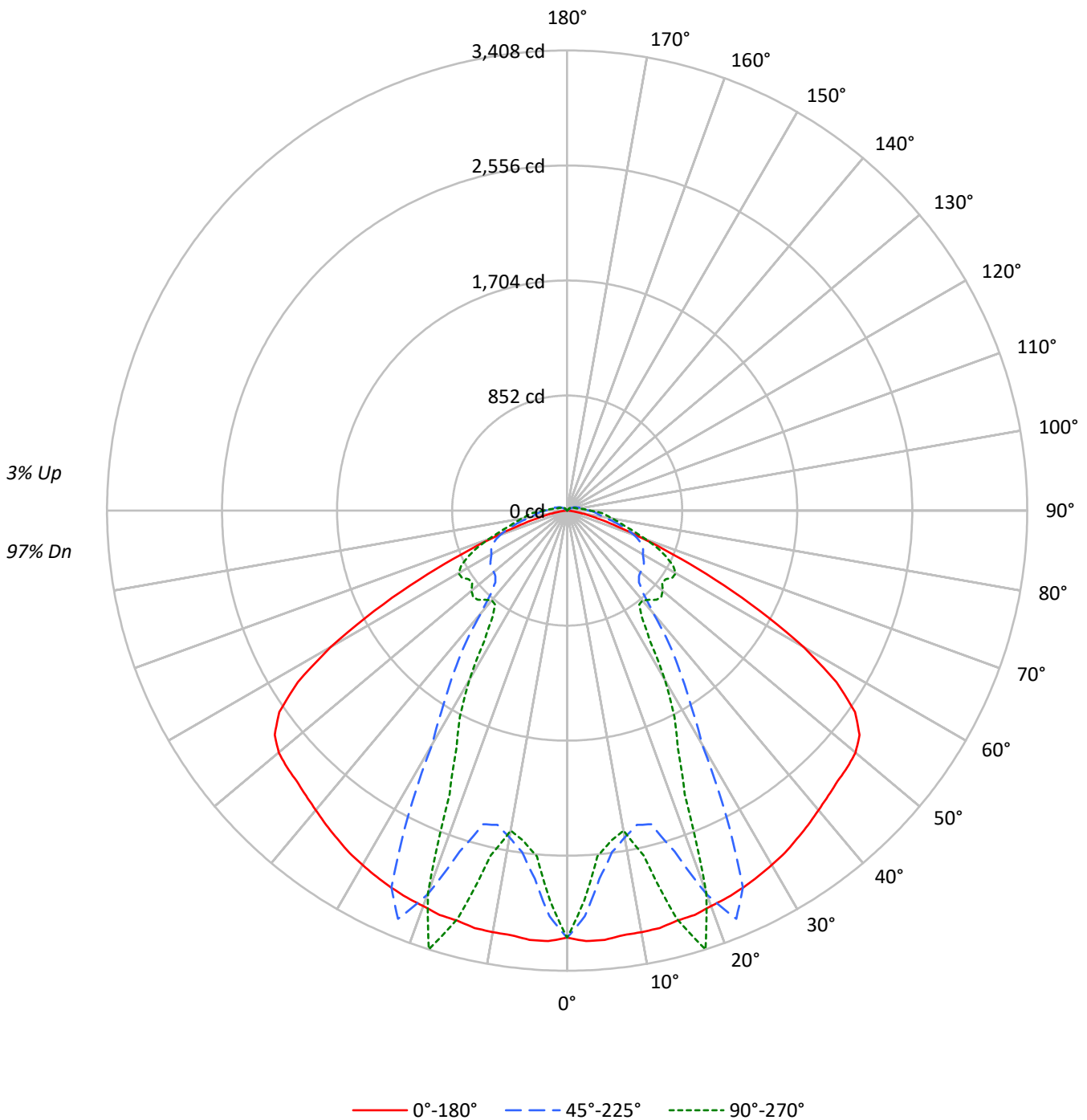
Lumens per Lamp: N/A  
Luminaire Lumens: 6650.7 lumens  
Efficiency: N/A  
Efficacy: 160.7 lumens/watt  
Spacing Criteria (0/90/45): 1.44 / 0.89 / 0.98  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Direct

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	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°	102135	102135	102135
5°	103251	71034	61732
10°	103573	53666	46263
15°	104509	45626	50437
20°	106299	51132	42157
25°	108726	47167	24081
30°	111663	28247	16311
35°	115299	19239	9985
40°	119959	12375	8395
45°	126739	8950	8535
50°	136657	8112	8050
55°	142262	7726	7445
60°	126032	7053	7564
65°	88229	6637	6471
70°	51277	5644	4866
75°	29149	4263	3462
80°	16548	3009	2677
85°	7990	2416	2191



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	262.7	4.0
10°-20°	789.2	11.9
20°-30°	1161.6	17.5
30°-40°	1134.7	17.1
40°-50°	940.7	14.1
50°-60°	863.6	13.0
60°-70°	684.4	10.3
70°-80°	380.0	5.7
80°-90°	201.3	3.0
90°-100°	105.8	1.6
100°-110°	63.7	1.0
110°-120°	36.4	0.5
120°-130°	20.1	0.3
130°-140°	6.3	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°	2213.5	33.3
0°-40°	3348.2	50.3
0°-60°	5152.5	77.5
0°-90°	6418.2	96.5
90°-120°	205.9	3.1
90°-150°	232.5	3.5
90°-180°	233.0	3.5
0°-180°	6650.7	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	3163	3163	3163	3163	3163	
5°	3191	3012	2736	2620	2571	303
15°	3144	2511	2404	2944	3126	892
25°	3081	2397	3079	2099	1936	1424
35°	2968	2861	1460	1043	963	1862
45°	2833	1294	753	859	934	2197
55°	2602	576	694	832	888	2260
65°	1206	374	616	782	811	1221
75°	252	228	397	423	442	298
85°	27	112	218	265	276	37
90°	1	82	160	175	173	1
95°	2	65	124	129	123	1
105°	2	43	87	75	68	2
115°	2	5	56	54	50	1
125°	2	2	26	42	41	1
135°	2	2	2	18	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: P290322

CATALOG NUMBER: 8SSRK-SLC-60-L840-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	3162.9	3162.9	3162.9	3162.9	3162.9
2.5°	3191.1	3133.9	3006.9	2920.7	2891.8
5°	3191.1	3012.1	2736.5	2619.9	2570.9
7.5°	3171.8	2857.6	2551.5	2501.0	2469.1
10°	3170.3	2692.7	2457.2	2414.9	2406.0
12.5°	3166.6	2601.3	2384.4	2534.5	2615.4
15°	3143.6	2510.7	2404.5	2944.5	3125.7
17.5°	3139.9	2443.1	2648.1	3331.5	3408.0
20°	3116.8	2389.6	3027.7	3282.5	3012.8
22.5°	3102.0	2352.5	3272.1	2640.7	2273.7
25°	3081.2	2397.0	3078.9	2099.2	1936.5
27.5°	3057.4	2540.4	2552.3	1827.3	1719.6
30°	3030.7	2764.7	2001.1	1597.0	1447.7
32.5°	3003.9	2928.9	1703.3	1311.1	1135.8
35°	2967.5	2861.3	1459.6	1042.9	962.7
37.5°	2933.3	2549.3	1237.5	900.3	877.3
40°	2895.5	2053.9	993.9	843.8	867.6
42.5°	2863.5	1628.2	834.9	837.9	896.6
45°	2833.1	1294.0	753.2	859.4	934.5
47.5°	2815.2	1028.8	720.5	885.4	945.6
50°	2787.8	824.5	708.6	890.6	924.1
52.5°	2729.8	679.7	704.9	863.1	886.2
55°	2602.1	576.4	694.5	831.9	887.7
57.5°	2366.6	512.5	670.8	838.6	924.1
60°	2021.9	462.8	647.0	860.2	928.5
62.5°	1608.9	417.5	634.4	842.3	884.7
65°	1206.3	374.4	616.5	782.2	811.1
67.5°	844.6	337.2	576.4	707.2	722.8
70°	574.2	301.6	526.7	611.3	618.0
72.5°	386.3	265.9	465.0	512.5	522.9
75°	251.8	228.0	396.7	423.4	442.0
77.5°	160.4	193.9	329.1	363.2	387.0
80°	99.5	160.4	277.1	326.1	340.9
82.5°	55.7	133.7	239.9	291.2	299.4
85°	26.7	112.2	218.4	265.2	276.3
87.5°	6.7	95.1	192.4	219.9	219.9
90°	0.7	81.7	159.7	174.6	173.1
92.5°	0.7	72.1	138.9	148.6	145.6
95°	1.5	64.6	124.0	129.2	123.3
97.5°	1.5	60.9	114.4	110.7	101.8
100°	1.5	56.5	104.0	94.3	84.7
102.5°	1.5	50.5	95.1	83.2	75.0
105°	1.5	43.1	86.9	75.0	67.6
107.5°	1.5	34.2	78.0	68.3	62.4
110°	1.5	24.5	69.8	63.1	58.7



TEST NUMBER: P290322

CATALOG NUMBER: 8SSRK-SLC-60-L840-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	1.5	14.9	63.1	58.7	55.0
115°	1.5	5.2	56.5	53.5	49.8
117.5°	1.5	2.2	49.8	51.3	46.8
120°	1.5	2.2	41.6	48.3	44.6
122.5°	1.5	2.2	34.2	45.3	43.1
125°	1.5	1.5	26.0	41.6	40.9
127.5°	1.5	1.5	17.8	36.4	37.9
130°	1.5	1.5	8.9	29.7	33.4
132.5°	1.5	1.5	1.5	24.5	27.5
135°	1.5	1.5	1.5	17.8	22.3
137.5°	1.5	1.5	1.5	8.9	16.3
140°	1.5	1.5	1.5	1.5	6.7
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)