

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: P290146

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290146
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-10)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-LN-60-L840-CD1-U
Description: 6000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 80 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6316.1 lumens
Efficiency: N/A
Efficacy: 152.6 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.03 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

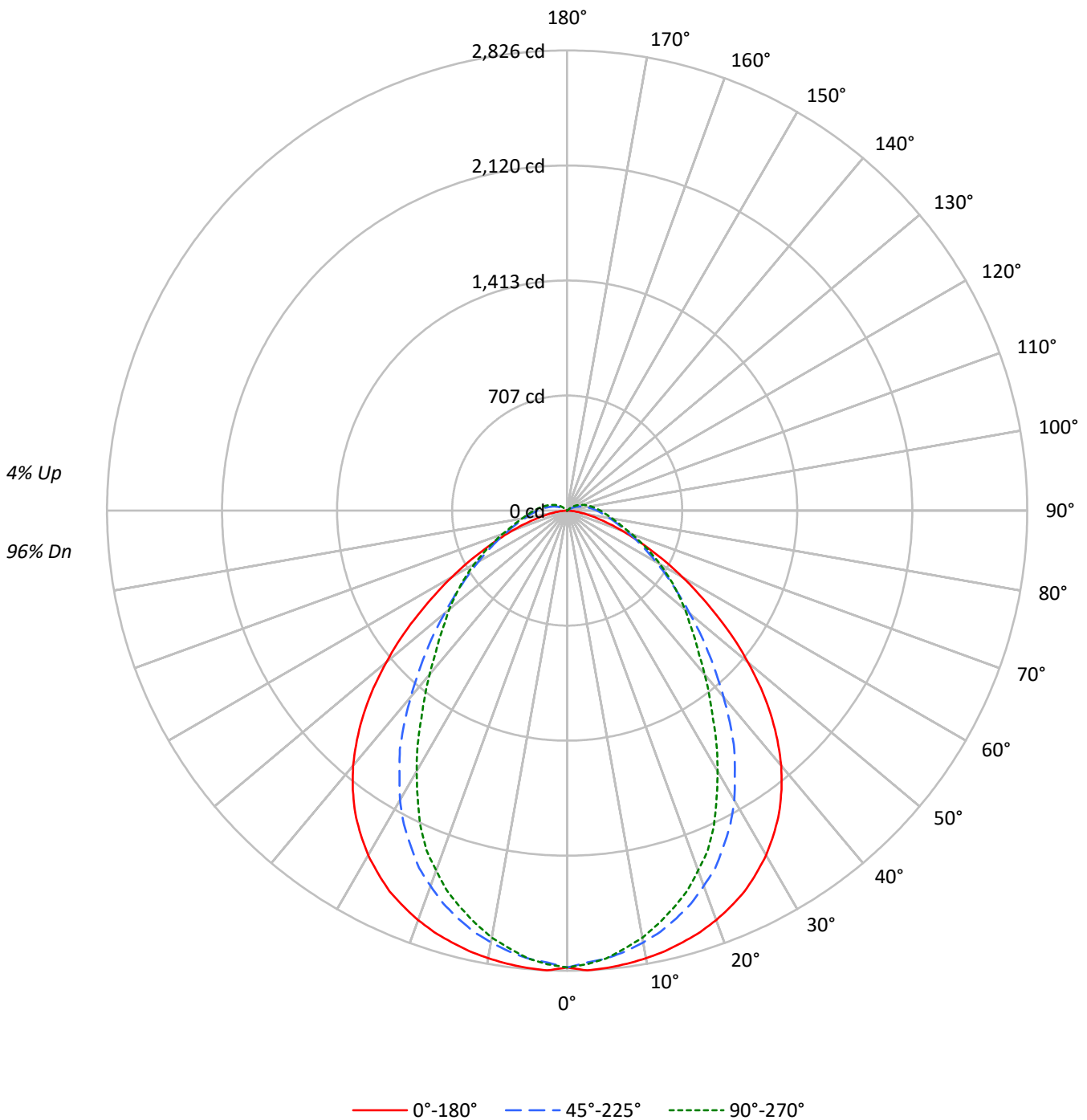
Input Watts (W): 41.3831
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	50	30	10	0		
RCR																										
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	98	98	98	98	98	98	96		
1	108	104	99	96	105	101	97	94	96	93	90	91	89	86	87	85	83	87	85	83	87	85	83	81		
2	99	91	85	80	96	89	83	78	85	80	76	81	77	74	78	74	71	78	74	71	78	74	71	69		
3	91	81	74	68	88	79	72	67	76	70	65	73	68	63	70	65	62	70	65	62	70	65	62	59		
4	84	73	65	58	81	71	64	58	68	62	56	65	60	55	63	58	54	63	58	54	63	58	54	52		
5	78	66	57	51	75	64	56	51	62	55	50	59	53	49	57	52	48	57	52	48	57	52	48	46		
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	47	43	52	47	43	52	47	43	41		
7	67	54	46	40	65	53	46	40	52	45	39	50	44	39	48	43	38	48	43	38	48	43	38	36		
8	63	50	42	36	61	49	41	36	47	41	36	46	40	35	44	39	35	44	39	35	44	39	35	33		
9	59	46	38	33	57	45	38	33	44	37	32	43	36	32	41	36	32	41	36	32	41	36	32	30		
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	38	33	29	38	33	29	38	33	29	27		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	90597	90597	90597
5°	91211	71670	66297
10°	91197	58810	51204
15°	91248	49178	40740
20°	91279	41423	32917
25°	91033	34821	26519
30°	90043	28981	20815
35°	88171	23605	16202
40°	84723	18590	12729
45°	79154	14529	10115
50°	71005	11234	8237
55°	61200	8743	6691
60°	50976	6859	5380
65°	40637	5398	4249
70°	31711	4274	3340
75°	23732	3472	2659
80°	17180	2864	2205
85°	10683	2416	1879



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	263.4	4.2
10°-20°	737.6	11.7
20°-30°	1063.0	16.8
30°-40°	1151.5	18.2
40°-50°	1019.9	16.1
50°-60°	776.0	12.3
60°-70°	517.0	8.2
70°-80°	319.4	5.1
80°-90°	200.1	3.2
90°-100°	131.5	2.1
100°-110°	80.6	1.3
110°-120°	41.6	0.7
120°-130°	13.7	0.2
130°-140°	0.8	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2064.0	32.7
0°-40°	3215.5	50.9
0°-60°	5011.4	79.3
0°-90°	6048.0	95.8
90°-120°	253.7	4.0
90°-150°	268.1	4.2
90°-180°	268.0	4.2
0°-180°	6316.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2806	2806	2806	2806	2806	
5°	2819	2801	2761	2771	2761	268
15°	2745	2693	2592	2557	2525	775
25°	2580	2459	2273	2176	2133	1187
35°	2269	2057	1791	1622	1562	1414
45°	1769	1492	1223	1130	1108	1357
55°	1119	914	786	796	798	1006
65°	556	487	501	530	533	561
75°	205	250	323	345	340	227
85°	36	128	218	241	237	44
90°	2	94	182	205	204	3
95°	4	66	151	175	174	3
105°	2	26	94	120	123	3
115°	2	2	48	75	82	2
125°	2	2	2	33	41	1
135°	0	0	0	0	0	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°	2805.6	2805.6	2805.6	2805.6	2805.6
2.5°	2826.4	2810.8	2778.9	2797.4	2788.5
5°	2819.0	2801.1	2761.0	2771.4	2761.0
7.5°	2807.1	2784.8	2731.3	2735.8	2711.3
10°	2791.5	2761.8	2692.7	2685.3	2663.0
12.5°	2771.4	2729.8	2648.9	2619.2	2597.6
15°	2744.7	2692.7	2591.7	2556.8	2524.8
17.5°	2714.2	2647.4	2530.0	2487.7	2449.8
20°	2676.4	2592.4	2452.8	2394.1	2352.5
22.5°	2630.3	2532.2	2376.3	2290.8	2257.4
25°	2579.8	2458.7	2273.0	2175.7	2132.6
27.5°	2513.7	2377.7	2171.2	2049.4	1987.8
30°	2443.9	2281.9	2053.1	1912.7	1847.4
32.5°	2359.9	2177.2	1916.5	1767.1	1709.2
35°	2269.3	2056.8	1790.9	1622.3	1562.1
37.5°	2162.3	1926.9	1641.6	1487.1	1434.4
40°	2045.0	1785.7	1493.1	1357.1	1315.5
42.5°	1911.3	1642.4	1353.4	1236.0	1200.4
45°	1769.4	1492.3	1222.7	1129.8	1107.5
47.5°	1614.9	1342.3	1100.1	1034.0	1017.7
50°	1448.5	1192.2	981.3	944.9	945.6
52.5°	1290.3	1050.3	880.2	870.6	868.3
55°	1119.4	913.7	785.9	795.6	797.8
57.5°	964.9	786.6	705.7	723.5	725.7
60°	817.8	673.0	629.2	656.6	660.4
62.5°	683.4	575.7	563.8	592.0	591.3
65°	555.6	487.3	501.4	530.4	532.6
67.5°	447.2	415.2	449.4	474.7	473.2
70°	355.1	350.6	398.9	425.6	424.1
72.5°	276.3	296.4	359.5	382.5	376.6
75°	205.0	249.6	323.1	344.7	339.5
77.5°	150.8	211.0	291.2	312.0	308.3
80°	103.3	179.0	263.7	285.2	280.8
82.5°	66.1	152.3	239.9	260.7	257.8
85°	35.7	128.5	218.4	240.7	237.0
87.5°	13.4	109.2	199.1	221.4	219.9
90°	1.5	93.6	182.0	205.0	203.5
92.5°	2.2	79.5	165.6	189.4	189.4
95°	3.7	66.1	150.8	174.6	173.8
97.5°	3.0	55.7	134.4	160.4	160.4
100°	3.0	46.1	119.6	145.6	147.1
102.5°	3.0	36.4	107.0	132.2	135.2
105°	2.2	26.0	94.3	120.3	123.3
107.5°	2.2	14.9	81.7	109.2	112.9
110°	2.2	3.7	70.6	97.3	101.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.2	2.2	59.4	86.2	90.6
115°	2.2	2.2	48.3	75.0	81.7
117.5°	1.5	1.5	35.7	65.4	71.3
120°	1.5	1.5	22.3	55.0	60.9
122.5°	1.5	1.5	9.7	43.8	52.0
125°	1.5	1.5	1.5	32.7	40.9
127.5°	1.5	1.5	0.7	19.3	29.0
130°	1.5	1.5	0.7	7.4	17.8
132.5°	1.5	1.5	0.7	0.7	5.2
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
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)