

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: P290144

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290144
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-L830-CD1-U
Description: 6000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 80 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6105.4 lumens
Efficiency: N/A
Efficacy: 147.5 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

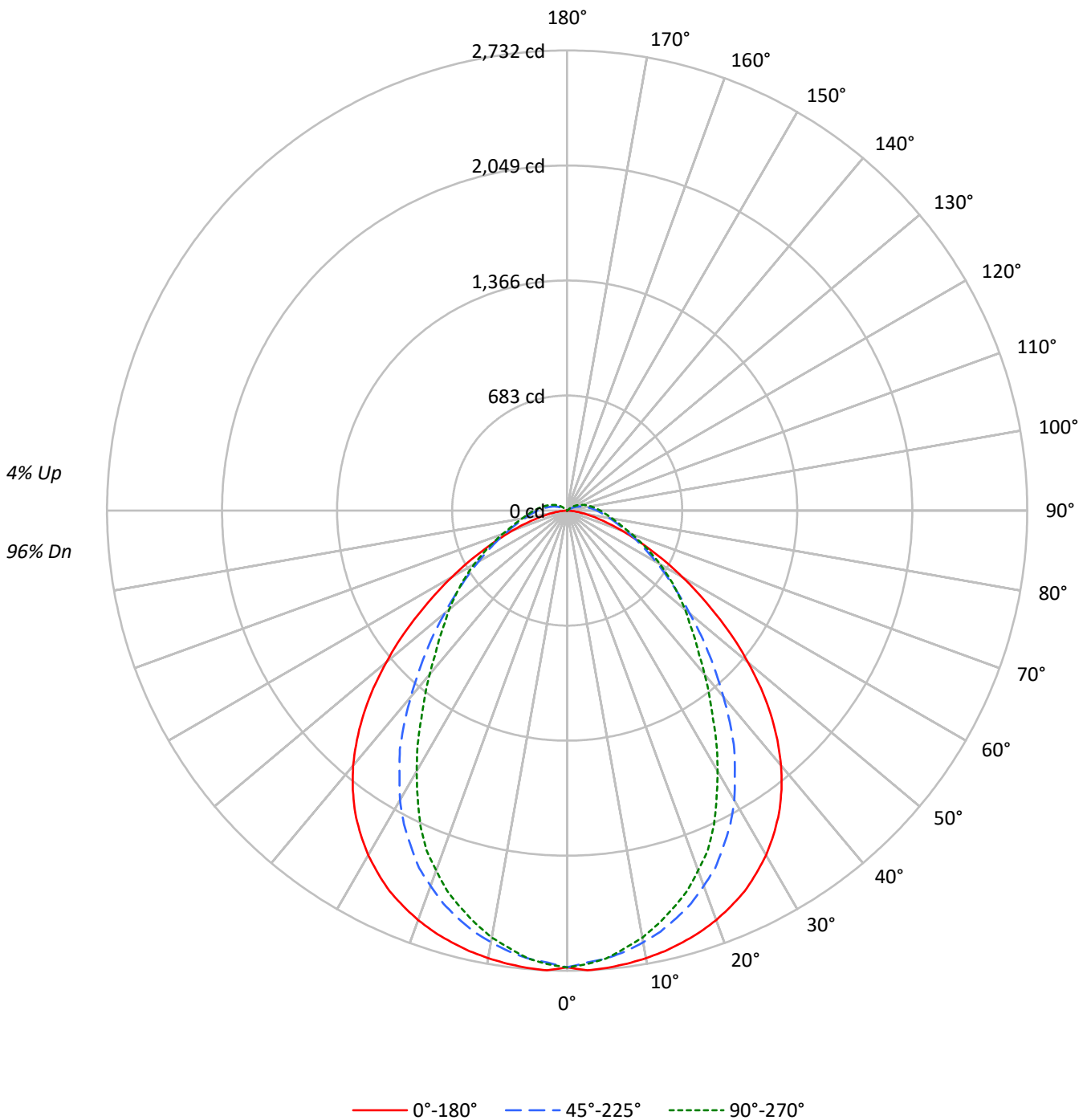
Input Watts (W): 41.3831
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	87575	87575	87575
5°	88170	69282	64088
10°	88156	56849	49497
15°	88206	47536	39382
20°	88234	40041	31819
25°	87998	33660	25635
30°	87036	28016	20121
35°	85230	22818	15661
40°	81897	17970	12304
45°	76515	14044	9778
50°	68637	10858	7963
55°	59160	8452	6468
60°	49281	6630	5200
65°	39284	5218	4107
70°	30649	4132	3229
75°	22944	3356	2570
80°	16598	2768	2131
85°	10324	2335	1817



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	254.6	4.2
10°-20°	713.0	11.7
20°-30°	1027.6	16.8
30°-40°	1113.1	18.2
40°-50°	985.8	16.1
50°-60°	750.1	12.3
60°-70°	499.8	8.2
70°-80°	308.8	5.1
80°-90°	193.5	3.2
90°-100°	127.1	2.1
100°-110°	77.9	1.3
110°-120°	40.2	0.7
120°-130°	13.2	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°	1995.2	32.7
0°-40°	3108.3	50.9
0°-60°	4844.2	79.3
0°-90°	5846.2	95.8
90°-120°	245.2	4.0
90°-150°	259.2	4.2
90°-180°	259.0	4.2
0°-180°	6105.4	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2712	2712	2712	2712	2712	
5°	2725	2708	2669	2679	2669	259
15°	2653	2603	2505	2472	2441	749
25°	2494	2377	2197	2103	2062	1147
35°	2194	1988	1731	1568	1510	1367
45°	1710	1442	1182	1092	1071	1312
55°	1082	883	760	769	771	972
65°	537	471	485	513	515	542
75°	198	241	312	333	328	219
85°	34	124	211	233	229	42
90°	1	90	176	198	197	2
95°	4	64	146	169	168	2
105°	2	25	91	116	119	3
115°	2	2	47	72	79	2
125°	1	1	1	32	40	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°	2712.0	2712.0	2712.0	2712.0	2712.0
2.5°	2732.1	2717.1	2686.2	2704.1	2695.5
5°	2725.0	2707.7	2669.0	2679.0	2669.0
7.5°	2713.5	2691.9	2640.2	2644.5	2620.8
10°	2698.4	2669.7	2602.9	2595.7	2574.2
12.5°	2679.0	2638.8	2560.5	2531.8	2511.0
15°	2653.2	2602.9	2505.2	2471.5	2440.6
17.5°	2623.7	2559.1	2445.6	2404.7	2368.1
20°	2587.1	2506.0	2371.0	2314.2	2274.0
22.5°	2542.6	2447.8	2297.0	2214.4	2182.1
25°	2493.8	2376.7	2197.2	2103.1	2061.5
27.5°	2429.8	2298.4	2098.8	1981.1	1921.5
30°	2362.3	2205.8	1984.7	1849.0	1785.8
32.5°	2281.2	2104.6	1852.5	1708.2	1652.2
35°	2193.6	1988.3	1731.2	1568.2	1510.0
37.5°	2090.2	1862.6	1586.9	1437.5	1386.5
40°	1976.8	1726.2	1443.3	1311.9	1271.6
42.5°	1847.5	1587.6	1308.3	1194.8	1160.4
45°	1710.4	1442.5	1181.9	1092.1	1070.6
47.5°	1561.0	1297.5	1063.4	999.5	983.7
50°	1400.2	1152.5	948.5	913.3	914.1
52.5°	1247.2	1015.3	850.9	841.5	839.4
55°	1082.1	883.2	759.7	769.0	771.2
57.5°	932.7	760.4	682.1	699.4	701.5
60°	790.6	650.5	608.2	634.7	638.3
62.5°	660.6	556.5	545.0	572.3	571.6
65°	537.1	471.0	484.7	512.7	514.8
67.5°	432.3	401.4	434.4	458.8	457.4
70°	343.2	338.9	385.6	411.4	410.0
72.5°	267.1	286.5	347.5	369.8	364.0
75°	198.2	241.3	312.3	333.2	328.1
77.5°	145.8	203.9	281.5	301.6	298.0
80°	99.8	173.0	254.9	275.7	271.4
82.5°	63.9	147.2	231.9	252.0	249.2
85°	34.5	124.2	211.1	232.6	229.1
87.5°	12.9	105.6	192.4	214.0	212.5
90°	1.4	90.5	175.9	198.2	196.7
92.5°	2.2	76.8	160.1	183.1	183.1
95°	3.6	63.9	145.8	168.7	168.0
97.5°	2.9	53.9	130.0	155.1	155.1
100°	2.9	44.5	115.6	140.7	142.2
102.5°	2.9	35.2	103.4	127.8	130.7
105°	2.2	25.1	91.2	116.3	119.2
107.5°	2.2	14.4	79.0	105.6	109.1
110°	2.2	3.6	68.2	94.1	98.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.2	2.2	57.4	83.3	87.6
115°	2.2	2.2	46.7	72.5	79.0
117.5°	1.4	1.4	34.5	63.2	68.9
120°	1.4	1.4	21.5	53.1	58.9
122.5°	1.4	1.4	9.3	42.4	50.3
125°	1.4	1.4	1.4	31.6	39.5
127.5°	1.4	1.4	0.7	18.7	28.0
130°	1.4	1.4	0.7	7.2	17.2
132.5°	1.4	1.4	0.7	0.7	5.0
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)