

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: P290112

Luminaire Tested: **4SSRK-LN-60-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290112
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: 4SSRK-LN-60-L830-CD1-U
Description: 6000 LUMEN, 4 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: 6156.1 lumens
Efficiency: N/A
Efficacy: 137.4 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.03 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Direct

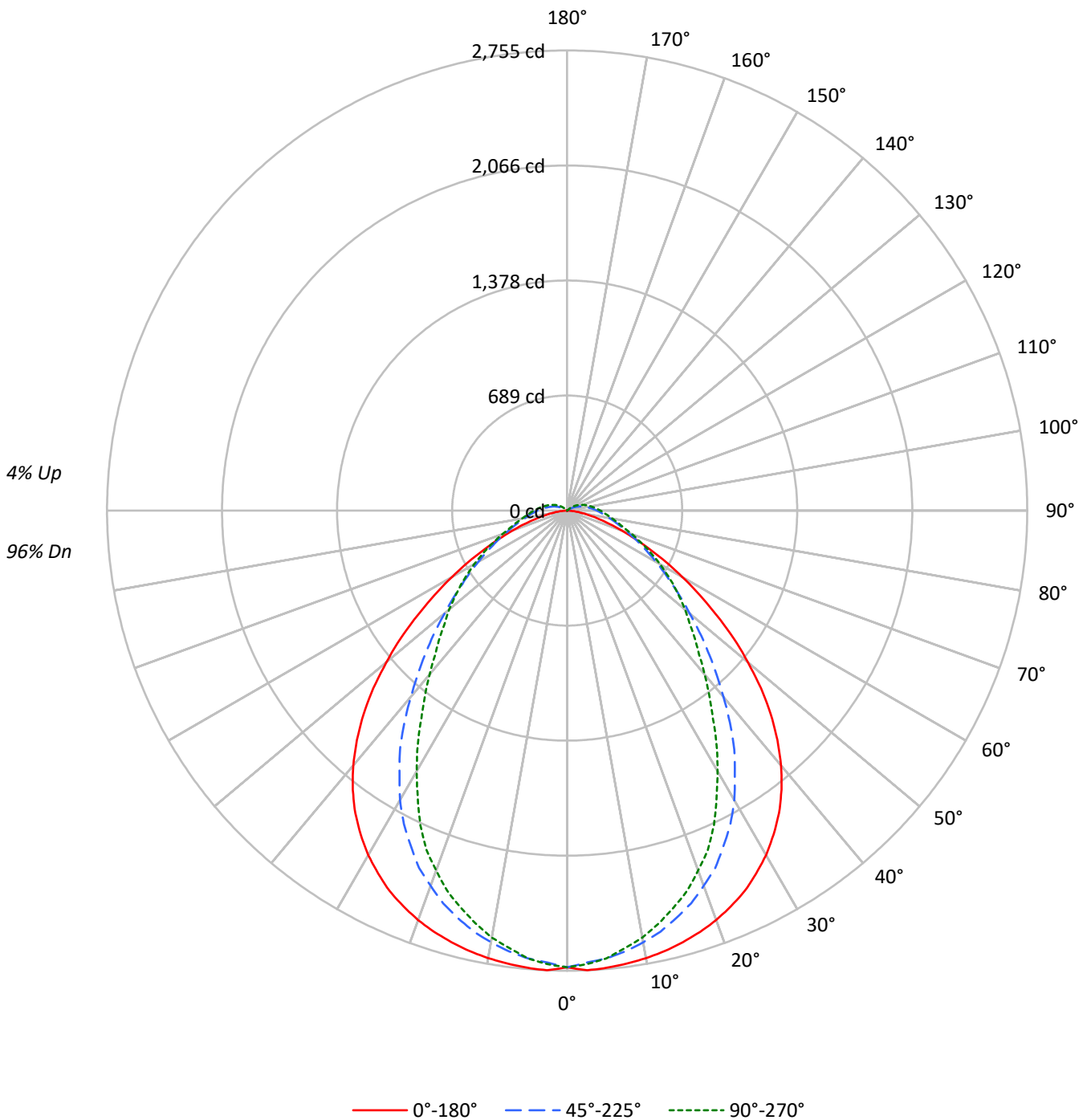
Input Watts (W): 44.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	176602	176602	176602
5°	177479	139567	129236
10°	177127	114443	99813
15°	176892	95648	79419
20°	176605	80532	64167
25°	175767	67678	51696
30°	173462	56313	40575
35°	169438	45858	31584
40°	162364	36104	24814
45°	151214	28213	19719
50°	135138	21810	16058
55°	115955	16973	13044
60°	96028	13312	10486
65°	75976	10476	8282
70°	58640	8294	6511
75°	43147	6736	5184
80°	30264	5555	4298
85°	17468	4686	3664



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	256.7	4.2
10°-20°	718.9	11.7
20°-30°	1036.1	16.8
30°-40°	1122.3	18.2
40°-50°	994.0	16.1
50°-60°	756.4	12.3
60°-70°	503.9	8.2
70°-80°	311.3	5.1
80°-90°	195.1	3.2
90°-100°	128.2	2.1
100°-110°	78.5	1.3
110°-120°	40.5	0.7
120°-130°	13.3	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°	2011.7	32.7
0°-40°	3134.1	50.9
0°-60°	4884.4	79.3
0°-90°	5894.8	95.8
90°-120°	247.3	4.0
90°-150°	261.3	4.2
90°-180°	261.0	4.2
0°-180°	6156.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2734	2734	2734	2734	2734	
5°	2748	2730	2691	2701	2691	261
15°	2675	2624	2526	2492	2461	756
25°	2514	2396	2215	2121	2079	1157
35°	2212	2005	1746	1581	1523	1378
45°	1725	1454	1192	1101	1080	1323
55°	1091	890	766	775	778	980
65°	542	475	489	517	519	547
75°	200	243	315	336	331	221
85°	35	125	213	235	231	42
90°	1	91	177	200	198	2
95°	4	64	147	170	169	2
105°	2	25	92	117	120	3
115°	2	2	47	73	80	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°	2734.5	2734.5	2734.5	2734.5	2734.5
2.5°	2754.8	2739.6	2708.5	2726.6	2717.9
5°	2747.6	2730.2	2691.1	2701.2	2691.1
7.5°	2736.0	2714.3	2662.1	2666.5	2642.6
10°	2720.8	2691.8	2624.5	2617.3	2595.5
12.5°	2701.2	2660.7	2581.8	2552.8	2531.8
15°	2675.2	2624.5	2526.0	2492.0	2460.9
17.5°	2645.5	2580.3	2465.9	2424.7	2387.8
20°	2608.6	2526.8	2390.6	2333.5	2292.9
22.5°	2563.7	2468.1	2316.1	2232.8	2200.2
25°	2514.5	2396.4	2215.4	2120.6	2078.6
27.5°	2450.0	2317.5	2116.3	1997.5	1937.4
30°	2382.0	2224.1	2001.1	1864.3	1800.6
32.5°	2300.1	2122.0	1867.9	1722.4	1665.9
35°	2211.8	2004.8	1745.6	1581.2	1522.6
37.5°	2107.6	1878.1	1600.0	1449.4	1398.0
40°	1993.2	1740.5	1455.2	1322.7	1282.2
42.5°	1862.9	1600.8	1319.1	1204.7	1170.0
45°	1724.6	1454.5	1191.7	1101.2	1079.5
47.5°	1574.0	1308.3	1072.2	1007.8	991.9
50°	1411.8	1162.0	956.4	920.9	921.7
52.5°	1257.6	1023.7	857.9	848.5	846.4
55°	1091.1	890.5	766.0	775.4	777.6
57.5°	940.5	766.7	687.8	705.2	707.3
60°	797.1	655.9	613.2	640.0	643.6
62.5°	666.1	561.1	549.5	577.0	576.3
65°	541.6	474.9	488.7	516.9	519.1
67.5°	435.8	404.7	438.0	462.6	461.2
70°	346.1	341.7	388.8	414.9	413.4
72.5°	269.3	288.9	350.4	372.9	367.1
75°	199.8	243.3	314.9	335.9	330.9
77.5°	147.0	205.6	283.8	304.1	300.5
80°	100.6	174.5	257.0	278.0	273.7
82.5°	64.4	148.4	233.9	254.1	251.2
85°	34.8	125.3	212.9	234.6	231.0
87.5°	13.0	106.4	194.0	215.8	214.3
90°	1.4	91.2	177.4	199.8	198.4
92.5°	2.2	77.5	161.5	184.6	184.6
95°	3.6	64.4	147.0	170.1	169.4
97.5°	2.9	54.3	131.0	156.4	156.4
100°	2.9	44.9	116.6	141.9	143.4
102.5°	2.9	35.5	104.3	128.9	131.8
105°	2.2	25.3	91.9	117.3	120.2
107.5°	2.2	14.5	79.6	106.4	110.0
110°	2.2	3.6	68.8	94.8	99.2



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.2	2.2	57.9	84.0	88.3
115°	2.2	2.2	47.1	73.1	79.6
117.5°	1.4	1.4	34.8	63.7	69.5
120°	1.4	1.4	21.7	53.6	59.4
122.5°	1.4	1.4	9.4	42.7	50.7
125°	1.4	1.4	1.4	31.9	39.8
127.5°	1.4	1.4	0.7	18.8	28.2
130°	1.4	1.4	0.7	7.2	17.4
132.5°	1.4	1.4	0.7	0.7	5.1
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)