

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: P290400

Luminaire Tested: **8SSRK-SLN-50-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290400
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-15)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-SLN-50-L830-CD1-U
Description: 5000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 80 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5169.1 lumens
Efficiency: N/A
Efficacy: 151.1 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 0.98 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

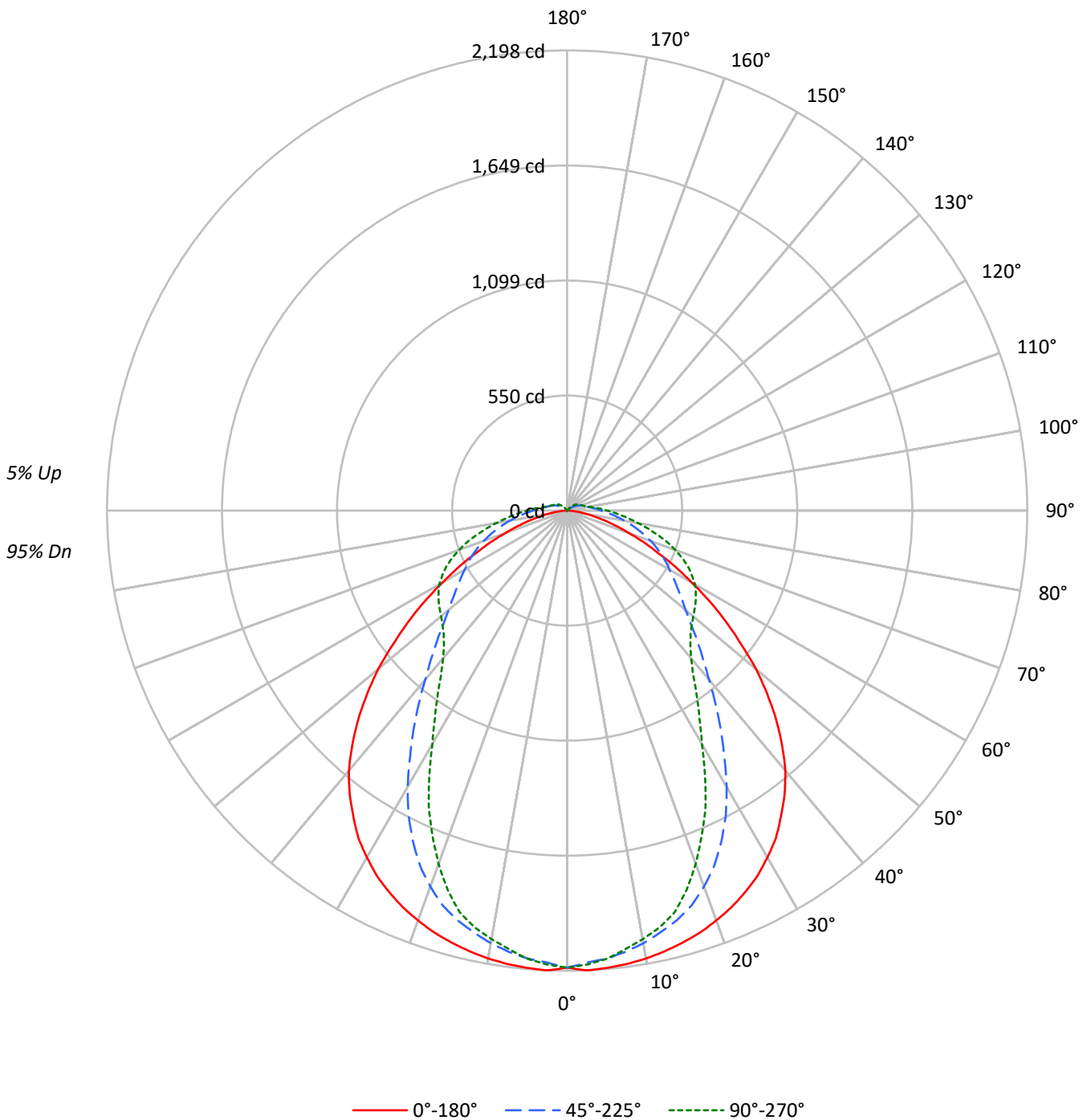
Input Watts (W): 34.1991
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	108	108	108	103	103	103	98	98	98	95
1	107	102	98	94	104	100	96	92	94	91	88	90	87	85	85	83	81	79
2	98	90	83	77	95	87	81	76	83	78	73	79	75	71	75	72	69	66
3	90	79	71	65	87	77	70	64	74	67	62	70	65	60	67	63	59	56
4	82	71	62	56	80	69	61	55	66	59	54	63	57	52	60	55	51	49
5	76	64	55	48	74	62	54	48	60	52	47	57	51	46	55	49	45	43
6	71	58	49	43	68	56	48	42	54	47	42	52	46	41	50	45	40	38
7	66	53	44	38	64	52	44	38	50	42	37	48	41	37	46	40	36	34
8	61	48	40	34	60	47	40	34	46	39	34	44	38	33	43	37	33	31
9	57	44	37	31	56	44	36	31	42	35	31	41	35	30	40	34	30	28
10	54	41	34	28	53	41	33	28	39	33	28	38	32	28	37	31	27	26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	70502	70502	70502
5°	70953	55760	51623
10°	70958	45832	39971
15°	70998	38438	32041
20°	71062	32273	25128
25°	70973	26696	19449
30°	70475	21513	14513
35°	69214	16877	11192
40°	67173	13123	8905
45°	63184	10425	7620
50°	57730	8450	6851
55°	50637	7149	6291
60°	42811	6158	5745
65°	35159	5350	5093
70°	28157	4556	4322
75°	21636	3761	3490
80°	15600	3016	2696
85°	9815	2358	2051



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.0	4.0
10°-20°	574.7	11.1
20°-30°	808.1	15.6
30°-40°	846.3	16.4
40°-50°	766.2	14.8
50°-60°	652.1	12.6
60°-70°	515.6	10.0
70°-80°	351.1	6.8
80°-90°	200.3	3.9
90°-100°	111.1	2.1
100°-110°	67.9	1.3
110°-120°	41.3	0.8
120°-130°	22.4	0.4
130°-140°	6.8	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°	1587.9	30.7
0°-40°	2434.2	47.1
0°-60°	3852.5	74.5
0°-90°	4919.6	95.2
90°-120°	220.3	4.3
90°-150°	249.6	4.8
90°-180°	250.0	4.8
0°-180°	5169.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2183	2183	2183	2183	2183	
5°	2193	2179	2148	2158	2150	209
15°	2136	2095	2026	2005	1986	603
25°	2011	1912	1743	1608	1564	927
35°	1781	1581	1280	1120	1079	1113
45°	1412	1122	877	831	834	1085
55°	926	707	643	717	750	828
65°	481	417	497	607	638	484
75°	187	228	350	430	446	204
85°	33	108	213	255	259	39
90°	1	75	163	190	190	2
95°	1	58	128	142	141	1
105°	1	35	86	90	86	1
115°	1	5	58	68	66	1
125°	1	1	26	47	50	1
135°	1	1	1	19	25	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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	2183.3	2183.3	2183.3	2183.3	2183.3
2.5°	2198.3	2186.3	2161.2	2177.4	2170.2
5°	2192.9	2179.2	2148.1	2157.7	2149.9
7.5°	2184.5	2166.0	2126.0	2129.0	2114.1
10°	2172.0	2148.1	2098.5	2093.2	2078.8
12.5°	2155.9	2123.0	2063.3	2056.1	2039.4
15°	2135.6	2094.9	2025.7	2004.8	1985.7
17.5°	2112.9	2061.5	1977.3	1930.7	1897.9
20°	2083.6	2018.5	1911.0	1843.5	1795.8
22.5°	2050.8	1971.9	1836.4	1734.8	1680.5
25°	2011.3	1911.6	1742.6	1607.6	1564.0
27.5°	1967.7	1848.9	1640.5	1482.8	1424.9
30°	1912.8	1769.5	1524.0	1355.0	1288.1
32.5°	1855.5	1684.1	1397.4	1227.2	1175.3
35°	1781.4	1580.8	1280.4	1120.3	1079.1
37.5°	1706.8	1470.3	1163.9	1024.8	988.4
40°	1621.4	1358.6	1054.0	946.0	920.3
42.5°	1519.9	1245.1	960.9	879.7	870.7
45°	1412.4	1121.5	877.3	831.3	834.3
47.5°	1295.3	1009.3	801.4	792.5	807.4
50°	1177.7	904.7	738.1	763.2	786.5
52.5°	1046.9	803.8	688.0	739.3	767.4
55°	926.2	707.1	642.6	716.6	750.1
57.5°	806.2	624.7	603.2	693.3	728.6
60°	686.8	549.4	564.9	668.3	705.3
62.5°	582.9	477.8	531.5	640.2	672.4
65°	480.7	417.4	496.9	606.7	638.4
67.5°	395.9	363.7	462.2	566.7	595.4
70°	315.3	312.9	425.2	522.5	548.8
72.5°	246.0	266.9	386.4	476.6	501.6
75°	186.9	227.5	350.0	430.0	445.5
77.5°	136.8	190.5	312.9	382.8	393.5
80°	93.8	158.3	277.7	335.6	343.4
82.5°	59.1	130.8	243.7	293.2	298.6
85°	32.8	108.1	213.2	255.0	258.6
87.5°	12.5	89.0	185.7	221.6	224.5
90°	0.6	75.2	163.0	189.9	189.9
92.5°	0.6	65.7	144.5	164.8	166.0
95°	1.2	57.9	128.4	142.1	140.9
97.5°	1.2	52.6	113.5	124.8	121.2
100°	1.2	47.8	102.1	109.9	106.3
102.5°	1.2	42.4	93.2	97.9	93.8
105°	1.2	35.2	86.0	89.6	86.0
107.5°	1.2	28.1	78.2	83.0	79.4
110°	1.2	20.9	71.1	77.0	74.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	13.1	64.5	71.7	69.9
115°	1.2	4.8	57.9	67.5	65.7
117.5°	0.6	2.4	49.6	62.7	62.1
120°	0.6	1.8	41.8	58.5	58.5
122.5°	0.6	1.8	34.6	52.6	54.9
125°	0.6	1.2	26.3	46.6	49.6
127.5°	0.6	1.2	18.5	40.6	44.2
130°	0.6	1.2	9.6	33.4	38.2
132.5°	0.6	1.2	1.2	26.3	31.7
135°	1.2	1.2	1.2	19.1	25.1
137.5°	1.2	1.2	1.2	10.2	17.9
140°	1.2	1.2	0.6	0.6	8.4
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)