

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: P290432

Luminaire Tested: **8SSRK-SLN-12-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290432
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-12-L830-CD1-U
Description: 12000 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: 11576.6 lumens
Efficiency: N/A
Efficacy: 143.1 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

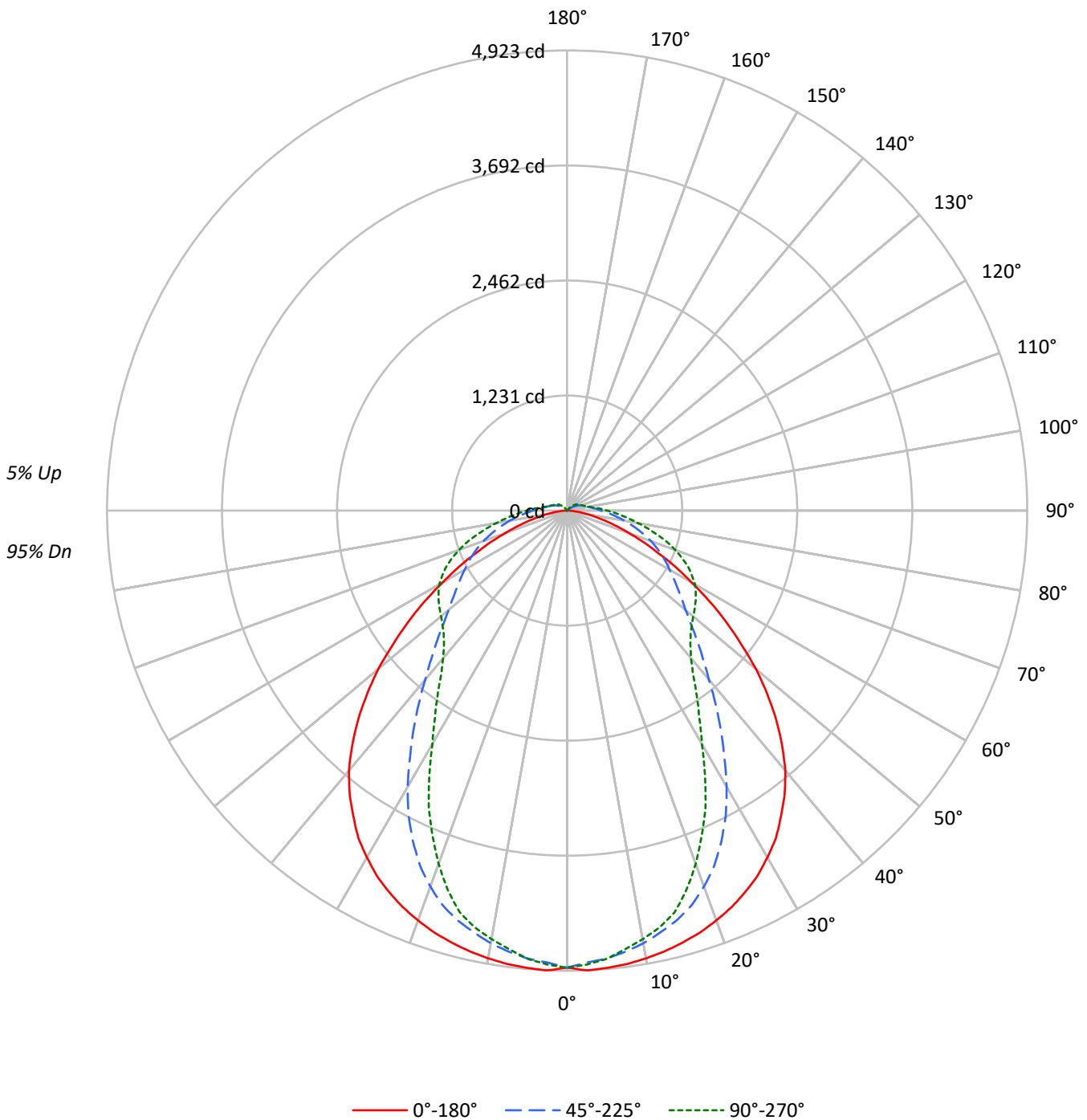
Input Watts (W): 80.8951
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	157896	157896	157896
5°	158903	124879	115612
10°	158915	102646	89520
15°	159001	86084	71757
20°	159149	72279	56274
25°	158953	59787	43558
30°	157835	48180	32504
35°	155011	37796	25066
40°	150438	29391	19943
45°	141502	23346	17065
50°	129289	18924	15344
55°	113411	16010	14089
60°	95875	13792	12867
65°	78750	11980	11405
70°	63065	10204	9679
75°	48459	8421	7815
80°	34925	6753	6038
85°	22024	5281	4592



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	459.2	4.0
10°-20°	1287.1	11.1
20°-30°	1809.9	15.6
30°-40°	1895.3	16.4
40°-50°	1716.0	14.8
50°-60°	1460.5	12.6
60°-70°	1154.8	10.0
70°-80°	786.3	6.8
80°-90°	448.7	3.9
90°-100°	248.8	2.1
100°-110°	152.0	1.3
110°-120°	92.4	0.8
120°-130°	50.1	0.4
130°-140°	15.2	0.1
140°-150°	0.3	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	3556.2	30.7
0°-40°	5451.5	47.1
0°-60°	8628.0	74.5
0°-90°	11017.8	95.2
90°-120°	493.3	4.3
90°-150°	558.8	4.8
90°-180°	559.0	4.8
0°-180°	11576.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4890	4890	4890	4890	4890	
5°	4911	4880	4811	4832	4815	467
15°	4783	4692	4537	4490	4447	1351
25°	4505	4281	3903	3600	3503	2075
35°	3990	3540	2868	2509	2417	2493
45°	3163	2512	1965	1862	1868	2429
55°	2074	1584	1439	1605	1680	1855
65°	1077	935	1113	1359	1430	1084
75°	419	510	784	963	998	457
85°	74	242	478	571	579	88
90°	1	168	365	425	425	4
95°	3	130	288	318	316	2
105°	3	79	193	201	193	3
115°	3	11	130	151	147	2
125°	1	3	59	104	111	1
135°	3	3	3	43	56	2
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°	4889.7	4889.7	4889.7	4889.7	4889.7
2.5°	4923.2	4896.4	4840.3	4876.4	4860.3
5°	4911.1	4880.4	4810.8	4832.2	4814.8
7.5°	4892.4	4851.0	4761.3	4768.0	4734.6
10°	4864.3	4810.8	4699.8	4687.8	4655.7
12.5°	4828.2	4754.7	4620.9	4604.9	4567.4
15°	4782.7	4691.8	4536.7	4489.8	4447.0
17.5°	4731.9	4616.9	4428.3	4324.0	4250.4
20°	4666.4	4520.6	4279.9	4128.7	4021.7
22.5°	4592.8	4416.3	4112.7	3885.3	3763.6
25°	4504.6	4281.2	3902.7	3600.4	3502.8
27.5°	4406.9	4140.8	3674.0	3320.9	3191.2
30°	4283.9	3962.9	3413.2	3034.7	2884.9
32.5°	4155.5	3771.6	3129.6	2748.5	2632.1
35°	3989.6	3540.2	2867.5	2509.1	2416.8
37.5°	3822.5	3292.8	2606.7	2295.1	2213.5
40°	3631.2	3042.7	2360.6	2118.5	2061.0
42.5°	3403.8	2788.6	2152.0	1970.1	1950.0
45°	3163.1	2511.7	1964.7	1861.7	1868.4
47.5°	2900.9	2260.3	1794.9	1774.8	1808.2
50°	2637.5	2026.2	1653.1	1709.3	1761.4
52.5°	2344.6	1800.2	1540.8	1655.8	1718.6
55°	2074.4	1583.5	1439.1	1604.9	1679.8
57.5°	1805.6	1399.0	1350.8	1552.8	1631.7
60°	1538.1	1230.5	1265.2	1496.6	1579.5
62.5°	1305.4	1070.0	1190.3	1433.8	1506.0
65°	1076.7	934.9	1112.8	1358.9	1429.7
67.5°	886.7	814.5	1035.2	1269.2	1333.4
70°	706.2	700.8	952.3	1170.3	1229.1
72.5°	551.0	597.8	865.3	1067.3	1123.5
75°	418.6	509.6	783.7	963.0	997.7
77.5°	306.3	426.6	700.8	857.3	881.4
80°	210.0	354.4	621.9	751.7	769.0
82.5°	132.4	292.9	545.7	656.7	668.7
85°	73.6	242.1	477.5	571.1	579.1
87.5°	28.1	199.3	415.9	496.2	502.9
90°	1.3	168.5	365.1	425.3	425.3
92.5°	1.3	147.1	323.7	369.1	371.8
95°	2.7	129.7	287.6	318.3	315.6
97.5°	2.7	117.7	254.1	279.5	271.5
100°	2.7	107.0	228.7	246.1	238.1
102.5°	2.7	95.0	208.6	219.3	210.0
105°	2.7	78.9	192.6	200.6	192.6
107.5°	2.7	62.9	175.2	185.9	177.9
110°	2.7	46.8	159.2	172.5	165.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.3	29.4	144.4	160.5	156.5
115°	2.7	10.7	129.7	151.1	147.1
117.5°	1.3	5.3	111.0	140.4	139.1
120°	1.3	4.0	93.6	131.1	131.1
122.5°	1.3	4.0	77.6	117.7	123.0
125°	1.3	2.7	58.8	104.3	111.0
127.5°	1.3	2.7	41.5	90.9	99.0
130°	1.3	2.7	21.4	74.9	85.6
132.5°	1.3	2.7	2.7	58.8	70.9
135°	2.7	2.7	2.7	42.8	56.2
137.5°	2.7	2.7	2.7	22.7	40.1
140°	2.7	2.7	1.3	1.3	18.7
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)