

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: P290368

Luminaire Tested: **4SSRK-SLN-40-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290368
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: 4SSRK-SLN-40-L830-CD1-U
Description: 4000 LUMEN, 4 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: 4133.1 lumens
Efficiency: N/A
Efficacy: 149.2 lumens/watt
Spacing Criteria (0/90/45): 1.29 / 0.98 / 1.11
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Direct

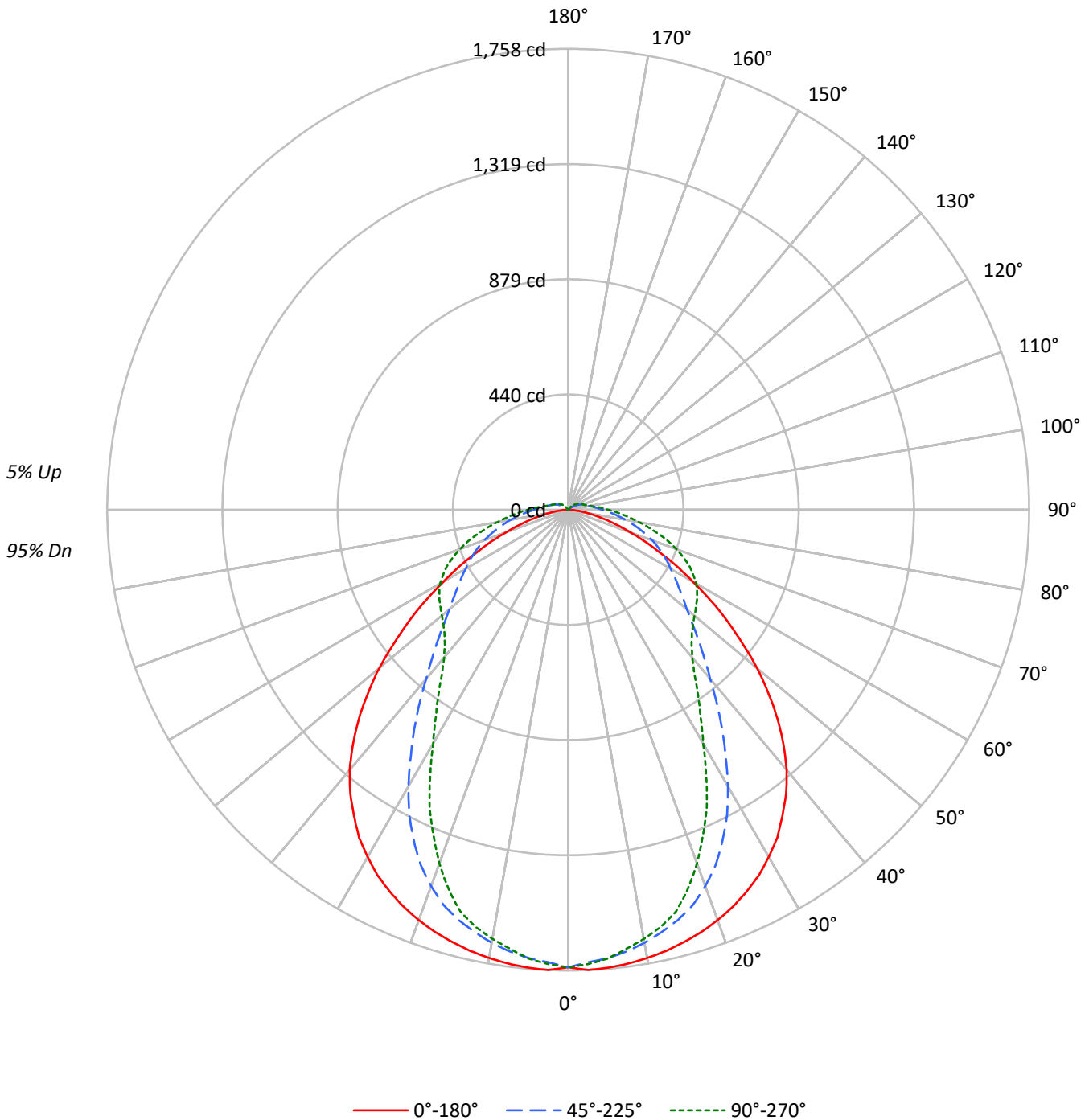
Input Watts (W): 27.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	112742	112742	112742
5°	113259	89074	82553
10°	113054	73166	63922
15°	112905	61330	51239
20°	112790	51474	40181
25°	112415	42564	31103
30°	111374	34293	23210
35°	109118	26893	17897
40°	105604	20910	14240
45°	99018	16605	12186
50°	90130	13459	10957
55°	78706	11385	10059
60°	66151	9806	9187
65°	53924	8517	8143
70°	42714	7253	6911
75°	32284	5985	5580
80°	22562	4798	4312
85°	13201	3753	3280



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	163.9	4.0
10°-20°	459.5	11.1
20°-30°	646.2	15.6
30°-40°	676.7	16.4
40°-50°	612.6	14.8
50°-60°	521.4	12.6
60°-70°	412.3	10.0
70°-80°	280.7	6.8
80°-90°	160.2	3.9
90°-100°	88.8	2.1
100°-110°	54.3	1.3
110°-120°	33.0	0.8
120°-130°	17.9	0.4
130°-140°	5.4	0.1
140°-150°	0.1	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1269.6	30.7
0°-40°	1946.3	47.1
0°-60°	3080.3	74.5
0°-90°	3933.5	95.2
90°-120°	176.1	4.3
90°-150°	199.6	4.8
90°-180°	200.0	4.8
0°-180°	4133.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1746	1746	1746	1746	1746	
5°	1753	1742	1718	1725	1719	167
15°	1708	1675	1620	1603	1588	482
25°	1608	1528	1393	1285	1251	741
35°	1424	1264	1024	896	863	890
45°	1129	897	701	665	667	867
55°	741	565	514	573	600	662
65°	384	334	397	485	510	387
75°	150	182	280	344	356	163
85°	26	86	170	204	207	32
90°	0	60	130	152	152	2
95°	1	46	103	114	113	1
105°	1	28	69	72	69	1
115°	1	4	46	54	52	1
125°	0	1	21	37	40	0
135°	1	1	1	15	20	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



TEST NUMBER: P290368

CATALOG NUMBER: 4SSRK-SLN-40-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1745.7	1745.7	1745.7	1745.7	1745.7
2.5°	1757.7	1748.1	1728.1	1740.9	1735.2
5°	1753.4	1742.4	1717.5	1725.2	1719.0
7.5°	1746.7	1731.9	1699.9	1702.3	1690.3
10°	1736.6	1717.5	1677.9	1673.6	1662.2
12.5°	1723.8	1697.5	1649.7	1644.0	1630.6
15°	1707.5	1675.1	1619.7	1603.0	1587.7
17.5°	1689.4	1648.3	1581.0	1543.7	1517.5
20°	1666.0	1613.9	1528.0	1474.0	1435.8
22.5°	1639.7	1576.7	1468.3	1387.1	1343.7
25°	1608.2	1528.5	1393.3	1285.4	1250.6
27.5°	1573.3	1478.3	1311.7	1185.6	1139.3
30°	1529.4	1414.8	1218.6	1083.4	1030.0
32.5°	1483.6	1346.5	1117.3	981.3	939.7
35°	1424.4	1263.9	1023.7	895.8	862.8
37.5°	1364.7	1175.6	930.6	819.4	790.3
40°	1296.4	1086.3	842.8	756.4	735.8
42.5°	1215.2	995.6	768.3	703.4	696.2
45°	1129.3	896.7	701.4	664.7	667.1
47.5°	1035.7	807.0	640.8	633.6	645.6
50°	941.6	723.4	590.2	610.2	628.9
52.5°	837.0	642.7	550.1	591.1	613.6
55°	740.6	565.4	513.8	573.0	599.7
57.5°	644.6	499.5	482.3	554.4	582.5
60°	549.1	439.3	451.7	534.3	563.9
62.5°	466.0	382.0	425.0	511.9	537.7
65°	384.4	333.8	397.3	485.1	510.4
67.5°	316.6	290.8	369.6	453.1	476.1
70°	252.1	250.2	340.0	417.8	438.8
72.5°	196.7	213.4	308.9	381.0	401.1
75°	149.5	181.9	279.8	343.8	356.2
77.5°	109.3	152.3	250.2	306.1	314.7
80°	75.0	126.5	222.0	268.4	274.6
82.5°	47.3	104.6	194.8	234.5	238.7
85°	26.3	86.4	170.5	203.9	206.8
87.5°	10.0	71.1	148.5	177.2	179.5
90°	0.5	60.2	130.4	151.8	151.8
92.5°	0.5	52.5	115.6	131.8	132.7
95°	1.0	46.3	102.7	113.6	112.7
97.5°	1.0	42.0	90.7	99.8	96.9
100°	1.0	38.2	81.7	87.9	85.0
102.5°	1.0	33.9	74.5	78.3	75.0
105°	1.0	28.2	68.8	71.6	68.8
107.5°	1.0	22.4	62.6	66.4	63.5
110°	1.0	16.7	56.8	61.6	59.2



TEST NUMBER: P290368

CATALOG NUMBER: 4SSRK-SLN-40-L830-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	10.5	51.6	57.3	55.9
115°	1.0	3.8	46.3	54.0	52.5
117.5°	0.5	1.9	39.6	50.1	49.7
120°	0.5	1.4	33.4	46.8	46.8
122.5°	0.5	1.4	27.7	42.0	43.9
125°	0.5	1.0	21.0	37.2	39.6
127.5°	0.5	1.0	14.8	32.5	35.3
130°	0.5	1.0	7.6	26.7	30.6
132.5°	0.5	1.0	1.0	21.0	25.3
135°	1.0	1.0	1.0	15.3	20.1
137.5°	1.0	1.0	1.0	8.1	14.3
140°	1.0	1.0	0.5	0.5	6.7
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)