

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: P290393

Luminaire Tested: **8SSRK-SLN-40-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290393
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-40-L835-CD1-U
Description: 4000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 80 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4176.9 lumens
Efficiency: N/A
Efficacy: 154.6 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

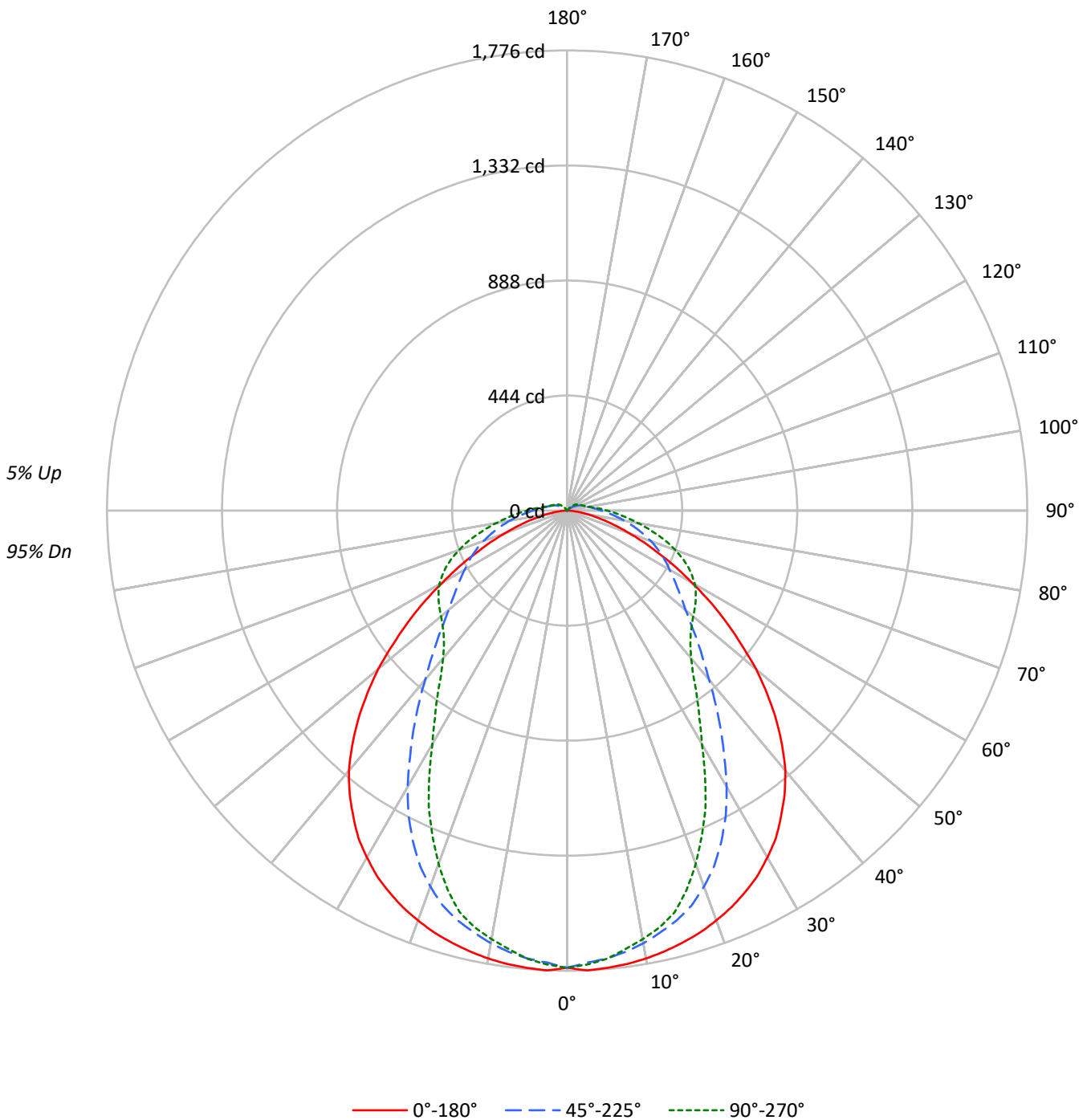
Input Watts (W): 27.0151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	56969	56969	56969
5°	57335	45058	41713
10°	57338	37035	32299
15°	57368	31058	25890
20°	57420	26078	20305
25°	57352	21571	15716
30°	56946	17384	11728
35°	55930	13637	9044
40°	54277	10604	7195
45°	51052	8424	6157
50°	46647	6827	5536
55°	40916	5776	5083
60°	34589	4976	4642
65°	28415	4323	4116
70°	22754	3682	3492
75°	17480	3039	2820
80°	12606	2437	2179
85°	7930	1906	1657



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.7	4.0
10°-20°	464.4	11.1
20°-30°	653.0	15.6
30°-40°	683.9	16.4
40°-50°	619.1	14.8
50°-60°	526.9	12.6
60°-70°	416.7	10.0
70°-80°	283.7	6.8
80°-90°	161.9	3.9
90°-100°	89.8	2.1
100°-110°	54.9	1.3
110°-120°	33.4	0.8
120°-130°	18.1	0.4
130°-140°	5.5	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°	1283.1	30.7
0°-40°	1966.9	47.1
0°-60°	3113.0	74.5
0°-90°	3975.2	95.2
90°-120°	178.0	4.3
90°-150°	201.7	4.8
90°-180°	202.0	4.8
0°-180°	4176.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1764	1764	1764	1764	1764	
5°	1772	1761	1736	1744	1737	169
15°	1726	1693	1637	1620	1604	488
25°	1625	1545	1408	1299	1264	749
35°	1440	1277	1035	905	872	899
45°	1141	906	709	672	674	877
55°	748	571	519	579	606	669
65°	388	337	402	490	516	391
75°	151	184	283	347	360	165
85°	26	87	172	206	209	32
90°	0	61	132	154	154	2
95°	1	47	104	115	114	1
105°	1	28	70	72	70	1
115°	1	4	47	54	53	1
125°	0	1	21	38	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



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1764.2	1764.2	1764.2	1764.2	1764.2
2.5°	1776.3	1766.6	1746.4	1759.4	1753.6
5°	1772.0	1760.9	1735.8	1743.5	1737.2
7.5°	1765.2	1750.2	1717.9	1720.3	1708.3
10°	1755.1	1735.8	1695.7	1691.4	1679.8
12.5°	1742.0	1715.5	1667.2	1661.4	1647.9
15°	1725.6	1692.8	1636.8	1619.9	1604.5
17.5°	1707.3	1665.8	1597.7	1560.1	1533.6
20°	1683.6	1631.0	1544.2	1489.7	1451.1
22.5°	1657.1	1593.4	1483.9	1401.8	1357.9
25°	1625.3	1544.7	1408.1	1299.0	1263.8
27.5°	1590.0	1494.0	1325.6	1198.2	1151.4
30°	1545.6	1429.8	1231.5	1094.9	1040.9
32.5°	1499.3	1360.8	1129.2	991.7	949.7
35°	1439.5	1277.3	1034.6	905.3	872.0
37.5°	1379.2	1188.1	940.5	828.1	798.6
40°	1310.1	1097.8	851.7	764.4	743.6
42.5°	1228.1	1006.1	776.4	710.8	703.6
45°	1141.2	906.2	708.9	671.7	674.1
47.5°	1046.7	815.5	647.6	640.4	652.4
50°	951.6	731.1	596.4	616.7	635.5
52.5°	845.9	649.5	555.9	597.4	620.1
55°	748.4	571.3	519.2	579.1	606.1
57.5°	651.5	504.8	487.4	560.2	588.7
60°	554.9	444.0	456.5	540.0	569.9
62.5°	471.0	386.0	429.5	517.3	543.4
65°	388.5	337.3	401.5	490.3	515.9
67.5°	319.9	293.9	373.5	457.9	481.1
70°	254.8	252.9	343.6	422.2	443.5
72.5°	198.8	215.7	312.2	385.1	405.3
75°	151.0	183.9	282.8	347.4	360.0
77.5°	110.5	153.9	252.9	309.3	318.0
80°	75.8	127.9	224.4	271.2	277.5
82.5°	47.8	105.7	196.9	236.9	241.3
85°	26.5	87.3	172.3	206.1	208.9
87.5°	10.1	71.9	150.1	179.0	181.4
90°	0.5	60.8	131.7	153.5	153.5
92.5°	0.5	53.1	116.8	133.2	134.2
95°	1.0	46.8	103.7	114.8	113.9
97.5°	1.0	42.5	91.7	100.9	98.0
100°	1.0	38.6	82.5	88.8	85.9
102.5°	1.0	34.3	75.3	79.1	75.8
105°	1.0	28.5	69.5	72.4	69.5
107.5°	1.0	22.7	63.2	67.1	64.2
110°	1.0	16.9	57.4	62.2	59.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.5	10.6	52.1	57.9	56.5
115°	1.0	3.9	46.8	54.5	53.1
117.5°	0.5	1.9	40.1	50.7	50.2
120°	0.5	1.4	33.8	47.3	47.3
122.5°	0.5	1.4	28.0	42.5	44.4
125°	0.5	1.0	21.2	37.6	40.1
127.5°	0.5	1.0	15.0	32.8	35.7
130°	0.5	1.0	7.7	27.0	30.9
132.5°	0.5	1.0	1.0	21.2	25.6
135°	1.0	1.0	1.0	15.4	20.3
137.5°	1.0	1.0	1.0	8.2	14.5
140°	1.0	1.0	0.5	0.5	6.8
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)