

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: P290417

Luminaire Tested: **8SSRK-SLN-80-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290417
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-80-L835-CD1-U
Description: 8000 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: 8642.7 lumens
Efficiency: N/A
Efficacy: 152.6 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

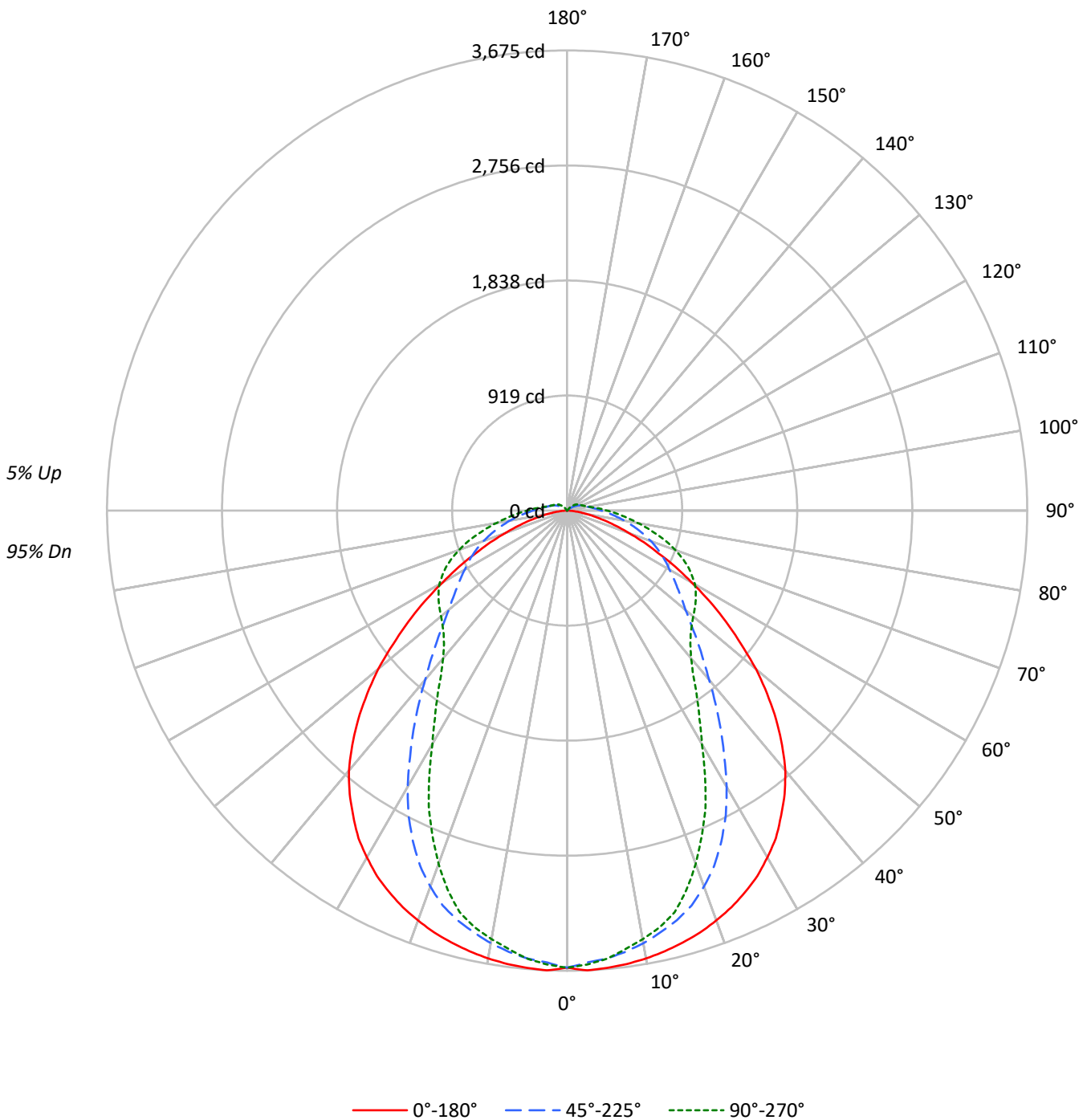
Input Watts (W): 56.6491
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	117880	117880	117880
5°	118633	93231	86313
10°	118640	76632	66831
15°	118705	64267	53572
20°	118813	53960	42013
25°	118666	44635	32518
30°	117834	35969	24266
35°	115726	28217	18714
40°	112311	21942	14889
45°	105637	17430	12740
50°	96520	14128	11455
55°	84670	11953	10518
60°	71578	10297	9606
65°	58790	8943	8515
70°	47080	7617	7226
75°	36176	6287	5835
80°	26077	5042	4507
85°	16429	3943	3428



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.8	4.0
10°-20°	960.9	11.1
20°-30°	1351.2	15.6
30°-40°	1415.0	16.4
40°-50°	1281.1	14.8
50°-60°	1090.3	12.6
60°-70°	862.2	10.0
70°-80°	587.0	6.8
80°-90°	335.0	3.9
90°-100°	185.8	2.1
100°-110°	113.5	1.3
110°-120°	69.0	0.8
120°-130°	37.4	0.4
130°-140°	11.3	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°	2654.9	30.7
0°-40°	4069.9	47.1
0°-60°	6441.3	74.5
0°-90°	8225.4	95.2
90°-120°	368.3	4.3
90°-150°	417.2	4.8
90°-180°	417.0	4.8
0°-180°	8642.7	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3650	3650	3650	3650	3650	
5°	3666	3644	3592	3608	3595	349
15°	3571	3503	3387	3352	3320	1009
25°	3363	3196	2914	2688	2615	1549
35°	2978	2643	2141	1873	1804	1861
45°	2361	1875	1467	1390	1395	1814
55°	1549	1182	1074	1198	1254	1385
65°	804	698	831	1014	1067	810
75°	312	380	585	719	745	341
85°	55	181	356	426	432	66
90°	1	126	273	318	318	3
95°	2	97	215	238	236	1
105°	2	59	144	150	144	2
115°	2	8	97	113	110	1
125°	1	2	44	78	83	1
135°	2	2	2	32	42	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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CATALOG NUMBER: 8SSRK-SLN-80-L835-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3650.5	3650.5	3650.5	3650.5	3650.5
2.5°	3675.4	3655.5	3613.5	3640.5	3628.5
5°	3666.5	3643.5	3591.6	3607.5	3594.6
7.5°	3652.5	3621.5	3554.6	3559.6	3534.7
10°	3631.5	3591.6	3508.7	3499.7	3475.7
12.5°	3604.6	3549.6	3449.8	3437.8	3409.8
15°	3570.6	3502.7	3386.9	3351.9	3320.0
17.5°	3532.7	3446.8	3306.0	3228.1	3173.2
20°	3483.7	3374.9	3195.2	3082.3	3002.5
22.5°	3428.8	3297.0	3070.4	2900.6	2809.8
25°	3362.9	3196.2	2913.6	2687.9	2615.0
27.5°	3290.0	3091.3	2742.9	2479.3	2382.4
30°	3198.2	2958.5	2548.1	2265.6	2153.7
32.5°	3102.3	2815.7	2336.5	2051.9	1965.0
35°	2978.5	2643.0	2140.8	1873.2	1804.3
37.5°	2853.7	2458.3	1946.1	1713.4	1652.5
40°	2710.9	2271.6	1762.3	1581.6	1538.7
42.5°	2541.2	2081.9	1606.6	1470.8	1455.8
45°	2361.4	1875.2	1466.8	1389.9	1394.9
47.5°	2165.7	1687.4	1340.0	1325.0	1350.0
50°	1969.0	1512.7	1234.1	1276.1	1315.0
52.5°	1750.4	1344.0	1150.3	1236.1	1283.1
55°	1548.7	1182.2	1074.4	1198.2	1254.1
57.5°	1348.0	1044.4	1008.5	1159.2	1218.2
60°	1148.3	918.6	944.6	1117.3	1179.2
62.5°	974.5	798.8	888.7	1070.4	1124.3
65°	803.8	697.9	830.7	1014.5	1067.4
67.5°	662.0	608.1	772.8	947.6	995.5
70°	527.2	523.2	710.9	873.7	917.6
72.5°	411.4	446.3	646.0	796.8	838.7
75°	312.5	380.4	585.1	718.9	744.9
77.5°	228.7	318.5	523.2	640.0	658.0
80°	156.8	264.6	464.3	561.2	574.1
82.5°	98.9	218.7	407.4	490.3	499.2
85°	54.9	180.7	356.5	426.4	432.3
87.5°	21.0	148.8	310.5	370.4	375.4
90°	1.0	125.8	272.6	317.5	317.5
92.5°	1.0	109.8	241.6	275.6	277.6
95°	2.0	96.9	214.7	237.6	235.6
97.5°	2.0	87.9	189.7	208.7	202.7
100°	2.0	79.9	170.7	183.7	177.7
102.5°	2.0	70.9	155.8	163.8	156.8
105°	2.0	58.9	143.8	149.8	143.8
107.5°	2.0	46.9	130.8	138.8	132.8
110°	2.0	34.9	118.8	128.8	123.8



TEST NUMBER: P290417

CATALOG NUMBER: 8SSRK-SLN-80-L835-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	22.0	107.8	119.8	116.8
115°	2.0	8.0	96.9	112.8	109.8
117.5°	1.0	4.0	82.9	104.8	103.8
120°	1.0	3.0	69.9	97.9	97.9
122.5°	1.0	3.0	57.9	87.9	91.9
125°	1.0	2.0	43.9	77.9	82.9
127.5°	1.0	2.0	31.0	67.9	73.9
130°	1.0	2.0	16.0	55.9	63.9
132.5°	1.0	2.0	2.0	43.9	52.9
135°	2.0	2.0	2.0	32.0	41.9
137.5°	2.0	2.0	2.0	17.0	30.0
140°	2.0	2.0	1.0	1.0	14.0
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)