

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: P290425

Luminaire Tested: **8SSRK-SLN-10-L835-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290425
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-10-L835-CD1-U
Description: 10000 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: 10605.0 lumens
Efficiency: N/A
Efficacy: 147.5 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

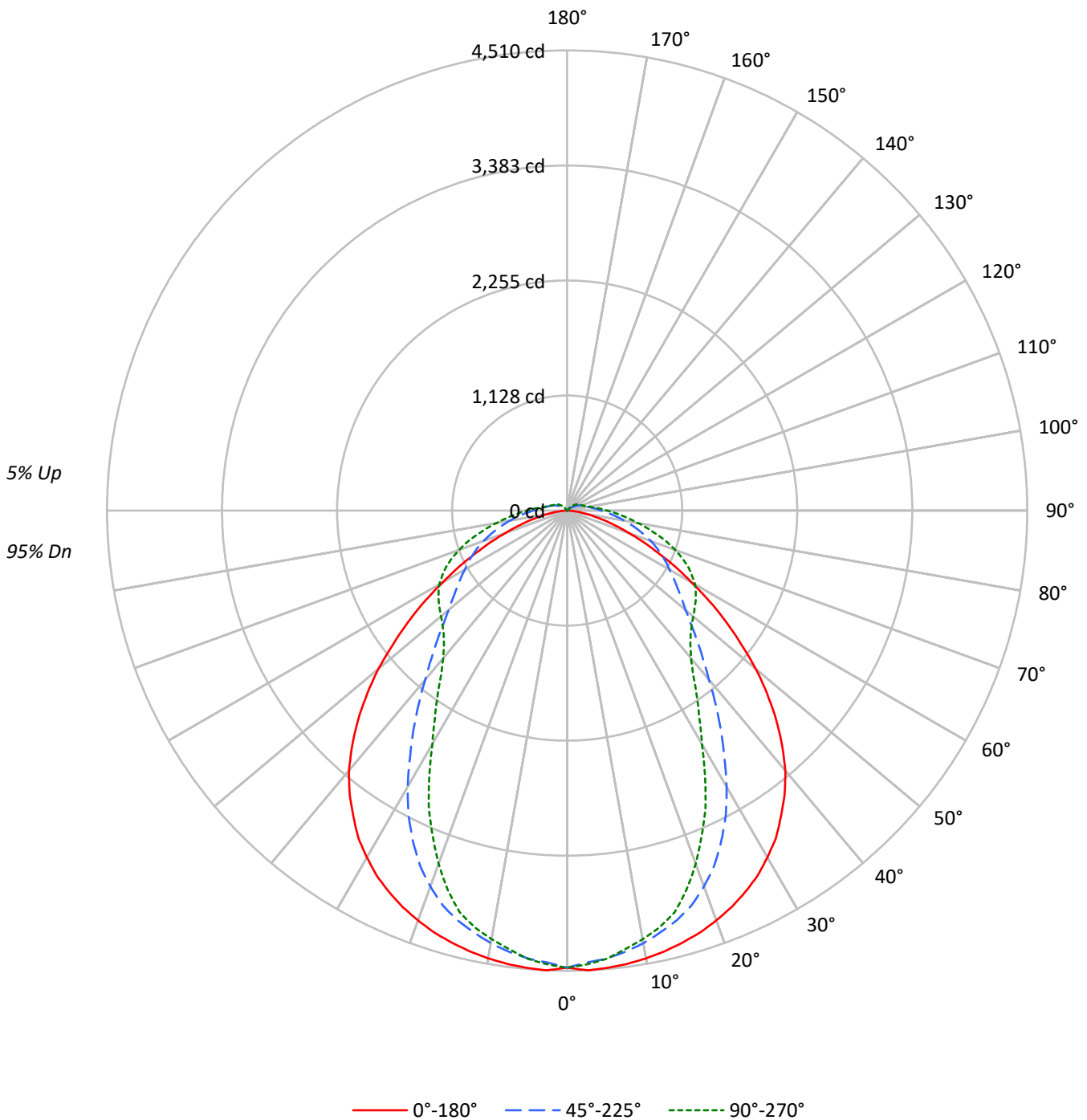
Input Watts (W): 71.9151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	144643	144643	144643
5°	145566	114399	105909
10°	145579	94032	82006
15°	145656	78858	65735
20°	145790	66211	51551
25°	145611	54769	39902
30°	144586	44136	29777
35°	142003	34623	22962
40°	137810	26924	18269
45°	129624	21387	15633
50°	118436	17337	14056
55°	103893	14666	12907
60°	87828	12634	11787
65°	72138	10975	10448
70°	57770	9347	8867
75°	44395	7715	7159
80°	31998	6187	5531
85°	20169	4838	4207



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.6	4.0
10°-20°	1179.1	11.1
20°-30°	1658.0	15.6
30°-40°	1736.3	16.4
40°-50°	1571.9	14.8
50°-60°	1337.9	12.6
60°-70°	1057.9	10.0
70°-80°	720.3	6.8
80°-90°	411.0	3.9
90°-100°	228.0	2.1
100°-110°	139.3	1.3
110°-120°	84.7	0.8
120°-130°	45.9	0.4
130°-140°	13.9	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°	3257.7	30.7
0°-40°	4994.0	47.1
0°-60°	7903.8	74.5
0°-90°	10093.0	95.2
90°-120°	451.9	4.3
90°-150°	512.0	4.8
90°-180°	512.0	4.8
0°-180°	10605.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	4479	4479	4479	4479	4479	
5°	4499	4471	4407	4427	4411	428
15°	4381	4298	4156	4113	4074	1238
25°	4126	3922	3575	3298	3209	1901
35°	3655	3243	2627	2298	2214	2284
45°	2898	2301	1800	1706	1712	2225
55°	1900	1451	1318	1470	1539	1699
65°	986	856	1019	1245	1310	993
75°	384	467	718	882	914	418
85°	67	222	437	523	530	81
90°	1	154	334	390	390	4
95°	2	119	263	292	289	2
105°	2	72	176	184	176	3
115°	2	10	119	138	135	2
125°	1	2	54	96	102	1
135°	2	2	2	39	52	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°	4479.3	4479.3	4479.3	4479.3	4479.3
2.5°	4510.0	4485.5	4434.0	4467.1	4452.4
5°	4498.9	4470.8	4407.1	4426.7	4410.7
7.5°	4481.8	4443.8	4361.7	4367.8	4337.2
10°	4456.1	4407.1	4305.4	4294.3	4264.9
12.5°	4423.0	4355.6	4233.1	4218.4	4184.1
15°	4381.3	4298.0	4155.9	4113.0	4073.8
17.5°	4334.8	4229.4	4056.6	3961.1	3893.7
20°	4274.7	4141.2	3920.6	3782.2	3684.2
22.5°	4207.3	4045.6	3767.5	3559.2	3447.7
25°	4126.5	3921.9	3575.1	3298.2	3208.8
27.5°	4037.0	3793.2	3365.6	3042.2	2923.3
30°	3924.3	3630.3	3126.7	2780.0	2642.8
32.5°	3806.7	3455.1	2867.0	2517.8	2411.2
35°	3654.8	3243.1	2626.8	2298.5	2213.9
37.5°	3501.6	3016.4	2387.9	2102.4	2027.7
40°	3326.4	2787.3	2162.5	1940.7	1888.0
42.5°	3118.1	2554.5	1971.4	1804.7	1786.3
45°	2897.6	2300.9	1799.8	1705.5	1711.6
47.5°	2657.5	2070.6	1644.2	1625.8	1656.5
50°	2416.1	1856.2	1514.4	1565.8	1613.6
52.5°	2147.8	1649.1	1411.4	1516.8	1574.4
55°	1900.3	1450.6	1318.3	1470.2	1538.9
57.5°	1654.0	1281.6	1237.5	1422.5	1494.7
60°	1409.0	1127.2	1159.0	1371.0	1447.0
62.5°	1195.8	980.2	1090.4	1313.4	1379.6
65°	986.3	856.4	1019.4	1244.8	1309.7
67.5°	812.3	746.1	948.3	1162.7	1221.5
70°	646.9	642.0	872.3	1072.1	1126.0
72.5°	504.8	547.7	792.7	977.7	1029.2
75°	383.5	466.8	718.0	882.1	914.0
77.5°	280.6	390.8	642.0	785.4	807.4
80°	192.4	324.7	569.7	688.6	704.5
82.5°	121.3	268.3	499.9	601.6	612.6
85°	67.4	221.8	437.4	523.2	530.5
87.5°	25.7	182.6	381.0	454.6	460.7
90°	1.2	154.4	334.5	389.6	389.6
92.5°	1.2	134.8	296.5	338.2	340.6
95°	2.5	118.8	263.4	291.6	289.1
97.5°	2.5	107.8	232.8	256.1	248.7
100°	2.5	98.0	209.5	225.4	218.1
102.5°	2.5	87.0	191.1	200.9	192.4
105°	2.5	72.3	176.4	183.8	176.4
107.5°	2.5	57.6	160.5	170.3	163.0
110°	2.5	42.9	145.8	158.1	151.9



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.2	27.0	132.3	147.0	143.3
115°	2.5	9.8	118.8	138.4	134.8
117.5°	1.2	4.9	101.7	128.6	127.4
120°	1.2	3.7	85.8	120.1	120.1
122.5°	1.2	3.7	71.1	107.8	112.7
125°	1.2	2.5	53.9	95.6	101.7
127.5°	1.2	2.5	38.0	83.3	90.7
130°	1.2	2.5	19.6	68.6	78.4
132.5°	1.2	2.5	2.5	53.9	64.9
135°	2.5	2.5	2.5	39.2	51.5
137.5°	2.5	2.5	2.5	20.8	36.8
140°	2.5	2.5	1.2	1.2	17.2
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)