

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: P290416

Luminaire Tested: **8SSRK-SLN-80-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290416
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-L830-CD1-U
Description: 8000 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: 8496.1 lumens
Efficiency: N/A
Efficacy: 150.0 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

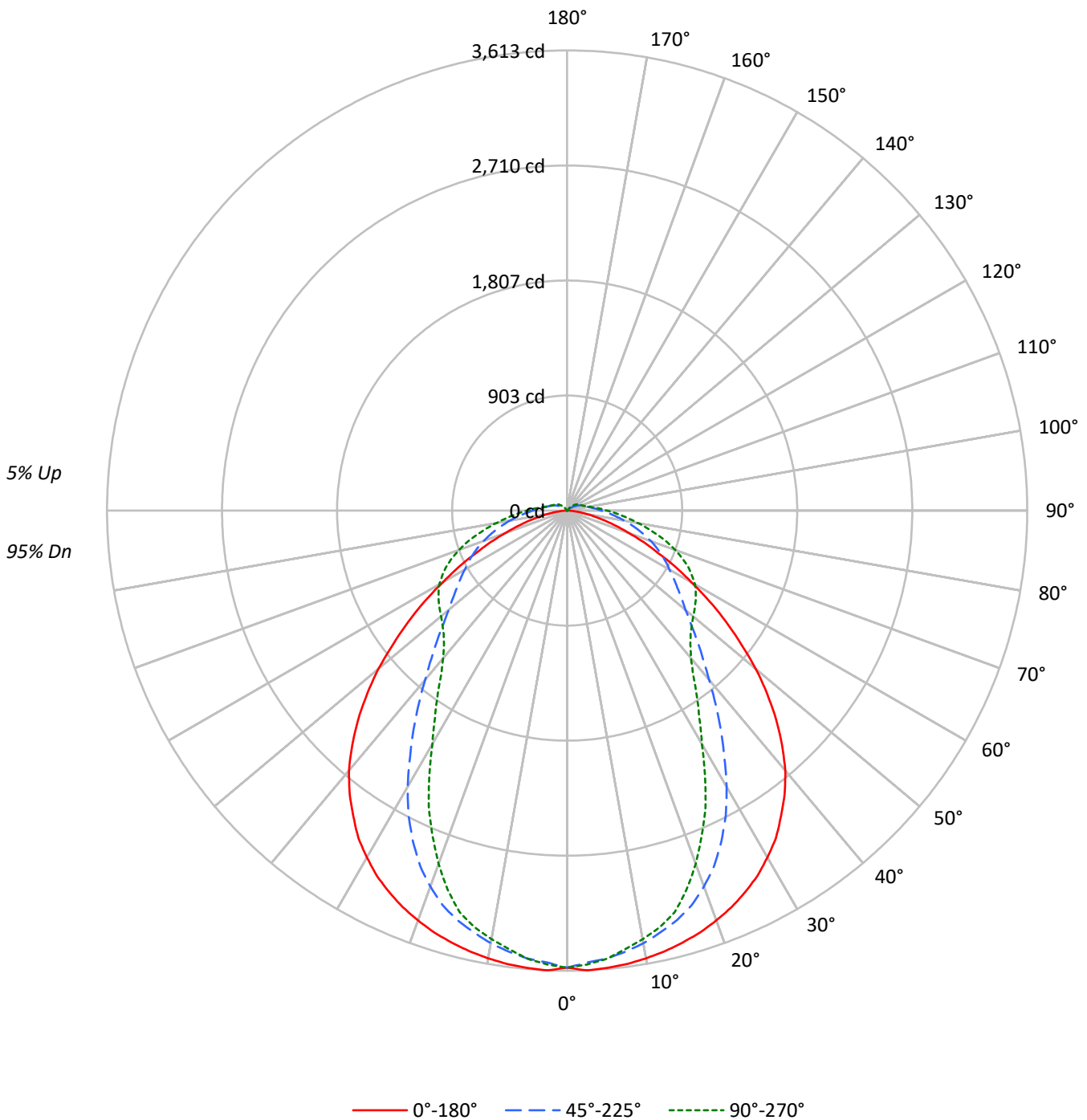
Input Watts (W): 56.6491
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	115881	115881	115881
5°	116620	91650	84848
10°	116627	75332	65698
15°	116693	63176	52663
20°	116800	53045	41299
25°	116655	43878	31967
30°	115833	35359	23855
35°	113764	27739	18396
40°	110405	21571	14636
45°	103848	17134	12524
50°	94882	13888	11261
55°	83232	11750	10340
60°	70362	10123	9443
65°	57796	8793	8371
70°	46285	7489	7104
75°	35563	6181	5735
80°	25628	4956	4431
85°	16159	3876	3370



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	337.0	4.0
10°-20°	944.6	11.1
20°-30°	1328.3	15.6
30°-40°	1391.0	16.4
40°-50°	1259.3	14.8
50°-60°	1071.9	12.6
60°-70°	847.5	10.0
70°-80°	577.1	6.8
80°-90°	329.3	3.9
90°-100°	182.6	2.1
100°-110°	111.6	1.3
110°-120°	67.8	0.8
120°-130°	36.8	0.4
130°-140°	11.1	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°	2609.9	30.7
0°-40°	4000.9	47.1
0°-60°	6332.1	74.5
0°-90°	8086.0	95.2
90°-120°	362.0	4.3
90°-150°	410.2	4.8
90°-180°	410.0	4.8
0°-180°	8496.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3589	3589	3589	3589	3589	
5°	3604	3582	3531	3546	3534	343
15°	3510	3443	3329	3295	3264	992
25°	3306	3142	2864	2642	2571	1523
35°	2928	2598	2104	1841	1774	1830
45°	2321	1843	1442	1366	1371	1783
55°	1522	1162	1056	1178	1233	1361
65°	790	686	817	997	1049	796
75°	307	374	575	707	732	335
85°	54	178	350	419	425	65
90°	1	124	268	312	312	3
95°	2	95	211	234	232	1
105°	2	58	141	147	141	2
115°	2	8	95	111	108	1
125°	1	2	43	77	82	1
135°	2	2	2	31	41	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°	3588.6	3588.6	3588.6	3588.6	3588.6
2.5°	3613.1	3593.5	3552.3	3578.8	3567.0
5°	3604.3	3581.7	3530.7	3546.4	3533.6
7.5°	3590.5	3560.1	3494.3	3499.3	3474.7
10°	3569.9	3530.7	3449.2	3440.4	3416.8
12.5°	3543.4	3489.4	3391.3	3379.5	3352.0
15°	3510.1	3443.3	3329.4	3295.1	3263.7
17.5°	3472.8	3388.3	3249.9	3173.4	3119.4
20°	3424.7	3317.7	3141.0	3030.1	2951.5
22.5°	3370.7	3241.1	3018.3	2851.4	2762.1
25°	3305.9	3142.0	2864.2	2642.4	2570.7
27.5°	3234.2	3038.9	2696.3	2437.2	2342.0
30°	3143.9	2908.4	2504.9	2227.2	2117.2
32.5°	3049.7	2768.0	2296.8	2017.1	1931.7
35°	2928.0	2598.2	2104.5	1841.4	1773.7
37.5°	2805.3	2416.6	1913.1	1684.4	1624.5
40°	2664.9	2233.0	1732.5	1554.8	1512.6
42.5°	2498.1	2046.5	1579.3	1445.8	1431.1
45°	2321.4	1843.4	1441.9	1366.3	1371.2
47.5°	2129.0	1658.8	1317.3	1302.5	1327.1
50°	1935.6	1487.1	1213.2	1254.4	1292.7
52.5°	1720.7	1321.2	1130.8	1215.2	1261.3
55°	1522.4	1162.2	1056.2	1177.9	1232.8
57.5°	1325.1	1026.7	991.4	1139.6	1197.5
60°	1128.8	903.0	928.6	1098.4	1159.2
62.5°	958.0	785.2	873.6	1052.2	1105.2
65°	790.2	686.1	816.7	997.3	1049.3
67.5°	650.8	597.8	759.7	931.5	978.6
70°	518.3	514.3	698.9	858.9	902.1
72.5°	404.4	438.8	635.1	783.3	824.5
75°	307.2	374.0	575.2	706.7	732.2
77.5°	224.8	313.1	514.3	629.2	646.8
80°	154.1	260.1	456.4	551.6	564.4
82.5°	97.2	215.0	400.5	481.9	490.8
85°	54.0	177.7	350.4	419.1	425.0
87.5°	20.6	146.3	305.3	364.2	369.1
90°	1.0	123.7	268.0	312.1	312.1
92.5°	1.0	108.0	237.5	270.9	272.9
95°	2.0	95.2	211.0	233.6	231.6
97.5°	2.0	86.4	186.5	205.1	199.3
100°	2.0	78.5	167.8	180.6	174.7
102.5°	2.0	69.7	153.1	161.0	154.1
105°	2.0	57.9	141.3	147.2	141.3
107.5°	2.0	46.1	128.6	136.4	130.5
110°	2.0	34.4	116.8	126.6	121.7



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.0	21.6	106.0	117.8	114.8
115°	2.0	7.9	95.2	110.9	108.0
117.5°	1.0	3.9	81.5	103.1	102.1
120°	1.0	2.9	68.7	96.2	96.2
122.5°	1.0	2.9	56.9	86.4	90.3
125°	1.0	2.0	43.2	76.6	81.5
127.5°	1.0	2.0	30.4	66.7	72.6
130°	1.0	2.0	15.7	55.0	62.8
132.5°	1.0	2.0	2.0	43.2	52.0
135°	2.0	2.0	2.0	31.4	41.2
137.5°	2.0	2.0	2.0	16.7	29.4
140°	2.0	2.0	1.0	1.0	13.7
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)