

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: P290380

Luminaire Tested: **4SSRK-SLN-80-L930-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290380
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-80-L930-CD1-U
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH SQUARE NARROW LENS AND 90 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6735.5 lumens
Efficiency: N/A
Efficacy: 107.1 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

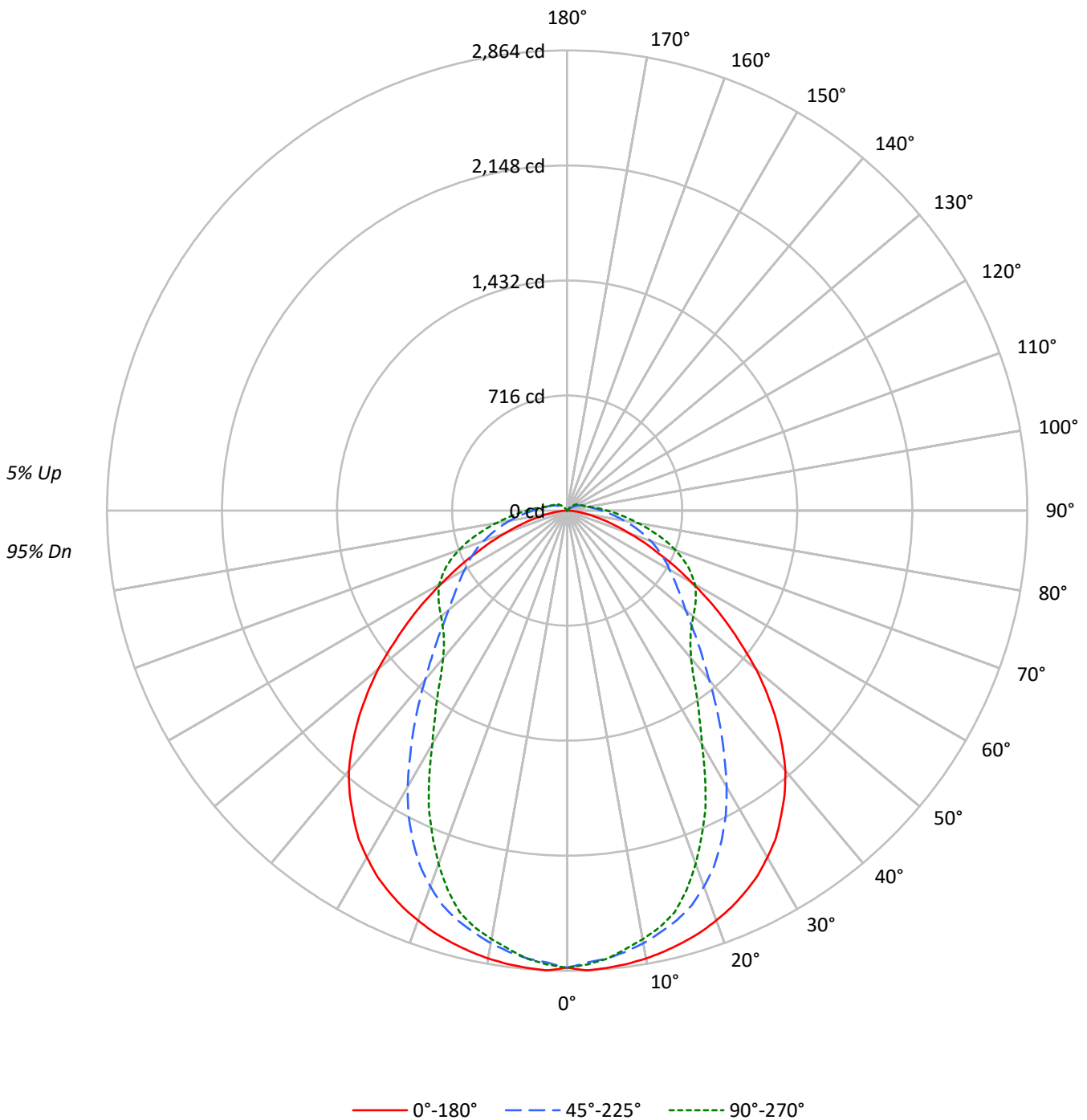
Input Watts (W): 62.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	183732	183732	183732
5°	184571	145163	134529
10°	184242	119235	104166
15°	184000	99945	83501
20°	183808	83884	65482
25°	183197	69364	50686
30°	181502	55883	37823
35°	177818	43830	29167
40°	172099	34075	23206
45°	161359	27063	19858
50°	146883	21933	17854
55°	128261	18553	16395
60°	107810	15980	14972
65°	87872	13878	13271
70°	69619	11818	11262
75°	52605	9754	9094
80°	36762	7820	7025
85°	21483	6115	5343



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.1	4.0
10°-20°	748.9	11.1
20°-30°	1053.0	15.6
30°-40°	1102.7	16.4
40°-50°	998.4	14.8
50°-60°	849.7	12.6
60°-70°	671.9	10.0
70°-80°	457.5	6.8
80°-90°	261.0	3.9
90°-100°	144.8	2.1
100°-110°	88.5	1.3
110°-120°	53.8	0.8
120°-130°	29.1	0.4
130°-140°	8.8	0.1
140°-150°	0.2	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2069.0	30.7
0°-40°	3171.8	47.1
0°-60°	5019.9	74.5
0°-90°	6410.3	95.2
90°-120°	287.0	4.3
90°-150°	325.2	4.8
90°-180°	325.0	4.8
0°-180°	6735.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	2845	2845	2845	2845	2845	
5°	2857	2840	2799	2812	2801	272
15°	2783	2730	2640	2612	2587	786
25°	2621	2491	2271	2095	2038	1207
35°	2321	2060	1668	1460	1406	1450
45°	1840	1461	1143	1083	1087	1413
55°	1207	921	837	934	977	1079
65°	626	544	647	791	832	631
75°	244	296	456	560	580	266
85°	43	141	278	332	337	51
90°	1	98	212	248	248	3
95°	2	76	167	185	184	1
105°	2	46	112	117	112	2
115°	2	6	76	88	86	1
125°	1	2	34	61	65	1
135°	2	2	2	25	33	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°	2844.9	2844.9	2844.9	2844.9	2844.9
2.5°	2864.4	2848.8	2816.1	2837.1	2827.8
5°	2857.4	2839.5	2799.0	2811.5	2801.3
7.5°	2846.5	2822.4	2770.2	2774.1	2754.7
10°	2830.1	2799.0	2734.4	2727.4	2708.7
12.5°	2809.1	2766.3	2688.5	2679.2	2657.4
15°	2782.7	2729.8	2639.5	2612.3	2587.4
17.5°	2753.1	2686.2	2576.5	2515.8	2473.0
20°	2715.0	2630.2	2490.1	2402.2	2339.9
22.5°	2672.2	2569.5	2392.8	2260.5	2189.7
25°	2620.8	2490.9	2270.6	2094.8	2038.0
27.5°	2564.0	2409.2	2137.6	1932.2	1856.7
30°	2492.4	2305.7	1985.8	1765.6	1678.5
32.5°	2417.7	2194.4	1820.9	1599.1	1531.4
35°	2321.2	2059.8	1668.4	1459.8	1406.1
37.5°	2224.0	1915.8	1516.6	1335.3	1287.8
40°	2112.7	1770.3	1373.4	1232.6	1199.1
42.5°	1980.4	1622.4	1252.0	1146.2	1134.5
45°	1840.3	1461.4	1143.1	1083.2	1087.1
47.5°	1687.8	1315.1	1044.3	1032.6	1052.1
50°	1534.5	1178.9	961.8	994.5	1024.8
52.5°	1364.1	1047.4	896.4	963.4	999.9
55°	1206.9	921.3	837.3	933.8	977.4
57.5°	1050.5	813.9	785.9	903.4	949.3
60°	894.9	715.9	736.1	870.8	919.0
62.5°	759.5	622.5	692.6	834.2	876.2
65°	626.4	543.9	647.4	790.6	831.8
67.5°	515.9	473.9	602.3	738.5	775.8
70°	410.9	407.8	554.0	680.9	715.1
72.5°	320.6	347.8	503.5	621.0	653.6
75°	243.6	296.5	456.0	560.3	580.5
77.5°	178.2	248.2	407.8	498.8	512.8
80°	122.2	206.2	361.8	437.3	447.4
82.5°	77.0	170.4	317.5	382.1	389.1
85°	42.8	140.8	277.8	332.3	336.9
87.5°	16.3	115.9	242.0	288.7	292.6
90°	0.8	98.0	212.4	247.5	247.5
92.5°	0.8	85.6	188.3	214.8	216.3
95°	1.6	75.5	167.3	185.2	183.6
97.5°	1.6	68.5	147.8	162.6	158.0
100°	1.6	62.3	133.1	143.2	138.5
102.5°	1.6	55.2	121.4	127.6	122.2
105°	1.6	45.9	112.1	116.7	112.1
107.5°	1.6	36.6	101.9	108.2	103.5
110°	1.6	27.2	92.6	100.4	96.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	17.1	84.0	93.4	91.0
115°	1.6	6.2	75.5	87.9	85.6
117.5°	0.8	3.1	64.6	81.7	80.9
120°	0.8	2.3	54.5	76.3	76.3
122.5°	0.8	2.3	45.1	68.5	71.6
125°	0.8	1.6	34.2	60.7	64.6
127.5°	0.8	1.6	24.1	52.9	57.6
130°	0.8	1.6	12.5	43.6	49.8
132.5°	0.8	1.6	1.6	34.2	41.2
135°	1.6	1.6	1.6	24.9	32.7
137.5°	1.6	1.6	1.6	13.2	23.3
140°	1.6	1.6	0.8	0.8	10.9
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)