

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: P290119

Luminaire Tested: **4SSRK-LN-80-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290119
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-10)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SSRK-LN-80-L950-CD1-U
Description: 8000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND NARROW LENS AND 90 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7661.2 lumens
Efficiency: N/A
Efficacy: 121.8 lumens/watt
Spacing Criteria (0/90/45): 1.28 / 1.03 / 1.16
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Direct

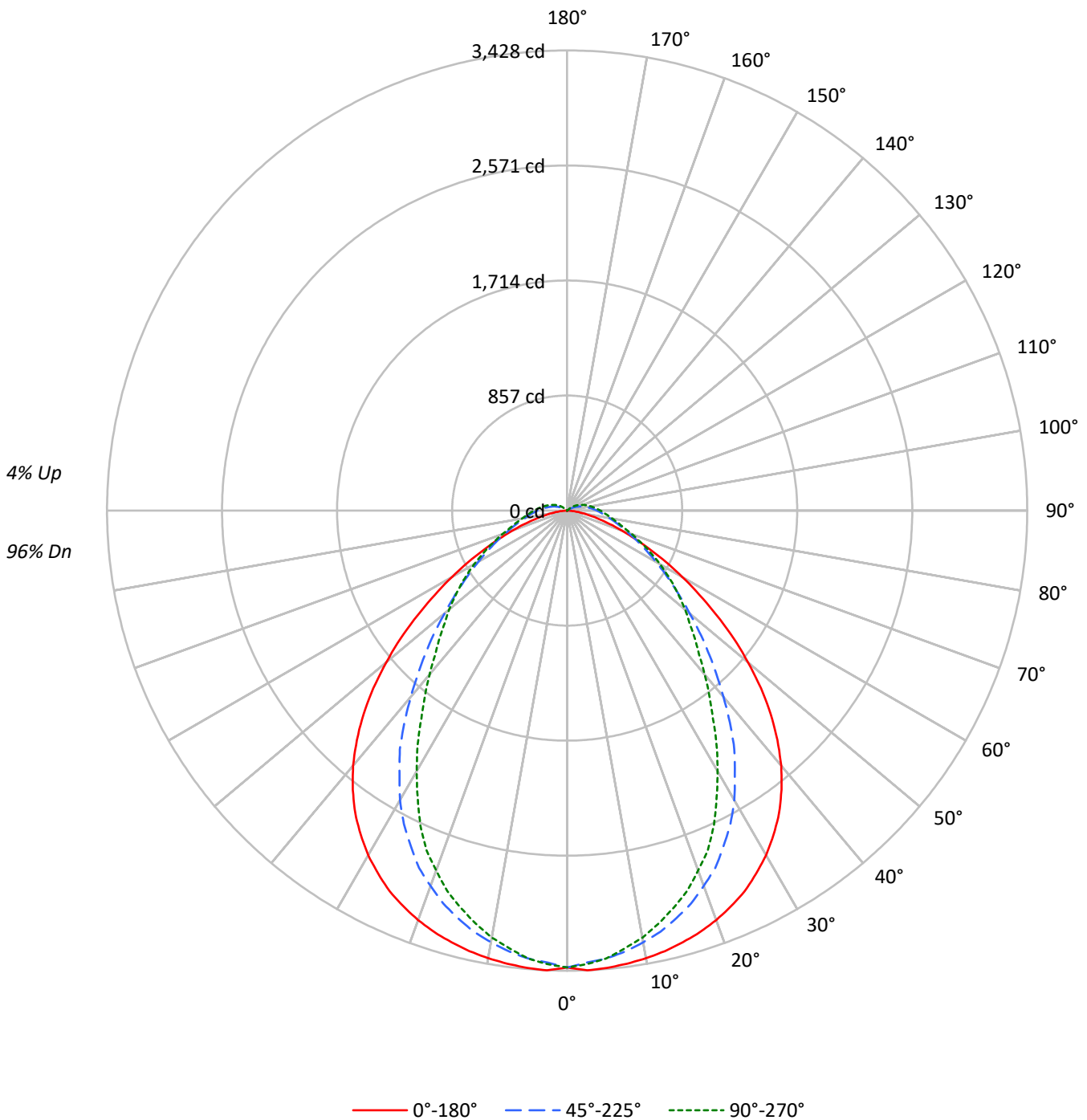
Input Watts (W): 62.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P290119

CATALOG NUMBER: 4SSRK-LN-80-L950-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P290119

CATALOG NUMBER: 4SSRK-LN-80-L950-CD1-U

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	50	30	10	0		
RCR																										
0	118	118	118	118	115	115	115	115	109	109	109	103	103	103	98	98	98	96					96			
1	108	104	99	96	105	101	97	94	96	93	90	91	89	86	87	85	83	81					81			
2	99	91	85	80	96	89	83	78	85	80	76	81	77	74	78	74	71	69					69			
3	91	81	74	68	88	79	72	67	76	70	65	73	68	63	70	65	62	59					59			
4	84	73	65	58	81	71	64	58	68	62	56	65	60	55	63	58	54	52					52			
5	78	66	57	51	75	64	56	51	62	55	50	59	53	49	57	52	48	46					46			
6	72	60	51	45	70	58	51	45	56	49	44	54	48	43	52	47	43	41					41			
7	67	54	46	40	65	53	46	40	52	45	39	50	44	39	48	43	38	36					36			
8	63	50	42	36	61	49	41	36	47	41	36	46	40	35	44	39	35	33					33			
9	59	46	38	33	57	45	38	33	44	37	32	43	36	32	41	36	32	30					30			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	38	33	29	27					27			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	219782	219782	219782
5°	220867	173687	160831
10°	220432	142420	124217
15°	220137	119033	98834
20°	219778	100222	79855
25°	218735	84226	64335
30°	215867	70083	50494
35°	210866	57068	39304
40°	202059	44932	30881
45°	188180	35112	24540
50°	168180	27142	19983
55°	144298	21124	16232
60°	119508	16568	13050
65°	94550	13038	10307
70°	72974	10320	8103
75°	53706	8383	6451
80°	37664	6914	5348
85°	21684	5831	4558



TEST NUMBER: P290119

CATALOG NUMBER: 4SSRK-LN-80-L950-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	319.5	4.2
10°-20°	894.7	11.7
20°-30°	1289.4	16.8
30°-40°	1396.7	18.2
40°-50°	1237.1	16.1
50°-60°	941.3	12.3
60°-70°	627.1	8.2
70°-80°	387.5	5.1
80°-90°	242.8	3.2
90°-100°	159.5	2.1
100°-110°	97.7	1.3
110°-120°	50.4	0.7
120°-130°	16.6	0.2
130°-140°	1.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	2503.6	32.7
0°-40°	3900.3	50.9
0°-60°	6078.6	79.3
0°-90°	7336.0	95.8
90°-120°	307.7	4.0
90°-150°	325.2	4.2
90°-180°	325.0	4.2
0°-180°	7661.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	3403	3403	3403	3403	3403	
5°	3419	3398	3349	3362	3349	325
15°	3329	3266	3144	3101	3062	940
25°	3129	2982	2757	2639	2587	1440
35°	2753	2495	2172	1968	1895	1715
45°	2146	1810	1483	1370	1343	1646
55°	1358	1108	953	965	968	1220
65°	674	591	608	643	646	680
75°	249	303	392	418	412	275
85°	43	156	265	292	287	53
90°	2	114	221	249	247	3
95°	4	80	183	212	211	3
105°	3	32	114	146	150	3
115°	3	3	59	91	99	2
125°	2	2	2	40	50	2
135°	0	0	0	0	0	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



TEST NUMBER: P290119

CATALOG NUMBER: 4SSRK-LN-80-L950-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	3403.1	3403.1	3403.1	3403.1	3403.1
2.5°	3428.3	3409.4	3370.7	3393.2	3382.4
5°	3419.3	3397.7	3349.0	3361.6	3349.0
7.5°	3404.9	3377.9	3313.0	3318.4	3288.7
10°	3386.0	3349.9	3266.1	3257.1	3230.1
12.5°	3361.6	3311.2	3213.0	3176.9	3150.8
15°	3329.2	3266.1	3143.6	3101.3	3062.5
17.5°	3292.3	3211.2	3068.8	3017.5	2971.5
20°	3246.3	3144.5	2975.1	2903.9	2853.5
22.5°	3190.5	3071.5	2882.3	2778.7	2738.2
25°	3129.2	2982.3	2757.1	2639.0	2586.8
27.5°	3049.0	2884.1	2633.6	2485.9	2411.1
30°	2964.3	2767.9	2490.4	2320.1	2240.8
32.5°	2862.5	2640.8	2324.6	2143.5	2073.2
35°	2752.6	2494.9	2172.3	1967.8	1894.8
37.5°	2622.8	2337.2	1991.2	1803.8	1739.8
40°	2480.5	2166.0	1811.0	1646.1	1595.7
42.5°	2318.3	1992.1	1641.6	1499.3	1456.0
45°	2146.2	1810.1	1483.1	1370.4	1343.4
47.5°	1958.8	1628.1	1334.4	1254.2	1234.4
50°	1757.0	1446.1	1190.2	1146.1	1147.0
52.5°	1565.0	1274.0	1067.7	1056.0	1053.3
55°	1357.8	1108.2	953.3	965.0	967.7
57.5°	1170.4	954.2	856.0	877.6	880.3
60°	992.0	816.3	763.2	796.5	801.0
62.5°	828.9	698.3	683.9	718.1	717.2
65°	674.0	591.1	608.2	643.3	646.0
67.5°	542.4	503.7	545.1	575.7	573.9
70°	430.7	425.3	483.8	516.3	514.5
72.5°	335.2	359.5	436.1	464.0	456.8
75°	248.7	302.7	391.9	418.1	411.8
77.5°	182.9	255.9	353.2	378.4	373.9
80°	125.2	217.1	319.9	346.0	340.6
82.5°	80.2	184.7	291.0	316.3	312.6
85°	43.2	155.9	264.9	291.9	287.4
87.5°	16.2	132.4	241.5	268.5	266.7
90°	1.8	113.5	220.7	248.7	246.9
92.5°	2.7	96.4	200.9	229.8	229.8
95°	4.5	80.2	182.9	211.7	210.8
97.5°	3.6	67.6	163.1	194.6	194.6
100°	3.6	55.9	145.1	176.6	178.4
102.5°	3.6	44.1	129.7	160.4	164.0
105°	2.7	31.5	114.4	146.0	149.6
107.5°	2.7	18.0	99.1	132.4	137.0
110°	2.7	4.5	85.6	118.0	123.4



TEST NUMBER: P290119

CATALOG NUMBER: 4SSRK-LN-80-L950-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	2.7	2.7	72.1	104.5	109.9
115°	2.7	2.7	58.6	91.0	99.1
117.5°	1.8	1.8	43.2	79.3	86.5
120°	1.8	1.8	27.0	66.7	73.9
122.5°	1.8	1.8	11.7	53.2	63.1
125°	1.8	1.8	1.8	39.6	49.6
127.5°	1.8	1.8	0.9	23.4	35.1
130°	1.8	1.8	0.9	9.0	21.6
132.5°	1.8	1.8	0.9	0.9	6.3
135°	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0
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)