

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: P290087

Luminaire Tested: **4SSRK-LN-20-L950-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P290087
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-20-L950-CD1-U
Description: 2000 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: 1882.1 lumens
Efficiency: N/A
Efficacy: 137.4 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

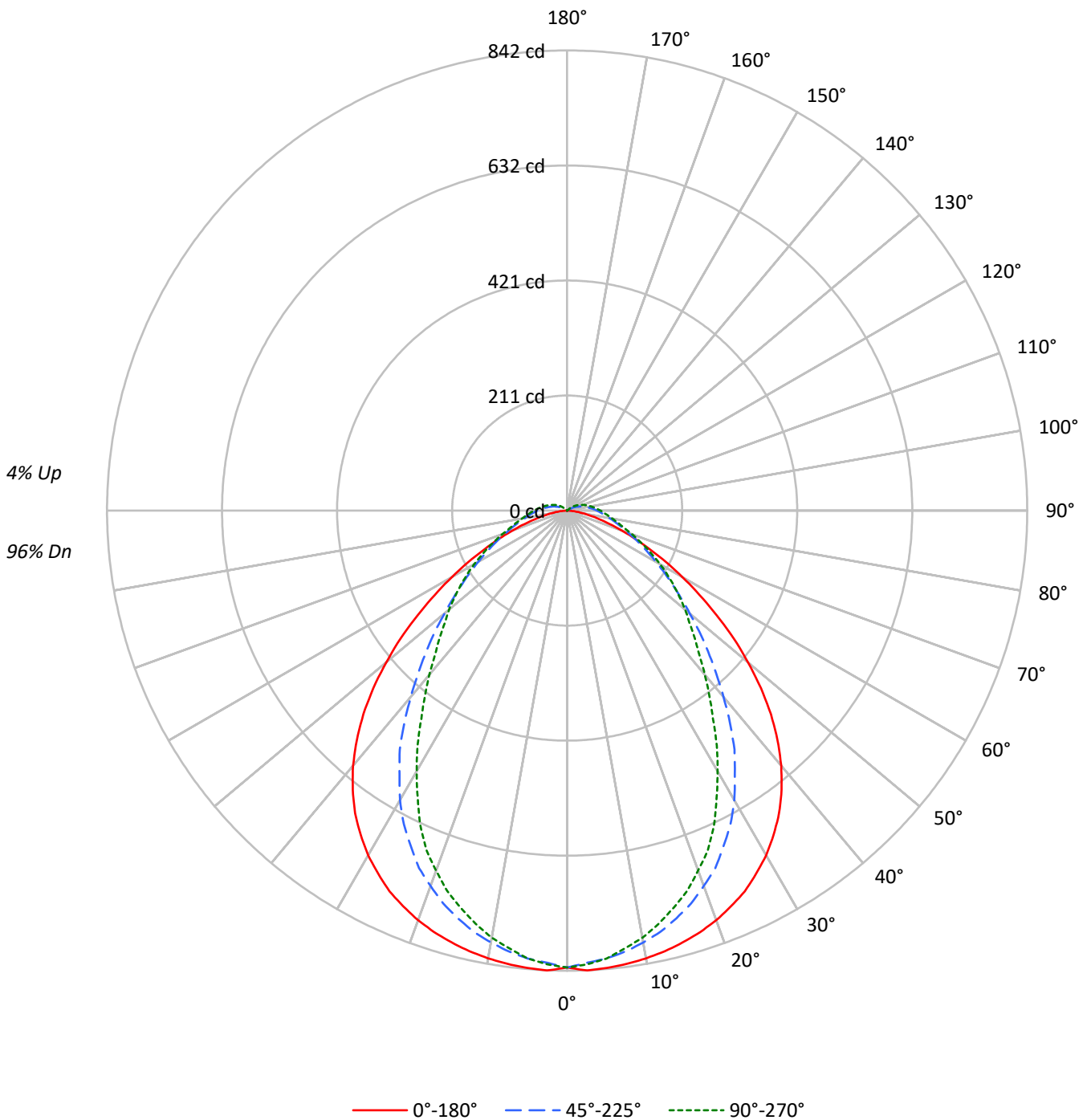
Input Watts (W): 13.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	53998	53998	53998
5°	54266	42672	39514
10°	54158	34989	30519
15°	54082	29243	24282
20°	53998	24622	19618
25°	53740	20694	15805
30°	53036	17217	12405
35°	51801	14021	9656
40°	49641	11038	7586
45°	46234	8627	6028
50°	41313	6668	4910
55°	35453	5189	3987
60°	29359	4070	3206
65°	23231	3203	2532
70°	17926	2536	1991
75°	13194	2060	1585
80°	9266	1699	1314
85°	5321	1433	1120



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.5	4.2
10°-20°	219.8	11.7
20°-30°	316.8	16.8
30°-40°	343.1	18.2
40°-50°	303.9	16.1
50°-60°	231.3	12.3
60°-70°	154.1	8.2
70°-80°	95.2	5.1
80°-90°	59.6	3.2
90°-100°	39.2	2.1
100°-110°	24.0	1.3
110°-120°	12.4	0.7
120°-130°	4.1	0.2
130°-140°	0.2	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°	615.1	32.7
0°-40°	958.2	50.9
0°-60°	1493.4	79.3
0°-90°	1802.3	95.8
90°-120°	75.6	4.0
90°-150°	79.9	4.2
90°-180°	80.0	4.3
0°-180°	1882.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	836	836	836	836	836	
5°	840	835	823	826	823	80
15°	818	802	772	762	752	231
25°	769	733	677	648	636	354
35°	676	613	534	483	466	421
45°	527	445	364	337	330	404
55°	334	272	234	237	238	300
65°	166	145	149	158	159	167
75°	61	74	96	103	101	68
85°	11	38	65	72	71	13
90°	0	28	54	61	61	1
95°	1	20	45	52	52	1
105°	1	8	28	36	37	1
115°	1	1	14	22	24	1
125°	0	0	0	10	12	0
135°	0	0	0	0	0	0
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°	836.1	836.1	836.1	836.1	836.1
2.5°	842.3	837.6	828.1	833.6	831.0
5°	840.1	834.7	822.8	825.9	822.8
7.5°	836.5	829.9	813.9	815.3	808.0
10°	831.9	823.0	802.4	800.2	793.6
12.5°	825.9	813.5	789.4	780.5	774.1
15°	817.9	802.4	772.3	761.9	752.4
17.5°	808.8	788.9	753.9	741.3	730.0
20°	797.6	772.5	730.9	713.4	701.0
22.5°	783.8	754.6	708.1	682.7	672.7
25°	768.8	732.7	677.4	648.4	635.5
27.5°	749.1	708.6	647.0	610.7	592.4
30°	728.3	680.0	611.8	570.0	550.5
32.5°	703.3	648.8	571.1	526.6	509.3
35°	676.2	612.9	533.7	483.4	465.5
37.5°	644.4	574.2	489.2	443.2	427.4
40°	609.4	532.1	444.9	404.4	392.0
42.5°	569.6	489.4	403.3	368.3	357.7
45°	527.3	444.7	364.4	336.7	330.0
47.5°	481.2	400.0	327.8	308.1	303.3
50°	431.6	355.3	292.4	281.6	281.8
52.5°	384.5	313.0	262.3	259.4	258.8
55°	333.6	272.3	234.2	237.1	237.7
57.5°	287.5	234.4	210.3	215.6	216.3
60°	243.7	200.6	187.5	195.7	196.8
62.5°	203.6	171.6	168.0	176.4	176.2
65°	165.6	145.2	149.4	158.0	158.7
67.5°	133.3	123.7	133.9	141.4	141.0
70°	105.8	104.5	118.9	126.8	126.4
72.5°	82.3	88.3	107.1	114.0	112.2
75°	61.1	74.4	96.3	102.7	101.2
77.5°	44.9	62.9	86.8	93.0	91.9
80°	30.8	53.3	78.6	85.0	83.7
82.5°	19.7	45.4	71.5	77.7	76.8
85°	10.6	38.3	65.1	71.7	70.6
87.5°	4.0	32.5	59.3	66.0	65.5
90°	0.4	27.9	54.2	61.1	60.7
92.5°	0.7	23.7	49.4	56.4	56.4
95°	1.1	19.7	44.9	52.0	51.8
97.5°	0.9	16.6	40.1	47.8	47.8
100°	0.9	13.7	35.6	43.4	43.8
102.5°	0.9	10.8	31.9	39.4	40.3
105°	0.7	7.7	28.1	35.9	36.7
107.5°	0.7	4.4	24.3	32.5	33.6
110°	0.7	1.1	21.0	29.0	30.3



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	0.7	17.7	25.7	27.0
115°	0.7	0.7	14.4	22.4	24.3
117.5°	0.4	0.4	10.6	19.5	21.3
120°	0.4	0.4	6.6	16.4	18.2
122.5°	0.4	0.4	2.9	13.1	15.5
125°	0.4	0.4	0.4	9.7	12.2
127.5°	0.4	0.4	0.2	5.8	8.6
130°	0.4	0.4	0.2	2.2	5.3
132.5°	0.4	0.4	0.2	0.2	1.5
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)