

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: P289911

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289911
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-7)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SSRK-LW-20-L950-CD1-U
Description: 2000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 90 CRI 5000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1674.5 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.3 / 1.41
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

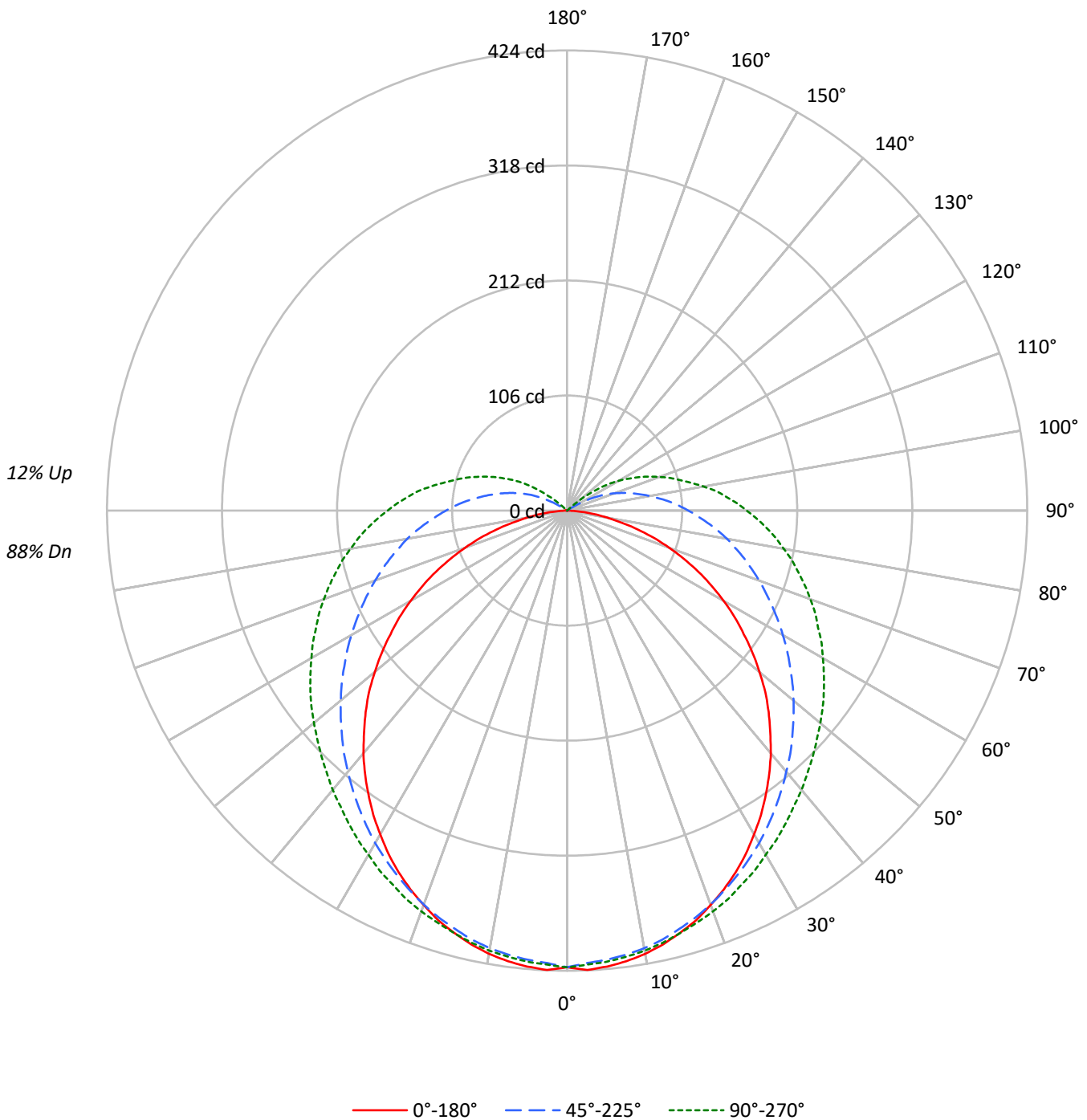
Input Watts (W): 13.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	116	116	116	116	112	112	112	112	105	105	105		98	98	98		91	91	91	88
1	103	97	92	87	99	94	89	84	87	83	79		81	78	75		76	73	71	67
2	93	83	75	68	89	80	73	67	74	68	63		69	64	60		65	61	57	54
3	84	72	63	56	80	70	61	54	65	58	52		60	54	50		56	51	47	44
4	76	63	54	47	73	61	52	46	57	50	44		53	47	42		50	44	40	37
5	70	56	47	40	67	54	46	39	51	43	37		48	41	36		45	39	34	32
6	65	50	41	34	62	49	40	34	46	38	32		43	36	31		40	35	30	28
7	60	46	36	30	57	44	36	30	42	34	28		39	32	27		37	31	26	24
8	55	41	33	27	53	40	32	26	38	31	25		36	29	24		34	28	24	21
9	52	38	30	24	50	37	29	23	35	28	23		33	27	22		31	25	21	19
10	49	35	27	21	47	34	26	21	32	25	21		31	24	20		29	23	19	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	27177	27177	27177
5°	27239	21549	20040
10°	26991	17856	15832
15°	26628	15112	13002
20°	26180	13013	11001
25°	25689	11327	9458
30°	25080	9954	8250
35°	24453	8788	7287
40°	23786	7793	6502
45°	23016	6949	5847
50°	22140	6210	5307
55°	21127	5557	4846
60°	20083	4984	4433
65°	18756	4470	4072
70°	16960	4015	3755
75°	14577	3604	3457
80°	11251	3233	3180
85°	6776	2859	2928



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.7	2.4
10°-20°	113.4	6.8
20°-30°	172.0	10.3
30°-40°	209.9	12.5
40°-50°	226.1	13.5
50°-60°	222.0	13.3
60°-70°	200.6	12.0
70°-80°	167.0	10.0
80°-90°	128.1	7.7
90°-100°	92.8	5.5
100°-110°	59.9	3.6
110°-120°	32.3	1.9
120°-130°	10.2	0.6
130°-140°	0.4	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°	325.2	19.4
0°-40°	535.1	32.0
0°-60°	983.2	58.7
0°-90°	1479.0	88.3
90°-120°	185.0	11.0
90°-150°	195.6	11.7
90°-180°	196.0	11.7
0°-180°	1674.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	421	421	421	421	421	
5°	422	420	416	419	417	40
15°	403	402	399	404	403	114
25°	368	368	371	379	380	169
35°	319	323	334	348	351	200
45°	262	272	294	313	320	202
55°	199	218	251	279	289	178
65°	134	163	208	244	255	132
75°	68	112	168	207	221	72
85°	14	69	130	170	185	16
90°	0	52	112	152	165	1
95°	1	37	94	134	147	1
105°	1	13	62	96	108	1
115°	1	1	31	61	73	1
125°	0	0	0	25	35	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°	420.8	420.8	420.8	420.8	420.8
2.5°	423.7	421.9	417.3	420.2	418.8
5°	421.7	420.2	415.5	418.6	417.3
7.5°	418.8	417.3	412.8	415.9	414.8
10°	414.6	413.1	409.5	412.6	411.7
12.5°	409.3	408.2	404.9	408.6	407.8
15°	402.7	401.8	399.1	403.5	402.9
17.5°	395.6	394.7	393.1	397.8	398.0
20°	386.7	386.5	386.3	392.3	393.1
22.5°	377.6	377.9	378.8	386.1	387.4
25°	367.5	367.9	370.8	378.8	380.3
27.5°	356.6	358.2	362.4	371.7	374.1
30°	344.4	347.1	353.7	363.5	366.1
32.5°	332.5	335.4	344.2	355.7	359.3
35°	319.2	323.4	334.5	347.8	351.3
37.5°	305.9	310.8	324.5	338.9	343.3
40°	292.0	298.4	314.1	330.3	336.0
42.5°	276.9	286.0	304.2	321.4	327.8
45°	262.5	272.5	293.5	312.8	320.1
47.5°	247.7	259.7	282.9	304.4	312.1
50°	231.3	245.7	272.3	296.0	304.6
52.5°	215.4	232.4	261.7	287.3	296.9
55°	198.8	218.5	250.8	278.7	288.9
57.5°	183.3	204.3	240.4	269.6	280.5
60°	166.7	190.6	229.6	261.2	272.1
62.5°	149.9	176.9	218.9	252.1	264.3
65°	133.7	162.7	208.5	243.5	255.2
67.5°	116.4	149.9	198.3	234.2	247.5
70°	100.1	136.6	188.2	225.4	238.4
72.5°	83.7	123.7	178.2	216.5	229.8
75°	67.5	112.0	168.5	207.4	220.7
77.5°	51.4	99.6	158.5	198.3	212.3
80°	37.4	88.8	149.6	189.0	202.5
82.5°	25.5	78.6	139.7	180.2	193.9
85°	13.5	68.6	129.9	170.5	184.6
87.5°	4.0	59.8	120.4	160.9	175.1
90°	0.4	51.6	111.6	151.6	165.4
92.5°	0.7	44.5	103.2	143.2	156.5
95°	0.9	37.4	94.5	133.9	147.0
97.5°	0.9	31.2	85.7	124.4	138.4
100°	0.9	25.2	77.3	114.7	127.5
102.5°	0.9	19.7	69.3	104.9	117.5
105°	0.9	13.3	61.5	96.3	108.2
107.5°	0.9	6.6	54.0	87.9	99.6
110°	0.9	1.3	46.5	79.2	90.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	0.9	39.2	70.2	81.7
115°	0.7	0.7	31.0	61.3	72.8
117.5°	0.7	0.7	22.1	53.1	63.5
120°	0.7	0.4	12.8	44.5	54.9
122.5°	0.4	0.4	4.2	34.5	45.8
125°	0.4	0.2	0.2	24.6	35.0
127.5°	0.4	0.2	0.0	13.7	23.7
130°	0.4	0.2	0.0	4.0	13.5
132.5°	0.4	0.2	0.0	0.0	2.9
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)