

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: P289909

Luminaire Tested: **4SSRK-LW-20-L935-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289909
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-L935-CD1-U
Description: 2000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 90 CRI 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1535.2 lumens
Efficiency: N/A
Efficacy: 112.1 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

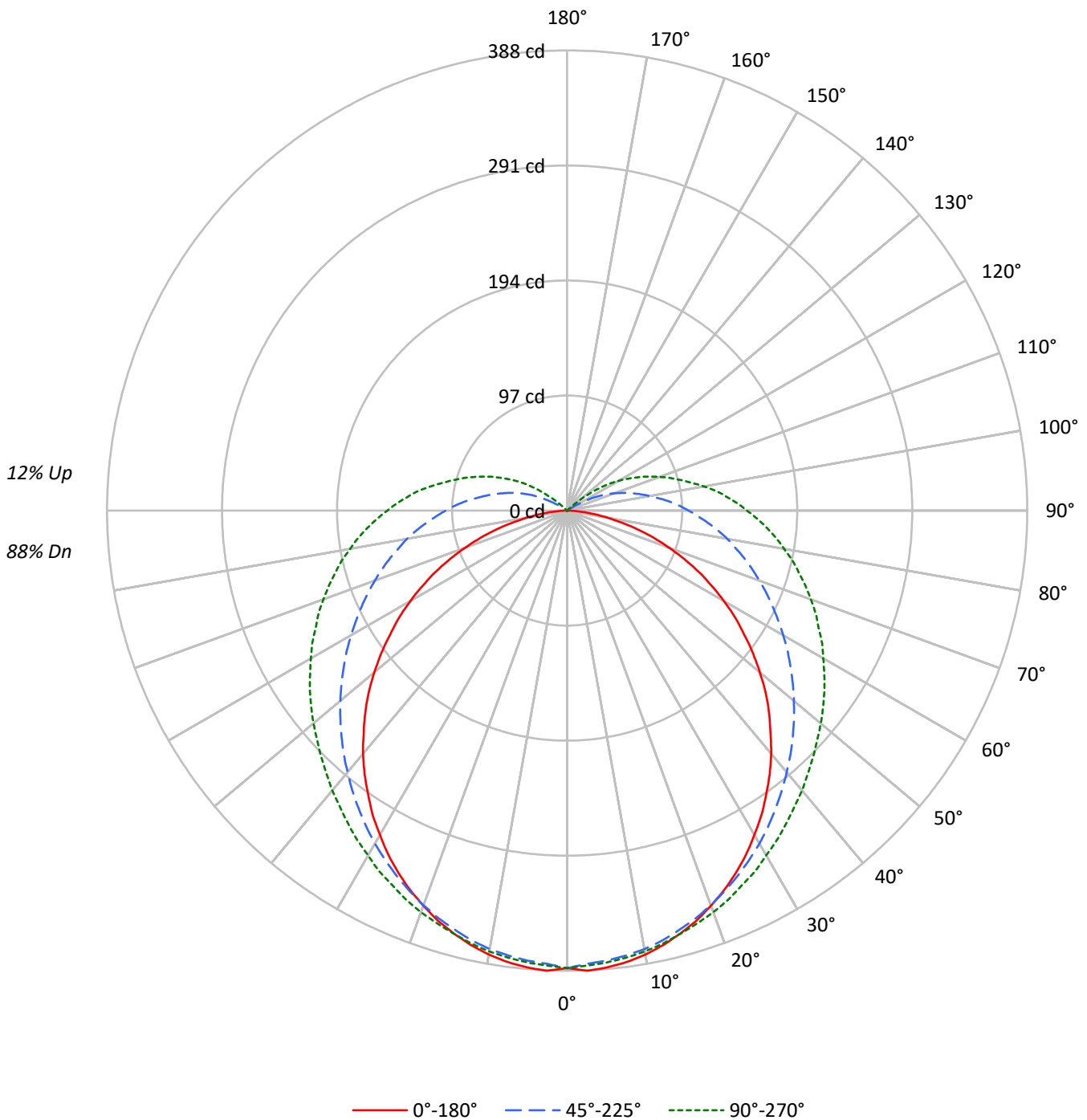
Input Watts (W): 13.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	75	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°	24916	24916	24916
5°	24972	19754	18369
10°	24745	16370	14517
15°	24406	13855	11918
20°	24000	11929	10086
25°	23550	10384	8670
30°	22997	9126	7565
35°	22415	8055	6681
40°	21807	7145	5963
45°	21105	6371	5360
50°	20302	5692	4864
55°	19363	5094	4442
60°	18408	4567	4063
65°	17199	4099	3733
70°	15537	3680	3443
75°	13367	3303	3169
80°	10319	2965	2916
85°	6224	2621	2684



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.4	2.4
10°-20°	104.0	6.8
20°-30°	157.7	10.3
30°-40°	192.4	12.5
40°-50°	207.3	13.5
50°-60°	203.6	13.3
60°-70°	183.9	12.0
70°-80°	153.1	10.0
80°-90°	117.4	7.7
90°-100°	85.0	5.5
100°-110°	54.9	3.6
110°-120°	29.6	1.9
120°-130°	9.4	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°	298.1	19.4
0°-40°	490.5	32.0
0°-60°	901.4	58.7
0°-90°	1355.9	88.3
90°-120°	169.6	11.0
90°-150°	179.3	11.7
90°-180°	179.0	11.7
0°-180°	1535.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	386	386	386	386	386	
5°	387	385	381	384	382	37
15°	369	368	366	370	369	104
25°	337	337	340	347	349	155
35°	293	296	307	319	322	183
45°	241	250	269	287	293	186
55°	182	200	230	256	265	163
65°	123	149	191	223	234	121
75°	62	103	154	190	202	66
85°	12	63	119	156	169	15
90°	0	47	102	139	152	1
95°	1	34	87	123	135	1
105°	1	12	56	88	99	1
115°	1	1	28	56	67	1
125°	0	0	0	22	32	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°	385.8	385.8	385.8	385.8	385.8
2.5°	388.4	386.8	382.5	385.2	384.0
5°	386.6	385.2	380.9	383.8	382.5
7.5°	384.0	382.5	378.5	381.3	380.3
10°	380.1	378.7	375.4	378.3	377.5
12.5°	375.2	374.2	371.2	374.6	373.8
15°	369.1	368.3	365.9	370.0	369.3
17.5°	362.6	361.8	360.4	364.7	364.9
20°	354.5	354.3	354.1	359.6	360.4
22.5°	346.2	346.4	347.2	353.9	355.1
25°	336.9	337.3	339.9	347.2	348.6
27.5°	326.9	328.4	332.2	340.7	343.0
30°	315.8	318.2	324.3	333.2	335.7
32.5°	304.8	307.4	315.6	326.1	329.4
35°	292.6	296.5	306.6	318.8	322.1
37.5°	280.5	284.9	297.5	310.7	314.8
40°	267.7	273.6	288.0	302.8	308.1
42.5°	253.9	262.2	278.8	294.7	300.5
45°	240.7	249.8	269.1	286.8	293.4
47.5°	227.1	238.0	259.4	279.0	286.1
50°	212.1	225.3	249.6	271.3	279.2
52.5°	197.5	213.1	239.9	263.4	272.1
55°	182.2	200.3	229.9	255.5	264.8
57.5°	168.0	187.3	220.4	247.2	257.1
60°	152.8	174.7	210.4	239.5	249.4
62.5°	137.4	162.1	200.7	231.1	242.3
65°	122.6	149.2	191.2	223.2	234.0
67.5°	106.7	137.4	181.8	214.7	226.9
70°	91.7	125.2	172.5	206.6	218.6
72.5°	76.7	113.4	163.4	198.5	210.6
75°	61.9	102.7	154.4	190.2	202.3
77.5°	47.1	91.3	145.3	181.8	194.6
80°	34.3	81.4	137.2	173.3	185.7
82.5°	23.3	72.0	128.1	165.2	177.8
85°	12.4	62.9	119.1	156.3	169.2
87.5°	3.7	54.8	110.4	147.5	160.5
90°	0.4	47.3	102.3	139.0	151.6
92.5°	0.6	40.8	94.6	131.3	143.5
95°	0.8	34.3	86.7	122.8	134.8
97.5°	0.8	28.6	78.5	114.1	126.8
100°	0.8	23.1	70.8	105.1	116.9
102.5°	0.8	18.1	63.5	96.2	107.8
105°	0.8	12.2	56.4	88.3	99.2
107.5°	0.8	6.1	49.5	80.6	91.3
110°	0.8	1.2	42.6	72.7	83.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	0.8	35.9	64.3	74.9
115°	0.6	0.6	28.4	56.2	66.8
117.5°	0.6	0.6	20.3	48.7	58.2
120°	0.6	0.4	11.8	40.8	50.3
122.5°	0.4	0.4	3.9	31.7	42.0
125°	0.4	0.2	0.2	22.5	32.1
127.5°	0.4	0.2	0.0	12.6	21.7
130°	0.4	0.2	0.0	3.7	12.4
132.5°	0.4	0.2	0.0	0.0	2.6
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)