

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: P289910

Luminaire Tested: **4SSRK-LW-20-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289910
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-L940-CD1-U
Description: 2000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 90 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1572.3 lumens
Efficiency: N/A
Efficacy: 114.8 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

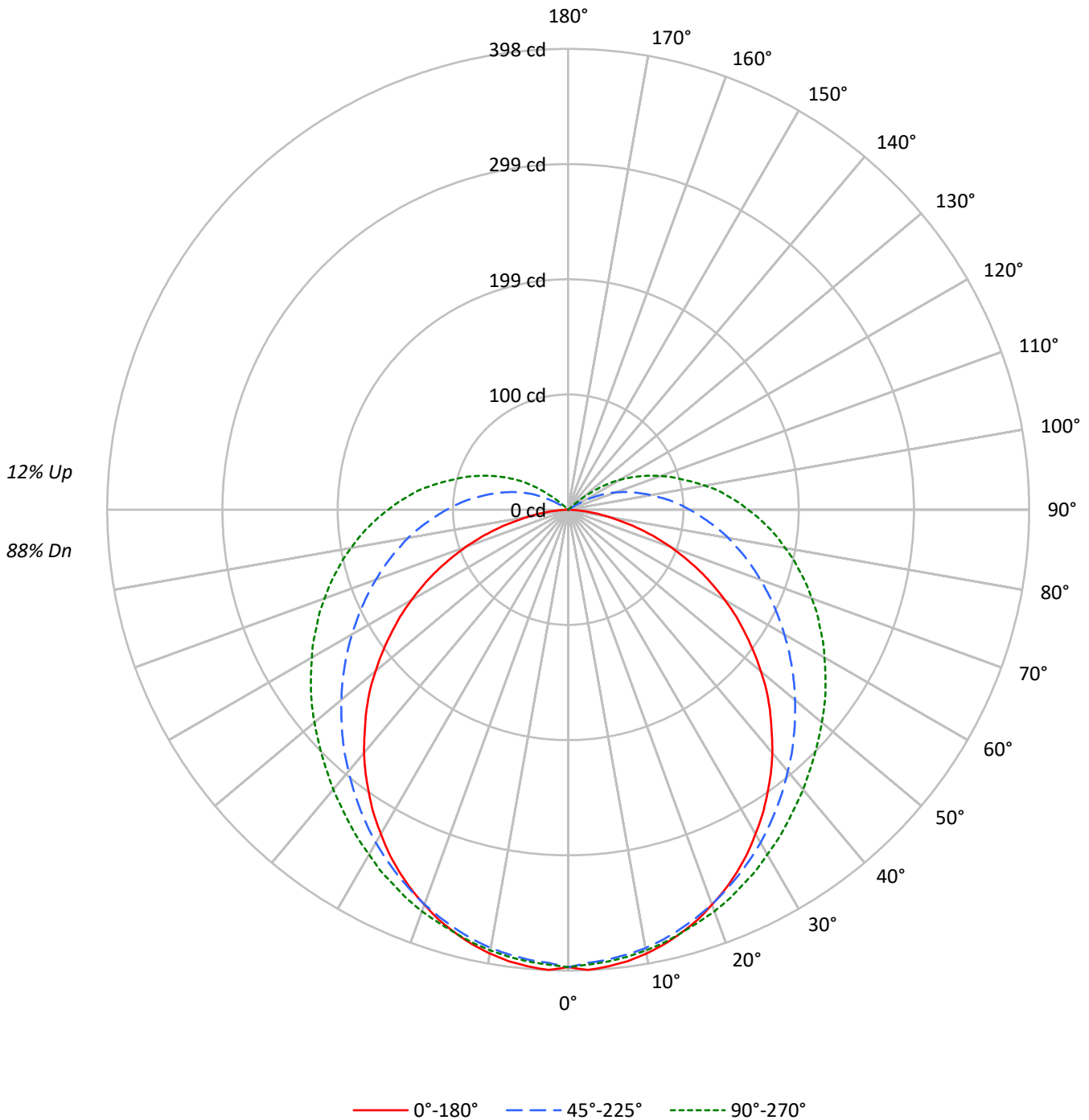
Input Watts (W): 13.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	25517	25517	25517
5°	25579	20232	18816
10°	25344	16766	14867
15°	25001	14192	12209
20°	24582	12218	10329
25°	24116	10637	8881
30°	23551	9346	7747
35°	22959	8252	6843
40°	22336	7317	6106
45°	21613	6525	5491
50°	20790	5831	4983
55°	19841	5218	4549
60°	18854	4678	4163
65°	17605	4197	3824
70°	15910	3769	3526
75°	13691	3384	3246
80°	10559	3037	2987
85°	6375	2685	2749



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.3	2.4
10°-20°	106.5	6.8
20°-30°	161.5	10.3
30°-40°	197.1	12.5
40°-50°	212.3	13.5
50°-60°	208.5	13.3
60°-70°	188.4	12.0
70°-80°	156.8	10.0
80°-90°	120.3	7.7
90°-100°	87.1	5.5
100°-110°	56.3	3.6
110°-120°	30.3	1.9
120°-130°	9.6	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°	305.3	19.4
0°-40°	502.4	32.0
0°-60°	923.2	58.7
0°-90°	1388.7	88.3
90°-120°	173.7	11.0
90°-150°	183.6	11.7
90°-180°	184.0	11.7
0°-180°	1572.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	395	395	395	395	395	
5°	396	394	390	393	392	38
15°	378	377	375	379	378	107
25°	345	346	348	356	357	159
35°	300	304	314	326	330	188
45°	246	256	276	294	301	190
55°	187	205	236	262	271	167
65°	126	153	196	229	240	124
75°	63	105	158	195	207	67
85°	13	64	122	160	173	15
90°	0	48	105	142	155	1
95°	1	35	89	126	138	1
105°	1	12	58	90	102	1
115°	1	1	29	58	68	1
125°	0	0	0	23	33	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°	395.1	395.1	395.1	395.1	395.1
2.5°	397.8	396.2	391.8	394.5	393.3
5°	396.0	394.5	390.1	393.0	391.8
7.5°	393.3	391.8	387.6	390.6	389.5
10°	389.3	387.9	384.5	387.4	386.6
12.5°	384.3	383.3	380.2	383.7	382.9
15°	378.1	377.3	374.8	378.9	378.3
17.5°	371.4	370.6	369.1	373.5	373.7
20°	363.1	362.9	362.7	368.3	369.1
22.5°	354.6	354.8	355.6	362.5	363.7
25°	345.0	345.5	348.2	355.6	357.1
27.5°	334.9	336.3	340.3	349.0	351.3
30°	323.4	325.9	332.1	341.3	343.8
32.5°	312.2	314.9	323.2	334.0	337.3
35°	299.7	303.7	314.1	326.5	329.9
37.5°	287.3	291.8	304.7	318.2	322.4
40°	274.2	280.2	294.9	310.1	315.5
42.5°	260.0	268.5	285.6	301.8	307.8
45°	246.5	255.9	275.6	293.7	300.6
47.5°	232.6	243.8	265.6	285.8	293.1
50°	217.2	230.7	255.7	277.9	286.0
52.5°	202.2	218.2	245.7	269.8	278.7
55°	186.7	205.2	235.5	261.7	271.2
57.5°	172.1	191.8	225.7	253.2	263.3
60°	156.5	179.0	215.5	245.3	255.5
62.5°	140.7	166.1	205.6	236.7	248.2
65°	125.5	152.8	195.8	228.6	239.7
67.5°	109.3	140.7	186.2	219.9	232.4
70°	93.9	128.2	176.7	211.6	223.9
72.5°	78.6	116.2	167.3	203.3	215.8
75°	63.4	105.2	158.2	194.8	207.2
77.5°	48.2	93.5	148.8	186.2	199.3
80°	35.1	83.3	140.5	177.5	190.2
82.5°	23.9	73.8	131.2	169.2	182.1
85°	12.7	64.4	122.0	160.0	173.3
87.5°	3.7	56.1	113.1	151.1	164.4
90°	0.4	48.4	104.8	142.4	155.3
92.5°	0.6	41.8	96.9	134.5	147.0
95°	0.8	35.1	88.8	125.8	138.0
97.5°	0.8	29.3	80.4	116.8	129.9
100°	0.8	23.7	72.5	107.7	119.7
102.5°	0.8	18.5	65.1	98.5	110.4
105°	0.8	12.5	57.8	90.4	101.6
107.5°	0.8	6.2	50.7	82.5	93.5
110°	0.8	1.2	43.6	74.4	85.0



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.6	0.8	36.8	65.9	76.7
115°	0.6	0.6	29.1	57.6	68.4
117.5°	0.6	0.6	20.8	49.9	59.7
120°	0.6	0.4	12.1	41.8	51.5
122.5°	0.4	0.4	3.9	32.4	43.0
125°	0.4	0.2	0.2	23.1	32.8
127.5°	0.4	0.2	0.0	12.9	22.2
130°	0.4	0.2	0.0	3.7	12.7
132.5°	0.4	0.2	0.0	0.0	2.7
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)