

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: P289914

Luminaire Tested: **4SSRK-LW-20-L840-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289914
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-L840-CD1-U
Description: 2000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 80 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1858.5 lumens
Efficiency: N/A
Efficacy: 135.7 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

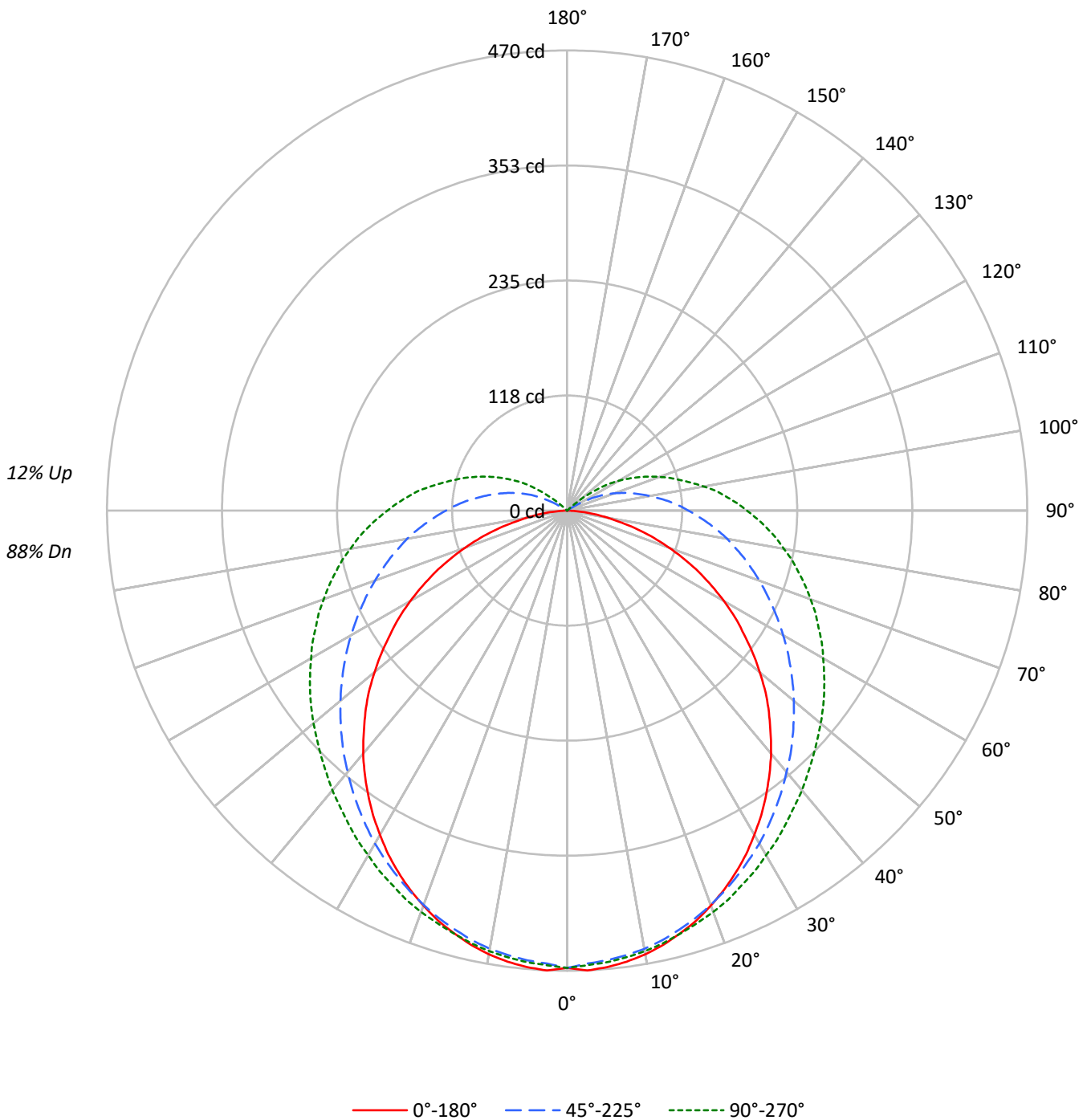
Input Watts (W): 13.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20										
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	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°	30167	30167	30167
5°	30230	23919	22240
10°	29959	19819	17574
15°	29550	16774	14432
20°	29057	14442	12210
25°	28506	12571	10498
30°	27840	11048	9158
35°	27142	9752	8088
40°	26401	8649	7219
45°	25550	7713	6490
50°	24571	6891	5890
55°	23444	6169	5378
60°	22287	5531	4920
65°	20818	4960	4520
70°	18824	4454	4167
75°	16175	4000	3838
80°	12484	3590	3530
85°	7529	3174	3250



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.1	2.4
10°-20°	125.9	6.8
20°-30°	190.9	10.3
30°-40°	233.0	12.5
40°-50°	250.9	13.5
50°-60°	246.4	13.3
60°-70°	222.7	12.0
70°-80°	185.4	10.0
80°-90°	142.2	7.7
90°-100°	102.9	5.5
100°-110°	66.5	3.6
110°-120°	35.8	1.9
120°-130°	11.3	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°	360.9	19.4
0°-40°	593.9	32.0
0°-60°	1091.2	58.7
0°-90°	1641.5	88.3
90°-120°	205.3	11.0
90°-150°	217.1	11.7
90°-180°	217.0	11.7
0°-180°	1858.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	467	467	467	467	467	
5°	468	466	461	465	463	44
15°	447	446	443	448	447	126
25°	408	408	412	420	422	188
35°	354	359	371	386	390	222
45°	291	302	326	347	355	225
55°	221	242	278	309	321	198
65°	148	181	231	270	283	146
75°	75	124	187	230	245	79
85°	15	76	144	189	205	18
90°	0	57	124	168	184	1
95°	1	42	105	149	163	1
105°	1	15	68	107	120	1
115°	1	1	34	68	81	1
125°	0	0	0	27	39	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°	467.1	467.1	467.1	467.1	467.1
2.5°	470.2	468.3	463.1	466.3	464.8
5°	468.0	466.3	461.2	464.6	463.1
7.5°	464.8	463.1	458.2	461.6	460.4
10°	460.2	458.5	454.5	458.0	457.0
12.5°	454.3	453.0	449.4	453.5	452.6
15°	446.9	445.9	443.0	447.9	447.2
17.5°	439.0	438.1	436.3	441.5	441.7
20°	429.2	429.0	428.7	435.4	436.3
22.5°	419.1	419.4	420.4	428.5	430.0
25°	407.8	408.3	411.5	420.4	422.1
27.5°	395.8	397.5	402.2	412.5	415.2
30°	382.3	385.2	392.6	403.4	406.4
32.5°	369.0	372.2	382.0	394.8	398.8
35°	354.3	359.0	371.2	386.0	389.9
37.5°	339.5	344.9	360.2	376.1	381.1
40°	324.1	331.2	348.6	366.6	373.0
42.5°	307.4	317.4	337.6	356.7	363.9
45°	291.4	302.4	325.8	347.2	355.3
47.5°	274.9	288.2	314.0	337.8	346.4
50°	256.7	272.7	302.2	328.5	338.1
52.5°	239.1	258.0	290.4	318.9	329.5
55°	220.6	242.5	278.4	309.3	320.6
57.5°	203.4	226.8	266.8	299.2	311.3
60°	185.0	211.5	254.8	289.9	302.0
62.5°	166.3	196.3	243.0	279.8	293.4
65°	148.4	180.6	231.4	270.3	283.3
67.5°	129.2	166.3	220.1	259.9	274.7
70°	111.1	151.6	208.8	250.1	264.6
72.5°	92.9	137.3	197.8	240.3	255.0
75°	74.9	124.3	187.0	230.2	245.0
77.5°	57.0	110.6	175.9	220.1	235.6
80°	41.5	98.5	166.1	209.8	224.8
82.5°	28.3	87.2	155.0	200.0	215.2
85°	15.0	76.2	144.2	189.2	204.9
87.5°	4.4	66.3	133.7	178.6	194.3
90°	0.5	57.2	123.8	168.3	183.5
92.5°	0.7	49.4	114.5	159.0	173.7
95°	1.0	41.5	104.9	148.6	163.1
97.5°	1.0	34.6	95.1	138.1	153.6
100°	1.0	28.0	85.7	127.3	141.5
102.5°	1.0	21.9	76.9	116.5	130.5
105°	1.0	14.7	68.3	106.9	120.1
107.5°	1.0	7.4	59.9	97.5	110.6
110°	1.0	1.5	51.6	88.0	100.5



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	1.0	43.5	77.9	90.7
115°	0.7	0.7	34.4	68.1	80.8
117.5°	0.7	0.7	24.6	59.0	70.5
120°	0.7	0.5	14.2	49.4	60.9
122.5°	0.5	0.5	4.7	38.3	50.9
125°	0.5	0.2	0.2	27.3	38.8
127.5°	0.5	0.2	0.0	15.2	26.3
130°	0.5	0.2	0.0	4.4	15.0
132.5°	0.5	0.2	0.0	0.0	3.2
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)