

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: P289912

Luminaire Tested: **4SSRK-LW-20-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289912
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-L830-CD1-U
Description: 2000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH ROUND FROSTED LENS AND 80 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1796.5 lumens
Efficiency: N/A
Efficacy: 131.1 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

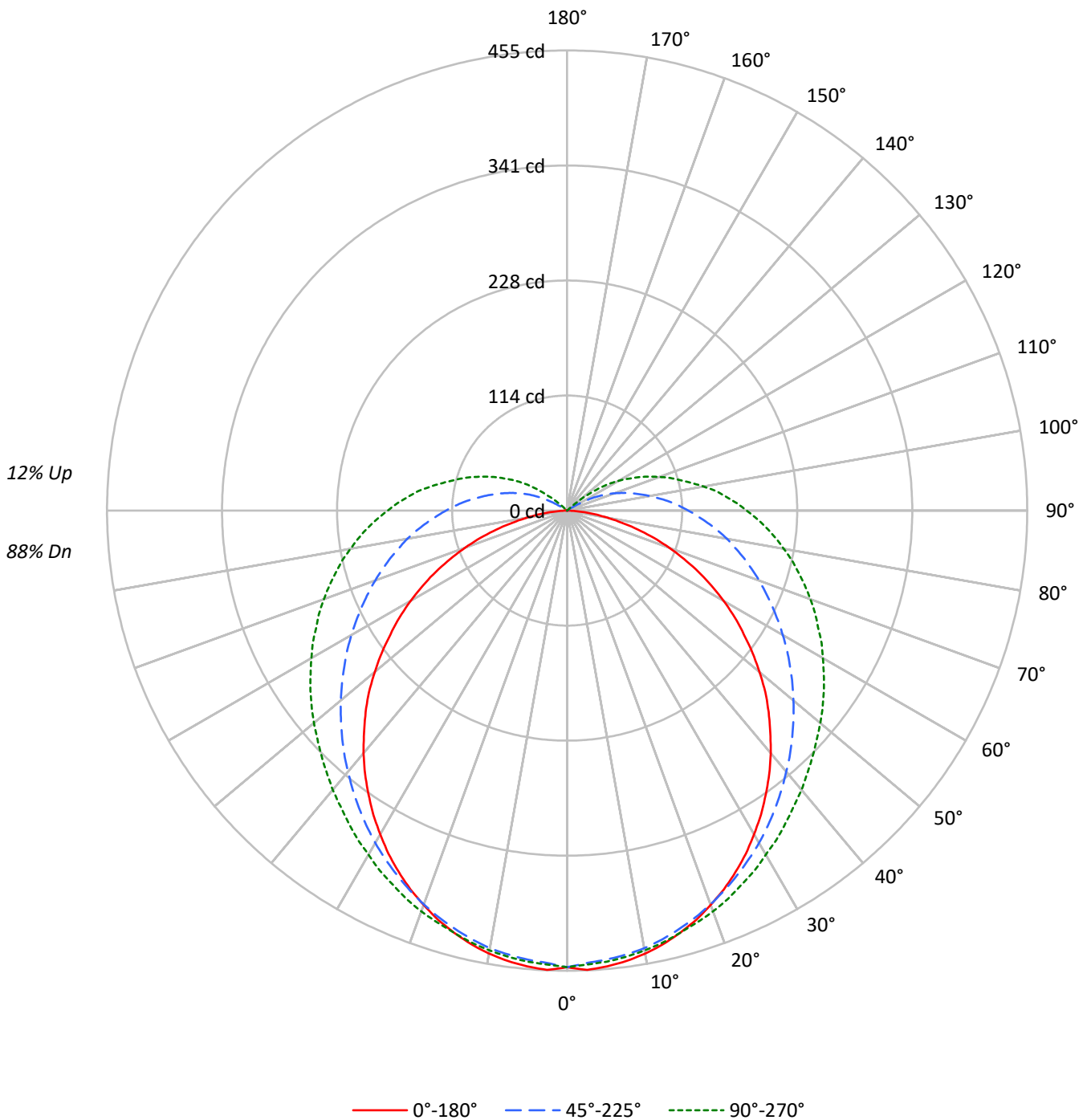
Input Watts (W): 13.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	29159	29159	29159
5°	29222	23120	21500
10°	28957	19160	16986
15°	28565	16214	13948
20°	28089	13960	11804
25°	27555	12152	10147
30°	26908	10680	8851
35°	26238	9429	7818
40°	25521	8361	6977
45°	24700	7455	6273
50°	23758	6661	5694
55°	22668	5963	5198
60°	21540	5347	4756
65°	20116	4795	4368
70°	18180	4307	4029
75°	15635	3865	3710
80°	12063	3469	3412
85°	7278	3068	3142



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.6	2.4
10°-20°	121.7	6.8
20°-30°	184.5	10.3
30°-40°	225.2	12.5
40°-50°	242.6	13.5
50°-60°	238.2	13.3
60°-70°	215.3	12.0
70°-80°	179.2	10.0
80°-90°	137.4	7.7
90°-100°	99.5	5.5
100°-110°	64.3	3.6
110°-120°	34.6	1.9
120°-130°	11.0	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°	348.9	19.4
0°-40°	574.1	32.0
0°-60°	1054.9	58.7
0°-90°	1586.8	88.3
90°-120°	198.4	11.0
90°-150°	209.8	11.7
90°-180°	210.0	11.7
0°-180°	1796.5	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	452	452	452	452	452	
5°	452	451	446	449	448	43
15°	432	431	428	433	432	122
25°	394	395	398	406	408	182
35°	342	347	359	373	377	214
45°	282	292	315	336	343	217
55°	213	234	269	299	310	191
65°	143	175	224	261	274	142
75°	72	120	181	222	237	77
85°	14	74	139	183	198	17
90°	0	55	120	163	177	1
95°	1	40	101	144	158	1
105°	1	14	66	103	116	1
115°	1	1	33	66	78	1
125°	0	0	0	26	38	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°	451.5	451.5	451.5	451.5	451.5
2.5°	454.6	452.7	447.7	450.8	449.3
5°	452.4	450.8	445.8	449.1	447.7
7.5°	449.3	447.7	442.9	446.3	445.1
10°	444.8	443.2	439.4	442.7	441.7
12.5°	439.1	437.9	434.4	438.4	437.5
15°	432.0	431.1	428.2	433.0	432.2
17.5°	424.4	423.5	421.8	426.8	427.0
20°	414.9	414.7	414.4	420.8	421.8
22.5°	405.2	405.4	406.4	414.2	415.6
25°	394.2	394.7	397.8	406.4	408.0
27.5°	382.6	384.3	388.8	398.8	401.4
30°	369.5	372.4	379.5	390.0	392.8
32.5°	356.7	359.8	369.3	381.7	385.5
35°	342.5	347.0	358.9	373.1	376.9
37.5°	328.2	333.4	348.2	363.6	368.4
40°	313.3	320.1	337.0	354.3	360.5
42.5°	297.1	306.8	326.3	344.8	351.7
45°	281.7	292.4	314.9	335.6	343.4
47.5°	265.8	278.6	303.5	326.6	334.9
50°	248.2	263.6	292.1	317.5	326.8
52.5°	231.1	249.4	280.7	308.3	318.5
55°	213.3	234.4	269.1	299.0	309.9
57.5°	196.6	219.2	257.9	289.3	300.9
60°	178.8	204.5	246.3	280.2	291.9
62.5°	160.8	189.8	234.9	270.5	283.6
65°	143.4	174.6	223.7	261.2	273.8
67.5°	124.9	160.8	212.8	251.3	265.5
70°	107.3	146.5	201.9	241.8	255.8
72.5°	89.8	132.8	191.2	232.3	246.5
75°	72.4	120.2	180.7	222.5	236.8
77.5°	55.1	106.9	170.0	212.8	227.8
80°	40.1	95.2	160.5	202.8	217.3
82.5°	27.3	84.3	149.9	193.3	208.0
85°	14.5	73.6	139.4	182.9	198.1
87.5°	4.3	64.1	129.2	172.7	187.9
90°	0.5	55.3	119.7	162.7	177.4
92.5°	0.7	47.7	110.7	153.7	167.9
95°	0.9	40.1	101.4	143.7	157.7
97.5°	0.9	33.5	91.9	133.5	148.4
100°	0.9	27.1	82.9	123.0	136.8
102.5°	0.9	21.1	74.3	112.6	126.1
105°	0.9	14.2	66.0	103.3	116.1
107.5°	0.9	7.1	57.9	94.3	106.9
110°	0.9	1.4	49.9	85.0	97.1



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.7	0.9	42.0	75.3	87.6
115°	0.7	0.7	33.2	65.8	78.1
117.5°	0.7	0.7	23.7	57.0	68.2
120°	0.7	0.5	13.8	47.7	58.9
122.5°	0.5	0.5	4.5	37.0	49.2
125°	0.5	0.2	0.2	26.4	37.5
127.5°	0.5	0.2	0.0	14.7	25.4
130°	0.5	0.2	0.0	4.3	14.5
132.5°	0.5	0.2	0.0	0.0	3.1
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)