

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: P289736

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289736
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-6)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 4SSRK-TS-20-L830-CD1-U
Description: 2000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH TRILOBE SMOOTH LENS AND 80 CRI 3000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1819.1 lumens
Efficiency: N/A
Efficacy: 132.8 lumens/watt
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.4
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 4' x H: 0.17')
CIE Type: Semi-Direct

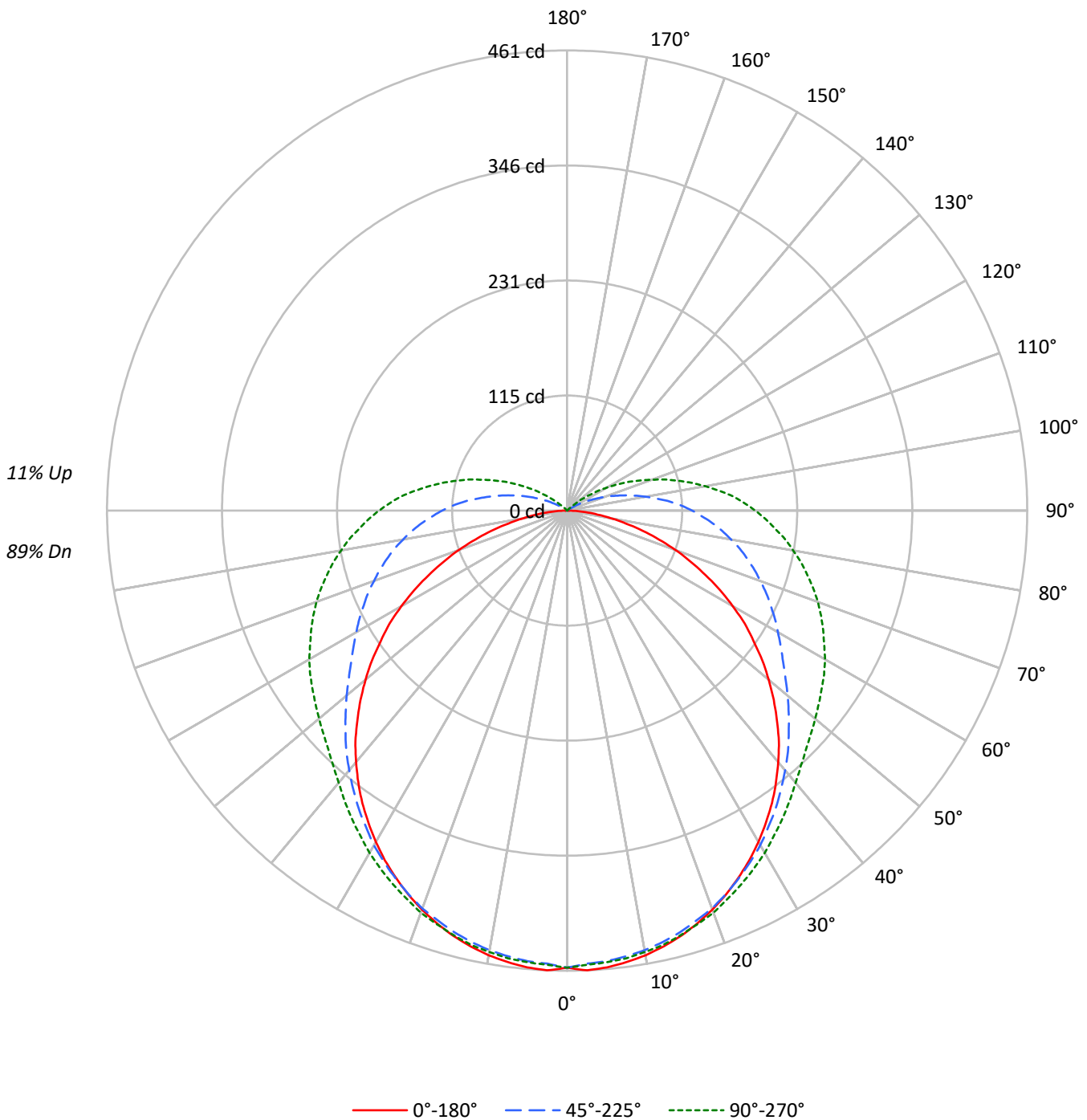
Input Watts (W): 13.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	92	92	92	89				
1	103	97	91	87	99	94	89	84	87	83	79	81	78	75	76	73	71	68				
2	93	83	75	68	89	80	73	67	75	68	63	70	65	60	65	61	57	54				
3	84	72	63	56	80	69	61	54	65	58	52	61	55	50	57	52	47	45				
4	76	63	54	46	73	61	52	45	57	50	44	53	47	42	50	45	40	37				
5	70	56	47	39	67	54	45	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	41	35	30	28				
7	60	46	36	30	57	44	36	29	42	34	28	39	33	28	37	31	27	24				
8	56	41	33	27	53	40	32	26	38	31	25	36	29	25	34	28	24	22				
9	52	38	29	24	50	37	29	23	35	28	23	33	27	22	31	26	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°	29573	29573	29573
5°	29668	23499	21817
10°	29452	19500	17271
15°	29160	16555	14209
20°	28793	14290	11997
25°	28373	12421	10272
30°	27913	10893	8921
35°	27402	9570	7808
40°	26792	8426	6890
45°	26067	7434	6182
50°	25232	6574	5652
55°	24230	5852	5223
60°	23094	5295	4860
65°	21491	4821	4514
70°	19603	4392	4208
75°	16974	3998	3902
80°	13658	3609	3610
85°	9286	3225	3318



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.3	2.4
10°-20°	124.1	6.8
20°-30°	188.5	10.4
30°-40°	229.1	12.6
40°-50°	244.5	13.4
50°-60°	239.8	13.2
60°-70°	219.1	12.0
70°-80°	185.9	10.2
80°-90°	144.7	8.0
90°-100°	102.0	5.6
100°-110°	60.6	3.3
110°-120°	28.7	1.6
120°-130°	8.3	0.5
130°-140°	0.5	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°	355.9	19.6
0°-40°	585.0	32.2
0°-60°	1069.3	58.8
0°-90°	1619.0	89.0
90°-120°	191.4	10.5
90°-150°	200.1	11.0
90°-180°	200.0	11.0
0°-180°	1819.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	458	458	458	458	458	
5°	459	458	453	456	454	44
15°	441	440	437	441	440	124
25°	406	406	407	413	413	187
35°	358	360	364	373	376	224
45°	297	302	314	331	338	229
55°	228	238	264	298	311	204
65°	153	173	225	268	283	152
75°	79	119	187	233	249	83
85°	18	76	146	193	209	21
90°	1	56	125	172	188	2
95°	1	38	103	149	166	1
105°	1	10	59	100	115	1
115°	1	1	24	55	68	1
125°	1	0	1	18	27	1
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



TEST NUMBER: P289736

CATALOG NUMBER: 4SSRK-TS-20-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	457.9	457.9	457.9	457.9	457.9
2.5°	461.0	459.3	454.3	456.9	455.5
5°	459.3	457.6	453.1	455.7	454.3
7.5°	456.2	455.0	450.5	453.4	452.4
10°	452.4	451.2	447.2	450.5	449.1
12.5°	447.2	446.0	442.7	446.0	445.5
15°	441.0	440.1	437.2	441.0	440.3
17.5°	433.7	432.9	430.6	435.3	434.4
20°	425.3	424.9	424.2	428.4	428.7
22.5°	416.3	416.3	415.8	420.6	420.8
25°	405.9	406.1	406.6	413.0	413.0
27.5°	395.2	395.9	397.1	403.3	404.7
30°	383.3	384.5	387.1	393.8	395.9
32.5°	370.7	372.6	375.5	383.8	385.9
35°	357.7	359.6	364.3	373.3	376.4
37.5°	343.7	345.8	352.0	362.2	366.2
40°	328.9	331.3	339.6	352.4	356.0
42.5°	314.0	317.3	327.5	341.3	346.7
45°	297.3	302.3	314.0	330.6	338.4
47.5°	280.7	286.7	301.1	321.6	331.1
50°	263.6	270.3	288.3	313.5	324.4
52.5°	246.5	253.9	275.7	305.9	317.8
55°	228.0	237.7	264.1	298.5	311.4
57.5°	210.9	221.3	253.6	291.2	305.2
60°	191.7	205.0	243.9	283.6	298.3
62.5°	172.7	188.6	234.6	275.7	290.2
65°	153.2	172.9	224.9	267.9	282.9
67.5°	133.9	157.0	215.9	259.8	275.3
70°	115.7	143.2	205.9	251.5	267.2
72.5°	96.4	131.1	196.6	242.7	258.4
75°	78.6	119.2	186.9	233.2	249.1
77.5°	60.6	108.1	177.4	223.7	240.1
80°	45.4	97.6	167.0	213.7	229.9
82.5°	30.9	87.2	156.7	203.5	220.4
85°	18.5	76.0	146.5	193.1	209.2
87.5°	8.3	66.3	135.4	182.4	199.3
90°	1.4	56.3	125.2	172.2	188.3
92.5°	1.7	47.3	114.7	161.3	177.4
95°	1.4	37.8	103.3	149.1	166.5
97.5°	1.4	29.7	91.2	137.3	153.2
100°	1.2	22.1	79.6	124.7	140.4
102.5°	1.2	15.7	69.1	112.3	128.0
105°	1.2	10.2	58.9	100.0	115.2
107.5°	1.2	5.7	48.9	88.1	103.5
110°	1.2	2.1	39.9	77.4	90.2



TEST NUMBER: P289736

CATALOG NUMBER: 4SSRK-TS-20-L830-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.9	0.9	31.1	65.5	78.8
115°	0.9	0.9	24.0	54.9	67.9
117.5°	0.9	0.7	16.4	44.9	56.8
120°	0.9	0.7	10.2	35.9	46.1
122.5°	0.7	0.5	5.0	26.6	36.8
125°	0.7	0.5	1.2	18.3	26.8
127.5°	0.7	0.2	0.0	10.9	18.5
130°	0.5	0.2	0.0	5.2	10.9
132.5°	0.5	0.2	0.0	0.9	4.7
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)