

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: P289744

Luminaire Tested: **4SSRK-TS-30-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289744
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-30-L830-CD1-U
Description: 3000 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: 2750.8 lumens
Efficiency: N/A
Efficacy: 134.8 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

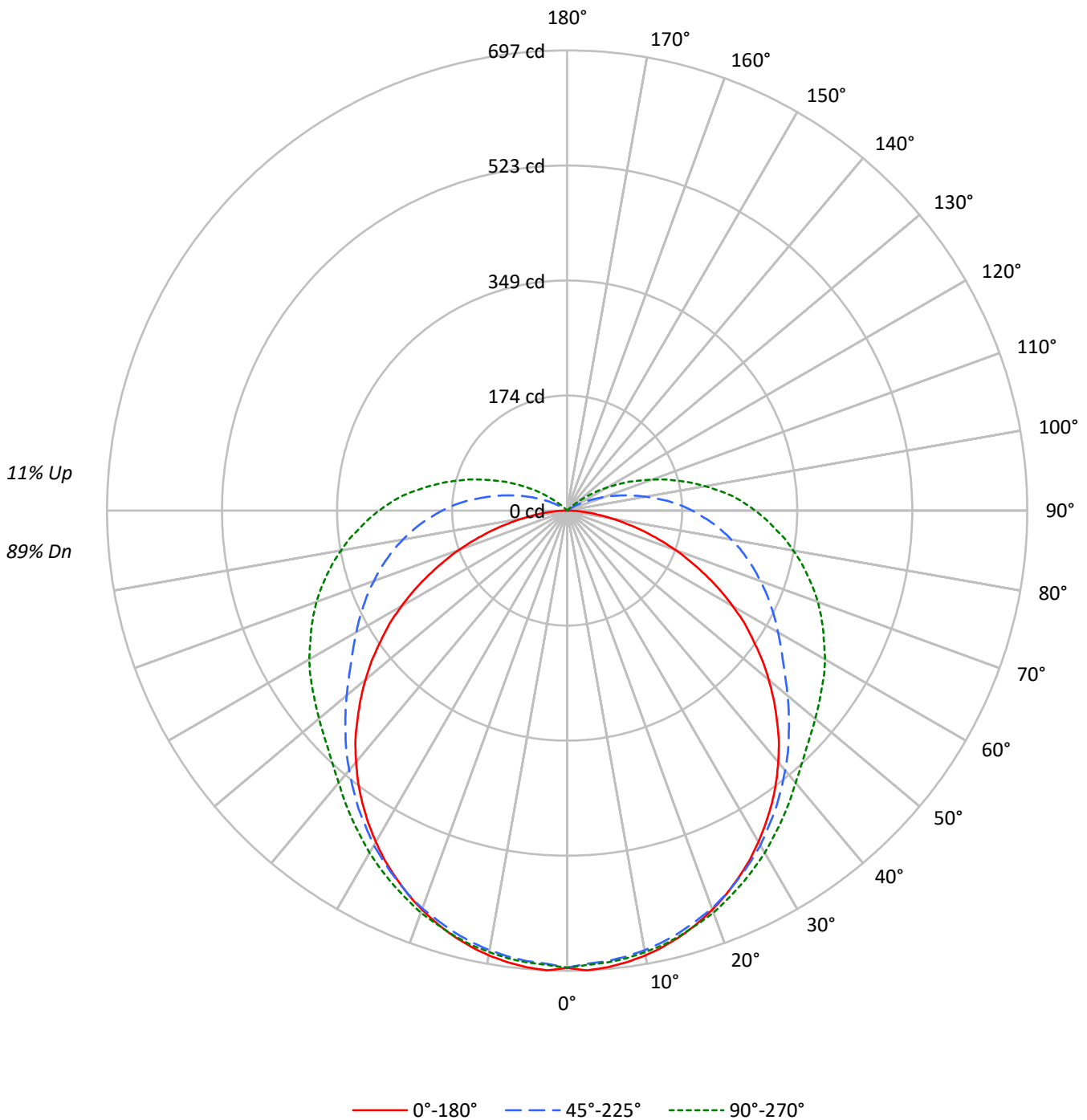
Input Watts (W): 20.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P289744

CATALOG NUMBER: 4SSRK-TS-30-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P289744

CATALOG NUMBER: 4SSRK-TS-30-L830-CD1-U

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	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°	44717	44717	44717
5°	44861	35536	32992
10°	44536	29486	26116
15°	44097	25033	21487
20°	43545	21607	18140
25°	42898	18781	15532
30°	42208	16474	13491
35°	41429	14473	11807
40°	40518	12740	10417
45°	39421	11241	9349
50°	38154	9943	8547
55°	36643	8848	7897
60°	34913	8006	7349
65°	32489	7291	6824
70°	29634	6643	6363
75°	25676	6045	5901
80°	20637	5457	5458
85°	14055	4878	5018



TEST NUMBER: P289744

CATALOG NUMBER: 4SSRK-TS-30-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.5	2.4
10°-20°	187.7	6.8
20°-30°	285.0	10.4
30°-40°	346.4	12.6
40°-50°	369.7	13.4
50°-60°	362.6	13.2
60°-70°	331.3	12.0
70°-80°	281.2	10.2
80°-90°	218.8	8.0
90°-100°	154.3	5.6
100°-110°	91.7	3.3
110°-120°	43.4	1.6
120°-130°	12.6	0.5
130°-140°	0.7	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°	538.2	19.6
0°-40°	884.6	32.2
0°-60°	1616.9	58.8
0°-90°	2448.2	89.0
90°-120°	289.4	10.5
90°-150°	302.7	11.0
90°-180°	303.0	11.0
0°-180°	2750.8	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	692	692	692	692	692	
5°	694	692	685	689	687	66
15°	667	666	661	667	666	188
25°	614	614	615	624	624	283
35°	541	544	551	564	569	338
45°	450	457	475	500	512	347
55°	345	360	399	451	471	309
65°	232	261	340	405	428	229
75°	119	180	283	353	377	126
85°	28	115	222	292	316	31
90°	2	85	189	260	285	3
95°	2	57	156	226	252	2
105°	2	15	89	151	174	2
115°	1	1	36	83	103	1
125°	1	1	2	28	41	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: P289744

CATALOG NUMBER: 4SSRK-TS-30-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	692.4	692.4	692.4	692.4	692.4
2.5°	697.1	694.5	687.0	691.0	688.8
5°	694.5	692.0	685.2	689.2	687.0
7.5°	689.9	688.1	681.3	685.6	684.1
10°	684.1	682.3	676.2	681.3	679.1
12.5°	676.2	674.4	669.4	674.4	673.7
15°	666.9	665.5	661.1	666.9	665.8
17.5°	655.8	654.7	651.1	658.3	656.8
20°	643.2	642.5	641.4	647.9	648.2
22.5°	629.5	629.5	628.8	636.0	636.4
25°	613.7	614.1	614.8	624.5	624.5
27.5°	597.6	598.7	600.5	609.8	611.9
30°	579.6	581.4	585.4	595.4	598.7
32.5°	560.6	563.5	567.8	580.3	583.6
35°	540.8	543.7	550.9	564.5	569.2
37.5°	519.7	522.9	532.2	547.7	553.8
40°	497.4	501.0	513.5	532.9	538.3
42.5°	474.8	479.8	495.2	516.1	524.3
45°	449.6	457.2	474.8	499.9	511.8
47.5°	424.5	433.5	455.4	486.3	500.6
50°	398.6	408.7	436.0	474.0	490.6
52.5°	372.8	383.9	416.9	462.6	480.5
55°	344.8	359.5	399.3	451.4	470.8
57.5°	318.9	334.7	383.5	440.3	461.5
60°	289.8	309.9	368.8	428.8	451.1
62.5°	261.1	285.1	354.8	416.9	438.8
65°	231.6	261.4	340.1	405.1	427.7
67.5°	202.5	237.4	326.4	392.9	416.2
70°	174.9	216.6	311.4	380.3	404.0
72.5°	145.8	198.2	297.4	367.0	390.7
75°	118.9	180.3	282.6	352.7	376.7
77.5°	91.6	163.4	268.3	338.3	363.1
80°	68.6	147.6	252.5	323.2	347.6
82.5°	46.7	131.8	237.0	307.8	333.3
85°	28.0	114.9	221.6	292.0	316.4
87.5°	12.6	100.2	204.7	275.8	301.3
90°	2.2	85.1	189.3	260.4	284.8
92.5°	2.5	71.5	173.5	243.8	268.3
95°	2.2	57.1	156.2	225.5	251.7
97.5°	2.2	44.9	137.9	207.6	231.6
100°	1.8	33.4	120.3	188.5	212.2
102.5°	1.8	23.7	104.5	169.9	193.6
105°	1.8	15.4	89.1	151.2	174.2
107.5°	1.8	8.6	74.0	133.2	156.6
110°	1.8	3.2	60.3	117.1	136.5



TEST NUMBER: P289744

CATALOG NUMBER: 4SSRK-TS-30-L830-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.4	1.4	47.0	99.1	119.2
115°	1.4	1.4	36.3	83.0	102.7
117.5°	1.4	1.1	24.8	67.9	85.8
120°	1.4	1.1	15.4	54.2	69.7
122.5°	1.1	0.7	7.5	40.2	55.7
125°	1.1	0.7	1.8	27.7	40.6
127.5°	1.1	0.4	0.0	16.5	28.0
130°	0.7	0.4	0.0	7.9	16.5
132.5°	0.7	0.4	0.0	1.4	7.2
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)