

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: P289752

Luminaire Tested: **4SSRK-TS-40-L830-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289752
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-40-L830-CD1-U
Description: 4000 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: 3657.6 lumens
Efficiency: N/A
Efficacy: 132.0 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

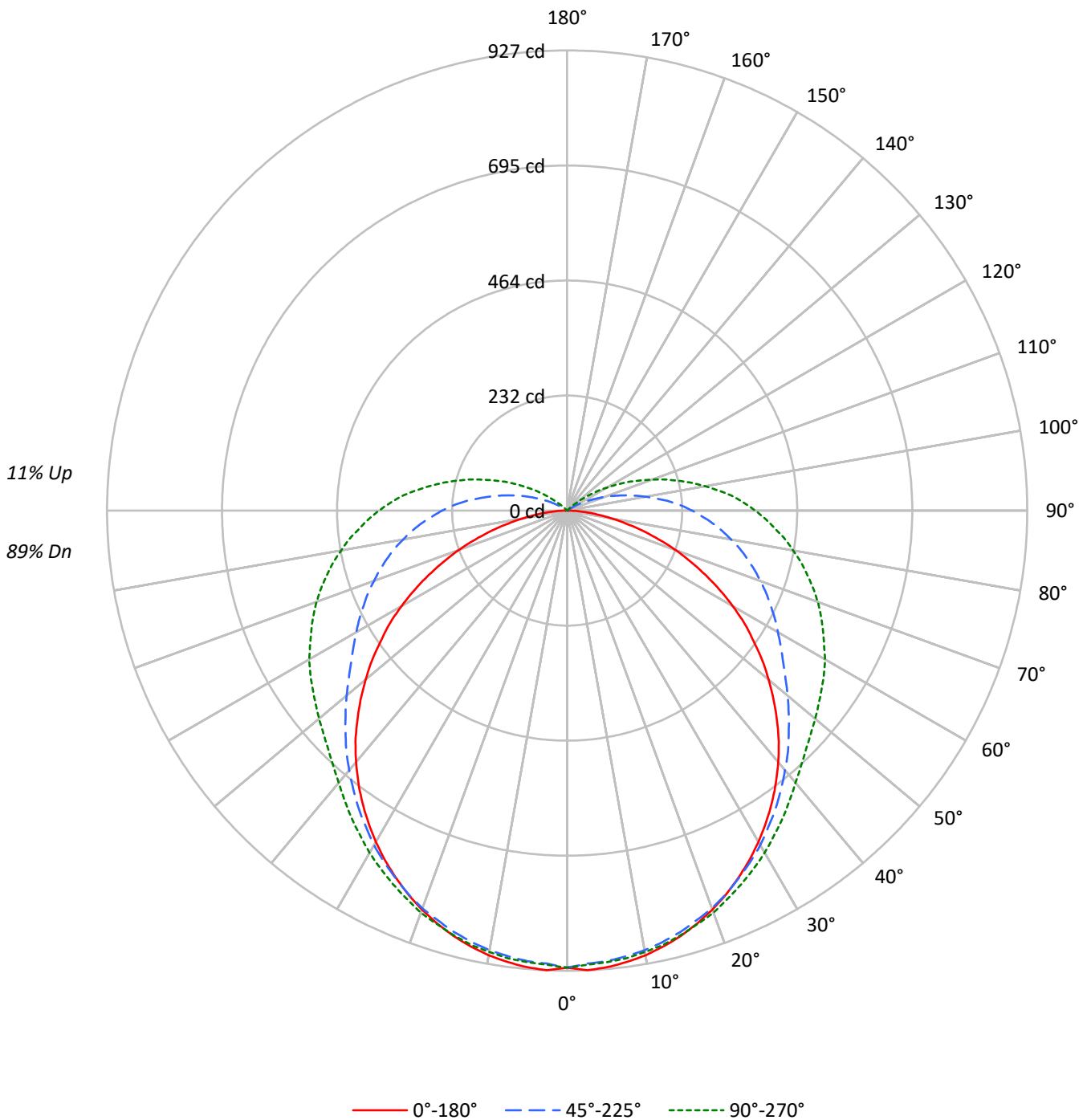
Input Watts (W): 27.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P289752

CATALOG NUMBER: 4SSRK-TS-40-L830-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P289752

CATALOG NUMBER: 4SSRK-TS-40-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	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°	59455	59455	59455
5°	59653	47252	43870
10°	59222	39206	34726
15°	58631	33287	28571
20°	57898	28728	24120
25°	57046	24974	20652
30°	56124	21902	17937
35°	55088	19243	15701
40°	53877	16941	13853
45°	52416	14946	12431
50°	50732	13220	11364
55°	48716	11766	10501
60°	46418	10646	9772
65°	43207	9694	9074
70°	39393	8831	8460
75°	34142	8038	7847
80°	27436	7256	7258
85°	18673	6484	6673



TEST NUMBER: P289752

CATALOG NUMBER: 4SSRK-TS-40-L830-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.1	2.4
10°-20°	249.5	6.8
20°-30°	378.9	10.4
30°-40°	460.6	12.6
40°-50°	491.6	13.4
50°-60°	482.1	13.2
60°-70°	440.5	12.0
70°-80°	373.8	10.2
80°-90°	290.9	8.0
90°-100°	205.1	5.6
100°-110°	121.9	3.3
110°-120°	57.7	1.6
120°-130°	16.7	0.5
130°-140°	1.0	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°	715.6	19.6
0°-40°	1176.2	32.2
0°-60°	2150.0	58.8
0°-90°	3255.2	89.0
90°-120°	384.7	10.5
90°-150°	402.4	11.0
90°-180°	402.0	11.0
0°-180°	3657.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	921	921	921	921	921	
5°	924	920	911	916	914	88
15°	887	885	879	887	885	250
25°	816	816	818	830	830	376
35°	719	723	732	751	757	450
45°	598	608	631	665	680	461
55°	458	478	531	600	626	411
65°	308	348	452	539	569	305
75°	158	240	376	469	501	168
85°	37	153	295	388	421	42
90°	3	113	252	346	379	4
95°	3	76	208	300	335	2
105°	2	20	118	201	232	3
115°	2	2	48	110	137	2
125°	1	1	2	37	54	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: P289752

CATALOG NUMBER: 4SSRK-TS-40-L830-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	920.6	920.6	920.6	920.6	920.6
2.5°	926.8	923.5	913.5	918.7	915.9
5°	923.5	920.2	911.1	916.3	913.5
7.5°	917.3	914.9	905.8	911.6	909.7
10°	909.7	907.3	899.1	905.8	903.0
12.5°	899.1	896.8	890.1	896.8	895.8
15°	886.7	884.8	879.1	886.7	885.3
17.5°	871.9	870.5	865.7	875.3	873.4
20°	855.2	854.3	852.8	861.4	861.9
22.5°	837.1	837.1	836.1	845.7	846.1
25°	816.1	816.5	817.5	830.4	830.4
27.5°	794.6	796.0	798.4	810.8	813.7
30°	770.7	773.1	778.3	791.7	796.0
32.5°	745.4	749.2	754.9	771.7	776.0
35°	719.1	722.9	732.5	750.6	756.9
37.5°	691.0	695.3	707.7	728.2	736.3
40°	661.4	666.1	682.8	708.6	715.8
42.5°	631.3	638.0	658.5	686.2	697.2
45°	597.8	607.9	631.3	664.7	680.5
47.5°	564.4	576.4	605.5	646.5	665.6
50°	530.0	543.4	579.7	630.3	652.3
52.5°	495.7	510.5	554.4	615.0	638.9
55°	458.4	478.0	531.0	600.2	626.0
57.5°	424.0	445.0	510.0	585.4	613.6
60°	385.3	412.1	490.4	570.1	599.8
62.5°	347.1	379.1	471.8	554.4	583.5
65°	308.0	347.6	452.2	538.6	568.7
67.5°	269.3	315.6	434.1	522.4	553.4
70°	232.5	287.9	414.0	505.7	537.2
72.5°	193.9	263.6	395.4	488.0	519.5
75°	158.1	239.7	375.8	468.9	500.9
77.5°	121.8	217.3	356.7	449.8	482.8
80°	91.2	196.3	335.7	429.8	462.2
82.5°	62.1	175.2	315.2	409.2	443.1
85°	37.2	152.8	294.6	388.2	420.7
87.5°	16.7	133.2	272.2	366.7	400.6
90°	2.9	113.2	251.6	346.2	378.7
92.5°	3.3	95.0	230.6	324.2	356.7
95°	2.9	75.9	207.7	299.9	334.7
97.5°	2.9	59.7	183.4	276.0	308.0
100°	2.4	44.4	160.0	250.7	282.2
102.5°	2.4	31.5	139.0	225.9	257.4
105°	2.4	20.5	118.4	201.0	231.6
107.5°	2.4	11.5	98.4	177.2	208.2
110°	2.4	4.3	80.2	155.7	181.5



TEST NUMBER: P289752

CATALOG NUMBER: 4SSRK-TS-40-L830-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.9	1.9	62.6	131.8	158.5
115°	1.9	1.9	48.2	110.3	136.6
117.5°	1.9	1.4	32.9	90.2	114.1
120°	1.9	1.4	20.5	72.1	92.6
122.5°	1.4	1.0	10.0	53.5	74.0
125°	1.4	1.0	2.4	36.8	54.0
127.5°	1.4	0.5	0.0	22.0	37.2
130°	1.0	0.5	0.0	10.5	22.0
132.5°	1.0	0.5	0.0	1.9	9.6
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)