

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: P289750

Luminaire Tested: **4SSRK-TS-40-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289750
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-L940-CD1-U
Description: 4000 LUMEN, 4 FOOT SSRK LED LUMINAIRE WITH TRILOBE SMOOTH LENS AND 90 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3201.1 lumens
Efficiency: N/A
Efficacy: 115.6 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

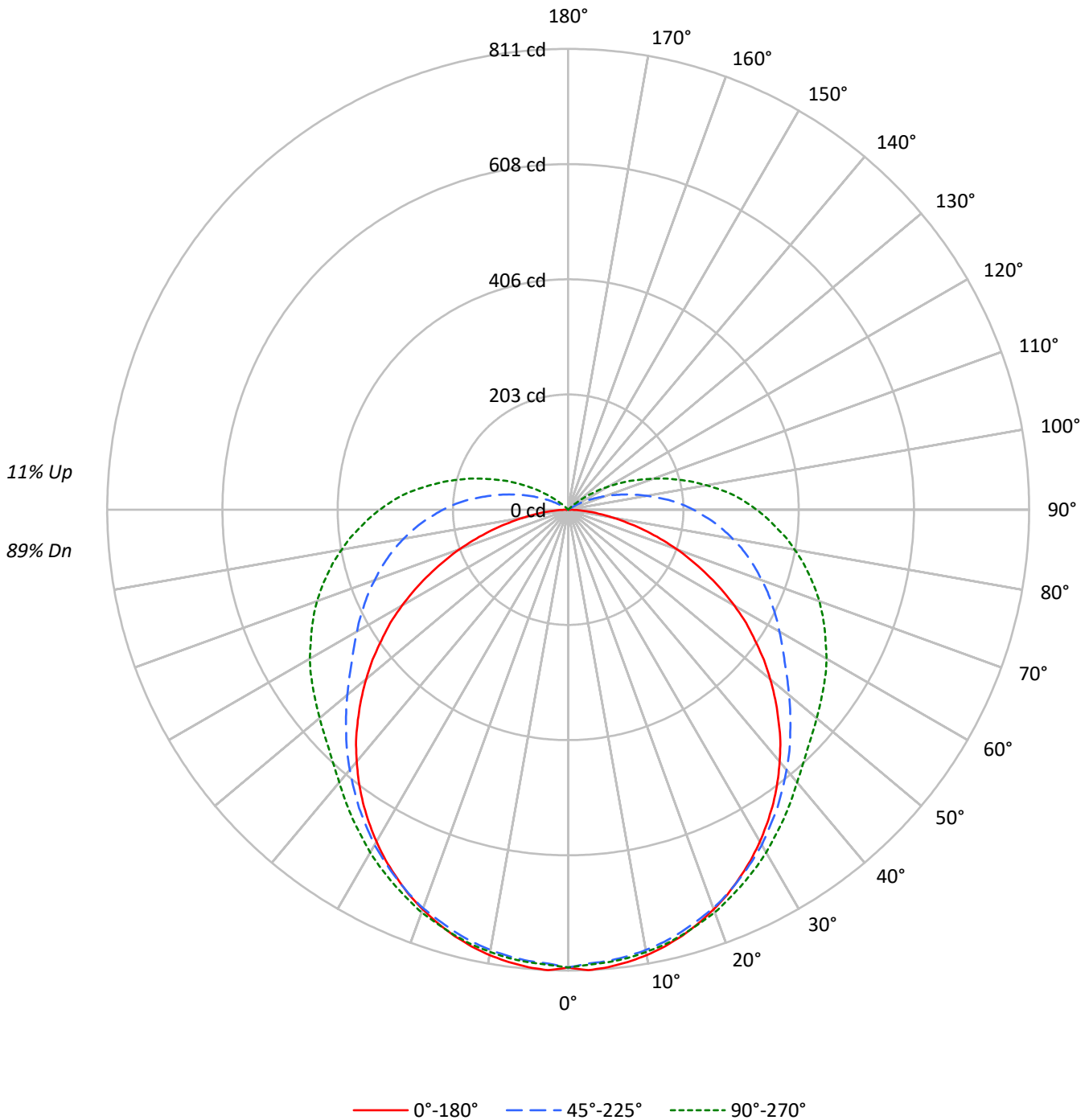
Input Watts (W): 27.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	52035	52035	52035
5°	52205	41355	38395
10°	51827	34313	30392
15°	51318	29134	25004
20°	50674	25144	21109
25°	49923	21858	18073
30°	49119	19170	15699
35°	48216	16842	13740
40°	47149	14827	12122
45°	45875	13080	10878
50°	44405	11569	9946
55°	42637	10297	9191
60°	40635	9317	8552
65°	37820	8485	7941
70°	34479	7729	7404
75°	29866	7035	6868
80°	24006	6350	6352
85°	16364	5677	5840



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.2	2.4
10°-20°	218.4	6.8
20°-30°	331.6	10.4
30°-40°	403.1	12.6
40°-50°	430.2	13.4
50°-60°	422.0	13.2
60°-70°	385.5	12.0
70°-80°	327.2	10.2
80°-90°	254.6	8.0
90°-100°	179.5	5.6
100°-110°	106.7	3.3
110°-120°	50.5	1.6
120°-130°	14.6	0.5
130°-140°	0.8	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°	626.3	19.6
0°-40°	1029.4	32.2
0°-60°	1881.6	58.8
0°-90°	2848.9	89.0
90°-120°	336.7	10.5
90°-150°	352.2	11.0
90°-180°	352.0	11.0
0°-180°	3201.1	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	806	806	806	806	806	
5°	808	805	797	802	800	77
15°	776	774	769	776	775	219
25°	714	715	716	727	727	329
35°	629	633	641	657	662	394
45°	523	532	552	582	596	404
55°	401	418	465	525	548	359
65°	270	304	396	471	498	267
75°	138	210	329	410	438	147
85°	33	134	258	340	368	36
90°	2	99	220	303	331	3
95°	2	66	182	262	293	2
105°	2	18	104	176	203	2
115°	2	2	42	96	120	2
125°	1	1	2	32	47	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



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CATALOG NUMBER: 4SSRK-TS-40-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	805.7	805.7	805.7	805.7	805.7
2.5°	811.2	808.2	799.5	804.1	801.6
5°	808.2	805.3	797.4	802.0	799.5
7.5°	802.8	800.7	792.8	797.8	796.1
10°	796.1	794.0	786.9	792.8	790.3
12.5°	786.9	784.8	779.0	784.8	784.0
15°	776.1	774.4	769.4	776.1	774.8
17.5°	763.1	761.8	757.7	766.0	764.4
20°	748.5	747.6	746.4	753.9	754.3
22.5°	732.6	732.6	731.8	740.1	740.5
25°	714.2	714.6	715.5	726.7	726.7
27.5°	695.4	696.7	698.7	709.6	712.1
30°	674.5	676.6	681.2	692.9	696.7
32.5°	652.4	655.7	660.7	675.3	679.1
35°	629.4	632.7	641.1	657.0	662.4
37.5°	604.7	608.5	619.3	637.3	644.4
40°	578.8	583.0	597.6	620.2	626.4
42.5°	552.5	558.3	576.3	600.5	610.1
45°	523.2	532.0	552.5	581.7	595.5
47.5°	494.0	504.4	529.9	565.8	582.6
50°	463.9	475.6	507.3	551.6	570.9
52.5°	433.8	446.7	485.2	538.3	559.2
55°	401.2	418.3	464.7	525.3	547.9
57.5°	371.1	389.5	446.3	512.4	537.0
60°	337.3	360.7	429.2	499.0	524.9
62.5°	303.8	331.8	412.9	485.2	510.7
65°	269.6	304.2	395.8	471.4	497.7
67.5°	235.7	276.2	379.9	457.2	484.4
70°	203.5	252.0	362.3	442.6	470.1
72.5°	169.7	230.7	346.0	427.1	454.7
75°	138.3	209.8	328.9	410.4	438.4
77.5°	106.6	190.1	312.2	393.7	422.5
80°	79.8	171.8	293.8	376.1	404.5
82.5°	54.3	153.4	275.8	358.1	387.8
85°	32.6	133.7	257.9	339.8	368.2
87.5°	14.6	116.6	238.2	321.0	350.6
90°	2.5	99.0	220.2	303.0	331.4
92.5°	2.9	83.2	201.9	283.8	312.2
95°	2.5	66.4	181.8	262.4	293.0
97.5°	2.5	52.2	160.5	241.6	269.6
100°	2.1	38.9	140.0	219.4	247.0
102.5°	2.1	27.6	121.6	197.7	225.3
105°	2.1	18.0	103.6	175.9	202.7
107.5°	2.1	10.0	86.1	155.0	182.2
110°	2.1	3.8	70.2	136.2	158.8



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	1.7	1.7	54.7	115.3	138.7
115°	1.7	1.7	42.2	96.5	119.5
117.5°	1.7	1.3	28.8	79.0	99.9
120°	1.7	1.3	18.0	63.1	81.1
122.5°	1.3	0.8	8.8	46.8	64.8
125°	1.3	0.8	2.1	32.2	47.2
127.5°	1.3	0.4	0.0	19.2	32.6
130°	0.8	0.4	0.0	9.2	19.2
132.5°	0.8	0.4	0.0	1.7	8.4
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)