

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: P289734

Luminaire Tested: **4SSRK-TS-20-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289734
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-L940-CD1-U
Description: 2000 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: 1592.0 lumens
Efficiency: N/A
Efficacy: 116.2 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

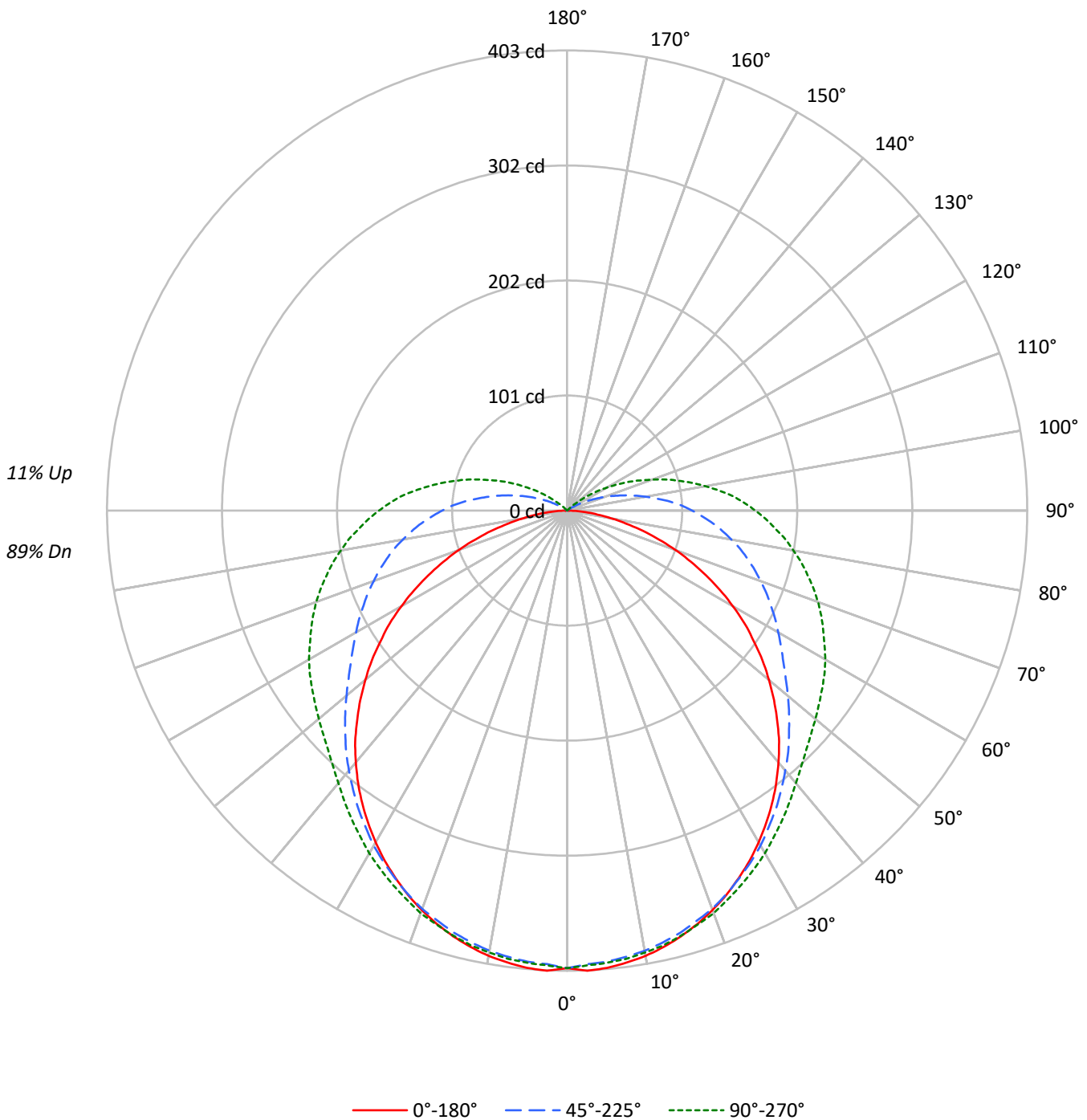
Input Watts (W): 13.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P289734

CATALOG NUMBER: 4SSRK-TS-20-L940-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P289734

CATALOG NUMBER: 4SSRK-TS-20-L940-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	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°	25878	25878	25878
5°	25967	20569	19094
10°	25780	17067	15113
15°	25523	14491	12438
20°	25205	12505	10500
25°	24829	10869	8991
30°	24432	9534	7808
35°	23978	8375	6833
40°	23452	7374	6030
45°	22815	6506	5411
50°	22083	5754	4946
55°	21201	5121	4571
60°	20203	4635	4254
65°	18812	4219	3949
70°	17146	3844	3682
75°	14857	3499	3415
80°	11943	3158	3159
85°	8132	2822	2904



TEST NUMBER: P289734

CATALOG NUMBER: 4SSRK-TS-20-L940-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.9	2.4
10°-20°	108.6	6.8
20°-30°	164.9	10.4
30°-40°	200.5	12.6
40°-50°	214.0	13.4
50°-60°	209.9	13.2
60°-70°	191.7	12.0
70°-80°	162.7	10.2
80°-90°	126.6	8.0
90°-100°	89.3	5.6
100°-110°	53.1	3.3
110°-120°	25.1	1.6
120°-130°	7.3	0.5
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°	311.5	19.6
0°-40°	512.0	32.2
0°-60°	935.8	58.8
0°-90°	1416.9	89.0
90°-120°	167.4	10.5
90°-150°	175.1	11.0
90°-180°	175.0	11.0
0°-180°	1592.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	401	401	401	401	401	
5°	402	400	397	399	398	38
15°	386	385	383	386	385	109
25°	355	355	356	362	362	164
35°	313	315	319	327	329	196
45°	260	265	275	289	296	201
55°	200	208	231	261	272	179
65°	134	151	197	234	248	133
75°	69	104	164	204	218	73
85°	16	66	128	169	183	18
90°	1	49	110	151	165	2
95°	1	33	90	130	146	1
105°	1	9	52	88	101	1
115°	1	1	21	48	59	1
125°	1	0	1	16	24	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: P289734

CATALOG NUMBER: 4SSRK-TS-20-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	400.7	400.7	400.7	400.7	400.7
2.5°	403.4	402.0	397.6	399.9	398.7
5°	402.0	400.5	396.6	398.9	397.6
7.5°	399.3	398.2	394.3	396.8	396.0
10°	396.0	394.9	391.4	394.3	393.0
12.5°	391.4	390.3	387.4	390.3	389.9
15°	386.0	385.1	382.7	386.0	385.4
17.5°	379.5	378.9	376.8	381.0	380.2
20°	372.3	371.8	371.2	375.0	375.2
22.5°	364.4	364.4	363.9	368.1	368.3
25°	355.2	355.4	355.8	361.5	361.5
27.5°	345.9	346.5	347.5	352.9	354.2
30°	335.5	336.5	338.8	344.6	346.5
32.5°	324.5	326.1	328.6	335.9	337.8
35°	313.0	314.7	318.8	326.7	329.4
37.5°	300.8	302.6	308.0	317.0	320.5
40°	287.9	290.0	297.2	308.5	311.6
42.5°	274.8	277.7	286.6	298.7	303.5
45°	260.2	264.6	274.8	289.3	296.2
47.5°	245.7	250.9	263.6	281.4	289.7
50°	230.7	236.5	252.3	274.4	283.9
52.5°	215.7	222.2	241.3	267.7	278.1
55°	199.5	208.1	231.1	261.3	272.5
57.5°	184.6	193.7	222.0	254.8	267.1
60°	167.7	179.4	213.5	248.2	261.1
62.5°	151.1	165.0	205.4	241.3	254.0
65°	134.1	151.3	196.8	234.5	247.5
67.5°	117.2	137.4	188.9	227.4	240.9
70°	101.2	125.3	180.2	220.1	233.8
72.5°	84.4	114.7	172.1	212.4	226.1
75°	68.8	104.3	163.6	204.1	218.0
77.5°	53.0	94.6	155.3	195.8	210.1
80°	39.7	85.4	146.1	187.1	201.2
82.5°	27.0	76.3	137.2	178.1	192.9
85°	16.2	66.5	128.2	169.0	183.1
87.5°	7.3	58.0	118.5	159.6	174.4
90°	1.2	49.3	109.5	150.7	164.8
92.5°	1.5	41.4	100.4	141.1	155.3
95°	1.2	33.0	90.4	130.5	145.7
97.5°	1.2	26.0	79.8	120.1	134.1
100°	1.0	19.3	69.6	109.1	122.8
102.5°	1.0	13.7	60.5	98.3	112.0
105°	1.0	8.9	51.5	87.5	100.8
107.5°	1.0	5.0	42.8	77.1	90.6
110°	1.0	1.9	34.9	67.8	79.0



TEST NUMBER: P289734

CATALOG NUMBER: 4SSRK-TS-20-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.8	0.8	27.2	57.4	69.0
115°	0.8	0.8	21.0	48.0	59.4
117.5°	0.8	0.6	14.3	39.3	49.7
120°	0.8	0.6	8.9	31.4	40.3
122.5°	0.6	0.4	4.4	23.3	32.2
125°	0.6	0.4	1.0	16.0	23.5
127.5°	0.6	0.2	0.0	9.6	16.2
130°	0.4	0.2	0.0	4.6	9.6
132.5°	0.4	0.2	0.0	0.8	4.2
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)