

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: P289643

Luminaire Tested: **8SSRK-TB-40-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289643
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1901-078-1)
Test Lab: INNOVATION CENTER(G3)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: METALUX
Catalog Number: 8SSRK-TB-40-L940-CD1-U
Description: 4000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE RIBBED LENS AND 90 CRI 4000K CCT LEDS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3339.2 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.08 / 1.24
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')
CIE Type: Direct

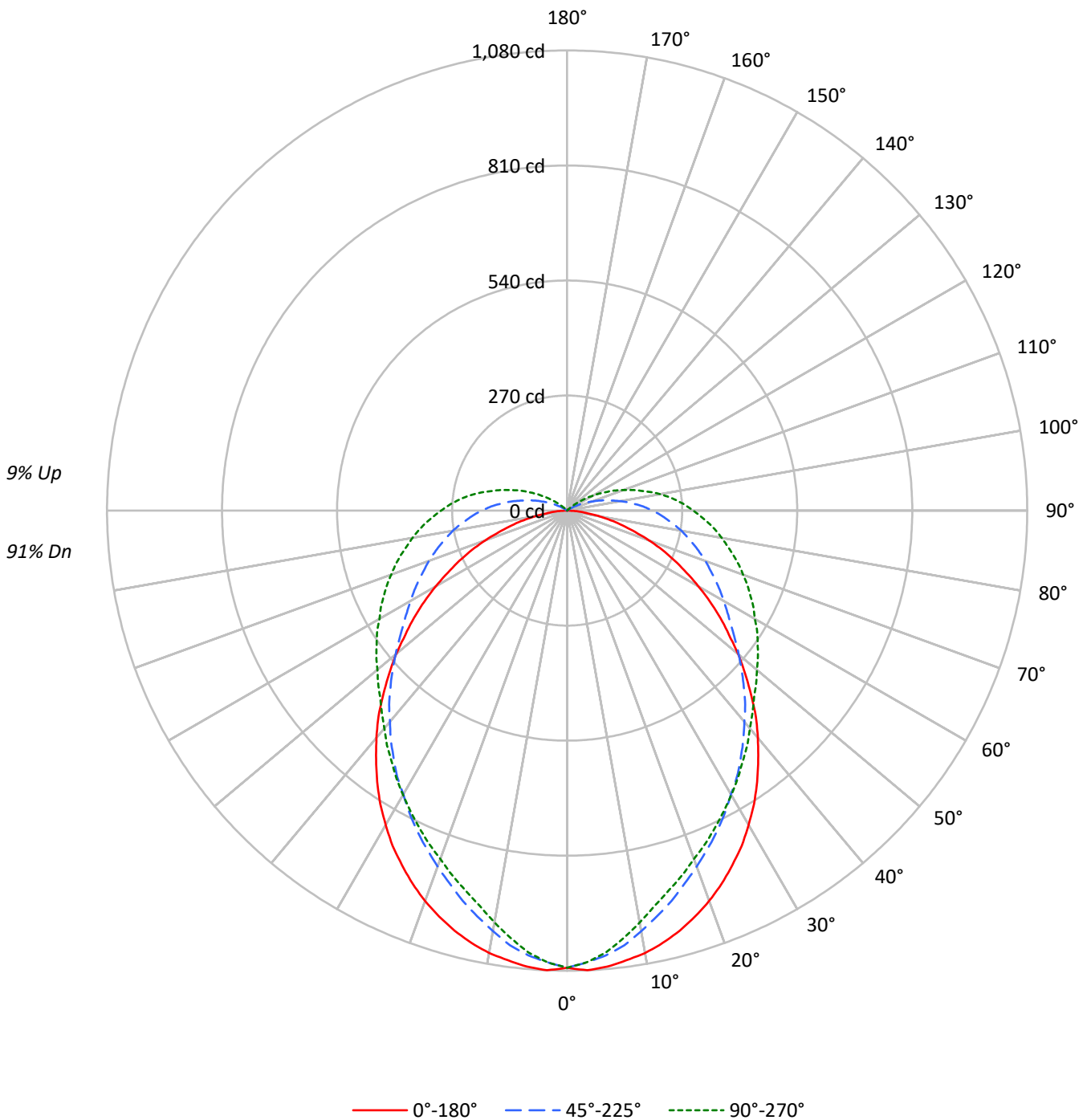
Input Watts (W): 27.0151
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P289643

CATALOG NUMBER: 8SSRK-TB-40-L940-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P289643

CATALOG NUMBER: 8SSRK-TB-40-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	0
RCR																				
0	117	117	117	117	113	113	113	113	106	106	106		99	99	99		93	93	93	91
1	104	98	93	89	100	95	90	86	89	85	82		84	80	78		78	76	74	71
2	94	85	77	71	90	82	75	69	77	71	66		72	67	63		68	64	60	58
3	85	74	65	58	82	72	64	57	67	60	55		63	58	53		60	55	51	48
4	78	65	56	49	75	63	55	48	60	52	47		56	50	45		53	48	43	41
5	72	58	49	42	69	57	48	41	53	46	40		50	44	39		48	42	38	35
6	66	53	43	37	64	51	42	36	48	41	35		46	39	34		43	38	33	31
7	61	48	39	32	59	46	38	32	44	37	31		42	35	30		40	34	29	27
8	57	44	35	29	55	42	34	29	40	33	28		38	32	27		36	31	26	24
9	54	40	32	26	52	39	31	26	37	30	25		35	29	24		34	28	24	22
10	50	37	29	24	48	36	28	23	34	28	23		33	27	22		31	26	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	34649	34649	34649
5°	34773	27196	24994
10°	34447	21886	18878
15°	33930	17988	14887
20°	33253	15010	12176
25°	32379	12737	10212
30°	31380	10854	8681
35°	30201	9354	7449
40°	28843	8058	6459
45°	27288	6968	5665
50°	25676	6016	5064
55°	24017	5227	4578
60°	22222	4623	4143
65°	20392	4130	3788
70°	18262	3693	3459
75°	15651	3304	3164
80°	12640	2955	2892
85°	8588	2598	2640



TEST NUMBER: P289643

CATALOG NUMBER: 8SSRK-TB-40-L940-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.3	3.0
10°-20°	270.8	8.1
20°-30°	391.7	11.7
30°-40°	455.7	13.6
40°-50°	463.8	13.9
50°-60°	431.6	12.9
60°-70°	375.8	11.3
70°-80°	305.9	9.2
80°-90°	231.7	6.9
90°-100°	160.7	4.8
100°-110°	94.4	2.8
110°-120°	44.3	1.3
120°-130°	12.6	0.4
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°	761.8	22.8
0°-40°	1217.5	36.5
0°-60°	2113.0	63.3
0°-90°	3026.5	90.6
90°-120°	299.5	9.0
90°-150°	312.8	9.4
90°-180°	313.0	9.4
0°-180°	3339.2	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1073	1073	1073	1073	1073	
5°	1075	1066	1048	1048	1041	102
15°	1021	994	948	931	923	287
25°	918	877	831	825	821	423
35°	777	737	710	716	718	486
45°	610	586	586	610	620	471
55°	439	438	470	526	546	392
65°	279	302	384	451	475	276
75°	135	198	308	378	404	144
85°	29	123	235	309	333	33
90°	0	90	199	272	296	2
95°	0	58	164	237	260	0
105°	0	14	93	157	179	0
115°	0	0	37	86	105	0
125°	0	0	2	29	42	0
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°	2	0	0	0	0	0
180°	0	0	0	0	0	0



TEST NUMBER: P289643

CATALOG NUMBER: 8SSRK-TB-40-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1073.0	1073.0	1073.0	1073.0	1073.0
2.5°	1079.8	1074.7	1061.2	1066.3	1061.2
5°	1074.7	1066.3	1047.7	1047.7	1040.9
7.5°	1064.6	1054.4	1029.1	1020.6	1012.2
10°	1054.4	1039.2	1002.1	991.9	981.8
12.5°	1039.2	1017.3	975.0	959.8	949.7
15°	1020.6	993.6	948.0	931.1	922.6
17.5°	998.7	968.3	917.6	904.0	897.3
20°	975.0	939.5	888.8	877.0	870.2
22.5°	948.0	907.4	860.1	851.7	846.6
25°	917.6	877.0	831.4	824.6	821.2
27.5°	887.1	843.2	801.0	797.6	795.9
30°	851.7	809.4	768.9	770.5	770.5
32.5°	816.2	773.9	741.8	745.2	745.2
35°	777.3	736.8	709.7	716.5	718.2
37.5°	736.8	701.3	679.3	689.4	694.5
40°	696.2	664.1	647.2	662.4	667.5
42.5°	655.6	625.2	618.5	637.1	643.8
45°	610.0	586.4	586.4	610.0	620.2
47.5°	566.1	550.9	555.9	586.4	601.6
50°	523.8	512.0	525.5	564.4	581.3
52.5°	478.2	474.8	496.8	544.1	564.4
55°	439.3	437.7	469.8	525.5	545.8
57.5°	397.1	402.2	446.1	506.9	528.9
60°	356.5	366.7	424.1	488.4	508.6
62.5°	316.0	336.3	403.9	469.8	493.4
65°	278.8	302.5	383.6	451.2	474.8
67.5°	241.6	272.1	363.3	434.3	457.9
70°	204.5	245.0	344.7	415.7	439.3
72.5°	167.3	221.4	326.1	397.1	422.4
75°	135.2	197.7	307.5	378.5	403.9
77.5°	104.8	179.1	289.0	363.3	385.3
80°	76.0	158.8	272.1	344.7	368.4
82.5°	49.0	141.9	253.5	326.1	351.5
85°	28.7	123.4	234.9	309.2	332.9
87.5°	11.8	104.8	218.0	290.6	314.3
90°	0.0	89.6	199.4	272.1	295.7
92.5°	0.0	74.4	182.5	255.2	278.8
95°	0.0	57.5	163.9	236.6	260.2
97.5°	0.0	43.9	145.3	218.0	241.6
100°	0.0	33.8	126.7	196.0	221.4
102.5°	0.0	23.7	108.1	175.7	201.1
105°	0.0	13.5	92.9	157.2	179.1
107.5°	0.0	6.8	77.7	138.6	160.5
110°	0.0	1.7	62.5	120.0	140.3



TEST NUMBER: P289643

CATALOG NUMBER: 8SSRK-TB-40-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	0.0	0.0	49.0	103.1	123.4
115°	0.0	0.0	37.2	86.2	104.8
117.5°	0.0	0.0	25.3	71.0	87.9
120°	0.0	0.0	15.2	55.8	71.0
122.5°	0.0	0.0	6.8	42.2	55.8
125°	0.0	0.0	1.7	28.7	42.2
127.5°	0.0	0.0	0.0	16.9	28.7
130°	0.0	0.0	0.0	8.4	16.9
132.5°	0.0	0.0	0.0	1.7	6.8
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°	1.7	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)