

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: P289779

Luminaire Tested: **8SSRK-TS-40-L850-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289779  
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: 8SSRK-TS-40-L850-CD1-U  
Description: 4000 LUMEN, 8 FOOT SSRK LED LUMINAIRE WITH TRILOBE SMOOTH LENS AND 80 CRI 5000K CCT LEDS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3759.1 lumens  
Efficiency: N/A  
Efficacy: 139.1 lumens/watt  
Spacing Criteria (0/90/45): 1.24 / 1.29 / 1.4  
Luminous Opening: Rectangular w/ Sides (W: 0.04' x L: 8' x H: 0.17')  
CIE Type: Semi-Direct

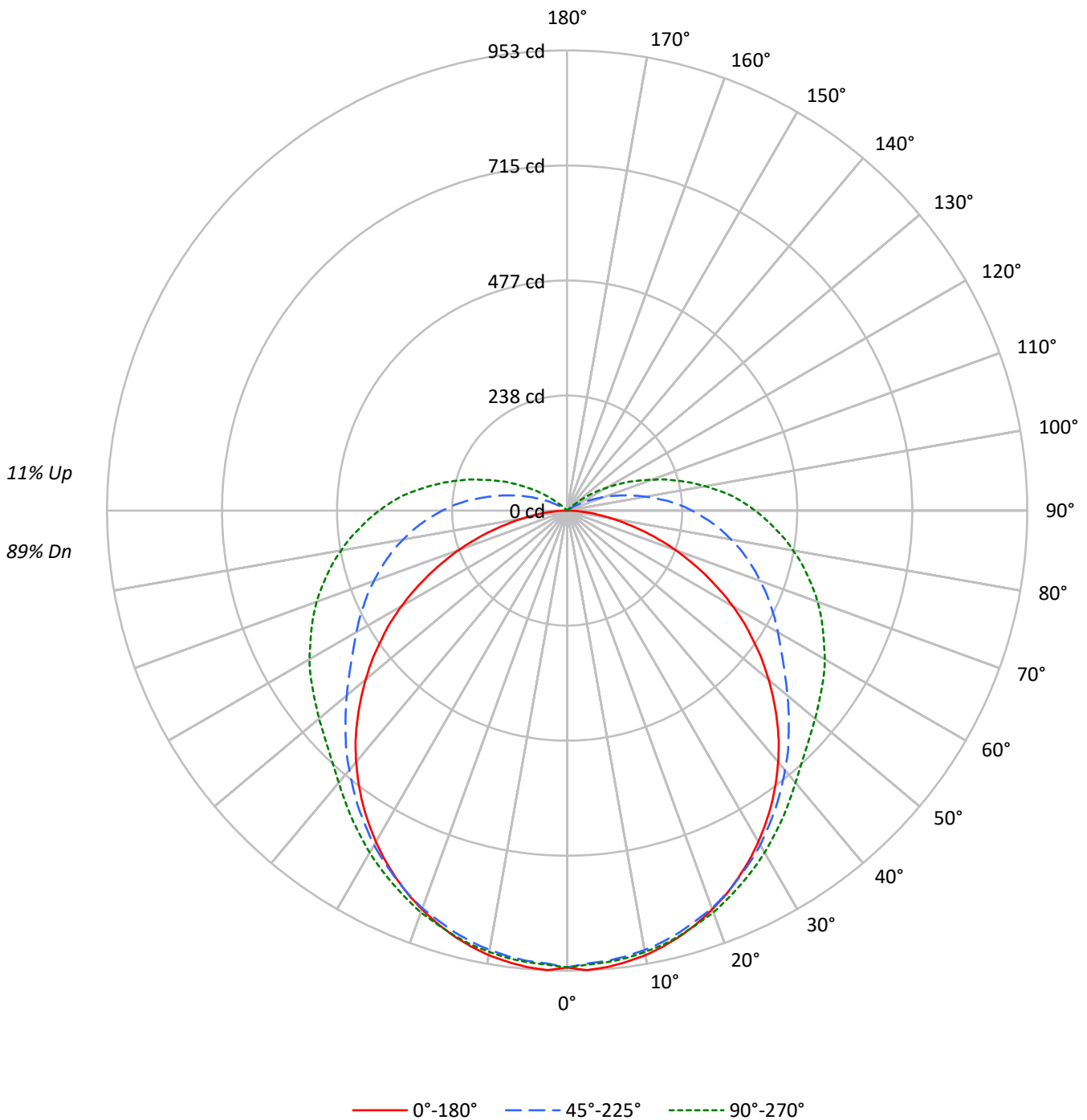
Input Watts (W): 27.0151  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P289779

CATALOG NUMBER: 8SSRK-TS-40-L850-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P289779

CATALOG NUMBER: 8SSRK-TS-40-L850-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°	30554	30554	30554
5°	30709	24307	22542
10°	30543	20183	17844
15°	30296	17144	14682
20°	29975	14802	12395
25°	29595	12871	10612
30°	29184	11291	9218
35°	28717	9922	8067
40°	28159	8738	7118
45°	27485	7710	6387
50°	26701	6821	5840
55°	25756	6071	5396
60°	24684	5494	5021
65°	23149	5003	4663
70°	21343	4559	4348
75°	18800	4150	4032
80°	15583	3746	3730
85°	11461	3349	3429



TEST NUMBER: P289779

CATALOG NUMBER: 8SSRK-TS-40-L850-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	89.5	2.4
10°-20°	256.5	6.8
20°-30°	389.5	10.4
30°-40°	473.4	12.6
40°-50°	505.2	13.4
50°-60°	495.5	13.2
60°-70°	452.7	12.0
70°-80°	384.2	10.2
80°-90°	299.0	8.0
90°-100°	210.8	5.6
100°-110°	125.3	3.3
110°-120°	59.3	1.6
120°-130°	17.2	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°	735.4	19.6
0°-40°	1208.8	32.2
0°-60°	2209.6	58.8
0°-90°	3345.5	89.0
90°-120°	395.4	10.5
90°-150°	413.6	11.0
90°-180°	414.0	11.0
0°-180°	3759.1	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	946	946	946	946	946	
5°	949	946	936	942	939	90
15°	911	909	904	911	910	257
25°	839	839	840	853	853	387
35°	739	743	753	772	778	462
45°	614	625	649	683	699	474
55°	471	491	546	617	643	422
65°	316	357	465	554	584	314
75°	162	246	386	482	515	172
85°	38	157	303	399	432	43
90°	3	116	259	356	389	4
95°	3	78	214	308	344	2
105°	2	21	122	207	238	3
115°	2	2	50	113	140	2
125°	2	1	2	38	56	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: P289779

CATALOG NUMBER: 8SSRK-TS-40-L850-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	946.2	946.2	946.2	946.2	946.2
2.5°	952.6	949.1	938.8	944.2	941.3
5°	949.1	945.7	936.4	941.8	938.8
7.5°	942.7	940.3	931.0	936.9	934.9
10°	934.9	932.4	924.1	931.0	928.0
12.5°	924.1	921.6	914.8	921.6	920.7
15°	911.3	909.4	903.5	911.3	909.9
17.5°	896.1	894.6	889.7	899.6	897.6
20°	878.9	878.0	876.5	885.3	885.8
22.5°	860.3	860.3	859.3	869.1	869.6
25°	838.7	839.2	840.2	853.4	853.4
27.5°	816.6	818.1	820.5	833.3	836.2
30°	792.1	794.5	799.9	813.7	818.1
32.5°	766.1	770.0	775.9	793.1	797.5
35°	739.1	743.0	752.8	771.5	777.8
37.5°	710.1	714.5	727.3	748.4	756.7
40°	679.7	684.6	701.8	728.3	735.6
42.5°	648.8	655.6	676.8	705.2	716.5
45°	614.4	624.7	648.8	683.1	699.3
47.5°	580.1	592.3	622.3	664.5	684.1
50°	544.7	558.5	595.8	647.8	670.4
52.5°	509.4	524.6	569.8	632.1	656.6
55°	471.1	491.2	545.7	616.9	643.4
57.5°	435.8	457.4	524.1	601.7	630.6
60°	396.0	423.5	504.0	586.0	616.4
62.5°	356.8	389.7	484.9	569.8	599.7
65°	316.5	357.3	464.7	553.6	584.5
67.5°	276.8	324.4	446.1	536.9	568.8
70°	239.0	295.9	425.5	519.7	552.1
72.5°	199.2	270.9	406.3	501.6	533.9
75°	162.4	246.4	386.2	481.9	514.8
77.5°	125.1	223.3	366.6	462.3	496.2
80°	93.7	201.7	345.0	441.7	475.1
82.5°	63.8	180.1	323.9	420.6	455.4
85°	38.3	157.0	302.8	399.0	432.4
87.5°	17.2	136.9	279.7	376.9	411.7
90°	2.9	116.3	258.6	355.8	389.2
92.5°	3.4	97.7	237.0	333.2	366.6
95°	2.9	78.0	213.5	308.2	344.0
97.5°	2.9	61.3	188.5	283.7	316.5
100°	2.5	45.6	164.4	257.6	290.0
102.5°	2.5	32.4	142.8	232.1	264.5
105°	2.5	21.1	121.7	206.6	238.0
107.5°	2.5	11.8	101.1	182.1	214.0
110°	2.5	4.4	82.4	160.0	186.5



TEST NUMBER: P289779

CATALOG NUMBER: 8SSRK-TS-40-L850-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.0	2.0	64.3	135.4	162.9
115°	2.0	2.0	49.6	113.4	140.4
117.5°	2.0	1.5	33.9	92.8	117.3
120°	2.0	1.5	21.1	74.1	95.2
122.5°	1.5	1.0	10.3	55.0	76.1
125°	1.5	1.0	2.5	37.8	55.5
127.5°	1.5	0.5	0.0	22.6	38.3
130°	1.0	0.5	0.0	10.8	22.6
132.5°	1.0	0.5	0.0	2.0	9.8
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°	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)