

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: P289790

Luminaire Tested: **8SSRK-TS-60-L940-CD1-U**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P289790  
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-60-L940-CD1-U  
Description: 6000 LUMEN, 8 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: 4813.6 lumens  
Efficiency: N/A  
Efficacy: 116.3 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

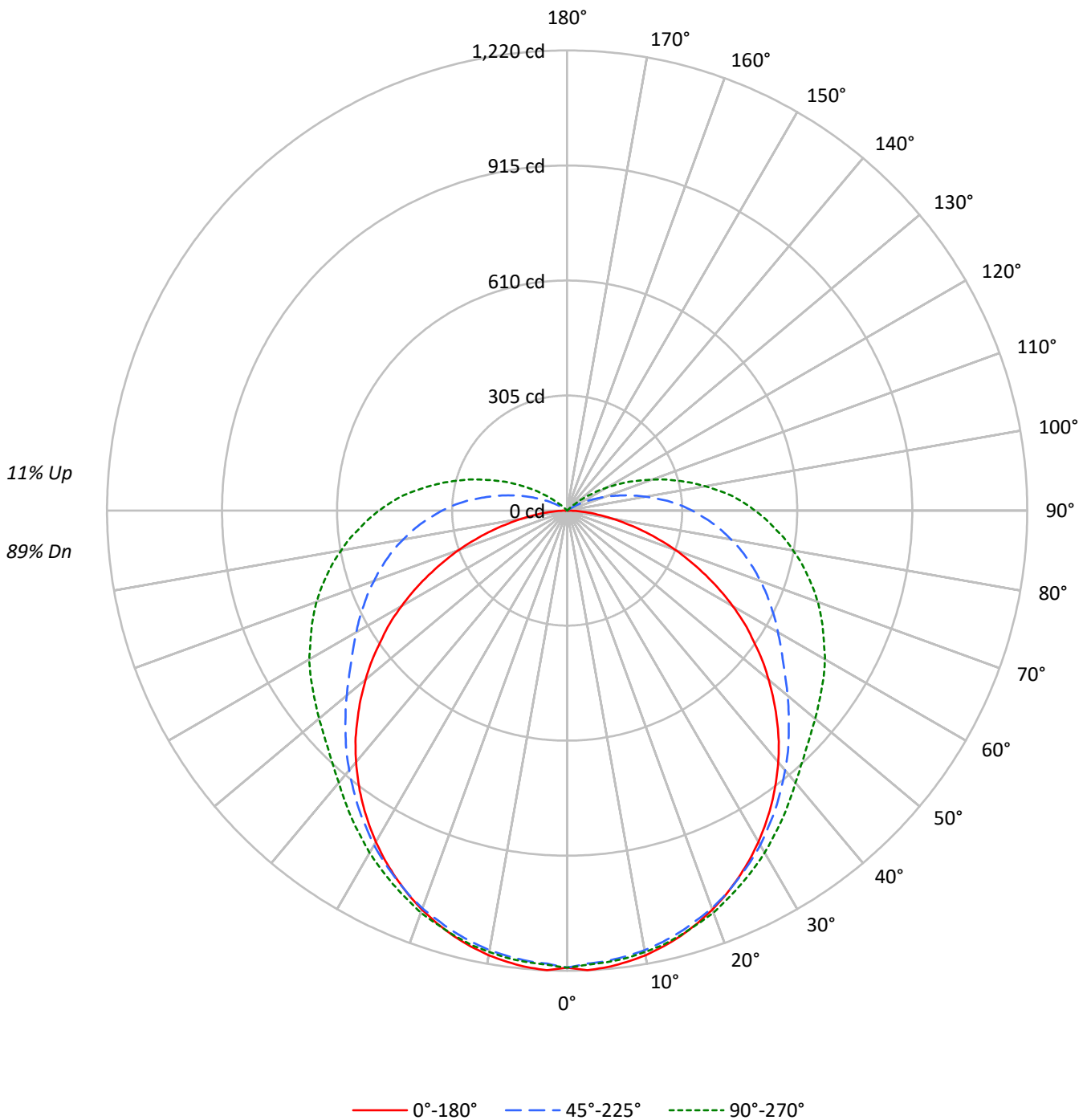
Input Watts (W): 41.3831  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P289790

CATALOG NUMBER: 8SSRK-TS-60-L940-CD1-U

### Luminous Intensity Polar Plot





TEST NUMBER: P289790

CATALOG NUMBER: 8SSRK-TS-60-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	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°	39124	39124	39124
5°	39325	31124	28867
10°	39112	25844	22851
15°	38797	21952	18800
20°	38385	18955	15872
25°	37898	16482	13589
30°	37371	14459	11803
35°	36771	12706	10331
40°	36060	11189	9115
45°	35198	9872	8179
50°	34196	8734	7478
55°	32984	7774	6910
60°	31609	7036	6430
65°	29644	6407	5971
70°	27327	5839	5567
75°	24079	5315	5164
80°	19957	4798	4776
85°	14663	4288	4390



TEST NUMBER: P289790

CATALOG NUMBER: 8SSRK-TS-60-L940-CD1-U

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.6	2.4
10°-20°	328.4	6.8
20°-30°	498.7	10.4
30°-40°	606.2	12.6
40°-50°	647.0	13.4
50°-60°	634.5	13.2
60°-70°	579.7	12.0
70°-80°	492.0	10.2
80°-90°	382.9	8.0
90°-100°	269.9	5.6
100°-110°	160.5	3.3
110°-120°	76.0	1.6
120°-130°	22.0	0.5
130°-140°	1.3	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°	941.8	19.6
0°-40°	1548.0	32.2
0°-60°	2829.5	58.8
0°-90°	4284.0	89.0
90°-120°	506.4	10.5
90°-150°	529.6	11.0
90°-180°	530.0	11.0
0°-180°	4813.6	100.0

**CANDELA DISTRIBUTION:**

	0°	22.5°	45°	67.5°	90°	Flux
0°	1212	1212	1212	1212	1212	
5°	1215	1211	1199	1206	1202	115
15°	1167	1164	1157	1167	1165	329
25°	1074	1075	1076	1093	1093	495
35°	946	951	964	988	996	592
45°	787	800	831	875	896	607
55°	603	629	699	790	824	540
65°	405	458	595	709	748	402
75°	208	316	495	617	659	220
85°	49	201	388	511	554	55
90°	4	149	331	456	498	5
95°	4	100	273	395	440	3
105°	3	27	156	265	305	3
115°	2	2	64	145	180	3
125°	2	1	3	48	71	2
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: P289790

CATALOG NUMBER: 8SSRK-TS-60-L940-CD1-U

**CANDELA DISTRIBUTION (FULL):**

	0°	22.5°	45°	67.5°	90°
0°	1211.6	1211.6	1211.6	1211.6	1211.6
2.5°	1219.8	1215.4	1202.2	1209.1	1205.3
5°	1215.4	1211.0	1199.0	1206.0	1202.2
7.5°	1207.2	1204.1	1192.1	1199.7	1197.2
10°	1197.2	1194.0	1183.3	1192.1	1188.4
12.5°	1183.3	1180.2	1171.4	1180.2	1178.9
15°	1167.0	1164.5	1156.9	1167.0	1165.1
17.5°	1147.5	1145.6	1139.3	1151.9	1149.4
20°	1125.5	1124.3	1122.4	1133.7	1134.3
22.5°	1101.6	1101.6	1100.4	1113.0	1113.6
25°	1074.0	1074.6	1075.9	1092.8	1092.8
27.5°	1045.7	1047.6	1050.7	1067.1	1070.8
30°	1014.3	1017.4	1024.3	1041.9	1047.6
32.5°	981.0	986.0	993.6	1015.5	1021.2
35°	946.4	951.4	964.0	987.9	996.1
37.5°	909.3	915.0	931.3	958.4	969.0
40°	870.4	876.7	898.7	932.6	942.0
42.5°	830.8	839.6	866.6	903.1	917.5
45°	786.8	800.0	830.8	874.8	895.5
47.5°	742.8	758.5	796.9	850.9	876.0
50°	697.6	715.2	762.9	829.5	858.4
52.5°	652.3	671.8	729.6	809.4	840.8
55°	603.3	629.1	698.8	789.9	823.9
57.5°	558.0	585.7	671.2	770.5	807.5
60°	507.1	542.3	645.4	750.3	789.3
62.5°	456.9	499.0	620.9	729.6	767.9
65°	405.3	457.5	595.1	708.9	748.5
67.5°	354.4	415.4	571.2	687.5	728.4
70°	306.0	378.9	544.9	665.5	707.0
72.5°	255.1	346.9	520.3	642.3	683.7
75°	208.0	315.5	494.6	617.1	659.2
77.5°	160.3	285.9	469.4	592.0	635.3
80°	120.0	258.3	441.8	565.6	608.3
82.5°	81.7	230.6	414.8	538.6	583.2
85°	49.0	201.1	387.7	510.9	553.6
87.5°	22.0	175.3	358.2	482.6	527.3
90°	3.8	148.9	331.2	455.6	498.3
92.5°	4.4	125.1	303.5	426.7	469.4
95°	3.8	99.9	273.4	394.7	440.5
97.5°	3.8	78.6	241.3	363.2	405.3
100°	3.1	58.4	210.5	329.9	371.4
102.5°	3.1	41.5	182.9	297.2	338.7
105°	3.1	27.0	155.9	264.6	304.8
107.5°	3.1	15.1	129.5	233.1	274.0
110°	3.1	5.7	105.6	204.9	238.8



TEST NUMBER: P289790

CATALOG NUMBER: 8SSRK-TS-60-L940-CD1-U

**CANDELA DISTRIBUTION (continued):**

	0°	22.5°	45°	67.5°	90°
112.5°	2.5	2.5	82.3	173.4	208.6
115°	2.5	2.5	63.5	145.2	179.7
117.5°	2.5	1.9	43.4	118.8	150.2
120°	2.5	1.9	27.0	94.9	121.9
122.5°	1.9	1.3	13.2	70.4	97.4
125°	1.9	1.3	3.1	48.4	71.0
127.5°	1.9	0.6	0.0	28.9	49.0
130°	1.3	0.6	0.0	13.8	28.9
132.5°	1.3	0.6	0.0	2.5	12.6
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)