

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: P289766

Luminaire Tested: **4SSRK-TS-80-L940-CD1-U**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P289766
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-80-L940-CD1-U
Description: 8000 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: 6480.3 lumens
Efficiency: N/A
Efficacy: 103.0 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

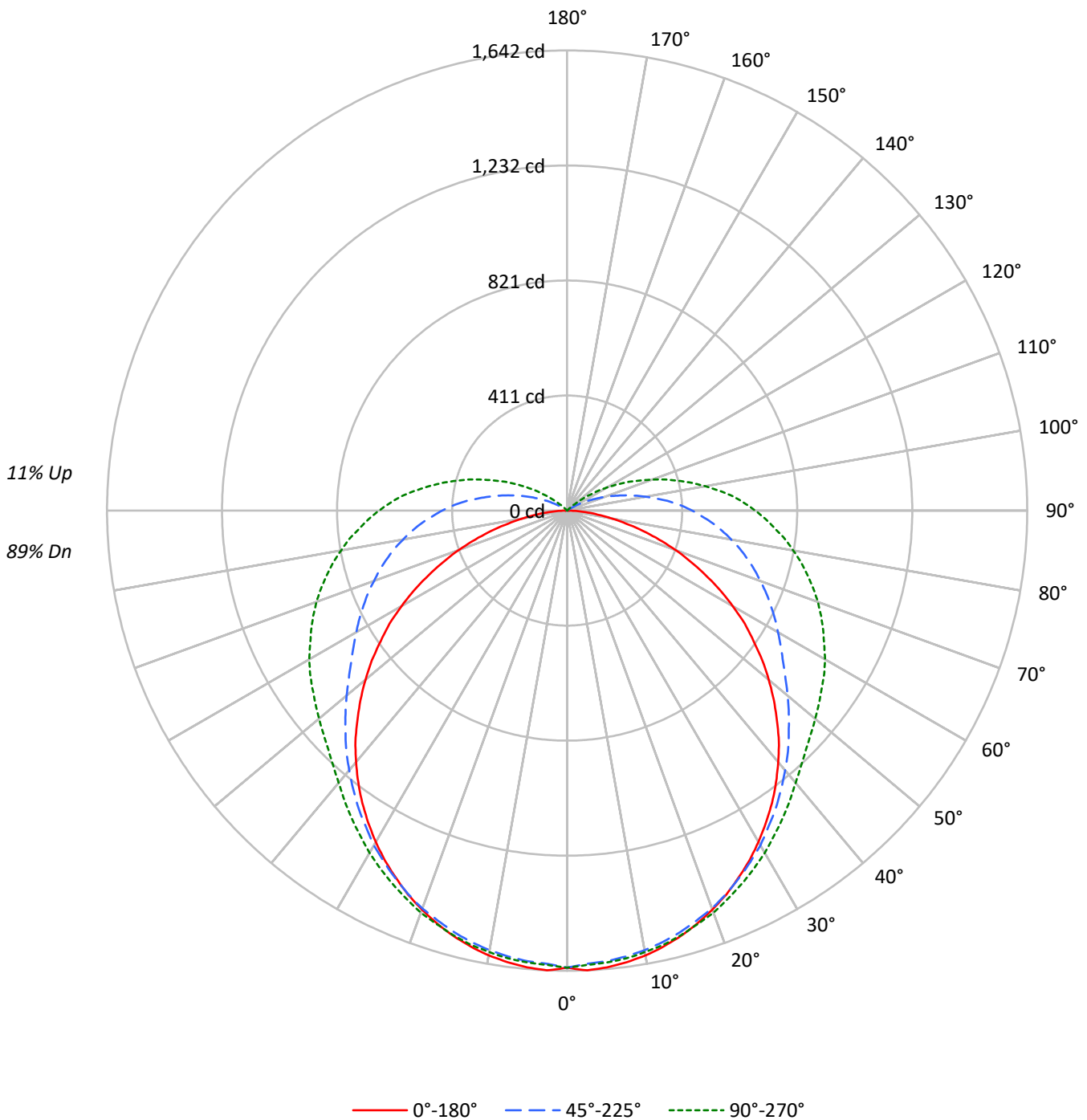
Input Watts (W): 62.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P289766

CATALOG NUMBER: 4SSRK-TS-80-L940-CD1-U

Luminous Intensity Polar Plot





TEST NUMBER: P289766

CATALOG NUMBER: 4SSRK-TS-80-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°	105341	105341	105341
5°	105689	83716	77722
10°	104923	69468	61522
15°	103886	58975	50619
20°	102581	50901	42736
25°	101070	44247	36589
30°	99439	38807	31780
35°	97604	34094	27815
40°	95446	30016	24543
45°	92871	26478	22023
50°	89891	23422	20135
55°	86315	20847	18604
60°	82246	18863	17312
65°	76552	17175	16076
70°	69806	15647	14990
75°	60466	14241	13904
80°	48614	12856	12861
85°	33129	11490	11821



TEST NUMBER: P289766

CATALOG NUMBER: 4SSRK-TS-80-L940-CD1-U

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.3	2.4
10°-20°	442.1	6.8
20°-30°	671.4	10.4
30°-40°	816.1	12.6
40°-50°	871.0	13.4
50°-60°	854.2	13.2
60°-70°	780.4	12.0
70°-80°	662.3	10.2
80°-90°	515.4	8.0
90°-100°	363.4	5.6
100°-110°	216.0	3.3
110°-120°	102.3	1.6
120°-130°	29.6	0.5
130°-140°	1.7	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°	1267.8	19.6
0°-40°	2083.9	32.2
0°-60°	3809.2	58.8
0°-90°	5767.3	89.0
90°-120°	681.7	10.5
90°-150°	713.0	11.0
90°-180°	713.0	11.0
0°-180°	6480.3	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1631	1631	1631	1631	1631	
5°	1636	1630	1614	1624	1618	155
15°	1571	1568	1558	1571	1568	443
25°	1446	1447	1448	1471	1471	666
35°	1274	1281	1298	1330	1341	797
45°	1059	1077	1118	1178	1206	817
55°	812	847	941	1064	1109	727
65°	546	616	801	954	1008	541
75°	280	425	666	831	888	297
85°	66	271	522	688	745	74
90°	5	200	446	613	671	6
95°	5	134	368	531	593	4
105°	4	36	210	356	410	4
115°	3	3	85	195	242	3
125°	2	2	4	65	96	2
135°	0	0	0	0	0	1
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: P289766

CATALOG NUMBER: 4SSRK-TS-80-L940-CD1-U

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1631.1	1631.1	1631.1	1631.1	1631.1
2.5°	1642.1	1636.2	1618.4	1627.7	1622.7
5°	1636.2	1630.3	1614.2	1623.5	1618.4
7.5°	1625.2	1621.0	1604.9	1615.1	1611.7
10°	1611.7	1607.4	1593.1	1604.9	1599.8
12.5°	1593.1	1588.8	1577.0	1588.8	1587.1
15°	1571.1	1567.7	1557.5	1571.1	1568.5
17.5°	1544.8	1542.3	1533.8	1550.8	1547.4
20°	1515.2	1513.5	1511.0	1526.2	1527.1
22.5°	1483.1	1483.1	1481.4	1498.3	1499.2
25°	1445.9	1446.7	1448.4	1471.2	1471.2
27.5°	1407.8	1410.3	1414.6	1436.5	1441.6
30°	1365.5	1369.7	1379.0	1402.7	1410.3
32.5°	1320.6	1327.4	1337.6	1367.2	1374.8
35°	1274.1	1280.9	1297.8	1329.9	1340.9
37.5°	1224.2	1231.8	1253.8	1290.2	1304.6
40°	1171.7	1180.2	1209.8	1255.5	1268.2
42.5°	1118.4	1130.3	1166.7	1215.7	1235.2
45°	1059.2	1077.0	1118.4	1177.7	1205.6
47.5°	1000.0	1021.1	1072.8	1145.5	1179.4
50°	939.1	962.8	1027.1	1116.8	1155.7
52.5°	878.2	904.4	982.2	1089.7	1132.0
55°	812.2	846.9	940.8	1063.5	1109.1
57.5°	751.3	788.5	903.6	1037.2	1087.1
60°	682.7	730.1	868.9	1010.2	1062.6
62.5°	615.1	671.7	835.9	982.2	1033.8
65°	545.7	615.9	801.2	954.3	1007.6
67.5°	477.2	559.2	769.0	925.5	980.5
70°	412.0	510.2	733.5	895.9	951.8
72.5°	343.5	467.0	700.5	864.6	920.5
75°	280.0	424.7	665.8	830.8	887.5
77.5°	215.7	384.9	632.0	797.0	855.3
80°	161.6	347.7	594.8	761.4	819.0
82.5°	110.0	310.5	558.4	725.0	785.1
85°	66.0	270.7	522.0	687.8	745.3
87.5°	29.6	236.0	482.2	649.7	709.8
90°	5.1	200.5	445.9	613.4	670.9
92.5°	5.9	168.4	408.6	574.4	632.0
95°	5.1	134.5	368.0	531.3	593.1
97.5°	5.1	105.8	324.9	489.0	545.7
100°	4.2	78.7	283.4	444.2	500.0
102.5°	4.2	55.8	246.2	400.2	456.0
105°	4.2	36.4	209.8	356.2	410.3
107.5°	4.2	20.3	174.3	313.9	368.9
110°	4.2	7.6	142.1	275.8	321.5



TEST NUMBER: P289766

CATALOG NUMBER: 4SSRK-TS-80-L940-CD1-U

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°
112.5°	3.4	3.4	110.8	233.5	280.9
115°	3.4	3.4	85.4	195.4	242.0
117.5°	3.4	2.5	58.4	159.9	202.2
120°	3.4	2.5	36.4	127.7	164.1
122.5°	2.5	1.7	17.8	94.8	131.1
125°	2.5	1.7	4.2	65.1	95.6
127.5°	2.5	0.8	0.0	38.9	66.0
130°	1.7	0.8	0.0	18.6	38.9
132.5°	1.7	0.8	0.0	3.4	16.9
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)