

Scaled data based on original data using  
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions

Brand: IRiS

Report Number: P1314840

Luminaire Tested: P3SQAS02R259740DE010 E3SQCA301MMS

Issue Date: 1/29/2026

**Test Information**

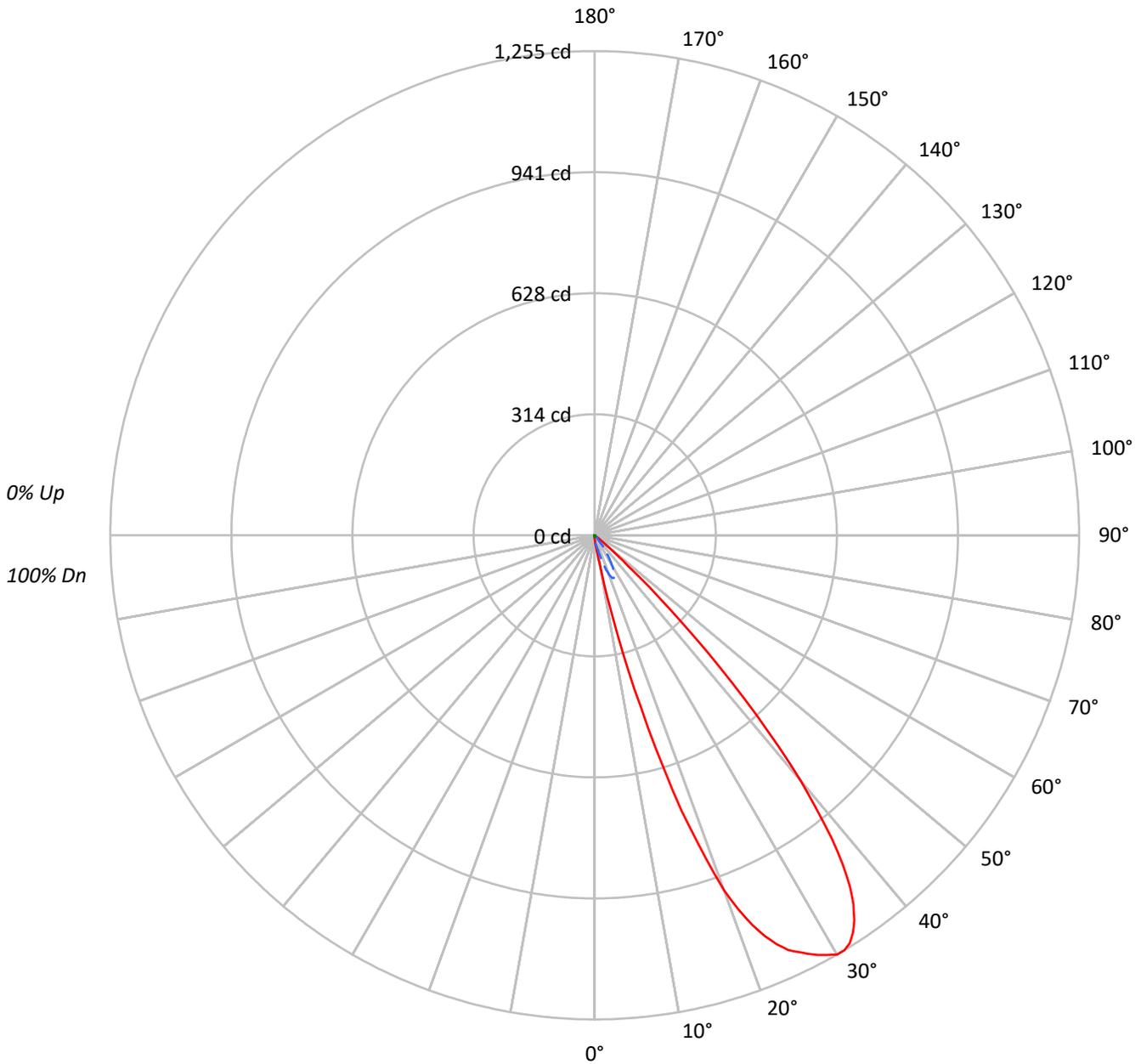
Test Method: LM-79-2019  
Report Number: P1314840  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-49)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: IRiS  
Catalog Number: P3SQAS02R259740DE010 E3SQCA301MMS  
Description: 3in Adjustable LED luminaire with, R25 optic, 4000K CCT AND, 97CRI , E3SQCA301MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 246.0 lumens  
Efficiency: N/A  
Efficacy: 68.3 lumens/watt  
Spacing Criteria (0/90/45): 2.4 / 0.44 / 1.25  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 3.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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: 24 FT

TEST NUMBER: P1314840  
CATALOG NUMBER: P3SQAS02R259740DE010 E3SQCA301MMS

### Luminous Intensity Polar Plot



— 0°-180°    - - - 45°-225°    ····· 90°-270°



TEST NUMBER: P1314840

CATALOG NUMBER: P3SQAS02R259740DE010 E3SQCA301MMS

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	96	95	93	92
2	106	100	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85	89	87	85	83
3	99	92	86	81	97	90	85	80	87	83	79	85	81	78	83	79	77	83	79	77	75
4	93	84	77	72	91	83	76	72	80	75	71	78	74	70	76	72	69	76	72	69	67
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	62	70	66	62	61
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	56	65	60	56	55
7	75	64	57	52	74	64	57	52	62	56	52	61	55	51	60	55	51	60	55	51	49
8	70	59	52	47	69	58	52	47	57	51	47	56	51	46	55	50	46	55	50	46	45
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	51	46	42	40
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	47	42	38	36

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	1343	1343	1343	1343	1343
5°	4201	2939	1227	657	484
10°	13221	5316	909	87	0
15°	81803	10127	553	0	0
20°	179335	19739	165	0	0
25°	225429	22708	0	0	0
30°	249556	17580	0	0	0
35°	245650	9966	0	0	0
40°	186736	2585	0	0	0
45°	75625	1145	0	0	0
50°	8386	134	0	0	0
55°	631	0	60	0	0
60°	0	0	69	0	0
65°	0	0	204	0	0
70°	0	101	252	0	0
75°	0	133	466	0	0
80°	0	198	694	0	0
85°	0	395	1383	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 75625 cd/sqm



TEST NUMBER: P1314840

CATALOG NUMBER: P3SQAS02R259740DE010 E3SQCA301MMS

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1.2	0.5
10°-20°	25.4	10.3
20°-30°	88.8	36.1
30°-40°	99.1	40.3
40°-50°	29.9	12.2
50°-60°	1.0	0.4
60°-70°	0.1	0.1
70°-80°	0.2	0.1
80°-90°	0.2	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	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°	115.4	46.9
0°-40°	214.5	87.2
0°-60°	245.5	99.8
0°-90°	246.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	246.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	8	8	8	8	8	
5°	24	17	7	4	3	4
15°	459	57	3	0	0	153
25°	1186	120	0	0	0	541
35°	1168	47	0	0	0	701
45°	310	5	0	0	0	268
55°	2	0	0	0	0	7
65°	0	0	0	0	0	0
75°	0	0	1	0	0	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P1314840  
 CATALOG NUMBER: P3SQAS02R259740DE010 E3SQCA301MMS

**CANDELA DISTRIBUTION (FULL):**

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
2.5°	13.4	13.9	13.7	13.9	13.7	13.7	13.7	13.9	13.7	13.7	13.7
5°	24.3	24.5	24.5	24.3	24.3	24.7	24.3	24.5	23.8	24.3	24.0
7.5°	39.8	39.3	39.3	39.6	39.6	39.1	38.9	38.4	38.9	38.9	38.2
10°	75.6	75.2	74.0	73.5	74.0	74.0	71.6	72.1	72.3	70.2	69.5
12.5°	222.2	220.5	223.8	218.7	215.6	210.6	213.5	203.8	201.7	200.3	197.0
15°	458.8	471.2	465.8	466.3	467.2	455.5	459.5	444.8	432.6	428.8	426.2
17.5°	748.1	751.9	746.9	744.6	743.6	738.0	731.1	723.8	714.4	706.2	699.3
20°	978.5	975.7	967.2	968.2	958.0	952.8	947.0	939.6	932.3	920.3	908.8
21°	1039.3	1031.1	1031.3	1025.7	1025.4	1018.8	1008.5	1000.9	994.3	980.6	973.3
22°	1089.3	1087.4	1083.1	1078.9	1074.4	1071.1	1059.6	1055.8	1042.4	1031.1	1020.7
23°	1128.1	1128.9	1125.1	1122.3	1116.1	1114.7	1099.9	1094.7	1085.5	1068.3	1057.7
24°	1160.4	1159.2	1155.0	1150.1	1146.5	1143.2	1131.9	1123.4	1113.3	1099.2	1088.8
25°	1186.3	1183.5	1180.7	1176.9	1171.3	1167.5	1155.9	1146.5	1137.8	1122.0	1107.9
26°	1201.7	1202.4	1197.9	1195.1	1190.1	1186.3	1174.3	1163.3	1152.4	1135.4	1122.7
27°	1217.2	1216.5	1212.5	1208.3	1203.1	1201.7	1187.8	1176.2	1165.1	1147.2	1132.2
28°	1231.6	1229.7	1226.4	1221.5	1215.8	1211.6	1198.1	1186.1	1174.1	1155.0	1138.5
29°	1243.6	1241.7	1239.6	1233.2	1225.9	1223.1	1208.7	1194.1	1182.1	1162.5	1145.1
30°	1254.9	1251.4	1246.4	1241.0	1233.9	1228.5	1213.4	1200.7	1186.6	1164.9	1148.2
31°	1255.4	1250.7	1247.1	1241.5	1233.5	1226.9	1211.1	1198.1	1181.6	1161.4	1143.2
32°	1247.1	1244.8	1239.1	1233.0	1225.2	1218.6	1201.2	1187.5	1172.0	1150.3	1132.2
33°	1228.5	1226.2	1222.9	1216.5	1206.4	1200.2	1184.7	1169.6	1154.3	1134.7	1114.0
34°	1202.8	1200.0	1195.8	1189.4	1179.0	1172.7	1160.2	1144.6	1128.4	1108.1	1088.8
35°	1168.4	1163.0	1161.8	1152.4	1142.8	1141.1	1126.3	1110.0	1093.5	1071.1	1054.4
36°	1125.8	1119.4	1115.2	1111.9	1105.5	1097.7	1083.1	1070.2	1049.0	1034.6	1011.0
37°	1067.6	1059.8	1063.8	1054.9	1045.0	1041.7	1023.1	1011.3	993.4	973.8	953.8
38°	999.7	999.0	998.1	994.1	977.1	968.4	960.6	948.1	932.6	909.0	881.9
39°	914.0	915.4	910.4	910.9	902.4	893.7	882.9	868.7	849.9	828.4	806.5
40°	830.6	810.5	814.1	802.0	802.8	789.8	775.7	763.2	751.2	732.3	702.4
42.5°	574.7	571.6	561.0	553.5	556.8	540.0	521.4	504.0	487.3	466.1	439.9
45°	310.5	303.5	305.6	293.3	293.3	285.8	280.6	266.0	250.5	240.8	225.7
47.5°	115.5	116.9	119.5	114.5	108.9	112.2	107.2	107.2	104.6	101.6	97.3
50°	31.3	31.8	31.3	31.3	30.6	30.2	29.2	29.0	28.7	28.0	26.9
52.5°	12.7	12.0	12.0	12.3	12.3	11.8	12.0	12.0	11.8	11.5	11.5
55°	2.1	2.4	2.4	2.4	2.4	2.1	2.1	2.4	2.6	2.4	2.4
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1314840  
CATALOG NUMBER: P3SQAS02R259740DE010 E3SQCA301MMS

**CANDELA DISTRIBUTION (continued):**

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1314840

CATALOG NUMBER: P3SQAS02R259740DE010 E3SQCA301MMS

**CANDELA DISTRIBUTION (continued):**

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8
2.5°	13.2	11.5	9.7	8.0	6.4	5.4	4.9	5.2
5°	22.4	17.0	11.1	7.1	4.9	3.8	3.1	2.8
7.5°	34.4	23.3	12.5	6.1	3.8	1.9	1.2	0.9
10°	52.8	30.4	13.4	5.2	2.4	0.5	0.0	0.0
12.5°	135.5	37.2	13.7	4.2	0.9	0.0	0.0	0.0
15°	278.5	56.8	13.2	3.1	0.2	0.0	0.0	0.0
17.5°	463.0	86.9	11.5	2.1	0.0	0.0	0.0	0.0
20°	642.3	107.7	9.2	0.9	0.0	0.0	0.0	0.0
21°	696.3	113.8	8.2	0.7	0.0	0.0	0.0	0.0
22°	740.3	118.3	7.3	0.5	0.0	0.0	0.0	0.0
23°	777.1	120.6	6.4	0.2	0.0	0.0	0.0	0.0
24°	802.8	121.1	5.9	0.2	0.0	0.0	0.0	0.0
25°	815.0	119.5	5.2	0.0	0.0	0.0	0.0	0.0
26°	819.7	116.2	4.7	0.0	0.0	0.0	0.0	0.0
27°	816.2	111.9	4.2	0.0	0.0	0.0	0.0	0.0
28°	809.8	105.6	3.5	0.0	0.0	0.0	0.0	0.0
29°	797.3	97.1	3.1	0.0	0.0	0.0	0.0	0.0
30°	785.3	88.4	2.6	0.0	0.0	0.0	0.0	0.0
31°	771.7	80.6	2.1	0.0	0.0	0.0	0.0	0.0
32°	754.9	71.6	1.6	0.0	0.0	0.0	0.0	0.0
33°	727.1	63.4	1.2	0.0	0.0	0.0	0.0	0.0
34°	688.2	55.6	0.9	0.0	0.0	0.0	0.0	0.0
35°	636.2	47.4	0.7	0.0	0.0	0.0	0.0	0.0
36°	579.2	38.6	0.5	0.0	0.0	0.0	0.0	0.0
37°	509.4	28.0	0.5	0.0	0.0	0.0	0.0	0.0
38°	436.6	17.7	0.2	0.0	0.0	0.0	0.0	0.0
39°	362.1	13.4	0.2	0.0	0.0	0.0	0.0	0.0
40°	294.1	11.5	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	157.4	7.8	0.0	0.0	0.0	0.0	0.0	0.0
45°	92.8	4.7	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	51.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0
50°	18.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2.6	0.0	0.0	0.2	0.0	0.0	0.0	0.0
57.5°	0.2	0.0	0.2	0.2	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.2	0.2	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.2	0.5	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.5	0.5	0.2	0.0	0.0	0.0
67.5°	0.0	0.2	0.5	0.5	0.2	0.0	0.0	0.0
70°	0.0	0.2	0.5	0.5	0.2	0.0	0.0	0.0
72.5°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
75°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
77.5°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
80°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0



TEST NUMBER: P1314840  
CATALOG NUMBER: P3SQAS02R259740DE010 E3SQCA301MMS

**CANDELA DISTRIBUTION (continued):**

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
85°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
87.5°	0.0	0.2	0.5	0.7	0.2	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)