

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: P1311398

Luminaire Tested: P3SQAS13R709050DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311398
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-57)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R709050DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R70 optic, 5000K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

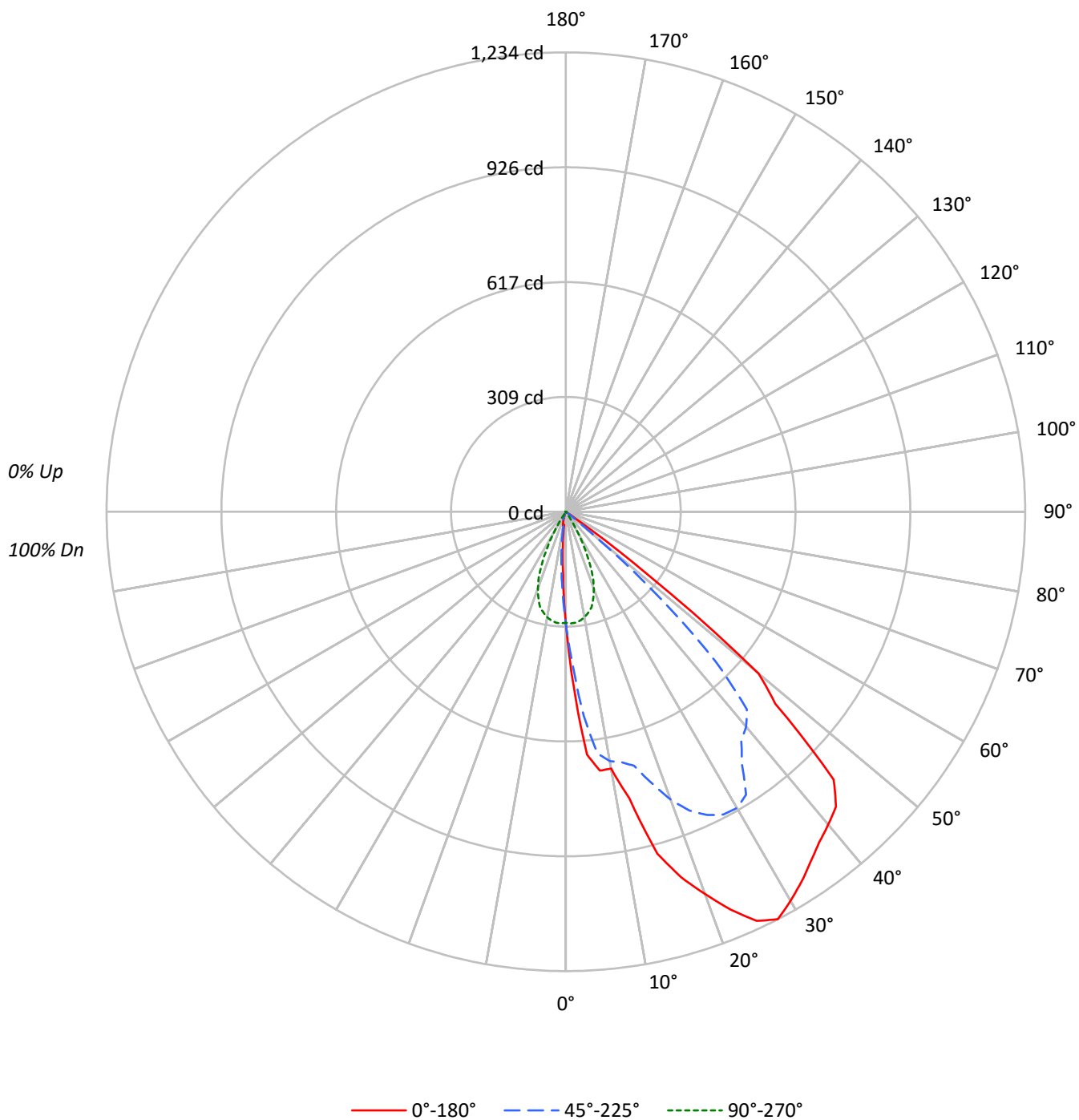
Lumens per Lamp: N/A
Luminaire Lumens: 803.0 lumens
Efficiency: N/A
Efficacy: 55.0 lumens/watt
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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: 24 FT

TEST NUMBER: P1311398

CATALOG NUMBER: P3SQAS13R709050DE010 E3SQCA301MB

Luminous Intensity Polar Plot



TEST NUMBER: P1311398

CATALOG NUMBER: P3SQAS13R709050DE010 E3SQCA301MB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	93	93	91
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	84	84	82
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	75	75	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	67	67	66
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	61	61	59
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	55	55	53
7	74	63	56	50	73	62	55	50	61	55	50	59	54	50	58	53	49	49	49	48
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	45	45	43
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	41	41	39
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	37	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	51322	51322	51322	51322	51322
5°	113237	95015	51726	23512	15473
10°	122468	118901	50330	6540	6733
15°	169508	125878	47481	6668	4850
20°	200210	150781	40284	3940	1448
25°	230407	170758	28428	646	0
30°	239991	182757	13065	0	0
35°	241109	173200	715	0	0
40°	246606	169425	0	0	0
45°	247846	138829	0	0	0
50°	180961	28856	0	0	0
55°	10209	0	0	0	0
60°	0	379	379	0	0
65°	0	0	448	0	0
70°	0	554	554	0	0
75°	0	732	732	0	0
80°	0	1091	1091	1091	0
85°	0	2174	2174	2174	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 252523 cd/sqm

TEST NUMBER: P1311398

CATALOG NUMBER: P3SQAS13R709050DE010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.6	4.1
10°-20°	108.9	13.6
20°-30°	195.7	24.4
30°-40°	237.9	29.6
40°-50°	183.7	22.9
50°-60°	42.7	5.3
60°-70°	0.3	0.0
70°-80°	0.6	0.1
80°-90°	0.6	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°	337.2	42.0
0°-40°	575.1	71.6
0°-60°	801.5	99.8
0°-90°	803.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	803.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	298	298	298	298	298	
5°	655	550	299	136	90	62
15°	951	706	266	37	27	266
25°	1212	899	150	3	0	552
35°	1147	824	3	0	0	720
45°	1018	570	0	0	0	719
55°	34	0	0	0	0	140
65°	0	0	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	1	1	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1311398

CATALOG NUMBER: P3SQAS13R709050DE010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	298.0	298.0	298.0	298.0	298.0	298.0	298.0	298.0	298.0	298.0	298.0
2.5°	464.6	464.6	466.9	465.7	455.5	451.0	436.3	428.3	426.1	407.9	401.1
5°	655.0	656.1	650.4	649.3	638.0	630.0	617.6	598.3	579.0	549.6	523.5
7.5°	701.4	700.3	699.2	699.2	696.9	692.4	686.7	681.0	673.1	655.0	634.6
10°	700.3	700.3	699.2	699.2	698.0	699.2	698.0	694.6	691.2	679.9	668.6
12.5°	788.7	781.9	772.8	759.2	736.6	719.6	700.3	694.6	692.4	689.0	682.2
15°	950.7	945.1	925.8	902.0	879.3	840.8	810.2	768.3	735.4	706.0	691.2
17.5°	1028.9	1032.3	1010.8	996.0	974.5	943.9	907.7	864.6	818.1	762.6	718.4
20°	1092.4	1095.8	1077.6	1062.9	1038.0	1006.2	974.5	928.1	883.9	822.7	764.9
22.5°	1157.0	1159.2	1142.2	1120.7	1092.4	1059.5	1018.7	971.1	923.5	869.1	807.9
25°	1212.5	1210.2	1181.9	1151.3	1124.1	1089.0	1049.3	1002.8	957.5	898.6	840.8
27.5°	1234.0	1232.9	1201.2	1171.7	1140.0	1092.4	1057.2	1016.4	968.9	916.7	857.8
30°	1206.8	1224.9	1204.6	1183.0	1144.5	1096.9	1062.9	1014.2	970.0	919.0	852.1
32.5°	1178.5	1201.2	1194.4	1184.2	1138.8	1101.4	1057.2	1011.9	959.8	900.9	798.9
35°	1146.8	1170.6	1171.7	1160.4	1119.6	1082.2	1041.4	993.8	934.9	823.8	749.0
37.5°	1118.4	1141.1	1147.9	1124.1	1092.4	1042.5	1005.1	955.3	848.7	773.9	735.4
40°	1096.9	1113.9	1124.1	1086.7	1055.0	1006.2	963.2	875.9	779.6	753.6	699.2
42.5°	1074.2	1090.1	1094.6	1053.8	1005.1	958.7	896.3	786.4	758.1	719.6	573.4
45°	1017.6	1036.8	1025.5	985.9	949.6	900.9	807.9	760.4	729.8	570.0	352.4
47.5°	763.8	785.3	815.9	827.2	839.7	804.5	753.6	736.6	599.4	345.6	109.9
50°	675.4	672.0	672.0	677.6	687.8	699.2	713.9	621.0	360.3	107.7	0.0
52.5°	275.4	289.0	355.8	415.9	485.0	554.1	575.6	380.7	140.5	2.3	0.0
55°	34.0	34.0	47.6	81.6	134.8	217.6	244.8	122.4	10.2	0.0	0.0
57.5°	0.0	0.0	0.0	1.1	9.1	24.9	17.0	4.5	1.1	1.1	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
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	1.1	1.1
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1
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: P1311398

CATALOG NUMBER: P3SQAS13R709050DE010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	298.0	298.0	298.0	298.0	298.0	298.0	298.0	298.0
2.5°	389.8	376.2	356.9	300.3	251.6	208.5	183.6	171.1
5°	498.6	465.7	421.5	299.2	204.0	136.0	102.0	89.5
7.5°	602.8	565.4	490.7	294.6	156.4	79.3	44.2	35.1
10°	648.2	621.0	554.1	287.8	113.3	37.4	37.4	38.5
12.5°	666.3	645.9	591.5	277.6	74.8	36.3	38.5	36.3
15°	678.8	659.5	609.6	266.3	43.1	37.4	30.6	27.2
17.5°	685.6	662.9	615.3	244.8	28.3	31.7	19.3	15.9
20°	707.1	670.8	619.8	219.8	27.2	21.5	10.2	7.9
22.5°	743.4	686.7	621.0	189.2	21.5	12.5	3.4	0.0
25°	776.2	708.2	624.4	149.6	6.8	3.4	0.0	0.0
27.5°	792.1	715.0	623.2	105.4	0.0	0.0	0.0	0.0
30°	772.8	698.0	613.0	65.7	0.0	0.0	0.0	0.0
32.5°	727.5	685.6	581.3	28.3	0.0	0.0	0.0	0.0
35°	712.8	658.4	508.8	3.4	0.0	0.0	0.0	0.0
37.5°	679.9	580.2	373.9	0.0	0.0	0.0	0.0	0.0
40°	584.7	419.3	177.9	0.0	0.0	0.0	0.0	0.0
42.5°	386.4	179.0	10.2	0.0	0.0	0.0	0.0	0.0
45°	136.0	11.3	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.1	1.1	1.1	1.1	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
65°	0.0	0.0	1.1	1.1	0.0	0.0	0.0	0.0
67.5°	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0
70°	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0
72.5°	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0
75°	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0
77.5°	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0
80°	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0
85°	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0
87.5°	1.1	1.1	1.1	1.1	1.1	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)