

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: P1309957

Luminaire Tested: P3SQAS05R459040DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309957
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS05R459040DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

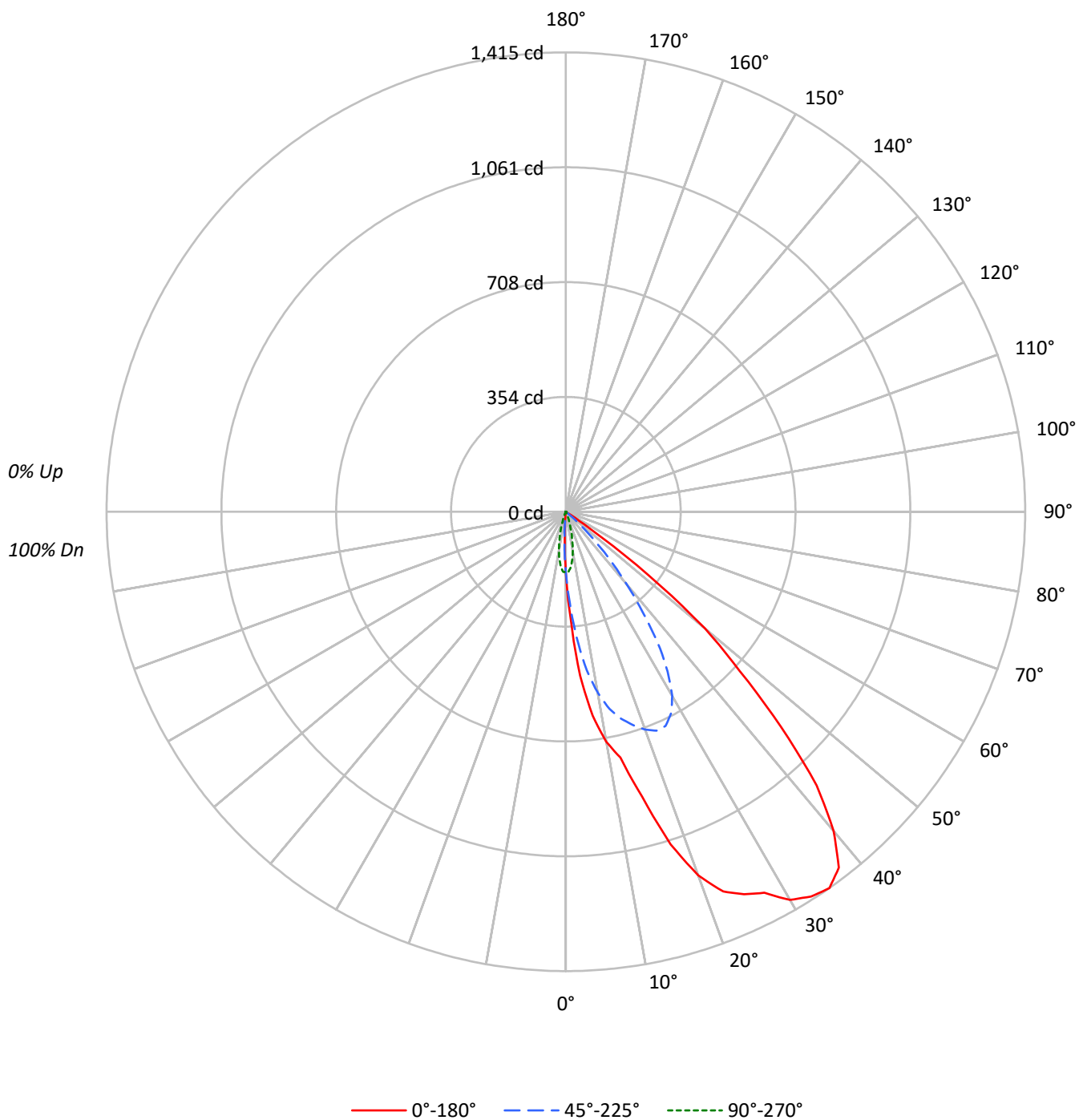
Lumens per Lamp: N/A
Luminaire Lumens: 600.0 lumens
Efficiency: N/A
Efficacy: 83.3 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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

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Luminous Intensity Polar Plot



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91		
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82		
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54		
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	49		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	32085	32085	32085	32085	32085
5°	87616	67406	29701	5964	2230
10°	125826	98894	21475	560	472
15°	162002	117623	11429	196	0
20°	218336	130877	4344	0	0
25°	246959	138263	1121	0	0
30°	274494	130336	99	0	0
35°	297581	103945	0	0	0
40°	288422	65265	0	0	0
45°	228629	31078	0	0	0
50°	149639	3885	0	0	0
55°	25702	0	0	0	0
60°	0	0	172	0	0
65°	0	204	204	0	0
70°	0	252	554	0	0
75°	0	333	732	0	0
80°	0	496	1091	496	0
85°	0	988	2174	988	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 228629 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.2	3.7
10°-20°	85.5	14.2
20°-30°	160.0	26.7
30°-40°	186.8	31.1
40°-50°	121.8	20.3
50°-60°	22.6	3.8
60°-70°	0.2	0.0
70°-80°	0.4	0.1
80°-90°	0.5	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°	267.7	44.6
0°-40°	454.4	75.7
0°-60°	598.9	99.8
0°-90°	600.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	600.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	186	186	186	186	186	
5°	507	390	172	34	13	54
15°	909	660	64	1	0	271
25°	1300	728	6	0	0	601
35°	1415	494	0	0	0	868
45°	939	128	0	0	0	714
55°	86	0	0	0	0	149
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	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	186.3	186.3	186.3	186.3	186.3	186.3	186.3	186.3	186.3	186.3	186.3
2.5°	328.5	331.2	325.8	323.7	316.7	318.3	306.4	301.6	294.1	281.7	275.7
5°	506.8	501.9	497.6	488.5	483.1	468.6	452.4	434.1	412.0	389.9	364.6
7.5°	633.9	630.1	628.5	621.0	610.2	595.1	574.1	551.0	522.4	492.8	454.6
10°	719.5	715.8	709.3	701.8	693.1	680.7	660.3	635.0	603.7	565.5	520.8
12.5°	775.5	775.0	764.2	755.6	744.8	734.1	713.1	692.6	661.9	622.6	572.0
15°	908.6	899.9	885.9	861.7	831.5	803.5	769.6	737.3	703.9	659.7	603.2
17.5°	1074.4	1064.7	1041.0	1010.4	961.9	908.6	850.4	799.2	749.1	689.4	622.6
20°	1191.3	1187.5	1167.6	1132.1	1080.4	1009.8	933.3	861.2	790.6	714.1	631.7
22.5°	1266.2	1264.0	1255.9	1231.7	1178.9	1099.8	1001.2	904.3	819.2	729.8	629.0
25°	1299.6	1302.3	1303.3	1291.5	1248.9	1168.2	1051.3	937.1	835.3	727.6	608.6
27.5°	1323.3	1323.3	1327.6	1322.2	1279.1	1194.0	1070.7	948.4	829.9	701.2	565.5
30°	1380.3	1379.3	1382.0	1367.4	1307.6	1202.1	1062.1	930.1	799.2	655.4	503.6
32.5°	1405.1	1406.2	1405.7	1382.5	1313.0	1196.7	1041.0	895.1	742.7	583.8	421.7
35°	1415.4	1410.5	1390.6	1337.8	1250.0	1125.1	981.8	835.9	663.5	494.4	332.8
37.5°	1381.4	1367.4	1323.3	1251.1	1143.9	1023.8	883.8	729.8	558.5	387.8	250.4
40°	1282.9	1264.6	1209.1	1121.8	1023.8	915.6	768.0	605.3	436.8	290.3	175.6
42.5°	1143.4	1122.4	1062.6	986.7	897.3	783.6	636.6	473.9	319.9	200.3	111.5
45°	938.7	926.9	892.4	828.3	740.5	622.6	487.9	345.8	221.4	127.6	57.1
47.5°	726.0	710.9	686.1	642.0	568.7	456.7	341.5	234.8	142.2	63.0	11.8
50°	558.5	540.7	510.6	461.6	385.1	304.8	221.4	146.5	72.2	14.5	0.5
52.5°	321.5	325.3	310.8	279.5	237.0	182.6	128.2	73.8	16.2	0.5	0.0
55°	85.6	92.6	90.5	97.5	85.6	72.2	53.3	14.0	1.1	0.0	0.0
57.5°	0.0	0.0	0.5	1.1	3.2	4.8	1.6	0.5	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	0.5	0.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	186.3	186.3	186.3	186.3	186.3	186.3	186.3	186.3
2.5°	262.3	251.0	237.0	185.3	139.5	100.2	78.1	72.2
5°	340.4	312.9	277.4	171.8	86.2	34.5	15.6	12.9
7.5°	414.2	373.8	309.7	150.3	43.6	8.6	4.3	3.8
10°	471.2	416.9	333.4	122.8	16.2	3.2	2.7	2.7
12.5°	510.6	444.3	342.0	93.2	5.9	1.6	1.6	1.1
15°	533.2	455.1	333.9	64.1	2.2	1.1	0.0	0.0
17.5°	540.2	450.8	312.4	40.4	0.5	0.0	0.0	0.0
20°	534.3	429.8	278.4	23.7	0.0	0.0	0.0	0.0
22.5°	514.9	396.9	237.5	12.9	0.0	0.0	0.0	0.0
25°	478.8	350.6	189.6	5.9	0.0	0.0	0.0	0.0
27.5°	420.1	290.8	142.7	2.2	0.0	0.0	0.0	0.0
30°	353.3	226.7	101.3	0.5	0.0	0.0	0.0	0.0
32.5°	275.7	167.0	65.2	0.0	0.0	0.0	0.0	0.0
35°	207.3	116.9	38.8	0.0	0.0	0.0	0.0	0.0
37.5°	144.3	73.8	20.5	0.0	0.0	0.0	0.0	0.0
40°	89.9	39.9	7.0	0.0	0.0	0.0	0.0	0.0
42.5°	50.1	14.0	0.5	0.0	0.0	0.0	0.0	0.0
45°	11.8	1.1	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.5	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	0.5	0.0	0.0	0.0	0.0
60°	0.0	0.5	0.5	0.5	0.0	0.0	0.0	0.0
62.5°	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
65°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0
67.5°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0
70°	0.5	0.5	0.5	1.1	0.5	0.0	0.0	0.0
72.5°	0.5	0.5	1.1	1.1	0.5	0.0	0.0	0.0
75°	0.5	0.5	1.1	1.1	0.5	0.0	0.0	0.0
77.5°	0.5	1.1	1.1	1.1	0.5	0.5	0.0	0.0
80°	0.5	1.1	1.1	1.1	1.1	0.5	0.0	0.0
82.5°	0.5	1.1	1.1	1.1	1.1	0.5	0.0	0.0
85°	0.5	1.1	1.1	1.1	0.5	0.5	0.0	0.0
87.5°	0.5	1.1	1.1	1.1	1.1	0.5	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)