

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: P1307721

Luminaire Tested: P3SQAS05R459030DE010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307721
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: P3SQAS05R459030DE010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

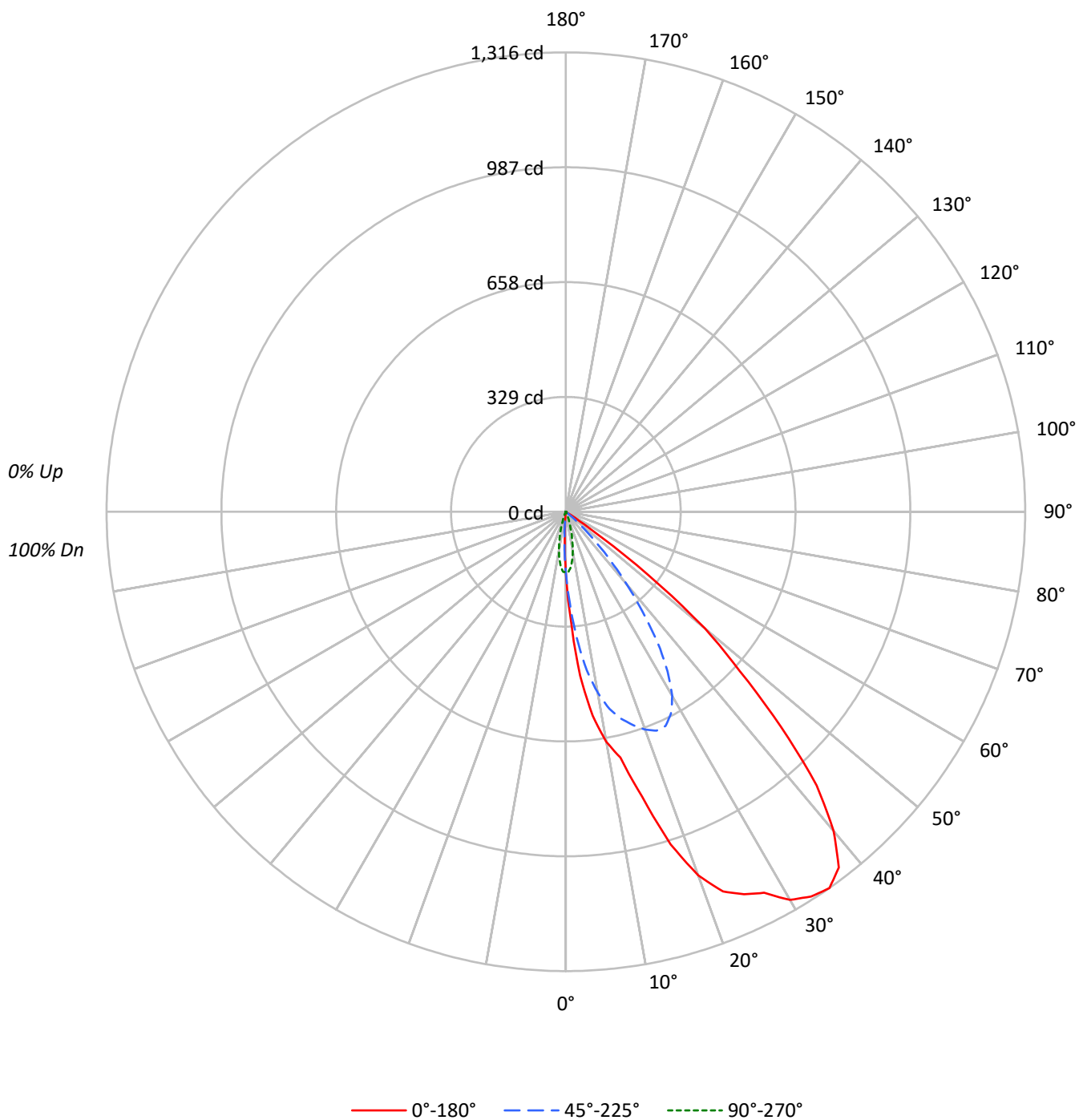
Lumens per Lamp: N/A
Luminaire Lumens: 558.0 lumens
Efficiency: N/A
Efficacy: 77.5 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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°	29846	29846	29846	29846	29846
5°	81479	62686	27626	5549	2075
10°	117029	91969	19971	525	437
15°	150662	109404	10627	178	0
20°	203051	121713	4032	0	0
25°	229666	128591	1045	0	0
30°	255284	121228	99	0	0
35°	276746	96671	0	0	0
40°	268234	60702	0	0	0
45°	212628	28911	0	0	0
50°	139163	3617	0	0	0
55°	23901	0	0	0	0
60°	0	0	172	0	0
65°	0	204	204	0	0
70°	0	252	504	0	0
75°	0	333	665	0	0
80°	0	496	992	496	0
85°	0	988	1976	988	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 212628 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.6	3.7
10°-20°	79.5	14.2
20°-30°	148.8	26.7
30°-40°	173.7	31.1
40°-50°	113.3	20.3
50°-60°	21.0	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°	248.9	44.6
0°-40°	422.6	75.7
0°-60°	556.9	99.8
0°-90°	558.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	558.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	173	173	173	173	173	
5°	471	363	160	32	12	50
15°	845	614	60	1	0	252
25°	1209	677	6	0	0	559
35°	1316	460	0	0	0	807
45°	873	119	0	0	0	664
55°	80	0	0	0	0	138
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°	173.3	173.3	173.3	173.3	173.3	173.3	173.3	173.3	173.3	173.3	173.3
2.5°	305.5	308.0	303.0	301.0	294.5	296.0	285.0	280.5	273.5	262.0	256.4
5°	471.3	466.8	462.8	454.3	449.3	435.8	420.7	403.7	383.2	362.6	339.1
7.5°	589.5	586.0	584.5	577.5	567.5	553.5	533.9	512.4	485.8	458.3	422.7
10°	669.2	665.7	659.6	652.6	644.6	633.1	614.1	590.5	561.5	525.9	484.3
12.5°	721.2	720.7	710.7	702.7	692.7	682.7	663.1	644.1	615.6	579.0	531.9
15°	845.0	836.9	823.9	801.4	773.3	747.3	715.7	685.7	654.6	613.6	561.0
17.5°	999.2	990.2	968.2	939.6	894.5	845.0	790.9	743.3	696.7	641.1	579.0
20°	1107.9	1104.4	1085.9	1052.8	1004.7	939.1	868.0	800.9	735.3	664.1	587.5
22.5°	1177.5	1175.5	1168.0	1145.5	1096.4	1022.8	931.1	841.0	761.8	678.7	585.0
25°	1208.6	1211.1	1212.1	1201.1	1161.5	1086.4	977.7	871.5	776.8	676.7	566.0
27.5°	1230.6	1230.6	1234.6	1229.6	1189.6	1110.4	995.7	882.0	771.8	652.1	525.9
30°	1283.7	1282.7	1285.2	1271.7	1216.1	1117.9	987.7	865.0	743.3	609.6	468.3
32.5°	1306.8	1307.8	1307.3	1285.7	1221.1	1112.9	968.2	832.4	690.7	542.9	392.2
35°	1316.3	1311.8	1293.2	1244.2	1162.5	1046.3	913.1	777.3	617.1	459.8	309.5
37.5°	1284.7	1271.7	1230.6	1163.5	1063.8	952.1	821.9	678.7	519.4	360.6	232.9
40°	1193.1	1176.0	1124.4	1043.3	952.1	851.5	714.2	563.0	406.2	270.0	163.3
42.5°	1063.3	1043.8	988.2	917.6	834.4	728.8	592.0	440.8	297.5	186.3	103.7
45°	873.0	862.0	829.9	770.3	688.7	579.0	453.8	321.6	205.9	118.7	53.1
47.5°	675.2	661.1	638.1	597.0	528.9	424.7	317.5	218.4	132.2	58.6	11.0
50°	519.4	502.9	474.8	429.2	358.1	283.5	205.9	136.2	67.1	13.5	0.5
52.5°	299.0	302.5	289.0	259.9	220.4	169.8	119.2	68.6	15.0	0.5	0.0
55°	79.6	86.1	84.1	90.7	79.6	67.1	49.6	13.0	1.0	0.0	0.0
57.5°	0.0	0.0	0.5	1.0	3.0	4.5	1.5	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°	173.3	173.3	173.3	173.3	173.3	173.3	173.3	173.3
2.5°	243.9	233.4	220.4	172.3	129.7	93.2	72.6	67.1
5°	316.5	291.0	257.9	159.8	80.1	32.1	14.5	12.0
7.5°	385.2	347.6	288.0	139.7	40.6	8.0	4.0	3.5
10°	438.3	387.7	310.0	114.2	15.0	3.0	2.5	2.5
12.5°	474.8	413.2	318.1	86.6	5.5	1.5	1.5	1.0
15°	495.9	423.2	310.5	59.6	2.0	1.0	0.0	0.0
17.5°	502.4	419.2	290.5	37.6	0.5	0.0	0.0	0.0
20°	496.9	399.7	258.9	22.0	0.0	0.0	0.0	0.0
22.5°	478.8	369.1	220.9	12.0	0.0	0.0	0.0	0.0
25°	445.3	326.1	176.3	5.5	0.0	0.0	0.0	0.0
27.5°	390.7	270.5	132.7	2.0	0.0	0.0	0.0	0.0
30°	328.6	210.9	94.2	0.5	0.0	0.0	0.0	0.0
32.5°	256.4	155.3	60.6	0.0	0.0	0.0	0.0	0.0
35°	192.8	108.7	36.1	0.0	0.0	0.0	0.0	0.0
37.5°	134.2	68.6	19.0	0.0	0.0	0.0	0.0	0.0
40°	83.6	37.1	6.5	0.0	0.0	0.0	0.0	0.0
42.5°	46.6	13.0	0.5	0.0	0.0	0.0	0.0	0.0
45°	11.0	1.0	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	1.0	0.5	0.0	0.0	0.0
72.5°	0.5	0.5	1.0	1.0	0.5	0.0	0.0	0.0
75°	0.5	0.5	1.0	1.0	0.5	0.0	0.0	0.0
77.5°	0.5	1.0	1.0	1.0	0.5	0.5	0.0	0.0
80°	0.5	1.0	1.0	1.0	1.0	0.5	0.0	0.0
82.5°	0.5	1.0	1.0	1.0	1.0	0.5	0.0	0.0
85°	0.5	1.0	1.0	1.0	0.5	0.5	0.0	0.0
87.5°	0.5	1.0	1.0	1.0	1.0	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)