

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: P1306602

Luminaire Tested: P3SQAS05R459027DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1306602
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: P3SQAS05R459027DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

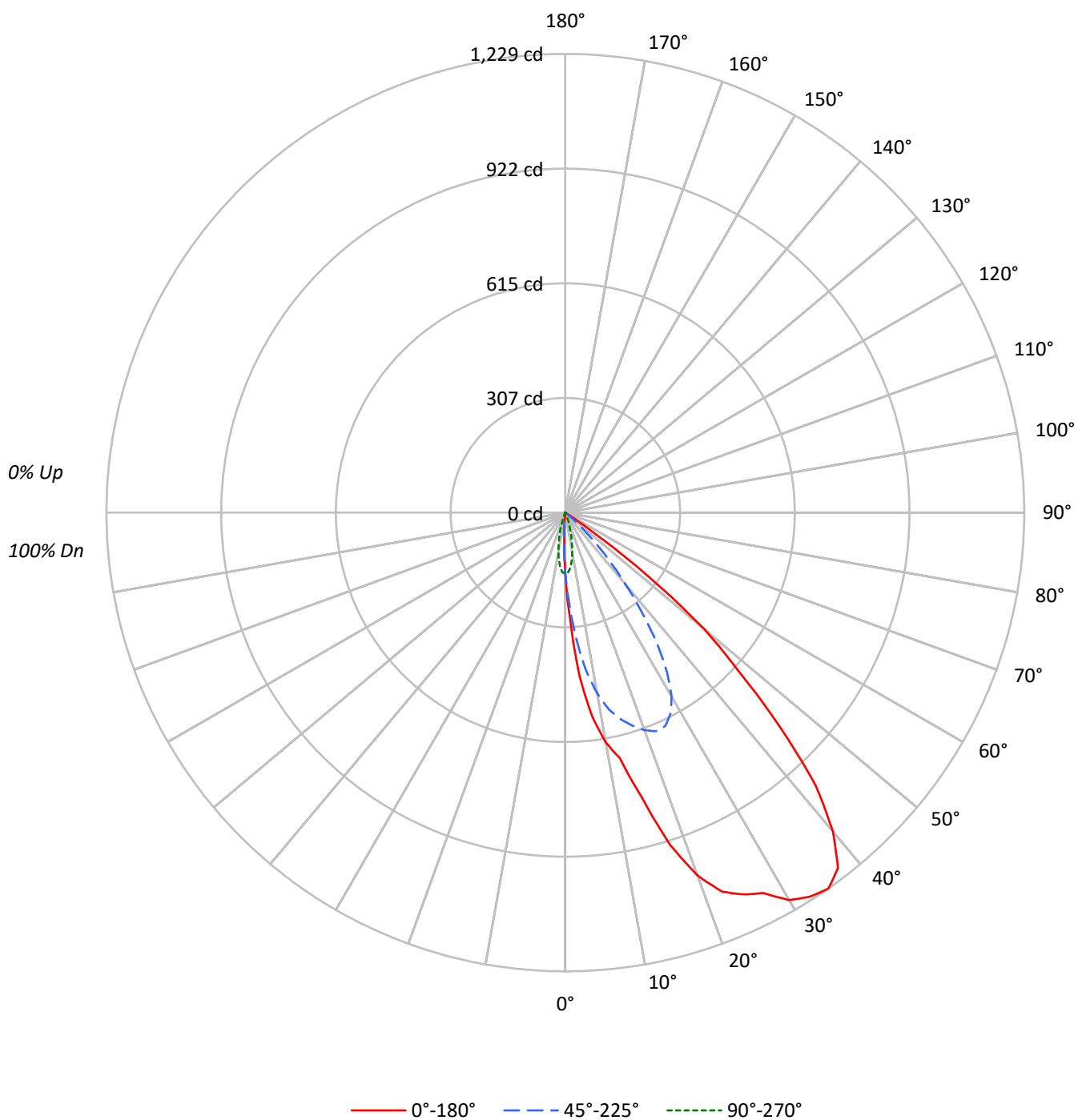
Lumens per Lamp: N/A
Luminaire Lumens: 521.0 lumens
Efficiency: N/A
Efficacy: 72.4 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	27866	27866	27866	27866	27866
5°	76085	58537	25794	5169	1936
10°	109265	85866	18642	490	402
15°	140659	102147	9931	160	0
20°	189599	113649	3775	0	0
25°	214445	120059	969	0	0
30°	238360	113174	99	0	0
35°	258391	90258	0	0	0
40°	250450	56677	0	0	0
45°	198525	26986	0	0	0
50°	129946	3376	0	0	0
55°	22339	0	0	0	0
60°	0	0	172	0	0
65°	0	204	204	0	0
70°	0	252	453	0	0
75°	0	333	599	0	0
80°	0	496	893	496	0
85°	0	988	1778	988	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 198525 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.3	3.7
10°-20°	74.2	14.2
20°-30°	138.9	26.7
30°-40°	162.2	31.1
40°-50°	105.8	20.3
50°-60°	19.6	3.8
60°-70°	0.2	0.0
70°-80°	0.4	0.1
80°-90°	0.4	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°	232.4	44.6
0°-40°	394.6	75.7
0°-60°	520.0	99.8
0°-90°	521.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	521.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	162	162	162	162	162	
5°	440	339	149	30	11	47
15°	789	573	56	1	0	235
25°	1128	632	5	0	0	522
35°	1229	429	0	0	0	754
45°	815	111	0	0	0	620
55°	74	0	0	0	0	129
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°	161.8	161.8	161.8	161.8	161.8	161.8	161.8	161.8	161.8	161.8	161.8
2.5°	285.3	287.6	282.9	281.1	275.0	276.4	266.1	261.9	255.3	244.6	239.4
5°	440.1	435.9	432.1	424.2	419.5	406.9	392.8	376.9	357.8	338.6	316.6
7.5°	550.4	547.2	545.8	539.2	529.9	516.8	498.5	478.4	453.6	427.9	394.7
10°	624.8	621.5	615.9	609.4	601.9	591.1	573.3	551.4	524.2	491.0	452.2
12.5°	673.4	673.0	663.6	656.1	646.8	637.4	619.2	601.4	574.7	540.6	496.6
15°	788.9	781.5	769.3	748.2	722.1	697.7	668.3	640.2	611.2	572.9	523.8
17.5°	933.0	924.6	904.0	877.3	835.2	788.9	738.4	694.0	650.5	598.6	540.6
20°	1034.5	1031.2	1013.9	983.0	938.1	876.9	810.4	747.8	686.5	620.1	548.6
22.5°	1099.5	1097.6	1090.6	1069.5	1023.7	955.0	869.4	785.2	711.3	633.7	546.2
25°	1128.5	1130.8	1131.7	1121.4	1084.5	1014.3	912.9	813.7	725.3	631.8	528.5
27.5°	1149.0	1149.0	1152.8	1148.1	1110.7	1036.8	929.7	823.5	720.7	608.9	491.0
30°	1198.6	1197.7	1200.0	1187.4	1135.5	1043.8	922.2	807.6	694.0	569.1	437.3
32.5°	1220.1	1221.0	1220.6	1200.5	1140.1	1039.1	904.0	777.2	644.9	506.9	366.2
35°	1229.0	1224.8	1207.5	1161.7	1085.4	976.9	852.5	725.8	576.2	429.3	289.0
37.5°	1199.5	1187.4	1149.0	1086.4	993.3	889.0	767.4	633.7	485.0	336.7	217.5
40°	1114.0	1098.1	1049.9	974.1	889.0	795.0	666.9	525.6	379.3	252.1	152.5
42.5°	992.8	974.6	922.7	856.7	779.1	680.4	552.8	411.5	277.8	174.0	96.8
45°	815.1	804.8	774.9	719.3	643.0	540.6	423.7	300.2	192.2	110.8	49.6
47.5°	630.4	617.3	595.8	557.4	493.8	396.6	296.5	203.9	123.5	54.7	10.3
50°	485.0	469.5	443.3	400.8	334.4	264.7	192.2	127.2	62.7	12.6	0.5
52.5°	279.2	282.5	269.8	242.7	205.8	158.5	111.3	64.1	14.0	0.5	0.0
55°	74.4	80.4	78.6	84.6	74.4	62.7	46.3	12.2	0.9	0.0	0.0
57.5°	0.0	0.0	0.5	0.9	2.8	4.2	1.4	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°	161.8	161.8	161.8	161.8	161.8	161.8	161.8	161.8
2.5°	227.7	217.9	205.8	160.9	121.1	87.0	67.8	62.7
5°	295.6	271.7	240.8	149.2	74.8	29.9	13.6	11.2
7.5°	359.6	324.6	268.9	130.5	37.9	7.5	3.7	3.3
10°	409.2	362.0	289.5	106.6	14.0	2.8	2.3	2.3
12.5°	443.3	385.8	297.0	80.9	5.1	1.4	1.4	0.9
15°	463.0	395.2	289.9	55.7	1.9	0.9	0.0	0.0
17.5°	469.1	391.4	271.2	35.1	0.5	0.0	0.0	0.0
20°	463.9	373.2	241.8	20.6	0.0	0.0	0.0	0.0
22.5°	447.1	344.7	206.2	11.2	0.0	0.0	0.0	0.0
25°	415.7	304.4	164.6	5.1	0.0	0.0	0.0	0.0
27.5°	364.8	252.5	123.9	1.9	0.0	0.0	0.0	0.0
30°	306.8	196.9	87.9	0.5	0.0	0.0	0.0	0.0
32.5°	239.4	145.0	56.6	0.0	0.0	0.0	0.0	0.0
35°	180.0	101.5	33.7	0.0	0.0	0.0	0.0	0.0
37.5°	125.3	64.1	17.8	0.0	0.0	0.0	0.0	0.0
40°	78.1	34.6	6.1	0.0	0.0	0.0	0.0	0.0
42.5°	43.5	12.2	0.5	0.0	0.0	0.0	0.0	0.0
45°	10.3	0.9	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	0.9	0.5	0.0	0.0	0.0
72.5°	0.5	0.5	0.9	0.9	0.5	0.0	0.0	0.0
75°	0.5	0.5	0.9	0.9	0.5	0.0	0.0	0.0
77.5°	0.5	0.9	0.9	0.9	0.5	0.5	0.0	0.0
80°	0.5	0.9	0.9	0.9	0.9	0.5	0.0	0.0
82.5°	0.5	0.9	0.9	0.9	0.9	0.5	0.0	0.0
85°	0.5	0.9	0.9	0.9	0.5	0.5	0.0	0.0
87.5°	0.5	0.9	0.9	0.9	0.9	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)