

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: P1315766

Luminaire Tested: P3SQAS02R209827DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315766
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS02R209827DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R20 optic, 2700K CCT AND, 98CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

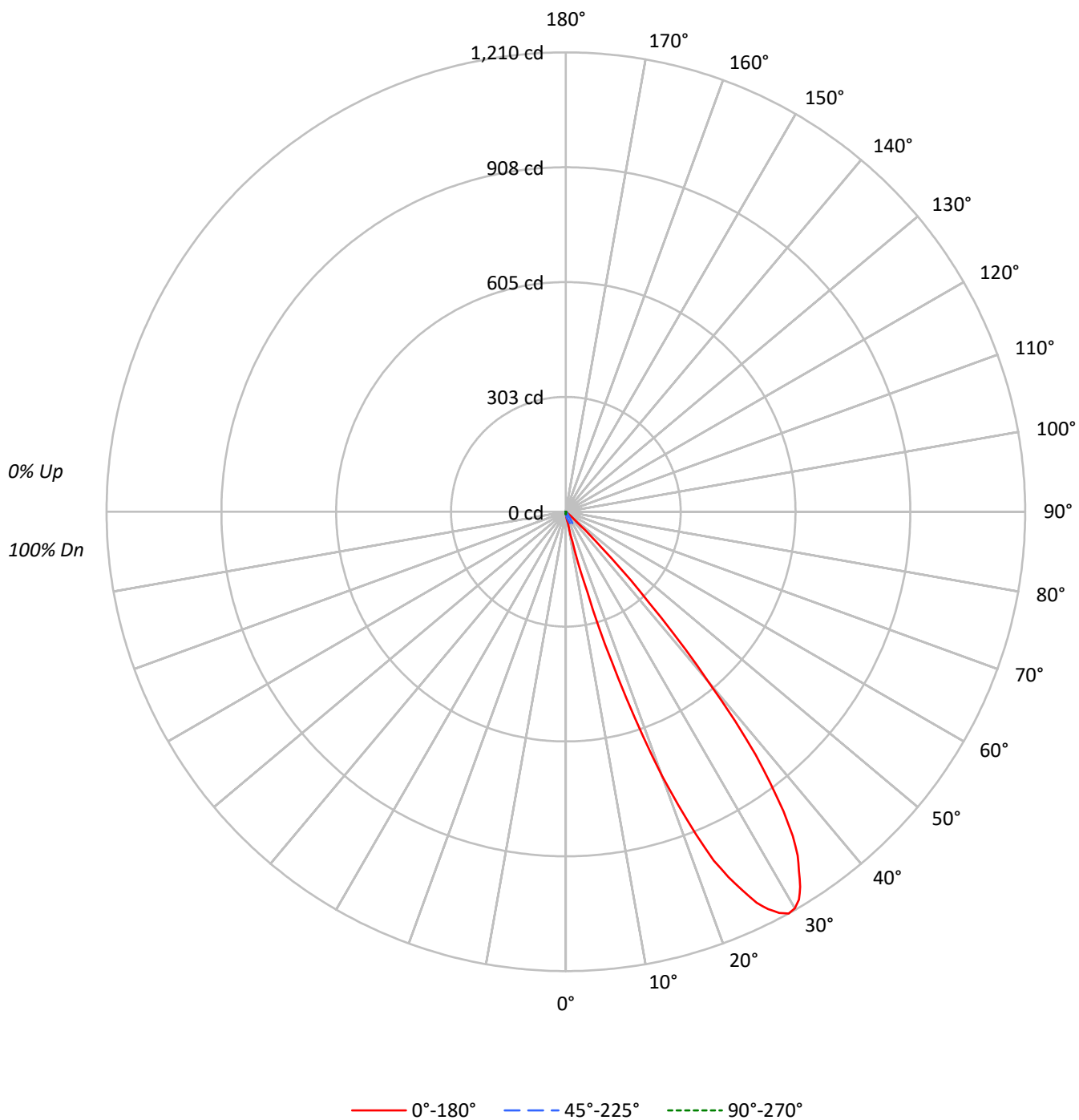
Lumens per Lamp: N/A
Luminaire Lumens: 167.0 lumens
Efficiency: N/A
Efficacy: 46.4 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 3.6
Input Voltage (V): NR
Input Current (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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92		
2	106	100	96	92	104	98	94	91	95	92	89	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	79	77	75		
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	68		
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	61		
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	55		
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	45		
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	1033	1033	1033	1033	1033
5°	2247	1573	951	432	311
10°	5579	2781	665	87	0
15°	39243	3816	392	0	0
20°	135606	6415	147	0	0
25°	209029	8209	57	0	0
30°	239931	6344	0	0	0
35°	219117	2418	0	0	0
40°	131363	1124	0	0	0
45°	32272	536	0	0	0
50°	3563	134	0	0	0
55°	510	0	60	0	0
60°	0	0	103	0	0
65°	0	0	122	0	0
70°	0	101	252	0	0
75°	0	133	333	0	0
80°	0	198	496	0	0
85°	0	395	988	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 34415 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.7	0.4
10°-20°	13.0	7.8
20°-30°	66.0	39.5
30°-40°	71.4	42.7
40°-50°	15.1	9.0
50°-60°	0.5	0.3
60°-70°	0.1	0.1
70°-80°	0.2	0.1
80°-90°	0.1	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°	79.7	47.7
0°-40°	151.1	90.5
0°-60°	166.6	99.8
0°-90°	167.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	167.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	6	6	6	6	6	
5°	13	9	6	2	2	2
15°	220	21	2	0	0	92
25°	1100	43	0	0	0	497
35°	1042	12	0	0	0	615
45°	132	2	0	0	0	146
55°	2	0	0	0	0	3
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
2.5°	8.1	8.0	8.1	8.0	8.1	8.1	8.1	8.0	8.0	8.0	8.0
5°	13.0	13.0	12.8	13.0	13.0	13.0	13.0	12.8	12.8	12.6	12.6
7.5°	20.4	20.4	20.3	20.3	20.4	20.6	19.9	20.3	20.3	20.3	20.1
10°	31.9	32.6	31.9	32.7	32.1	31.6	32.4	31.6	31.6	31.4	30.9
12.5°	80.4	78.6	77.4	74.6	77.4	75.2	75.7	75.2	73.6	71.4	70.1
15°	220.1	220.1	213.6	222.2	215.9	218.2	206.3	206.4	200.3	193.7	190.0
17.5°	460.1	464.2	459.9	457.2	451.6	443.5	440.1	431.7	420.5	407.6	406.1
20°	739.9	722.5	730.6	723.1	718.5	708.5	697.4	690.4	680.6	664.2	639.9
21°	827.9	827.3	827.1	826.9	820.1	803.9	793.7	779.8	766.0	749.1	728.8
22°	916.6	919.8	921.1	911.5	897.5	890.2	883.3	864.2	842.4	833.6	809.5
23°	998.0	995.0	986.4	981.9	971.1	969.0	948.2	936.1	914.8	905.2	876.6
24°	1053.5	1052.0	1048.0	1041.4	1032.7	1019.4	1007.0	987.9	970.4	954.7	928.1
25°	1100.0	1101.3	1094.0	1089.5	1080.2	1065.3	1050.0	1029.1	1012.8	994.4	963.6
26°	1146.0	1136.7	1130.9	1124.2	1114.1	1097.0	1082.2	1063.5	1043.7	1023.1	993.0
27°	1174.4	1166.1	1157.3	1150.8	1139.2	1122.9	1107.1	1086.4	1064.3	1043.5	1012.6
28°	1196.8	1187.7	1179.1	1171.2	1158.0	1140.5	1121.6	1100.5	1077.6	1056.1	1024.6
29°	1210.1	1199.3	1190.0	1181.2	1169.1	1150.2	1131.1	1108.5	1086.4	1064.0	1031.7
30°	1206.5	1197.2	1188.2	1179.2	1166.9	1149.2	1130.2	1108.6	1086.4	1064.3	1031.6
31°	1192.2	1180.7	1174.2	1165.3	1154.6	1136.5	1120.3	1096.7	1076.6	1052.7	1019.9
32°	1164.8	1157.5	1148.8	1141.9	1131.6	1112.3	1096.3	1077.1	1053.3	1033.7	999.3
33°	1127.6	1120.8	1116.4	1108.3	1098.3	1085.0	1065.9	1048.3	1021.6	1001.5	967.1
34°	1092.0	1083.4	1072.6	1070.3	1061.6	1044.5	1027.3	1009.3	985.4	959.8	925.1
35°	1042.2	1033.2	1023.3	1024.1	1013.8	993.9	976.3	956.2	933.4	903.3	870.5
36°	975.6	969.6	968.1	964.1	952.3	928.6	911.8	886.6	867.5	830.8	802.5
37°	894.4	896.5	885.7	880.6	866.8	850.2	840.7	808.3	786.1	758.5	720.3
38°	812.3	809.2	796.4	799.5	780.6	763.3	736.6	717.3	692.4	666.8	636.3
39°	709.9	702.1	686.8	687.4	673.2	653.7	627.8	605.1	590.1	565.5	536.3
40°	584.3	581.0	575.7	566.9	548.1	539.6	516.5	492.0	479.3	445.3	431.0
42.5°	324.2	319.7	310.7	307.6	297.6	287.7	274.2	257.8	249.8	239.7	217.1
45°	132.5	141.3	139.2	136.7	129.0	129.5	119.9	121.1	112.3	106.3	102.1
47.5°	29.2	31.7	31.9	30.7	31.9	30.9	30.4	29.6	29.7	30.2	29.1
50°	13.3	13.1	13.5	13.3	13.1	13.0	12.8	12.3	12.6	12.3	12.0
52.5°	5.1	5.3	5.3	5.0	5.1	5.1	5.1	5.0	5.0	5.0	5.0
55°	1.7	1.7	1.7	1.5	1.5	1.7	1.7	1.7	1.7	1.7	1.5
57.5°	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.3
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



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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

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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0
2.5°	7.6	7.0	6.5	6.0	5.0	4.2	3.8	3.8
5°	11.8	9.1	6.8	5.5	3.8	2.5	2.0	1.8
7.5°	17.8	12.3	7.1	4.7	2.5	1.3	0.8	0.7
10°	25.7	15.9	7.5	3.8	1.5	0.5	0.0	0.0
12.5°	45.0	19.1	7.5	3.0	0.7	0.0	0.0	0.0
15°	103.1	21.4	7.1	2.2	0.2	0.0	0.0	0.0
17.5°	214.3	26.9	6.3	1.5	0.0	0.0	0.0	0.0
20°	342.1	35.0	5.0	0.8	0.0	0.0	0.0	0.0
21°	394.8	37.9	4.5	0.7	0.0	0.0	0.0	0.0
22°	432.7	40.5	4.0	0.5	0.0	0.0	0.0	0.0
23°	474.3	42.2	3.5	0.3	0.0	0.0	0.0	0.0
24°	505.1	43.2	3.0	0.3	0.0	0.0	0.0	0.0
25°	524.2	43.2	2.7	0.3	0.0	0.0	0.0	0.0
26°	535.5	42.2	2.3	0.2	0.0	0.0	0.0	0.0
27°	538.1	40.5	2.0	0.2	0.0	0.0	0.0	0.0
28°	534.8	38.4	1.7	0.0	0.0	0.0	0.0	0.0
29°	524.3	35.2	1.5	0.0	0.0	0.0	0.0	0.0
30°	513.0	31.9	1.2	0.0	0.0	0.0	0.0	0.0
31°	493.8	27.4	1.0	0.0	0.0	0.0	0.0	0.0
32°	471.5	22.8	0.8	0.0	0.0	0.0	0.0	0.0
33°	441.8	17.9	0.7	0.0	0.0	0.0	0.0	0.0
34°	397.9	14.1	0.7	0.0	0.0	0.0	0.0	0.0
35°	358.6	11.5	0.5	0.0	0.0	0.0	0.0	0.0
36°	307.1	9.1	0.5	0.0	0.0	0.0	0.0	0.0
37°	263.1	7.6	0.5	0.0	0.0	0.0	0.0	0.0
38°	220.2	6.5	0.3	0.0	0.0	0.0	0.0	0.0
39°	178.7	5.6	0.3	0.0	0.0	0.0	0.0	0.0
40°	142.5	5.0	0.3	0.0	0.0	0.0	0.0	0.0
42.5°	76.9	3.3	0.0	0.0	0.0	0.0	0.0	0.0
45°	42.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	18.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0
50°	6.3	0.5	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	1.5	0.0	0.0	0.2	0.0	0.0	0.0	0.0
57.5°	0.3	0.0	0.0	0.2	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.2	0.3	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.2	0.3	0.2	0.0	0.0	0.0
65°	0.0	0.0	0.3	0.3	0.2	0.0	0.0	0.0
67.5°	0.0	0.2	0.3	0.5	0.2	0.0	0.0	0.0
70°	0.0	0.2	0.3	0.5	0.2	0.0	0.0	0.0
72.5°	0.0	0.2	0.3	0.5	0.2	0.0	0.0	0.0
75°	0.0	0.2	0.3	0.5	0.2	0.0	0.0	0.0
77.5°	0.0	0.2	0.3	0.5	0.2	0.0	0.0	0.0
80°	0.0	0.2	0.3	0.5	0.2	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.2	0.3	0.5	0.2	0.0	0.0	0.0
85°	0.0	0.2	0.3	0.5	0.2	0.0	0.0	0.0
87.5°	0.0	0.2	0.3	0.5	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)