

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: P1313616

Luminaire Tested: P3SQAS17R559730DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313616
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R559730DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R55 optic, 3000K CCT AND, 97CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

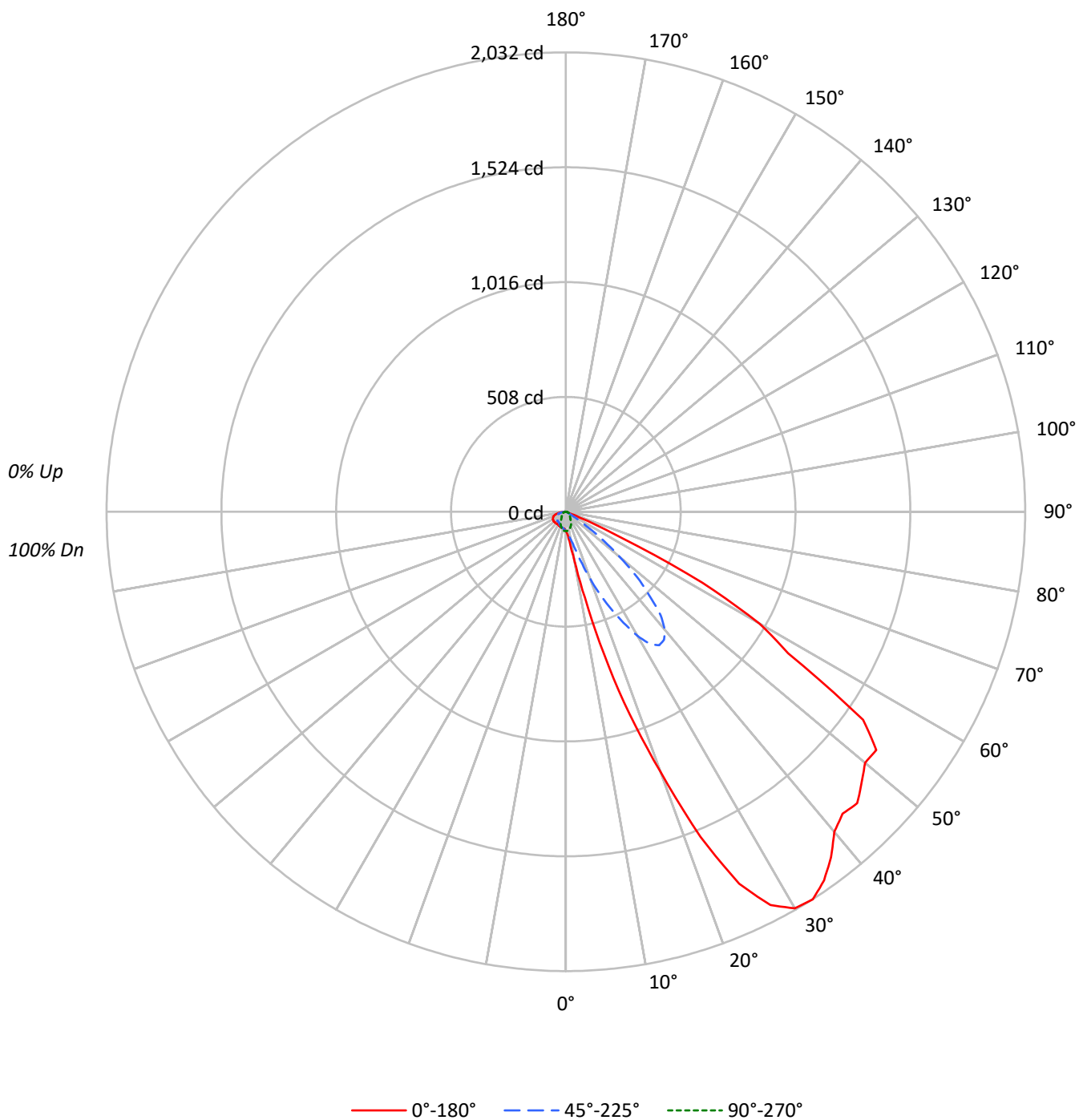
Lumens per Lamp: N/A
Luminaire Lumens: 1307.0 lumens
Efficiency: N/A
Efficacy: 61.7 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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	110	106	102	99	107	104	100	97	99	97	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51		
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43		
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37		
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32		
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29	27		
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26	24		
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	21		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	14518	14518	14518	14518	14518
5°	18567	16977	14574	13571	13173
10°	37756	21615	14130	12924	12924
15°	115929	33146	13176	12552	12980
20°	224128	57988	11858	12279	12903
25°	344974	90187	10318	11858	12941
30°	402802	126081	8492	11713	13324
35°	418577	151503	7043	11648	13834
40°	415401	152923	6497	12208	15063
45°	444107	126578	6186	13225	16318
50°	462877	83541	6189	14227	18246
55°	481979	36422	6245	15614	20117
60°	340484	8370	6372	17119	22664
65°	111047	2812	6113	18338	25429
70°	3474	2921	6395	19789	29055
75°	3061	3061	5390	20761	32273
80°	2281	3471	5752	20629	34316
85°	2371	4545	6916	20551	34185

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 489740 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.9	0.7
10°-20°	55.5	4.2
20°-30°	186.0	14.2
30°-40°	305.5	23.4
40°-50°	340.8	26.1
50°-60°	286.8	21.9
60°-70°	97.3	7.4
70°-80°	19.0	1.5
80°-90°	7.1	0.5
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°	250.5	19.2
0°-40°	556.0	42.5
0°-60°	1183.5	90.6
0°-90°	1307.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1307.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	84	84	84	84	84	
5°	107	98	84	78	76	13
15°	650	186	74	70	73	206
25°	1815	475	54	62	68	816
35°	1991	721	34	55	66	1236
45°	1823	520	25	54	67	1393
55°	1605	121	21	52	67	1307
65°	272	7	15	45	62	369
75°	5	5	8	31	48	5
85°	1	2	4	10	17	2
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3	84.3
2.5°	92.4	92.4	92.4	92.4	92.4	92.4	91.2	87.8	85.5	82.0	80.8
5°	107.4	107.4	107.4	106.2	106.2	103.9	98.2	90.1	84.3	79.7	78.5
7.5°	138.6	137.4	135.1	134.0	130.5	129.3	108.6	92.4	83.1	77.4	76.2
10°	215.9	213.6	210.2	197.5	185.9	177.8	123.6	93.5	80.8	75.1	73.9
12.5°	389.2	384.6	367.2	340.7	308.3	292.2	147.8	94.7	77.4	72.8	72.8
15°	650.2	644.4	612.1	575.1	516.2	483.9	185.9	93.5	73.9	69.3	70.4
17.5°	938.9	922.7	889.2	840.7	761.0	722.9	242.5	91.2	69.3	67.0	69.3
20°	1222.9	1218.3	1162.9	1097.1	998.9	948.1	316.4	87.8	64.7	63.5	67.0
22.5°	1555.5	1535.9	1477.0	1406.6	1271.4	1204.5	396.1	83.1	60.1	60.1	64.7
25°	1815.4	1792.3	1746.1	1664.1	1535.9	1464.3	474.6	77.4	54.3	56.6	62.4
27.5°	1960.9	1934.3	1899.7	1829.2	1729.9	1666.4	553.2	70.4	48.5	53.1	60.1
30°	2025.5	2018.6	1993.2	1941.2	1850.0	1793.4	634.0	62.4	42.7	49.7	58.9
32.5°	2032.5	2035.9	2025.5	1992.1	1922.8	1874.3	694.0	55.4	38.1	47.3	56.6
35°	1990.9	2003.6	2010.5	1996.7	1951.6	1912.4	720.6	47.3	33.5	45.0	55.4
37.5°	1926.2	1949.3	1972.4	1975.9	1948.2	1922.8	713.7	40.4	31.2	43.9	55.4
40°	1847.7	1868.5	1915.8	1945.9	1936.6	1918.1	680.2	33.5	28.9	41.6	54.3
42.5°	1811.9	1816.5	1867.3	1918.1	1915.8	1900.8	621.3	26.6	26.6	41.6	54.3
45°	1823.4	1802.7	1836.2	1895.0	1891.6	1872.0	519.7	20.8	25.4	40.4	54.3
47.5°	1774.9	1746.1	1802.7	1872.0	1859.2	1830.4	429.6	15.0	24.3	39.3	53.1
50°	1727.6	1723.0	1766.9	1801.5	1784.2	1768.0	311.8	11.5	23.1	38.1	53.1
52.5°	1731.1	1723.0	1727.6	1726.4	1691.8	1674.5	213.6	9.2	21.9	37.0	53.1
55°	1605.2	1579.8	1555.5	1562.5	1564.8	1553.2	121.3	8.1	20.8	37.0	52.0
57.5°	1166.4	1159.4	1186.0	1261.1	1320.0	1326.9	58.9	8.1	19.6	35.8	50.8
60°	988.5	983.9	985.1	1007.0	1038.2	1018.5	24.3	8.1	18.5	34.6	49.7
62.5°	681.3	726.4	744.9	795.7	774.9	747.2	9.2	9.2	17.3	32.3	48.5
65°	272.5	271.4	296.8	321.0	314.1	293.3	6.9	8.1	15.0	30.0	45.0
67.5°	63.5	57.7	49.7	42.7	35.8	28.9	6.9	8.1	13.9	27.7	42.7
70°	6.9	6.9	6.9	6.9	6.9	5.8	5.8	8.1	12.7	25.4	39.3
72.5°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	6.9	10.4	21.9	35.8
75°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	5.8	8.1	18.5	31.2
77.5°	3.5	3.5	3.5	4.6	3.5	4.6	4.6	5.8	6.9	15.0	26.6
80°	2.3	2.3	3.5	3.5	3.5	3.5	3.5	4.6	5.8	12.7	20.8
82.5°	2.3	2.3	2.3	2.3	2.3	2.3	3.5	3.5	4.6	9.2	15.0
85°	1.2	1.2	1.2	1.2	1.2	2.3	2.3	3.5	3.5	6.9	10.4
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	2.3	2.3	3.5	3.5	4.6
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):

	157.5°	180°
0°	84.3	84.3
2.5°	79.7	79.7
5°	77.4	76.2
7.5°	75.1	75.1
10°	73.9	73.9
12.5°	72.8	73.9
15°	72.8	72.8
17.5°	70.4	71.6
20°	69.3	70.4
22.5°	68.1	69.3
25°	67.0	68.1
27.5°	65.8	67.0
30°	64.7	67.0
32.5°	63.5	65.8
35°	63.5	65.8
37.5°	63.5	67.0
40°	63.5	67.0
42.5°	63.5	67.0
45°	63.5	67.0
47.5°	63.5	67.0
50°	63.5	68.1
52.5°	63.5	68.1
55°	63.5	67.0
57.5°	62.4	67.0
60°	62.4	65.8
62.5°	61.2	64.7
65°	58.9	62.4
67.5°	56.6	61.2
70°	53.1	57.7
72.5°	49.7	53.1
75°	45.0	48.5
77.5°	39.3	41.6
80°	31.2	34.6
82.5°	24.3	26.6
85°	16.2	17.3
87.5°	6.9	8.1
90°	0.0	0.0

(END OF REPORT)