

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: P1310290

Luminaire Tested: P3SQAS13R509040DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310290
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R509040DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

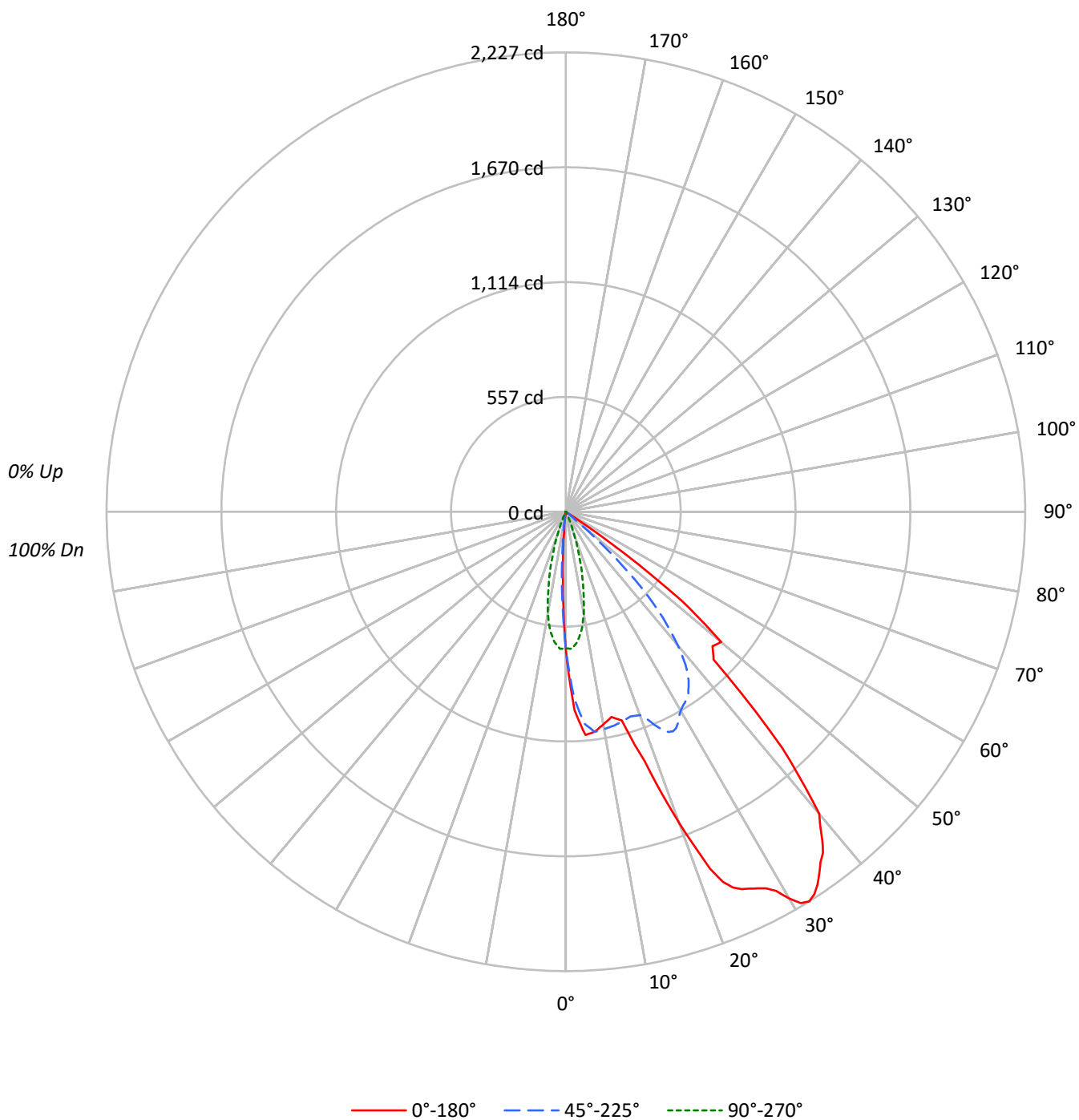
Lumens per Lamp: N/A
Luminaire Lumens: 1065.9 lumens
Efficiency: N/A
Efficacy: 73.0 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82		
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74		
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66		
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59		
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54		
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48		
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44		
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40		
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	113994	113994	113994	113994	113994
5°	187817	178240	109537	32536	16268
10°	183029	187051	87772	1644	2186
15°	186607	187730	52580	1676	553
20°	294157	192201	21663	0	0
25°	383474	223927	5169	0	0
30°	430425	221457	199	0	0
35°	450429	218066	0	0	0
40°	429700	189456	0	0	0
45°	246775	125043	0	0	0
50°	263349	14281	0	0	0
55°	75035	0	0	0	0
60°	0	0	344	0	0
65°	0	408	408	0	0
70°	0	504	504	0	0
75°	0	665	665	0	0
80°	0	992	2083	992	0
85°	0	1976	4150	1976	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 45°

Luminance: 272494 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.6	5.2
10°-20°	140.0	13.1
20°-30°	269.0	25.2
30°-40°	313.1	29.4
40°-50°	224.1	21.0
50°-60°	62.4	5.9
60°-70°	0.4	0.0
70°-80°	0.6	0.1
80°-90°	0.7	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°	464.6	43.6
0°-40°	777.7	73.0
0°-60°	1064.2	99.8
0°-90°	1065.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1065.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	662	662	662	662	662	
5°	1086	1031	634	188	94	100
15°	1047	1053	295	9	3	338
25°	2018	1178	27	0	0	918
35°	2142	1037	0	0	0	1326
45°	1013	513	0	0	0	953
55°	250	0	0	0	0	315
65°	0	1	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	2	1	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	661.9	661.9	661.9	661.9	661.9	661.9	661.9	661.9	661.9	661.9	661.9
2.5°	961.9	967.2	968.2	955.7	957.8	940.0	941.0	928.5	898.2	792.6	665.0
5°	1086.4	1083.2	1086.4	1082.2	1086.4	1075.9	1069.6	1064.4	1031.0	881.4	633.6
7.5°	1074.9	1070.7	1077.0	1079.1	1086.4	1083.2	1084.3	1087.4	1075.9	929.5	580.3
10°	1046.6	1045.6	1048.7	1048.7	1057.1	1058.1	1062.3	1068.6	1069.6	946.3	501.9
12.5°	1019.5	1016.3	1016.3	1015.3	1019.5	1018.4	1028.9	1043.5	1063.4	935.8	394.2
15°	1046.6	1043.5	1039.3	1027.8	1019.5	1010.0	1011.1	1020.5	1052.9	908.6	294.9
17.5°	1266.2	1249.5	1228.6	1192.0	1153.3	1086.4	1046.6	1021.5	1040.4	866.8	196.6
20°	1605.0	1597.7	1564.2	1504.6	1441.9	1343.6	1221.3	1123.0	1048.7	814.5	118.2
21°	1733.6	1729.4	1693.9	1638.4	1567.3	1448.1	1322.7	1204.5	1065.5	792.6	93.1
22°	1865.3	1849.7	1821.4	1759.7	1685.5	1566.3	1426.2	1295.5	1098.9	764.3	71.1
23°	1950.0	1940.6	1910.3	1861.2	1790.1	1674.0	1530.7	1388.5	1131.3	733.0	53.3
24°	1993.9	1990.8	1966.8	1932.3	1871.6	1753.5	1617.5	1471.1	1158.5	696.4	38.7
25°	2018.0	2007.5	1992.9	1967.8	1921.8	1819.3	1698.0	1543.3	1178.4	659.8	27.2
26°	2032.6	2026.4	2003.4	1981.4	1937.5	1853.8	1750.3	1587.2	1183.6	614.8	18.8
27°	2049.4	2034.7	2012.8	1986.6	1937.5	1864.3	1770.2	1606.0	1177.3	568.8	12.5
28°	2067.1	2056.7	2026.4	1992.9	1934.3	1864.3	1762.9	1580.9	1158.5	524.9	7.3
29°	2101.6	2088.0	2050.4	2001.3	1935.4	1862.2	1734.6	1528.7	1133.4	475.7	4.2
30°	2164.4	2136.1	2090.1	2021.1	1942.7	1858.0	1687.6	1450.2	1113.6	420.3	1.0
31°	2213.5	2197.8	2144.5	2057.7	1963.6	1846.5	1632.2	1372.9	1100.0	372.2	0.0
32°	2227.1	2215.6	2176.9	2095.4	1999.2	1837.1	1569.4	1297.6	1089.5	318.9	0.0
33°	2211.4	2204.1	2163.3	2089.1	2008.6	1824.6	1497.3	1223.3	1078.0	270.8	0.0
34°	2182.2	2172.7	2137.2	2061.9	1984.5	1770.2	1428.3	1166.9	1061.3	225.8	0.0
35°	2142.4	2135.1	2098.5	2024.3	1940.6	1685.5	1359.3	1129.2	1037.2	180.9	0.0
36°	2099.6	2097.5	2050.4	1977.2	1884.2	1603.9	1275.6	1101.0	1013.2	143.2	0.0
37°	2071.3	2060.9	2009.6	1937.5	1817.2	1508.8	1208.7	1091.6	979.7	110.8	0.0
38°	2020.1	2022.2	1963.6	1897.8	1749.3	1426.2	1154.3	1084.3	942.1	80.5	0.0
39°	1959.4	1960.5	1899.8	1843.4	1668.8	1339.4	1109.4	1077.0	895.0	51.2	0.0
40°	1911.3	1910.3	1841.3	1780.6	1582.0	1257.8	1085.3	1066.5	842.7	29.3	0.0
42.5°	1553.8	1560.0	1568.4	1593.5	1378.1	1114.6	1062.3	1008.0	694.3	0.0	0.0
45°	1013.2	1037.2	1043.5	1118.8	1117.7	1056.0	1008.0	903.4	513.4	0.0	0.0
47.5°	964.0	971.4	984.9	1014.2	1029.9	999.6	901.3	754.9	280.2	0.0	0.0
50°	982.9	981.8	984.9	984.9	956.7	878.3	739.2	557.3	53.3	0.0	0.0
52.5°	705.8	731.9	760.1	772.7	736.1	653.5	539.5	327.3	0.0	0.0	0.0
55°	249.9	241.5	235.3	257.2	252.0	283.4	234.2	76.3	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.0	4.2	9.4	12.5	0.0	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	1.0	1.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	2.1
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	2.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	2.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	2.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	2.1
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):

	112.5°	135°	157.5°	180°
0°	661.9	661.9	661.9	661.9
2.5°	530.1	406.7	329.4	334.6
5°	372.2	188.2	116.1	94.1
7.5°	222.7	57.5	11.5	9.4
10°	104.6	9.4	10.5	12.5
12.5°	31.4	8.4	11.5	10.5
15°	8.4	9.4	5.2	3.1
17.5°	3.1	4.2	0.0	0.0
20°	2.1	0.0	0.0	0.0
21°	2.1	0.0	0.0	0.0
22°	1.0	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	1.0	0.0	0.0	0.0
67.5°	1.0	0.0	0.0	0.0
70°	1.0	0.0	0.0	0.0
72.5°	1.0	0.0	0.0	0.0
75°	1.0	0.0	0.0	0.0
77.5°	1.0	0.0	0.0	0.0
80°	1.0	1.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	1.0	1.0	0.0	0.0
85°	1.0	1.0	0.0	0.0
87.5°	1.0	1.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)