

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: P1307096

Luminaire Tested: P3SQAS17R509027DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307096
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R509027DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

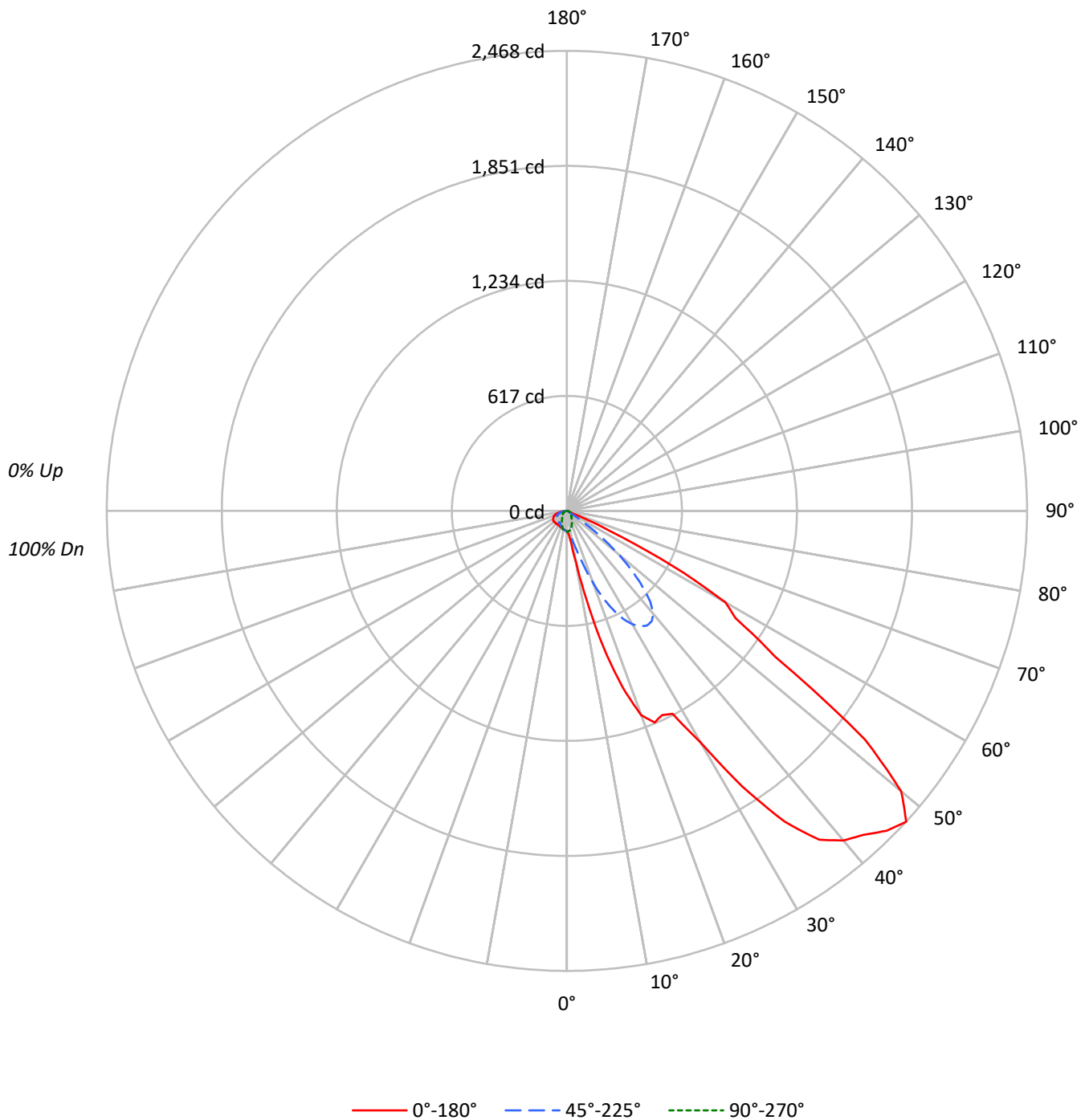
Lumens per Lamp: N/A
Luminaire Lumens: 1392.0 lumens
Efficiency: N/A
Efficacy: 65.7 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73		
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61		
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	51		
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43		
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37		
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31		
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27		
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	23		
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	19048	19048	19048	19048	19048
5°	22665	21195	18913	18083	17876
10°	48774	26284	18083	17453	17663
15°	135061	43095	16296	16724	17366
20°	213534	75583	14094	16092	16971
25°	229609	111033	12105	15544	17140
30°	285014	139405	10520	15293	17699
35°	427701	157747	9104	15411	18712
40°	518729	162186	8116	15940	19739
45°	590949	139097	7916	16976	21677
50°	627199	96000	8065	18353	24167
55°	409736	38614	7957	19847	26723
60°	337935	6613	7853	21528	29416
65°	101919	3423	7335	23025	32357
70°	4230	3626	7251	23616	35097
75°	3993	3993	7187	24022	38395
80°	3570	3570	7141	23803	39374
85°	2371	4742	9485	23712	37940

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 629249 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.5	0.8
10°-20°	65.9	4.7
20°-30°	169.5	12.2
30°-40°	304.4	21.9
40°-50°	406.6	29.2
50°-60°	309.7	22.2
60°-70°	94.0	6.8
70°-80°	22.4	1.6
80°-90°	8.1	0.6
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°	246.9	17.7
0°-40°	551.2	39.6
0°-60°	1267.5	91.1
0°-90°	1392.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1392.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	111	111	111	111	111	
5°	131	123	109	105	103	17
15°	758	242	91	94	97	223
25°	1208	584	64	82	90	577
35°	2034	750	43	73	89	1249
45°	2426	571	32	70	89	1855
55°	1365	129	26	66	89	1358
65°	250	8	18	56	79	346
75°	6	6	11	36	58	6
85°	1	2	5	12	19	2
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°	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6	110.6
2.5°	117.8	117.8	117.8	117.8	117.8	117.8	116.6	116.6	116.6	114.2	111.8
5°	131.1	132.3	131.1	131.1	128.6	128.6	126.2	126.2	122.6	115.4	109.4
7.5°	171.9	170.7	169.5	164.7	161.1	152.7	149.1	143.1	132.3	115.4	107.0
10°	278.9	271.7	266.9	256.1	233.3	218.8	199.6	180.3	150.3	115.4	103.4
12.5°	484.5	483.3	468.9	432.8	400.4	355.9	309.0	262.1	185.2	113.0	98.6
15°	757.5	746.6	726.2	684.1	626.4	556.7	472.5	389.6	241.7	109.4	91.4
17.5°	990.7	977.5	961.9	919.8	853.7	765.9	664.9	550.7	318.6	104.6	84.2
20°	1165.1	1156.6	1143.4	1109.7	1047.2	967.9	854.9	716.6	412.4	98.6	76.9
22.5°	1228.8	1227.6	1230.0	1218.0	1186.7	1124.2	1016.0	871.7	505.0	91.4	69.7
25°	1208.3	1207.1	1222.8	1238.4	1245.6	1220.4	1137.4	996.7	584.3	85.4	63.7
27.5°	1227.6	1224.0	1216.8	1219.2	1239.6	1254.0	1215.6	1092.9	652.9	76.9	57.7
30°	1433.2	1412.7	1380.3	1325.0	1284.1	1280.5	1263.6	1168.7	701.0	68.5	52.9
32.5°	1754.2	1728.9	1670.0	1567.8	1470.4	1395.9	1343.0	1232.4	734.6	60.1	46.9
35°	2034.3	2016.3	1947.8	1846.8	1707.3	1567.8	1471.6	1326.2	750.3	52.9	43.3
37.5°	2224.3	2217.1	2149.8	2041.5	1899.7	1735.0	1607.5	1422.4	746.6	44.5	39.7
40°	2307.3	2285.6	2229.1	2137.7	1994.7	1846.8	1712.1	1483.7	721.4	36.1	36.1
42.5°	2356.6	2332.5	2271.2	2184.6	2044.0	1886.4	1724.1	1457.2	661.3	28.9	34.9
45°	2426.3	2401.0	2320.5	2227.9	2086.0	1903.3	1677.2	1363.4	571.1	21.6	32.5
47.5°	2468.4	2451.5	2391.4	2298.8	2126.9	1879.2	1569.0	1275.7	471.3	16.8	31.3
50°	2340.9	2324.1	2279.6	2215.9	2100.5	1798.7	1474.1	1133.8	358.3	13.2	30.1
52.5°	2015.1	2029.5	2037.9	2056.0	1971.8	1618.3	1332.2	1020.8	241.7	10.8	27.7
55°	1364.6	1386.3	1410.3	1482.5	1581.1	1440.4	1183.1	882.5	128.6	10.8	26.5
57.5°	1072.5	1065.3	1058.0	1053.2	1130.2	1187.9	1040.0	705.8	55.3	10.8	24.0
60°	981.1	959.5	945.0	948.6	987.1	964.3	823.6	460.5	19.2	10.8	22.8
62.5°	643.2	660.1	692.5	747.8	721.4	619.2	478.5	182.8	9.6	10.8	20.4
65°	250.1	241.7	250.1	265.7	229.6	170.7	107.0	32.5	8.4	9.6	18.0
67.5°	33.7	30.1	22.8	14.4	13.2	12.0	9.6	8.4	8.4	9.6	16.8
70°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	7.2	7.2	8.4	14.4
72.5°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	8.4	12.0
75°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	6.0	7.2	10.8
77.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	6.0	8.4
80°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.8	7.2
82.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.6	3.6	4.8	6.0
85°	1.2	2.4	1.2	2.4	2.4	2.4	2.4	2.4	2.4	3.6	4.8
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	3.6	3.6
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):

	112.5°	135°	157.5°	180°
0°	110.6	110.6	110.6	110.6
2.5°	109.4	107.0	107.0	107.0
5°	107.0	104.6	104.6	103.4
7.5°	103.4	102.2	102.2	102.2
10°	101.0	99.8	101.0	101.0
12.5°	96.2	97.4	98.6	98.6
15°	91.4	93.8	96.2	97.4
17.5°	86.6	91.4	93.8	95.0
20°	81.8	87.8	91.4	92.6
22.5°	78.2	84.2	89.0	91.4
25°	73.3	81.8	87.8	90.2
27.5°	68.5	78.2	85.4	89.0
30°	64.9	76.9	85.4	89.0
32.5°	61.3	74.5	84.2	87.8
35°	58.9	73.3	84.2	89.0
37.5°	56.5	72.1	84.2	87.8
40°	55.3	70.9	84.2	87.8
42.5°	54.1	70.9	84.2	89.0
45°	51.7	69.7	84.2	89.0
47.5°	50.5	69.7	84.2	89.0
50°	49.3	68.5	84.2	90.2
52.5°	48.1	67.3	84.2	90.2
55°	45.7	66.1	83.0	89.0
57.5°	44.5	64.9	81.8	86.6
60°	42.1	62.5	79.4	85.4
62.5°	39.7	60.1	76.9	81.8
65°	36.1	56.5	73.3	79.4
67.5°	32.5	51.7	69.7	75.7
70°	28.9	46.9	64.9	69.7
72.5°	25.2	42.1	60.1	63.7
75°	21.6	36.1	52.9	57.7
77.5°	18.0	31.3	44.5	48.1
80°	13.2	24.0	36.1	39.7
82.5°	10.8	18.0	26.5	28.9
85°	7.2	12.0	16.8	19.2
87.5°	3.6	6.0	8.4	9.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)