

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: P1308239

Luminaire Tested: P3SQAS17R659030DE010 E3SQCA451MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308239
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-82)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS17R659030DE010 E3SQCA451MB
Description: 3in Adjustable LED luminaire with, R65 optic, 3000K CCT AND, 90CRI , E3SQCA451MB TRIM
Light Source: -
Ballast/Driver: -

Summary

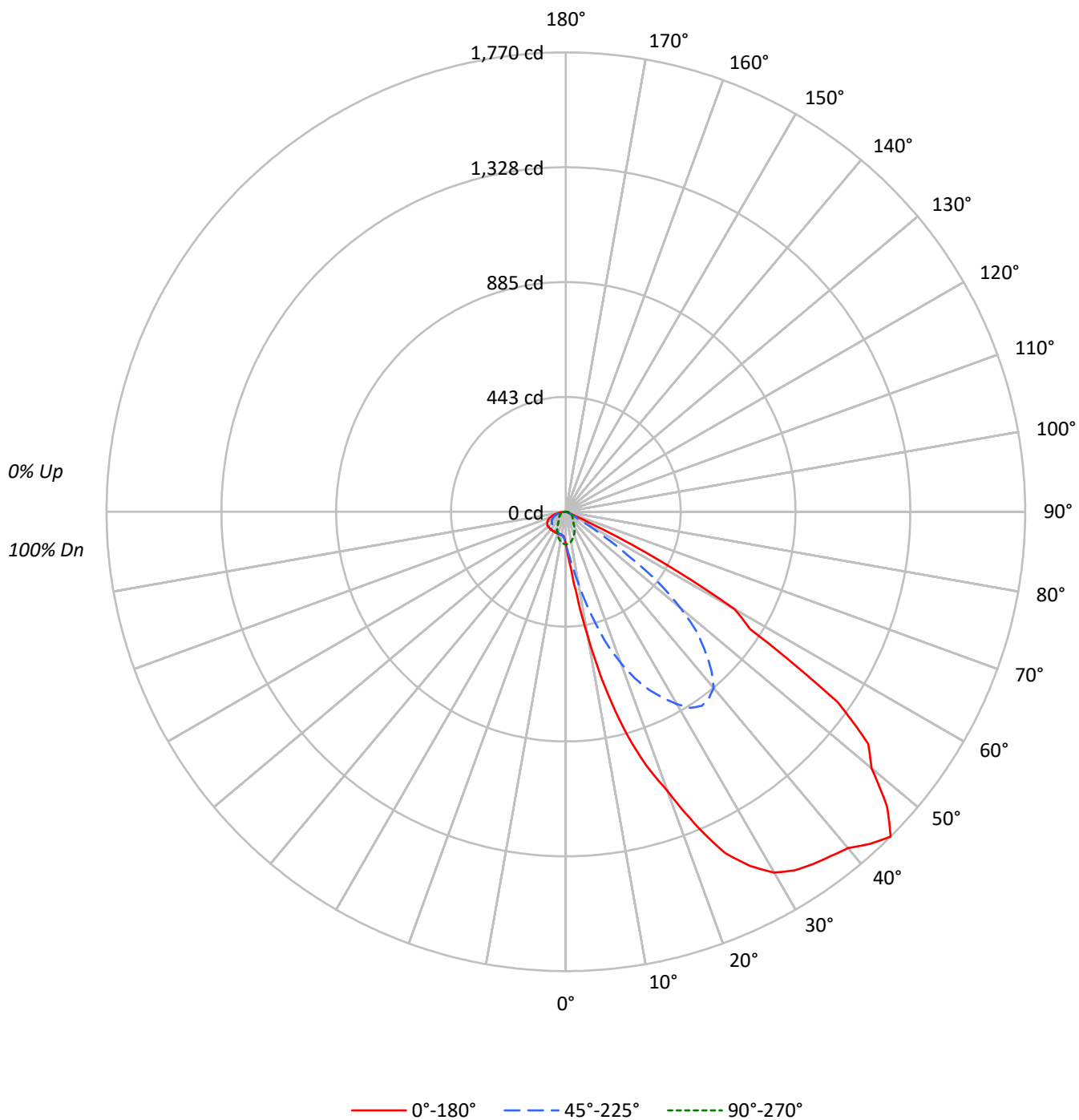
Lumens per Lamp: N/A
Luminaire Lumens: 1284.0 lumens
Efficiency: N/A
Efficacy: 60.6 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1308239

CATALOG NUMBER: P3SQAS17R659030DE010 E3SQCA451MB

Luminous Intensity Polar Plot



TEST NUMBER: P1308239

CATALOG NUMBER: P3SQAS17R659030DE010 E3SQCA451MB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
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	108	104	100	97	100	97	94	96	94	91	92	90	89	87		
2	101	93	87	82	98	92	86	81	88	83	79	85	81	77	82	79	76	74		
3	92	82	75	69	90	81	74	68	78	72	67	75	70	66	73	68	65	62		
4	84	73	64	58	82	71	63	57	69	62	57	67	61	56	64	59	55	53		
5	77	64	56	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45		
6	71	57	49	42	69	57	48	42	55	47	42	53	46	41	51	46	41	39		
7	65	52	43	37	63	51	42	36	49	42	36	48	41	36	46	40	36	34		
8	60	46	38	32	58	46	38	32	44	37	32	43	36	31	42	36	31	29		
9	56	42	34	28	54	41	33	28	40	33	28	39	33	28	38	32	28	26		
10	52	38	30	25	50	38	30	25	37	30	25	36	29	25	35	29	24	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	21511	21511	21511	21511	21511
5°	37619	30721	21143	17132	16476
10°	85096	49526	20269	15757	15984
15°	154709	79646	18828	15833	16296
20°	209759	113722	16990	15817	16513
25°	275710	143603	14917	15411	16874
30°	319259	170249	12807	15352	17659
35°	348628	191912	10828	15705	18670
40°	380329	199124	9555	16502	19964
45°	431149	184691	9085	17561	21628
50°	411863	154194	8976	18621	23792
55°	383854	86595	9278	20087	26273
60°	258541	18634	9300	21287	28382
65°	39855	4727	8925	22046	30971
70°	4532	4532	8409	22710	33083
75°	4259	4259	7719	22291	33404
80°	3868	5058	7637	20431	33225
85°	2569	5138	7707	20353	30431

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 431149 cd/sqm

TEST NUMBER: P1308239

CATALOG NUMBER: P3SQAS17R659030DE010 E3SQCA451MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.1	1.2
10°-20°	81.6	6.4
20°-30°	191.8	14.9
30°-40°	289.8	22.6
40°-50°	333.1	25.9
50°-60°	264.5	20.6
60°-70°	79.2	6.2
70°-80°	21.5	1.7
80°-90°	7.2	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°	288.6	22.5
0°-40°	578.4	45.0
0°-60°	1176.0	91.6
0°-90°	1284.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1284.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	125	125	125	125	125	
5°	218	178	122	99	95	29
15°	868	447	106	89	91	250
25°	1451	756	78	81	89	662
35°	1658	913	52	75	89	1041
45°	1770	758	37	72	89	1315
55°	1278	288	31	67	88	1053
65°	98	12	22	54	76	219
75°	6	6	12	34	50	7
85°	1	3	4	10	15	2
90°	0	0	0	0	0	

TEST NUMBER: P1308239

CATALOG NUMBER: P3SQAS17R659030DE010 E3SQCA451MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	124.9	124.9	124.9	124.9	124.9	124.9	124.9	124.9	124.9	124.9	124.9
2.5°	158.4	159.6	158.4	158.4	157.1	155.8	146.8	136.5	124.9	115.9	109.4
5°	217.6	218.9	215.0	215.0	212.4	208.6	177.7	148.1	122.3	108.1	99.1
7.5°	321.9	327.0	320.6	312.8	298.7	296.1	221.4	159.6	119.7	100.4	92.7
10°	486.6	482.8	476.3	460.9	436.4	424.8	283.2	171.2	115.9	95.3	90.1
12.5°	686.2	675.9	668.2	639.8	606.4	587.1	360.5	181.5	110.7	90.1	88.8
15°	867.7	860.0	842.0	814.9	773.7	758.3	446.7	188.0	105.6	86.3	88.8
17.5°	1020.9	1013.2	1002.9	975.9	933.4	910.2	543.3	191.8	99.1	83.7	87.5
20°	1144.5	1139.4	1125.2	1103.3	1060.8	1038.9	620.5	191.8	92.7	81.1	86.3
22.5°	1304.2	1292.6	1274.5	1242.4	1189.6	1156.1	693.9	188.0	86.3	78.5	83.7
25°	1450.9	1443.2	1420.0	1381.4	1324.8	1291.3	755.7	180.2	78.5	74.7	81.1
27.5°	1538.5	1533.3	1511.4	1471.5	1408.4	1382.7	807.2	168.7	70.8	70.8	79.8
30°	1605.4	1595.1	1573.2	1534.6	1470.2	1439.3	856.1	154.5	64.4	66.9	77.2
32.5°	1638.9	1635.0	1615.7	1582.2	1519.2	1484.4	896.0	136.5	56.6	64.4	76.0
35°	1658.2	1654.3	1638.9	1606.7	1547.5	1514.0	912.8	119.7	51.5	61.8	74.7
37.5°	1673.6	1669.8	1650.5	1618.3	1559.1	1524.3	905.1	101.7	46.3	59.2	73.4
40°	1691.7	1677.5	1647.9	1615.7	1561.6	1528.2	885.7	85.0	42.5	57.9	73.4
42.5°	1735.4	1686.5	1640.2	1610.6	1559.1	1520.4	830.4	66.9	38.6	55.4	72.1
45°	1770.2	1683.9	1624.7	1601.6	1548.8	1505.0	758.3	48.9	37.3	54.1	72.1
47.5°	1678.8	1626.0	1599.0	1586.1	1529.5	1481.8	683.6	33.5	36.0	52.8	70.8
50°	1537.2	1530.7	1520.4	1521.7	1470.2	1431.6	575.5	23.2	33.5	51.5	69.5
52.5°	1468.9	1461.2	1443.2	1430.3	1378.8	1345.4	455.7	18.0	32.2	50.2	68.2
55°	1278.4	1283.6	1264.2	1272.0	1256.5	1239.8	288.4	16.7	30.9	47.6	66.9
57.5°	842.0	867.7	912.8	966.9	1015.8	1049.2	155.8	16.7	28.3	46.3	64.4
60°	750.6	744.1	742.8	753.1	775.0	793.1	54.1	15.4	27.0	42.5	61.8
62.5°	410.7	408.1	446.7	512.4	551.0	554.9	15.4	15.4	24.5	39.9	57.9
65°	97.8	101.7	113.3	141.6	167.4	184.1	11.6	14.2	21.9	37.3	54.1
67.5°	15.4	16.7	16.7	20.6	23.2	23.2	10.3	12.9	19.3	33.5	50.2
70°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	11.6	16.7	29.6	45.1
72.5°	7.7	7.7	7.7	7.7	7.7	7.7	9.0	10.3	14.2	25.7	38.6
75°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	9.0	11.6	20.6	33.5
77.5°	5.1	5.1	5.1	5.1	5.1	5.1	6.4	7.7	10.3	16.7	27.0
80°	3.9	3.9	3.9	3.9	3.9	3.9	5.1	6.4	7.7	12.9	20.6
82.5°	2.6	2.6	2.6	2.6	2.6	2.6	3.9	5.1	6.4	10.3	15.4
85°	1.3	1.3	1.3	1.3	2.6	2.6	2.6	3.9	3.9	6.4	10.3
87.5°	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6	2.6	3.9	5.1
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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CATALOG NUMBER: P3SQAS17R659030DE010 E3SQCA451MB

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	124.9	124.9
2.5°	105.6	104.3
5°	95.3	95.3
7.5°	91.4	91.4
10°	90.1	91.4
12.5°	90.1	91.4
15°	90.1	91.4
17.5°	90.1	91.4
20°	88.8	90.1
22.5°	87.5	88.8
25°	86.3	88.8
27.5°	85.0	88.8
30°	85.0	88.8
32.5°	85.0	88.8
35°	83.7	88.8
37.5°	83.7	88.8
40°	83.7	88.8
42.5°	83.7	88.8
45°	83.7	88.8
47.5°	83.7	88.8
50°	83.7	88.8
52.5°	82.4	88.8
55°	82.4	87.5
57.5°	79.8	85.0
60°	77.2	82.4
62.5°	74.7	79.8
65°	70.8	76.0
67.5°	66.9	70.8
70°	60.5	65.7
72.5°	54.1	57.9
75°	46.3	50.2
77.5°	38.6	42.5
80°	30.9	33.5
82.5°	21.9	24.5
85°	14.2	15.4
87.5°	6.4	6.4
90°	0.0	0.0

(END OF REPORT)