

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: P1317178

Luminaire Tested: P3SQAS13R559830DE010 E3SQCA451MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317178
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: P3SQAS13R559830DE010 E3SQCA451MW
Description: 3in Adjustable LED luminaire with, R55 optic, 3000K CCT AND, 98CRI , E3SQCA451MW TRIM
Light Source: -
Ballast/Driver: -

Summary

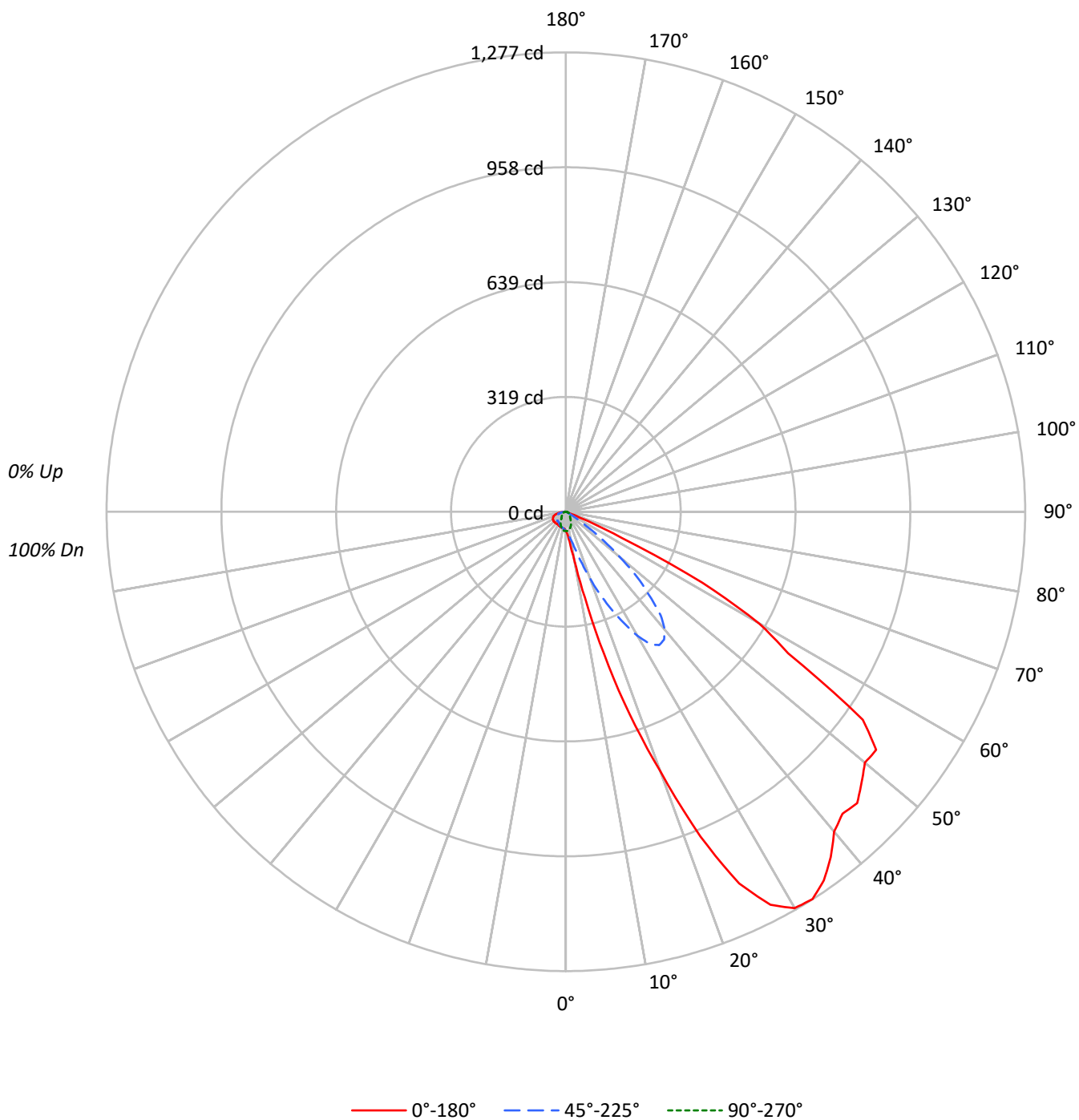
Lumens per Lamp: N/A
Luminaire Lumens: 821.0 lumens
Efficiency: N/A
Efficacy: 56.6 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.9 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.5
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: P1317178

CATALOG NUMBER: P3SQAS13R559830DE010 E3SQCA451MW

Luminous Intensity Polar Plot



TEST NUMBER: P1317178

CATALOG NUMBER: P3SQAS13R559830DE010 E3SQCA451MW

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	0
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°	9128	9128	9128	9128	9128
5°	11669	10667	9163	8523	8281
10°	23731	13571	8884	8114	8114
15°	72817	20825	8273	7881	8148
20°	140792	36435	7441	7716	8101
25°	216687	56647	6480	7449	8133
30°	253037	79188	5330	7358	8372
35°	262932	95178	4415	7317	8683
40°	260927	96066	4069	7666	9465
45°	278973	79498	3897	8305	10254
50°	290759	52488	3885	8949	11467
55°	302753	22880	3933	9789	12641
60°	213866	5236	3996	10747	14226
65°	69766	1793	3831	11533	15975
70°	2216	1813	4028	12438	18279
75°	1930	1930	3394	13042	20295
80°	1488	2182	3570	12992	21621
85°	1383	2964	4347	12844	21539

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 307633 cd/sqm

TEST NUMBER: P1317178

CATALOG NUMBER: P3SQAS13R559830DE010 E3SQCA451MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.6	0.7
10°-20°	34.9	4.2
20°-30°	116.9	14.2
30°-40°	191.9	23.4
40°-50°	214.1	26.1
50°-60°	180.2	21.9
60°-70°	61.1	7.4
70°-80°	12.0	1.5
80°-90°	4.5	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°	157.3	19.2
0°-40°	349.2	42.5
0°-60°	743.4	90.6
0°-90°	821.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	821.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	53	53	53	53	53	
5°	68	62	53	49	48	8
15°	408	117	46	44	46	130
25°	1140	298	34	39	43	512
35°	1251	453	21	35	41	777
45°	1145	326	16	34	42	875
55°	1008	76	13	33	42	821
65°	171	4	9	28	39	232
75°	3	3	5	20	30	3
85°	1	2	2	6	11	1
90°	0	0	0	0	0	

TEST NUMBER: P1317178

CATALOG NUMBER: P3SQAS13R559830DE010 E3SQCA451MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0	53.0
2.5°	58.0	58.0	58.0	58.0	58.0	58.0	57.3	55.1	53.7	51.5	50.8
5°	67.5	67.5	67.5	66.7	66.7	65.3	61.7	56.6	53.0	50.1	49.3
7.5°	87.0	86.3	84.9	84.1	82.0	81.2	68.2	58.0	52.2	48.6	47.9
10°	135.7	134.2	132.0	124.0	116.8	111.7	77.6	58.8	50.8	47.2	46.4
12.5°	244.5	241.6	230.7	214.0	193.7	183.5	92.9	59.5	48.6	45.7	45.7
15°	408.4	404.8	384.5	361.3	324.3	303.9	116.8	58.8	46.4	43.5	44.2
17.5°	589.8	579.6	558.6	528.1	478.0	454.1	152.3	57.3	43.5	42.1	43.5
20°	768.2	765.3	730.5	689.1	627.5	595.6	198.8	55.1	40.6	39.9	42.1
22.5°	977.1	964.8	927.8	883.5	798.7	756.6	248.8	52.2	37.7	37.7	40.6
25°	1140.3	1125.8	1096.8	1045.3	964.8	919.8	298.1	48.6	34.1	35.5	39.2
27.5°	1231.7	1215.0	1193.3	1149.0	1086.7	1046.8	347.5	44.2	30.5	33.4	37.7
30°	1272.4	1268.0	1252.0	1219.4	1162.1	1126.6	398.2	39.2	26.8	31.2	37.0
32.5°	1276.7	1278.9	1272.4	1251.3	1207.8	1177.3	436.0	34.8	23.9	29.7	35.5
35°	1250.6	1258.6	1262.9	1254.2	1225.9	1201.3	452.7	29.7	21.0	28.3	34.8
37.5°	1210.0	1224.5	1239.0	1241.2	1223.8	1207.8	448.3	25.4	19.6	27.6	34.8
40°	1160.6	1173.7	1203.4	1222.3	1216.5	1204.9	427.3	21.0	18.1	26.1	34.1
42.5°	1138.2	1141.1	1173.0	1204.9	1203.4	1194.0	390.3	16.7	16.7	26.1	34.1
45°	1145.4	1132.4	1153.4	1190.4	1188.2	1175.9	326.4	13.1	16.0	25.4	34.1
47.5°	1114.9	1096.8	1132.4	1175.9	1167.9	1149.8	269.8	9.4	15.2	24.7	33.4
50°	1085.2	1082.3	1109.9	1131.6	1120.7	1110.6	195.9	7.3	14.5	23.9	33.4
52.5°	1087.4	1082.3	1085.2	1084.5	1062.7	1051.8	134.2	5.8	13.8	23.2	33.4
55°	1008.3	992.4	977.1	981.5	982.9	975.7	76.2	5.1	13.1	23.2	32.6
57.5°	732.7	728.3	745.0	792.1	829.1	833.5	37.0	5.1	12.3	22.5	31.9
60°	620.9	618.0	618.8	632.6	652.1	639.8	15.2	5.1	11.6	21.8	31.2
62.5°	428.0	456.3	467.9	499.8	486.7	469.3	5.8	5.8	10.9	20.3	30.5
65°	171.2	170.5	186.4	201.7	197.3	184.3	4.4	5.1	9.4	18.9	28.3
67.5°	39.9	36.3	31.2	26.8	22.5	18.1	4.4	5.1	8.7	17.4	26.8
70°	4.4	4.4	4.4	4.4	4.4	3.6	3.6	5.1	8.0	16.0	24.7
72.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.4	6.5	13.8	22.5
75°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.6	5.1	11.6	19.6
77.5°	2.2	2.2	2.2	2.9	2.2	2.9	2.9	3.6	4.4	9.4	16.7
80°	1.5	1.5	2.2	2.2	2.2	2.2	2.2	2.9	3.6	8.0	13.1
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	2.2	2.2	2.9	5.8	9.4
85°	0.7	0.7	0.7	0.7	0.7	1.5	1.5	2.2	2.2	4.4	6.5
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	1.5	1.5	2.2	2.2	2.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P1317178

CATALOG NUMBER: P3SQAS13R559830DE010 E3SQCA451MW

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	53.0	53.0
2.5°	50.1	50.1
5°	48.6	47.9
7.5°	47.2	47.2
10°	46.4	46.4
12.5°	45.7	46.4
15°	45.7	45.7
17.5°	44.2	45.0
20°	43.5	44.2
22.5°	42.8	43.5
25°	42.1	42.8
27.5°	41.3	42.1
30°	40.6	42.1
32.5°	39.9	41.3
35°	39.9	41.3
37.5°	39.9	42.1
40°	39.9	42.1
42.5°	39.9	42.1
45°	39.9	42.1
47.5°	39.9	42.1
50°	39.9	42.8
52.5°	39.9	42.8
55°	39.9	42.1
57.5°	39.2	42.1
60°	39.2	41.3
62.5°	38.4	40.6
65°	37.0	39.2
67.5°	35.5	38.4
70°	33.4	36.3
72.5°	31.2	33.4
75°	28.3	30.5
77.5°	24.7	26.1
80°	19.6	21.8
82.5°	15.2	16.7
85°	10.2	10.9
87.5°	4.4	5.1
90°	0.0	0.0

(END OF REPORT)