

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: P1310319

Luminaire Tested: P3SQAS13R659040DE010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310319
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: P3SQAS13R659040DE010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R65 optic, 4000K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

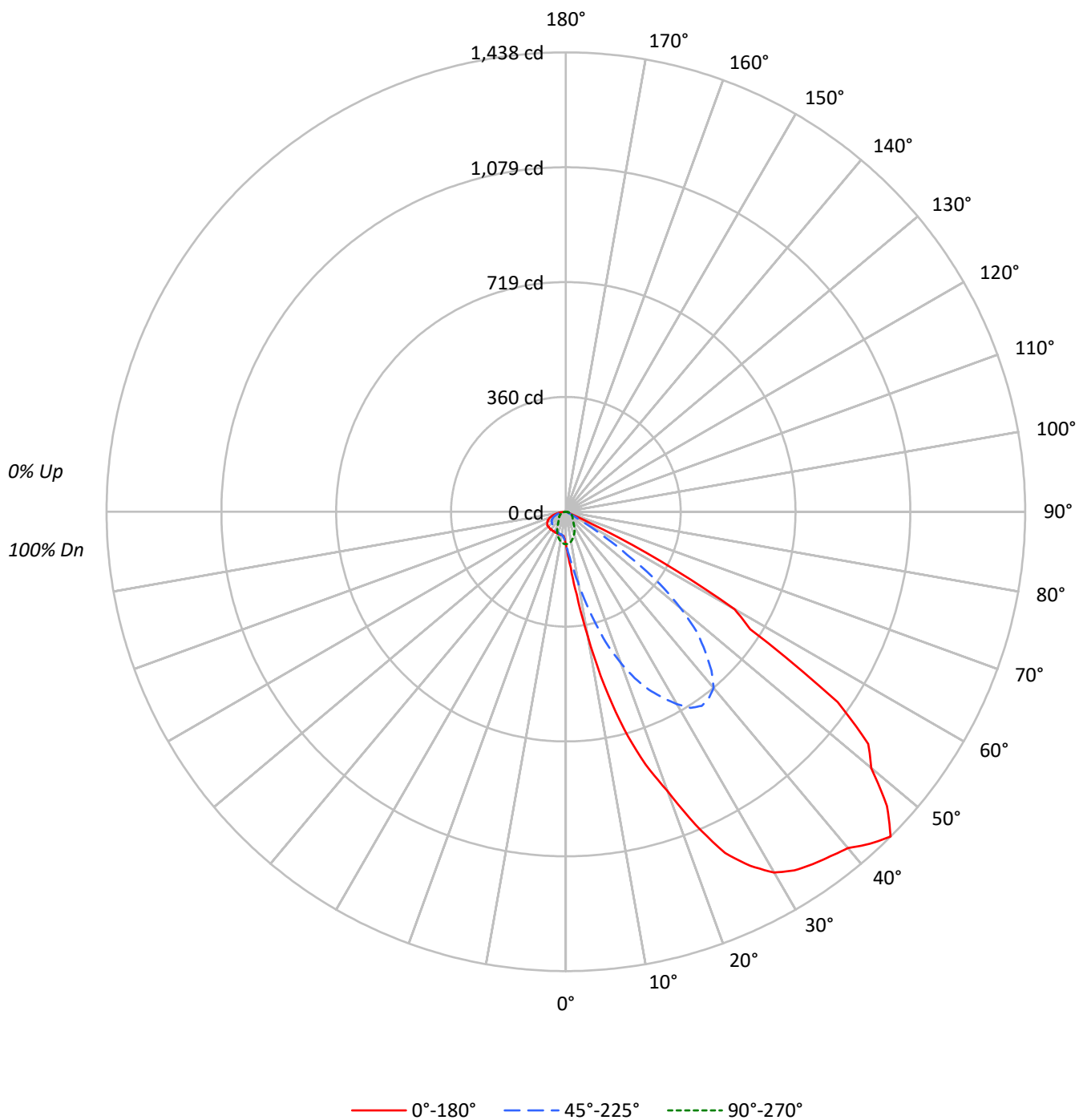
Lumens per Lamp: N/A
Luminaire Lumens: 1043.0 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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	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°	17463	17463	17463	17463	17463
5°	30548	24947	17167	13917	13381
10°	69130	40240	16456	12801	12994
15°	125682	64704	15298	12873	13248
20°	170391	92389	13801	12848	13416
25°	223965	116657	12124	12523	13720
30°	259341	138291	10401	12469	14358
35°	283200	155897	8788	12762	15180
40°	308949	161758	7756	13399	16232
45°	350214	150033	7380	14273	17585
50°	334565	125258	7288	15138	19345
55°	311821	70351	7537	16334	21349
60°	210008	15121	7578	17291	23043
65°	32397	3831	7254	17890	25144
70°	3676	3676	6848	18430	26839
75°	3460	3460	6255	18099	27149
80°	3075	4166	6248	16563	26977
85°	1976	4150	6126	16599	24700

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 350214 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.3	1.2
10°-20°	66.3	6.4
20°-30°	155.8	14.9
30°-40°	235.4	22.6
40°-50°	270.6	25.9
50°-60°	214.8	20.6
60°-70°	64.4	6.2
70°-80°	17.5	1.7
80°-90°	5.9	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°	234.4	22.5
0°-40°	469.9	45.0
0°-60°	955.3	91.6
0°-90°	1043.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1043.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	101	101	101	101	101	
5°	177	144	99	80	77	24
15°	705	363	86	72	74	203
25°	1179	614	64	66	72	538
35°	1347	742	42	61	72	845
45°	1438	616	30	59	72	1068
55°	1038	234	25	54	71	856
65°	80	9	18	44	62	178
75°	5	5	9	27	41	6
85°	1	2	3	8	12	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°	101.4	101.4	101.4	101.4	101.4	101.4	101.4	101.4	101.4	101.4	101.4
2.5°	128.6	129.7	128.6	128.6	127.6	126.5	119.2	110.9	101.4	94.1	88.9
5°	176.7	177.8	174.6	174.6	172.6	169.4	144.3	120.3	99.3	87.8	80.5
7.5°	261.4	265.6	260.4	254.1	242.6	240.5	179.9	129.7	97.3	81.6	75.3
10°	395.3	392.2	386.9	374.4	354.5	345.1	230.1	139.1	94.1	77.4	73.2
12.5°	557.4	549.0	542.8	519.8	492.6	476.9	292.8	147.5	89.9	73.2	72.2
15°	704.9	698.6	683.9	662.0	628.5	616.0	362.9	152.7	85.8	70.1	72.2
17.5°	829.3	823.0	814.7	792.7	758.2	739.4	441.3	155.8	80.5	68.0	71.1
20°	929.7	925.5	914.0	896.2	861.7	843.9	504.1	155.8	75.3	65.9	70.1
22.5°	1059.4	1050.0	1035.3	1009.2	966.3	939.1	563.7	152.7	70.1	63.8	68.0
25°	1178.6	1172.3	1153.5	1122.1	1076.1	1048.9	613.9	146.4	63.8	60.7	65.9
27.5°	1249.7	1245.5	1227.7	1195.3	1144.1	1123.2	655.7	137.0	57.5	57.5	64.8
30°	1304.1	1295.7	1277.9	1246.6	1194.3	1169.2	695.4	125.5	52.3	54.4	62.7
32.5°	1331.3	1328.1	1312.5	1285.3	1234.0	1205.8	727.9	110.9	46.0	52.3	61.7
35°	1347.0	1343.8	1331.3	1305.1	1257.0	1229.8	741.5	97.3	41.8	50.2	60.7
37.5°	1359.5	1356.4	1340.7	1314.5	1266.4	1238.2	735.2	82.6	37.6	48.1	59.6
40°	1374.2	1362.7	1338.6	1312.5	1268.5	1241.3	719.5	69.0	34.5	47.1	59.6
42.5°	1409.7	1370.0	1332.3	1308.3	1266.4	1235.1	674.5	54.4	31.4	45.0	58.6
45°	1437.9	1367.9	1319.8	1300.9	1258.1	1222.5	616.0	39.7	30.3	43.9	58.6
47.5°	1363.7	1320.8	1298.9	1288.4	1242.4	1203.7	555.3	27.2	29.3	42.9	57.5
50°	1248.7	1243.4	1235.1	1236.1	1194.3	1162.9	467.5	18.8	27.2	41.8	56.5
52.5°	1193.2	1187.0	1172.3	1161.9	1120.0	1092.8	370.2	14.6	26.1	40.8	55.4
55°	1038.5	1042.6	1027.0	1033.2	1020.7	1007.1	234.3	13.6	25.1	38.7	54.4
57.5°	683.9	704.9	741.5	785.4	825.1	852.3	126.5	13.6	23.0	37.6	52.3
60°	609.7	604.5	603.4	611.8	629.6	644.2	43.9	12.5	22.0	34.5	50.2
62.5°	333.6	331.5	362.9	416.2	447.6	450.7	12.5	12.5	19.9	32.4	47.1
65°	79.5	82.6	92.0	115.0	136.0	149.5	9.4	11.5	17.8	30.3	43.9
67.5°	12.5	13.6	13.6	16.7	18.8	18.8	8.4	10.5	15.7	27.2	40.8
70°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	9.4	13.6	24.1	36.6
72.5°	6.3	6.3	6.3	6.3	6.3	6.3	7.3	8.4	11.5	20.9	31.4
75°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	7.3	9.4	16.7	27.2
77.5°	4.2	4.2	4.2	4.2	4.2	4.2	5.2	6.3	8.4	13.6	22.0
80°	3.1	3.1	3.1	3.1	3.1	3.1	4.2	5.2	6.3	10.5	16.7
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	3.1	4.2	5.2	8.4	12.5
85°	1.0	1.0	1.0	1.0	2.1	2.1	2.1	3.1	3.1	5.2	8.4
87.5°	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1	2.1	3.1	4.2
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°	101.4	101.4
2.5°	85.8	84.7
5°	77.4	77.4
7.5°	74.3	74.3
10°	73.2	74.3
12.5°	73.2	74.3
15°	73.2	74.3
17.5°	73.2	74.3
20°	72.2	73.2
22.5°	71.1	72.2
25°	70.1	72.2
27.5°	69.0	72.2
30°	69.0	72.2
32.5°	69.0	72.2
35°	68.0	72.2
37.5°	68.0	72.2
40°	68.0	72.2
42.5°	68.0	72.2
45°	68.0	72.2
47.5°	68.0	72.2
50°	68.0	72.2
52.5°	66.9	72.2
55°	66.9	71.1
57.5°	64.8	69.0
60°	62.7	66.9
62.5°	60.7	64.8
65°	57.5	61.7
67.5°	54.4	57.5
70°	49.2	53.3
72.5°	43.9	47.1
75°	37.6	40.8
77.5°	31.4	34.5
80°	25.1	27.2
82.5°	17.8	19.9
85°	11.5	12.5
87.5°	5.2	5.2
90°	0.0	0.0

(END OF REPORT)