

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: P1307414

Luminaire Tested: P3SQAS24R659027D010 E3SQCA451MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1307414
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: P3SQAS24R659027D010 E3SQCA451MMS
Description: 3in Adjustable LED luminaire with, R65 optic, 2700K CCT AND, 90CRI , E3SQCA451MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

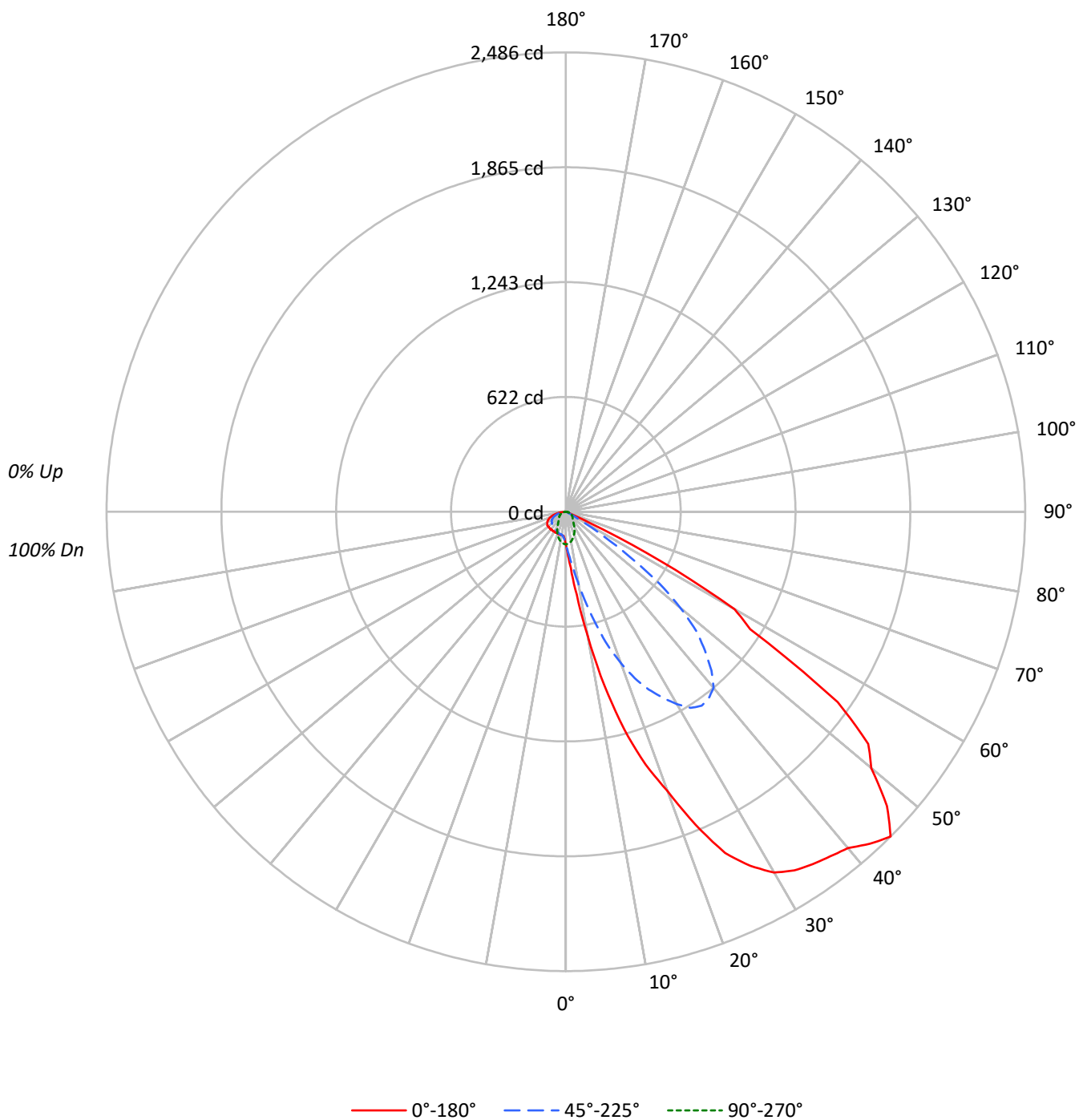
Lumens per Lamp: N/A
Luminaire Lumens: 1803.0 lumens
Efficiency: N/A
Efficacy: 62.6 lumens/watt
Spacing Criteria (0/90/45): 3.28 / 0.89 / 2.04
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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: P1307414

CATALOG NUMBER: P3SQAS24R659027D010 E3SQCA451MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1307414

CATALOG NUMBER: P3SQAS24R659027D010 E3SQCA451MMS

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°	30208	30208	30208	30208	30208
5°	52815	43134	29684	24065	23131
10°	119513	69550	28453	22122	22455
15°	217256	111846	26424	22234	22893
20°	294542	159706	23862	22195	23184
25°	387160	201656	20960	21644	23696
30°	448303	239076	17977	21577	24799
35°	489556	269471	15201	22055	26218
40°	534062	279632	13422	23157	28035
45°	605416	259342	12763	24648	30372
50°	578329	216515	12593	26150	33411
55°	539029	121576	13031	28225	36902
60°	363045	26143	13089	29898	39852
65°	55992	6642	12511	30930	43482
70°	6395	6395	11833	31874	46427
75°	5989	5989	10846	31275	46912
80°	5356	7141	10711	28663	46614
85°	3557	7114	10671	28652	42880

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 605416 cd/sqm

TEST NUMBER: P1307414

CATALOG NUMBER: P3SQAS24R659027D010 E3SQCA451MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.2	1.2
10°-20°	114.6	6.4
20°-30°	269.4	14.9
30°-40°	407.0	22.6
40°-50°	467.8	25.9
50°-60°	371.4	20.6
60°-70°	111.3	6.2
70°-80°	30.2	1.7
80°-90°	10.1	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°	405.2	22.5
0°-40°	812.2	45.0
0°-60°	1651.3	91.6
0°-90°	1803.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1803.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	175	175	175	175	175	
5°	306	250	172	139	134	41
15°	1218	627	148	125	128	351
25°	2037	1061	110	114	125	930
35°	2328	1282	72	105	125	1461
45°	2486	1065	52	101	125	1846
55°	1795	405	43	94	123	1479
65°	137	16	31	76	107	308
75°	9	9	16	47	70	10
85°	2	4	5	14	22	3
90°	0	0	0	0	0	

TEST NUMBER: P1307414

CATALOG NUMBER: P3SQAS24R659027D010 E3SQCA451MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	175.4	175.4	175.4	175.4	175.4	175.4	175.4	175.4	175.4	175.4	175.4
2.5°	222.4	224.2	222.4	222.4	220.6	218.7	206.1	191.6	175.4	162.7	153.7
5°	305.5	307.3	301.9	301.9	298.3	292.9	249.5	207.9	171.7	151.9	139.2
7.5°	452.0	459.2	450.1	439.3	419.4	415.8	310.9	224.2	168.1	141.0	130.2
10°	683.4	677.9	668.9	647.2	612.8	596.6	397.7	240.4	162.7	133.8	126.5
12.5°	963.6	949.1	938.3	898.5	851.5	824.4	506.2	254.9	155.5	126.5	124.7
15°	1218.5	1207.6	1182.3	1144.3	1086.5	1064.8	627.3	263.9	148.2	121.1	124.7
17.5°	1433.6	1422.7	1408.3	1370.3	1310.7	1278.1	762.9	269.4	139.2	117.5	122.9
20°	1607.1	1599.9	1580.0	1549.3	1489.6	1458.9	871.4	269.4	130.2	113.9	121.1
22.5°	1831.3	1815.0	1789.7	1744.5	1670.4	1623.4	974.4	263.9	121.1	110.3	117.5
25°	2037.4	2026.5	1994.0	1939.8	1860.2	1813.2	1061.2	253.1	110.3	104.9	113.9
27.5°	2160.3	2153.1	2122.4	2066.3	1977.7	1941.6	1133.5	236.8	99.4	99.4	112.1
30°	2254.3	2239.9	2209.1	2154.9	2064.5	2021.1	1202.2	216.9	90.4	94.0	108.5
32.5°	2301.3	2295.9	2268.8	2221.8	2133.2	2084.4	1258.2	191.6	79.5	90.4	106.7
35°	2328.5	2323.0	2301.3	2256.1	2173.0	2126.0	1281.7	168.1	72.3	86.8	104.9
37.5°	2350.1	2344.7	2317.6	2272.4	2189.3	2140.4	1270.9	142.8	65.1	83.2	103.0
40°	2375.5	2355.6	2314.0	2268.8	2192.9	2145.9	1243.8	119.3	59.7	81.4	103.0
42.5°	2436.9	2368.2	2303.1	2261.6	2189.3	2135.0	1166.0	94.0	54.2	77.7	101.2
45°	2485.7	2364.6	2281.4	2248.9	2174.8	2113.3	1064.8	68.7	52.4	75.9	101.2
47.5°	2357.4	2283.3	2245.3	2227.2	2147.7	2080.8	959.9	47.0	50.6	74.1	99.4
50°	2158.5	2149.5	2135.0	2136.8	2064.5	2010.3	808.1	32.5	47.0	72.3	97.6
52.5°	2062.7	2051.9	2026.5	2008.5	1936.2	1889.2	640.0	25.3	45.2	70.5	95.8
55°	1795.2	1802.4	1775.3	1786.1	1764.4	1740.9	404.9	23.5	43.4	66.9	94.0
57.5°	1182.3	1218.5	1281.7	1357.7	1426.4	1473.4	218.7	23.5	39.8	65.1	90.4
60°	1054.0	1044.9	1043.1	1057.6	1088.3	1113.6	75.9	21.7	38.0	59.7	86.8
62.5°	576.7	573.1	627.3	719.5	773.7	779.2	21.7	21.7	34.3	56.0	81.4
65°	137.4	142.8	159.1	198.9	235.0	258.5	16.3	19.9	30.7	52.4	75.9
67.5°	21.7	23.5	23.5	28.9	32.5	32.5	14.5	18.1	27.1	47.0	70.5
70°	12.7	12.7	12.7	12.7	12.7	12.7	12.7	16.3	23.5	41.6	63.3
72.5°	10.8	10.8	10.8	10.8	10.8	10.8	12.7	14.5	19.9	36.2	54.2
75°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	12.7	16.3	28.9	47.0
77.5°	7.2	7.2	7.2	7.2	7.2	7.2	9.0	10.8	14.5	23.5	38.0
80°	5.4	5.4	5.4	5.4	5.4	5.4	7.2	9.0	10.8	18.1	28.9
82.5°	3.6	3.6	3.6	3.6	3.6	3.6	5.4	7.2	9.0	14.5	21.7
85°	1.8	1.8	1.8	1.8	3.6	3.6	3.6	5.4	5.4	9.0	14.5
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	3.6	3.6	3.6	5.4	7.2
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: P1307414

CATALOG NUMBER: P3SQAS24R659027D010 E3SQCA451MMS

CANDELA DISTRIBUTION (continued):

	157.5°	180°
0°	175.4	175.4
2.5°	148.2	146.4
5°	133.8	133.8
7.5°	128.4	128.4
10°	126.5	128.4
12.5°	126.5	128.4
15°	126.5	128.4
17.5°	126.5	128.4
20°	124.7	126.5
22.5°	122.9	124.7
25°	121.1	124.7
27.5°	119.3	124.7
30°	119.3	124.7
32.5°	119.3	124.7
35°	117.5	124.7
37.5°	117.5	124.7
40°	117.5	124.7
42.5°	117.5	124.7
45°	117.5	124.7
47.5°	117.5	124.7
50°	117.5	124.7
52.5°	115.7	124.7
55°	115.7	122.9
57.5°	112.1	119.3
60°	108.5	115.7
62.5°	104.9	112.1
65°	99.4	106.7
67.5°	94.0	99.4
70°	85.0	92.2
72.5°	75.9	81.4
75°	65.1	70.5
77.5°	54.2	59.7
80°	43.4	47.0
82.5°	30.7	34.3
85°	19.9	21.7
87.5°	9.0	9.0
90°	0.0	0.0

(END OF REPORT)