

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: P1310585

Luminaire Tested: P3SQAS20R459040D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310585
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R459040D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 90CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

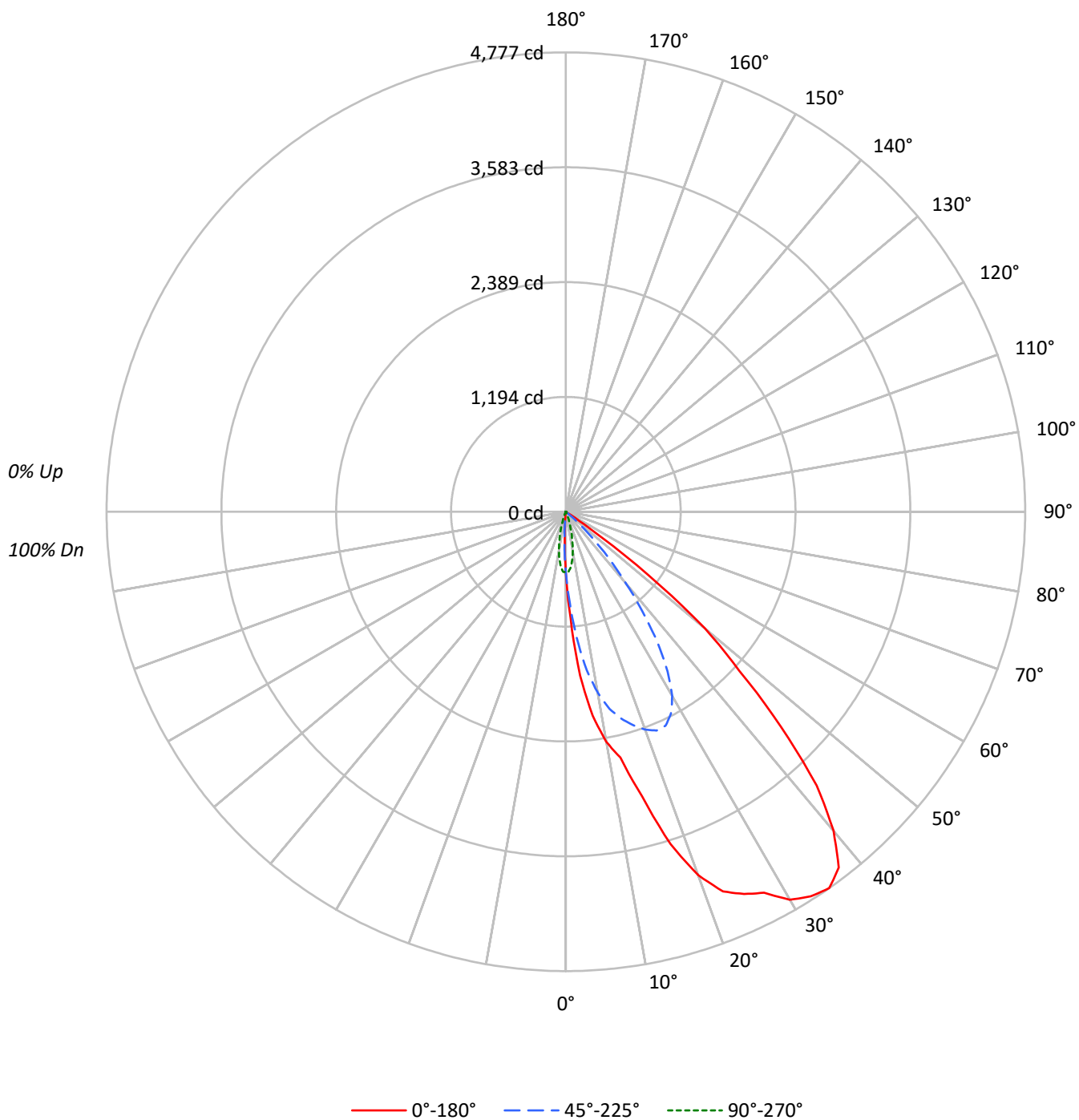
Lumens per Lamp: N/A
Luminaire Lumens: 2025.0 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1310585

CATALOG NUMBER: P3SQAS20R459040D010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1310585

CATALOG NUMBER: P3SQAS20R459040D010 E3SQCA301MMS

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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91		
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82		
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54		
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	49		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	108311	108311	108311	108311	108311
5°	295695	227511	100236	20106	7538
10°	424677	333757	72470	1906	1591
15°	546733	396998	38566	642	0
20°	736896	441731	14662	0	0
25°	833457	466648	3801	0	0
30°	926455	439911	358	0	0
35°	1004298	350815	0	0	0
40°	973406	220257	0	0	0
45°	771646	104925	0	0	0
50°	505023	13155	0	0	0
55°	86775	0	0	0	0
60°	0	0	620	0	0
65°	0	734	734	0	0
70°	0	906	1813	0	0
75°	0	1198	2396	0	0
80°	0	1785	3570	1785	0
85°	0	3557	7114	3557	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 771646 cd/sqm

TEST NUMBER: P1310585

CATALOG NUMBER: P3SQAS20R459040D010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.9	3.7
10°-20°	288.5	14.2
20°-30°	540.0	26.7
30°-40°	630.3	31.1
40°-50°	411.1	20.3
50°-60°	76.3	3.8
60°-70°	0.7	0.0
70°-80°	1.5	0.1
80°-90°	1.7	0.1
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°	903.4	44.6
0°-40°	1533.7	75.7
0°-60°	2021.1	99.8
0°-90°	2025.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2025.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	629	629	629	629	629	
5°	1710	1316	580	116	44	183
15°	3066	2227	216	4	0	914
25°	4386	2456	20	0	0	2028
35°	4777	1669	0	0	0	2930
45°	3168	431	0	0	0	2409
55°	289	0	0	0	0	502
65°	0	2	2	0	0	0
75°	0	2	4	0	0	0
85°	0	2	4	2	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1310585

CATALOG NUMBER: P3SQAS20R459040D010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	628.9	628.9	628.9	628.9	628.9	628.9	628.9	628.9	628.9	628.9	628.9
2.5°	1108.8	1117.9	1099.7	1092.4	1068.8	1074.2	1034.2	1017.9	992.4	950.6	930.6
5°	1710.4	1694.1	1679.5	1648.6	1630.4	1581.4	1526.8	1465.0	1390.5	1316.0	1230.6
7.5°	2139.4	2126.7	2121.2	2095.8	2059.4	2008.5	1937.6	1859.5	1763.1	1663.2	1534.1
10°	2428.4	2415.7	2393.9	2368.4	2339.3	2297.5	2228.5	2143.0	2037.6	1908.5	1757.7
12.5°	2617.4	2615.6	2579.3	2550.2	2513.8	2477.5	2406.6	2337.5	2233.9	2101.2	1930.4
15°	3066.4	3037.3	2990.1	2908.3	2806.5	2712.0	2597.4	2488.4	2375.7	2226.6	2035.8
17.5°	3626.2	3593.5	3513.5	3409.9	3246.3	3066.4	2870.1	2697.4	2528.4	2326.6	2101.2
20°	4020.7	4007.9	3940.7	3820.7	3646.2	3408.1	3150.0	2906.4	2668.3	2410.2	2132.1
22.5°	4273.3	4266.1	4238.8	4157.0	3978.9	3711.7	3379.0	3051.9	2764.7	2462.9	2123.0
25°	4386.0	4395.1	4398.7	4358.8	4215.2	3942.5	3548.1	3162.7	2819.2	2455.7	2054.0
27.5°	4466.0	4466.0	4480.5	4462.4	4316.9	4029.8	3613.5	3200.9	2801.0	2366.6	1908.5
30°	4658.7	4655.0	4664.1	4615.0	4413.3	4057.0	3584.4	3139.1	2697.4	2212.1	1699.5
32.5°	4742.3	4745.9	4744.1	4665.9	4431.5	4038.8	3513.5	3021.0	2506.6	1970.3	1423.2
35°	4776.8	4760.5	4693.2	4515.1	4218.8	3797.1	3313.6	2821.0	2239.4	1668.6	1123.3
37.5°	4662.3	4615.0	4466.0	4222.4	3860.7	3455.4	2982.8	2462.9	1884.9	1308.7	845.2
40°	4329.7	4267.9	4080.7	3786.2	3455.4	3090.0	2592.0	2043.1	1474.1	979.7	592.6
42.5°	3858.9	3788.0	3586.2	3330.0	3028.2	2644.7	2148.5	1599.5	1079.7	676.2	376.3
45°	3168.2	3128.2	3011.9	2795.6	2499.3	2101.2	1646.8	1166.9	747.1	430.8	192.7
47.5°	2450.2	2399.3	2315.7	2166.7	1919.5	1541.4	1152.4	792.5	479.9	212.7	40.0
50°	1884.9	1824.9	1723.1	1557.7	1299.6	1028.8	747.1	494.4	243.6	49.1	1.8
52.5°	1085.1	1097.9	1048.8	943.4	799.8	616.2	432.6	249.0	54.5	1.8	0.0
55°	289.0	312.6	305.4	329.0	289.0	243.6	179.9	47.3	3.6	0.0	0.0
57.5°	0.0	0.0	1.8	3.6	10.9	16.4	5.5	1.8	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
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: P1310585

CATALOG NUMBER: P3SQAS20R459040D010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	628.9	628.9	628.9	628.9	628.9	628.9	628.9	628.9
2.5°	885.2	847.0	799.8	625.3	470.8	338.1	263.6	243.6
5°	1148.8	1056.1	936.1	579.8	290.8	116.3	52.7	43.6
7.5°	1397.8	1261.5	1045.2	507.1	147.2	29.1	14.5	12.7
10°	1590.5	1406.9	1125.1	414.4	54.5	10.9	9.1	9.1
12.5°	1723.1	1499.6	1154.2	314.5	20.0	5.5	5.5	3.6
15°	1799.5	1535.9	1127.0	216.3	7.3	3.6	0.0	0.0
17.5°	1823.1	1521.4	1054.2	136.3	1.8	0.0	0.0	0.0
20°	1803.1	1450.5	939.7	80.0	0.0	0.0	0.0	0.0
22.5°	1737.7	1339.6	801.6	43.6	0.0	0.0	0.0	0.0
25°	1615.9	1183.3	639.8	20.0	0.0	0.0	0.0	0.0
27.5°	1417.8	981.5	481.7	7.3	0.0	0.0	0.0	0.0
30°	1192.4	765.2	341.7	1.8	0.0	0.0	0.0	0.0
32.5°	930.6	563.5	219.9	0.0	0.0	0.0	0.0	0.0
35°	699.8	394.4	130.9	0.0	0.0	0.0	0.0	0.0
37.5°	487.1	249.0	69.1	0.0	0.0	0.0	0.0	0.0
40°	303.5	134.5	23.6	0.0	0.0	0.0	0.0	0.0
42.5°	169.0	47.3	1.8	0.0	0.0	0.0	0.0	0.0
45°	40.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.8	0.0	0.0	0.0	0.0
60°	0.0	1.8	1.8	1.8	0.0	0.0	0.0	0.0
62.5°	1.8	1.8	1.8	1.8	0.0	0.0	0.0	0.0
65°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0
67.5°	1.8	1.8	1.8	1.8	1.8	0.0	0.0	0.0
70°	1.8	1.8	1.8	3.6	1.8	0.0	0.0	0.0
72.5°	1.8	1.8	3.6	3.6	1.8	0.0	0.0	0.0
75°	1.8	1.8	3.6	3.6	1.8	0.0	0.0	0.0
77.5°	1.8	3.6	3.6	3.6	1.8	1.8	0.0	0.0
80°	1.8	3.6	3.6	3.6	3.6	1.8	0.0	0.0
82.5°	1.8	3.6	3.6	3.6	3.6	1.8	0.0	0.0
85°	1.8	3.6	3.6	3.6	1.8	1.8	0.0	0.0
87.5°	1.8	3.6	3.6	3.6	3.6	1.8	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)