

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: P1314724

Luminaire Tested: P3SQAS20R459735D010 E3SQCA301MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314724
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: P3SQAS20R459735D010 E3SQCA301MMS
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 97CRI , E3SQCA301MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

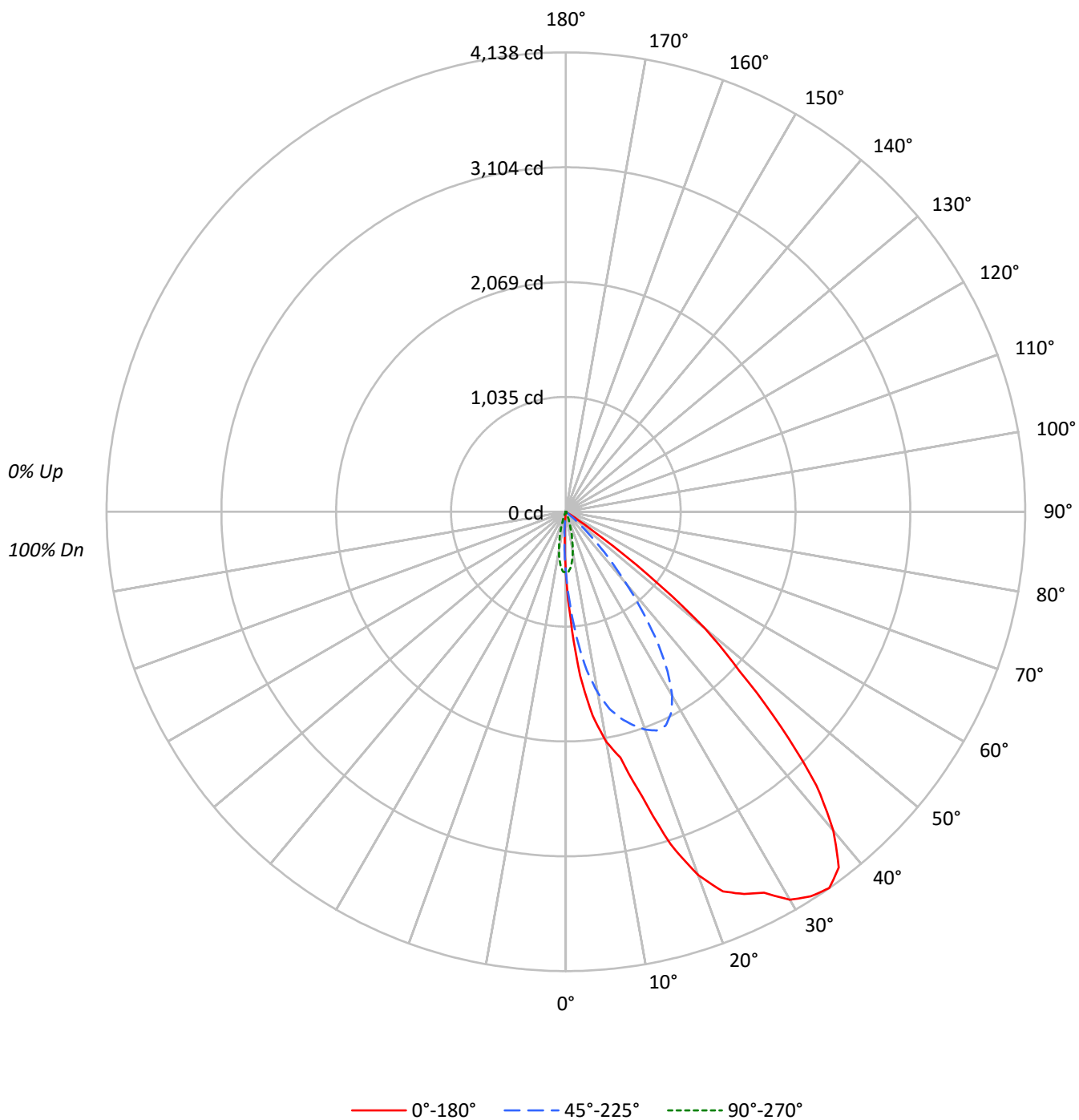
Lumens per Lamp: N/A
Luminaire Lumens: 1754.0 lumens
Efficiency: N/A
Efficacy: 60.9 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1314724

CATALOG NUMBER: P3SQAS20R459735D010 E3SQCA301MMS

Luminous Intensity Polar Plot



TEST NUMBER: P1314724

CATALOG NUMBER: P3SQAS20R459735D010 E3SQCA301MMS

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	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°	93810	93810	93810	93810	93810
5°	256122	197066	86821	17426	6535
10°	367841	289093	62782	1644	1382
15°	473559	343883	33413	553	0
20°	638275	382624	12701	0	0
25°	721930	404187	3287	0	0
30°	802462	381046	318	0	0
35°	869889	303867	0	0	0
40°	843123	190783	0	0	0
45°	668376	90872	0	0	0
50°	437451	11387	0	0	0
55°	75155	0	0	0	0
60°	0	0	551	0	0
65°	0	652	652	0	0
70°	0	806	1561	0	0
75°	0	1065	2063	0	0
80°	0	1587	3075	1587	0
85°	0	3162	6126	3162	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 668376 cd/sqm

TEST NUMBER: P1314724

CATALOG NUMBER: P3SQAS20R459735D010 E3SQCA301MMS

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.8	3.7
10°-20°	249.9	14.2
20°-30°	467.8	26.7
30°-40°	546.0	31.1
40°-50°	356.1	20.3
50°-60°	66.1	3.8
60°-70°	0.6	0.0
70°-80°	1.3	0.1
80°-90°	1.4	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°	782.5	44.6
0°-40°	1328.5	75.7
0°-60°	1750.6	99.8
0°-90°	1754.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1754.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	545	545	545	545	545	
5°	1482	1140	502	101	38	159
15°	2656	1929	187	3	0	791
25°	3799	2127	17	0	0	1757
35°	4138	1445	0	0	0	2538
45°	2744	373	0	0	0	2087
55°	250	0	0	0	0	435
65°	0	2	2	0	0	0
75°	0	2	3	0	0	0
85°	0	2	3	2	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1314724

CATALOG NUMBER: P3SQAS20R459735D010 E3SQCA301MMS

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	544.7	544.7	544.7	544.7	544.7	544.7	544.7	544.7	544.7	544.7	544.7
2.5°	960.4	968.3	952.5	946.2	925.8	930.5	895.8	881.7	859.6	823.4	806.1
5°	1481.5	1467.3	1454.8	1428.0	1412.2	1369.7	1322.5	1269.0	1204.4	1139.9	1065.9
7.5°	1853.1	1842.1	1837.3	1815.3	1783.8	1739.7	1678.3	1610.6	1527.2	1440.6	1328.8
10°	2103.4	2092.4	2073.5	2051.5	2026.3	1990.1	1930.2	1856.2	1764.9	1653.1	1522.5
12.5°	2267.2	2265.6	2234.1	2208.9	2177.4	2145.9	2084.5	2024.7	1934.9	1820.0	1672.0
15°	2656.0	2630.8	2589.9	2519.1	2430.9	2349.0	2249.8	2155.4	2057.8	1928.7	1763.3
17.5°	3140.9	3112.6	3043.3	2953.6	2811.9	2656.0	2486.0	2336.4	2190.0	2015.2	1820.0
20°	3482.6	3471.6	3413.3	3309.4	3158.3	2952.0	2728.5	2517.5	2311.2	2087.7	1846.8
22.5°	3701.4	3695.1	3671.5	3600.7	3446.4	3214.9	2926.8	2643.4	2394.7	2133.3	1838.9
25°	3799.1	3806.9	3810.1	3775.4	3651.1	3414.9	3073.2	2739.5	2441.9	2127.0	1779.1
27.5°	3868.3	3868.3	3880.9	3865.2	3739.2	3490.5	3129.9	2772.5	2426.2	2049.9	1653.1
30°	4035.2	4032.1	4039.9	3997.4	3822.7	3514.1	3104.7	2719.0	2336.4	1916.1	1472.1
32.5°	4107.6	4110.8	4109.2	4041.5	3838.4	3498.3	3043.3	2616.7	2171.1	1706.7	1232.8
35°	4137.5	4123.4	4065.1	3910.8	3654.2	3288.9	2870.1	2443.5	1939.7	1445.3	973.0
37.5°	4038.4	3997.4	3868.3	3657.4	3344.0	2993.0	2583.6	2133.3	1632.7	1133.6	732.1
40°	3750.2	3696.7	3534.6	3279.5	2993.0	2676.5	2245.1	1769.6	1276.8	848.6	513.3
42.5°	3342.5	3281.1	3106.3	2884.3	2623.0	2290.8	1861.0	1385.5	935.2	585.7	325.9
45°	2744.2	2709.6	2608.8	2421.4	2164.8	1820.0	1426.4	1010.8	647.1	373.1	166.9
47.5°	2122.3	2078.2	2005.8	1876.7	1662.6	1335.1	998.2	686.4	415.6	184.2	34.6
50°	1632.7	1580.7	1492.5	1349.3	1125.7	891.1	647.1	428.2	211.0	42.5	1.6
52.5°	939.9	950.9	908.4	817.1	692.7	533.7	374.7	215.7	47.2	1.6	0.0
55°	250.3	270.8	264.5	285.0	250.3	211.0	155.9	40.9	3.1	0.0	0.0
57.5°	0.0	0.0	1.6	3.1	9.4	14.2	4.7	1.6	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	1.6	1.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
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: P1314724

CATALOG NUMBER: P3SQAS20R459735D010 E3SQCA301MMS

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	544.7	544.7	544.7	544.7	544.7	544.7	544.7	544.7
2.5°	766.7	733.7	692.7	541.6	407.8	292.8	228.3	211.0
5°	995.0	914.7	810.8	502.2	251.9	100.8	45.7	37.8
7.5°	1210.7	1092.6	905.3	439.3	127.5	25.2	12.6	11.0
10°	1377.6	1218.6	974.6	359.0	47.2	9.4	7.9	7.9
12.5°	1492.5	1298.9	999.8	272.4	17.3	4.7	4.7	3.1
15°	1558.7	1330.4	976.1	187.4	6.3	3.1	0.0	0.0
17.5°	1579.1	1317.8	913.2	118.1	1.6	0.0	0.0	0.0
20°	1561.8	1256.4	814.0	69.3	0.0	0.0	0.0	0.0
22.5°	1505.1	1160.3	694.3	37.8	0.0	0.0	0.0	0.0
25°	1399.7	1024.9	554.2	17.3	0.0	0.0	0.0	0.0
27.5°	1228.0	850.2	417.2	6.3	0.0	0.0	0.0	0.0
30°	1032.8	662.8	296.0	1.6	0.0	0.0	0.0	0.0
32.5°	806.1	488.1	190.5	0.0	0.0	0.0	0.0	0.0
35°	606.1	341.6	113.4	0.0	0.0	0.0	0.0	0.0
37.5°	421.9	215.7	59.8	0.0	0.0	0.0	0.0	0.0
40°	262.9	116.5	20.5	0.0	0.0	0.0	0.0	0.0
42.5°	146.4	40.9	1.6	0.0	0.0	0.0	0.0	0.0
45°	34.6	3.1	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.6	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	1.6	0.0	0.0	0.0	0.0
60°	0.0	1.6	1.6	1.6	0.0	0.0	0.0	0.0
62.5°	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0
65°	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0
67.5°	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0
70°	1.6	1.6	1.6	3.1	1.6	0.0	0.0	0.0
72.5°	1.6	1.6	3.1	3.1	1.6	0.0	0.0	0.0
75°	1.6	1.6	3.1	3.1	1.6	0.0	0.0	0.0
77.5°	1.6	3.1	3.1	3.1	1.6	1.6	0.0	0.0
80°	1.6	3.1	3.1	3.1	3.1	1.6	0.0	0.0
82.5°	1.6	3.1	3.1	3.1	3.1	1.6	0.0	0.0
85°	1.6	3.1	3.1	3.1	1.6	1.6	0.0	0.0
87.5°	1.6	3.1	3.1	3.1	3.1	1.6	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)