

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: P1308348

Luminaire Tested: P3SQAS20R459030D010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308348
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: P3SQAS20R459030D010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

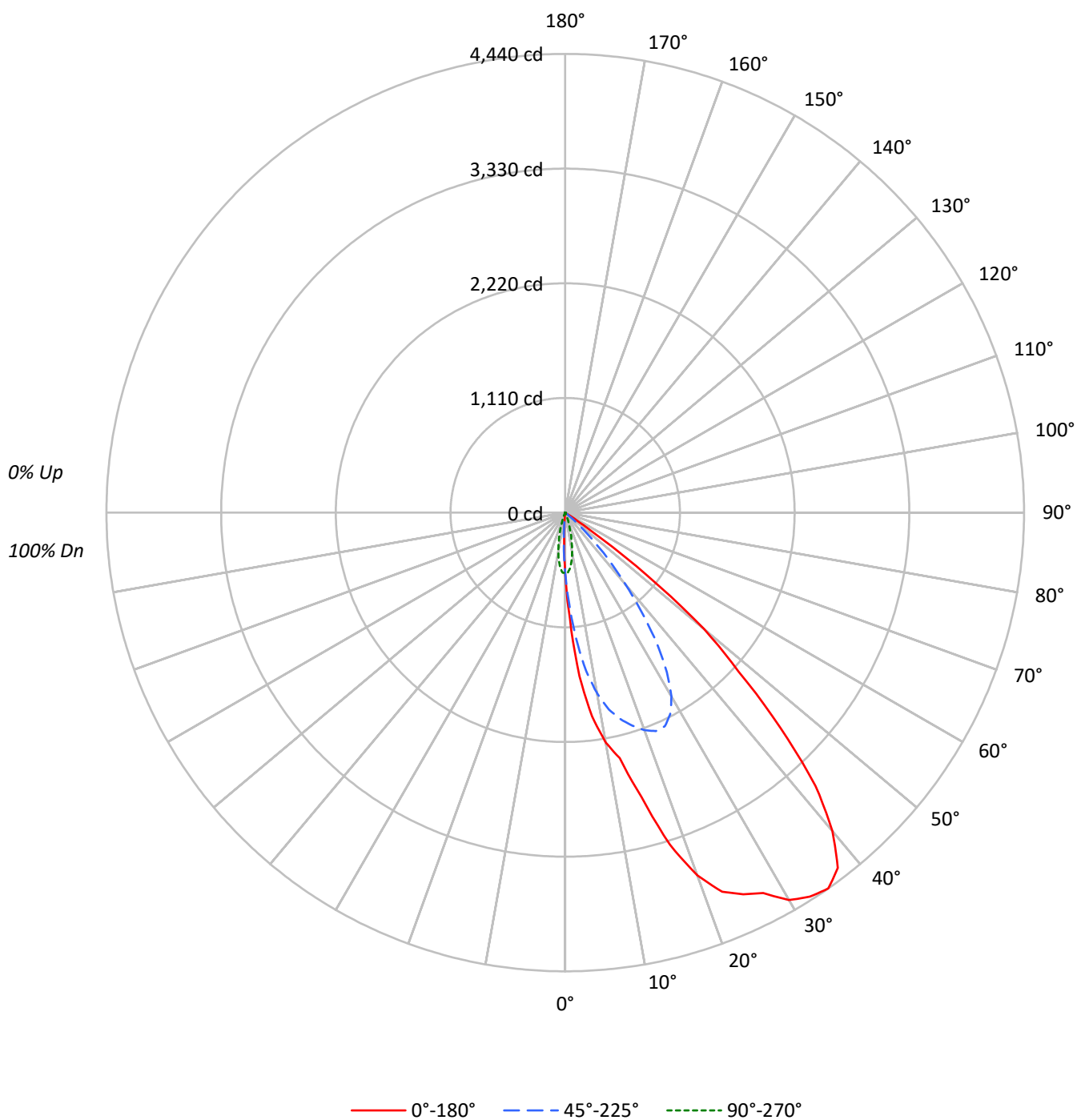
Lumens per Lamp: N/A
Luminaire Lumens: 1882.0 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1308348

CATALOG NUMBER: P3SQAS20R459030D010 E3SQCA301MB

Luminous Intensity Polar Plot



TEST NUMBER: P1308348

CATALOG NUMBER: P3SQAS20R459030D010 E3SQCA301MB

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	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	93	93	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	84	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	76	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	68	68	67
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	62	62	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	56	56	54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	51	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	46	46	44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	42	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	100664	100664	100664	100664	100664
5°	274811	211450	93165	18688	7002
10°	394685	310201	67364	1766	1469
15°	508131	368970	35838	606	0
20°	684846	410537	13617	0	0
25°	774606	433679	3534	0	0
30°	861028	408848	338	0	0
35°	933383	326048	0	0	0
40°	904656	204699	0	0	0
45°	717161	97521	0	0	0
50°	469361	12218	0	0	0
55°	80650	0	0	0	0
60°	0	0	586	0	0
65°	0	693	693	0	0
70°	0	856	1712	0	0
75°	0	1131	2262	0	0
80°	0	1686	3372	1686	0
85°	0	3359	6719	3359	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 717161 cd/sqm

TEST NUMBER: P1308348

CATALOG NUMBER: P3SQAS20R459030D010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.6	3.7
10°-20°	268.1	14.2
20°-30°	501.9	26.7
30°-40°	585.8	31.1
40°-50°	382.0	20.3
50°-60°	70.9	3.8
60°-70°	0.7	0.0
70°-80°	1.4	0.1
80°-90°	1.6	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°	839.6	44.6
0°-40°	1425.4	75.7
0°-60°	1878.4	99.8
0°-90°	1882.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1882.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	584	584	584	584	584	
5°	1590	1223	539	108	40	170
15°	2850	2069	201	3	0	849
25°	4076	2282	19	0	0	1885
35°	4440	1551	0	0	0	2723
45°	2944	400	0	0	0	2239
55°	269	0	0	0	0	467
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: P1308348

CATALOG NUMBER: P3SQAS20R459030D010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	584.5	584.5	584.5	584.5	584.5	584.5	584.5	584.5	584.5	584.5	584.5
2.5°	1030.5	1038.9	1022.0	1015.3	993.3	998.4	961.2	946.0	922.4	883.5	864.9
5°	1589.6	1574.4	1560.9	1532.2	1515.3	1469.7	1419.0	1361.6	1292.3	1223.1	1143.7
7.5°	1988.3	1976.5	1971.4	1947.8	1914.0	1866.7	1800.8	1728.2	1638.6	1545.7	1425.8
10°	2256.9	2245.1	2224.8	2201.2	2174.1	2135.3	2071.1	1991.7	1893.7	1773.8	1633.6
12.5°	2432.6	2430.9	2397.1	2370.1	2336.3	2302.5	2236.6	2172.4	2076.2	1952.8	1794.0
15°	2849.9	2822.8	2778.9	2702.9	2608.3	2520.4	2414.0	2312.7	2207.9	2069.4	1892.0
17.5°	3370.2	3339.8	3265.4	3169.1	3017.1	2849.9	2667.4	2506.9	2349.8	2162.3	1952.8
20°	3736.7	3724.9	3662.4	3550.9	3388.7	3167.4	2927.6	2701.2	2479.9	2240.0	1981.6
22.5°	3971.6	3964.8	3939.5	3863.4	3697.9	3449.6	3140.4	2836.3	2569.4	2289.0	1973.1
25°	4076.3	4084.7	4088.1	4051.0	3917.5	3664.1	3297.5	2939.4	2620.1	2282.2	1908.9
27.5°	4150.6	4150.6	4164.1	4147.2	4012.1	3745.2	3358.3	2974.9	2603.2	2199.5	1773.8
30°	4329.7	4326.3	4334.8	4289.1	4101.6	3770.5	3331.3	2917.4	2506.9	2055.9	1579.5
32.5°	4407.4	4410.8	4409.1	4336.4	4118.5	3753.6	3265.4	2807.6	2329.6	1831.2	1322.7
35°	4439.5	4424.3	4361.8	4196.2	3920.9	3529.0	3079.6	2621.8	2081.2	1550.8	1044.0
37.5°	4333.1	4289.1	4150.6	3924.3	3588.1	3211.4	2772.1	2289.0	1751.8	1216.3	785.5
40°	4023.9	3966.5	3792.5	3518.8	3211.4	2871.8	2408.9	1898.8	1370.0	910.5	550.7
42.5°	3586.4	3520.5	3333.0	3094.8	2814.4	2457.9	1996.8	1486.6	1003.4	628.4	349.7
45°	2944.5	2907.3	2799.2	2598.1	2322.8	1952.8	1530.5	1084.5	694.3	400.4	179.1
47.5°	2277.2	2229.9	2152.2	2013.7	1783.9	1432.5	1071.0	736.5	446.0	197.6	37.2
50°	1751.8	1696.1	1601.5	1447.7	1207.9	956.1	694.3	459.5	226.4	45.6	1.7
52.5°	1008.5	1020.3	974.7	876.7	743.3	572.7	402.1	231.4	50.7	1.7	0.0
55°	268.6	290.6	283.8	305.8	268.6	226.4	167.2	43.9	3.4	0.0	0.0
57.5°	0.0	0.0	1.7	3.4	10.1	15.2	5.1	1.7	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	1.7	1.7
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7
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: P1308348

CATALOG NUMBER: P3SQAS20R459030D010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	584.5	584.5	584.5	584.5	584.5	584.5	584.5	584.5
2.5°	822.7	787.2	743.3	581.1	437.5	314.2	244.9	226.4
5°	1067.6	981.5	870.0	538.9	270.3	108.1	49.0	40.5
7.5°	1299.1	1172.4	971.3	471.3	136.8	27.0	13.5	11.8
10°	1478.1	1307.5	1045.7	385.2	50.7	10.1	8.4	8.4
12.5°	1601.5	1393.7	1072.7	292.2	18.6	5.1	5.1	3.4
15°	1672.4	1427.5	1047.4	201.0	6.8	3.4	0.0	0.0
17.5°	1694.4	1413.9	979.8	126.7	1.7	0.0	0.0	0.0
20°	1675.8	1348.1	873.4	74.3	0.0	0.0	0.0	0.0
22.5°	1615.0	1245.0	745.0	40.5	0.0	0.0	0.0	0.0
25°	1501.8	1099.7	594.6	18.6	0.0	0.0	0.0	0.0
27.5°	1317.7	912.2	447.7	6.8	0.0	0.0	0.0	0.0
30°	1108.2	711.2	317.6	1.7	0.0	0.0	0.0	0.0
32.5°	864.9	523.7	204.4	0.0	0.0	0.0	0.0	0.0
35°	650.4	366.6	121.6	0.0	0.0	0.0	0.0	0.0
37.5°	452.7	231.4	64.2	0.0	0.0	0.0	0.0	0.0
40°	282.1	125.0	22.0	0.0	0.0	0.0	0.0	0.0
42.5°	157.1	43.9	1.7	0.0	0.0	0.0	0.0	0.0
45°	37.2	3.4	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.7	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	1.7	0.0	0.0	0.0	0.0
60°	0.0	1.7	1.7	1.7	0.0	0.0	0.0	0.0
62.5°	1.7	1.7	1.7	1.7	0.0	0.0	0.0	0.0
65°	1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0
67.5°	1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0
70°	1.7	1.7	1.7	3.4	1.7	0.0	0.0	0.0
72.5°	1.7	1.7	3.4	3.4	1.7	0.0	0.0	0.0
75°	1.7	1.7	3.4	3.4	1.7	0.0	0.0	0.0
77.5°	1.7	3.4	3.4	3.4	1.7	1.7	0.0	0.0
80°	1.7	3.4	3.4	3.4	3.4	1.7	0.0	0.0
82.5°	1.7	3.4	3.4	3.4	3.4	1.7	0.0	0.0
85°	1.7	3.4	3.4	3.4	1.7	1.7	0.0	0.0
87.5°	1.7	3.4	3.4	3.4	3.4	1.7	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)