

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: P1314750

Luminaire Tested: P3SQAS20R609735D010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314750
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-55)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS20R609735D010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R60 optic, 3500K CCT AND, 97CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

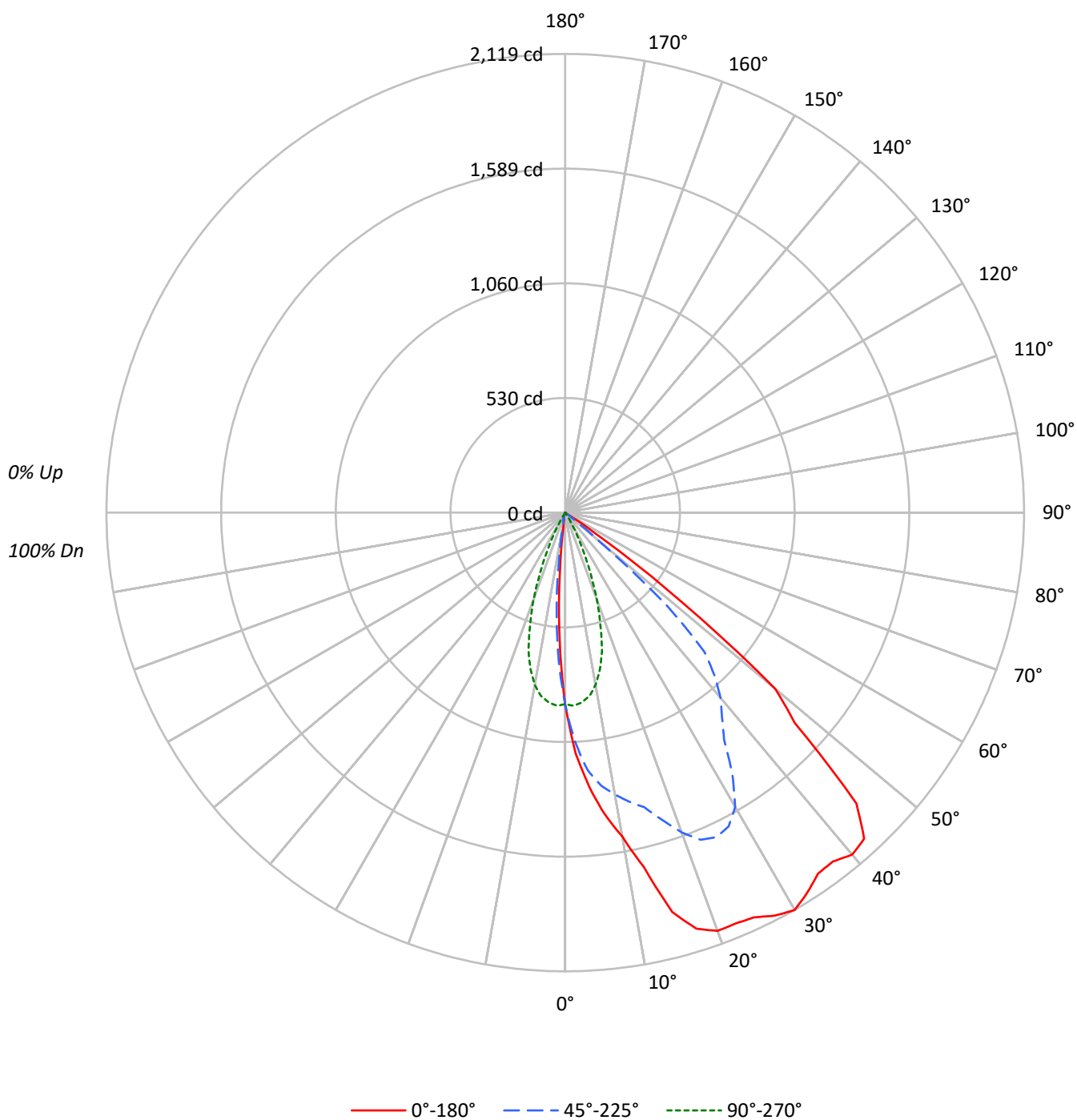
Lumens per Lamp: N/A
Luminaire Lumens: 1438.0 lumens
Efficiency: N/A
Efficacy: 49.9 lumens/watt
Spacing Criteria (0/90/45): 1.74 / 0.65 / 1.25
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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: P1314750

CATALOG NUMBER: P3SQAS20R609735D010 E3SQCA301MB

Luminous Intensity Polar Plot



TEST NUMBER: P1314750

CATALOG NUMBER: P3SQAS20R609735D010 E3SQCA301MB

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	152365	152365	152365	152365	152365
5°	219627	206852	152135	78384	50343
10°	265677	231261	141233	9356	5509
15°	340478	251222	117053	6169	5046
20°	376814	287944	78479	3464	568
25°	391892	314114	38594	304	0
30°	421396	312139	10639	0	0
35°	427975	268756	0	0	0
40°	463648	250585	0	0	0
45°	463177	221250	0	0	0
50°	339120	53559	0	0	0
55°	66178	0	0	0	0
60°	0	0	0	0	0
65°	0	652	652	0	0
70°	0	806	806	0	0
75°	0	1065	1065	0	0
80°	0	1587	1587	1587	0
85°	0	3162	3162	3162	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 463957 cd/sqm

TEST NUMBER: P1314750

CATALOG NUMBER: P3SQAS20R609735D010 E3SQCA301MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.0	5.3
10°-20°	216.4	15.0
20°-30°	344.8	24.0
30°-40°	398.6	27.7
40°-50°	316.6	22.0
50°-60°	83.3	5.8
60°-70°	0.6	0.0
70°-80°	0.9	0.1
80°-90°	0.9	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°	637.2	44.3
0°-40°	1035.8	72.0
0°-60°	1435.6	99.8
0°-90°	1438.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1438.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	885	885	885	885	885	
5°	1270	1196	880	453	291	128
15°	1910	1409	656	35	28	532
25°	2062	1653	203	2	0	962
35°	2036	1278	0	0	0	1293
45°	1902	908	0	0	0	1354
55°	220	0	0	0	0	332
65°	0	2	2	0	0	0
75°	0	2	2	0	0	0
85°	0	2	2	2	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1314750

CATALOG NUMBER: P3SQAS20R609735D010 E3SQCA301MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	884.7	884.7	884.7	884.7	884.7	884.7	884.7	884.7	884.7	884.7	884.7
2.5°	1113.0	1124.0	1119.3	1114.6	1103.6	1098.9	1098.9	1086.3	1065.8	1062.6	1048.5
5°	1270.4	1273.6	1273.6	1270.4	1262.6	1250.0	1246.8	1234.2	1215.3	1196.5	1177.6
7.5°	1407.4	1405.8	1396.4	1390.1	1375.9	1358.6	1342.9	1325.5	1297.2	1272.0	1245.3
10°	1519.2	1523.9	1516.0	1500.3	1481.4	1457.8	1432.6	1402.7	1360.2	1322.4	1287.8
12.5°	1676.6	1675.0	1654.6	1627.8	1582.2	1538.1	1498.7	1465.7	1413.7	1368.1	1325.5
15°	1909.6	1906.5	1887.6	1864.0	1797.8	1731.7	1664.0	1571.1	1484.6	1409.0	1349.2
17.5°	2015.1	2021.4	2005.6	1993.0	1955.3	1911.2	1851.4	1758.5	1624.7	1487.7	1361.8
20°	2056.0	2063.9	2052.9	2051.3	2034.0	2013.5	1964.7	1864.0	1733.3	1571.1	1415.3
22.5°	2054.4	2060.7	2056.0	2076.5	2097.0	2085.9	2026.1	1925.4	1791.5	1635.7	1459.4
25°	2062.3	2057.6	2040.3	2070.2	2100.1	2090.7	2060.7	1974.2	1827.7	1653.0	1475.1
27.5°	2098.5	2063.9	2029.3	2067.0	2081.2	2084.4	2067.0	1964.7	1821.5	1634.1	1443.6
30°	2119.0	2081.2	2052.9	2084.4	2084.4	2101.7	2065.5	1949.0	1767.9	1569.6	1360.2
32.5°	2081.2	2073.3	2098.5	2130.0	2137.9	2137.9	2057.6	1897.0	1678.2	1437.3	1226.4
35°	2035.6	2054.4	2126.9	2141.0	2141.0	2106.4	2008.8	1805.7	1544.4	1278.3	1127.2
37.5°	2030.8	2060.7	2141.0	2123.7	2095.4	2030.8	1889.1	1646.7	1353.9	1188.6	1053.2
40°	2062.3	2090.7	2137.9	2074.9	2007.2	1906.5	1736.4	1438.9	1239.0	1114.6	963.5
42.5°	2043.4	2070.2	2071.8	1978.9	1882.8	1745.9	1520.8	1270.4	1155.5	1020.1	861.1
45°	1901.7	1904.9	1898.6	1799.4	1700.2	1558.5	1319.3	1187.0	1064.2	908.4	632.9
47.5°	1437.3	1431.0	1454.6	1426.3	1431.0	1346.0	1198.0	1089.4	943.0	637.6	192.1
50°	1265.7	1257.9	1234.2	1209.1	1183.9	1142.9	1073.7	957.2	680.1	199.9	6.3
52.5°	678.5	716.3	790.3	903.6	946.1	943.0	891.0	708.4	214.1	1.6	0.0
55°	220.4	217.3	242.4	286.5	393.6	453.4	472.3	240.9	4.7	0.0	0.0
57.5°	0.0	0.0	0.0	4.7	15.7	40.9	53.5	3.1	0.0	1.6	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	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	1.6	1.6	1.6	1.6	1.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	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	1.6	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: P1314750

CATALOG NUMBER: P3SQAS20R609735D010 E3SQCA301MB

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	884.7	884.7	884.7	884.7	884.7	884.7	884.7	884.7
2.5°	1029.6	1007.5	982.4	892.6	787.1	684.8	610.8	591.9
5°	1147.7	1109.9	1056.3	880.0	650.2	453.4	324.3	291.2
7.5°	1209.1	1176.0	1119.3	854.8	503.8	223.5	83.4	56.7
10°	1246.8	1207.5	1144.5	807.6	329.0	53.5	29.9	31.5
12.5°	1273.6	1227.9	1157.1	739.9	166.9	26.8	37.8	39.4
15°	1284.6	1235.8	1155.5	656.5	59.8	34.6	33.1	28.3
17.5°	1278.3	1216.9	1135.1	536.8	20.5	33.1	17.3	14.2
20°	1270.4	1201.2	1102.0	428.2	17.3	18.9	6.3	3.1
22.5°	1295.6	1174.4	1056.3	307.0	17.3	6.3	0.0	0.0
25°	1298.8	1163.4	998.1	203.1	7.9	1.6	0.0	0.0
27.5°	1267.3	1098.9	908.4	119.6	0.0	0.0	0.0	0.0
30°	1166.5	1018.6	812.3	53.5	0.0	0.0	0.0	0.0
32.5°	1067.4	928.8	705.3	12.6	0.0	0.0	0.0	0.0
35°	988.7	835.9	587.2	0.0	0.0	0.0	0.0	0.0
37.5°	891.0	725.7	437.7	0.0	0.0	0.0	0.0	0.0
40°	788.7	585.6	218.8	0.0	0.0	0.0	0.0	0.0
42.5°	615.5	278.6	22.0	0.0	0.0	0.0	0.0	0.0
45°	236.1	25.2	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	12.6	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	0.0	0.0	0.0	0.0	0.0
60°	1.6	1.6	0.0	0.0	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	0.0	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	1.6	1.6	0.0	0.0	0.0
72.5°	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0
75°	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0
77.5°	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0
80°	1.6	1.6	1.6	1.6	1.6	1.6	0.0	0.0
82.5°	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0
85°	1.6	1.6	1.6	1.6	1.6	1.6	0.0	0.0
87.5°	1.6	1.6	1.6	1.6	1.6	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)