

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: PORTFOLIO

Report Number: P1316451

Luminaire Tested: LDSQA3D09R409740DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316451
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R409740DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

Summary

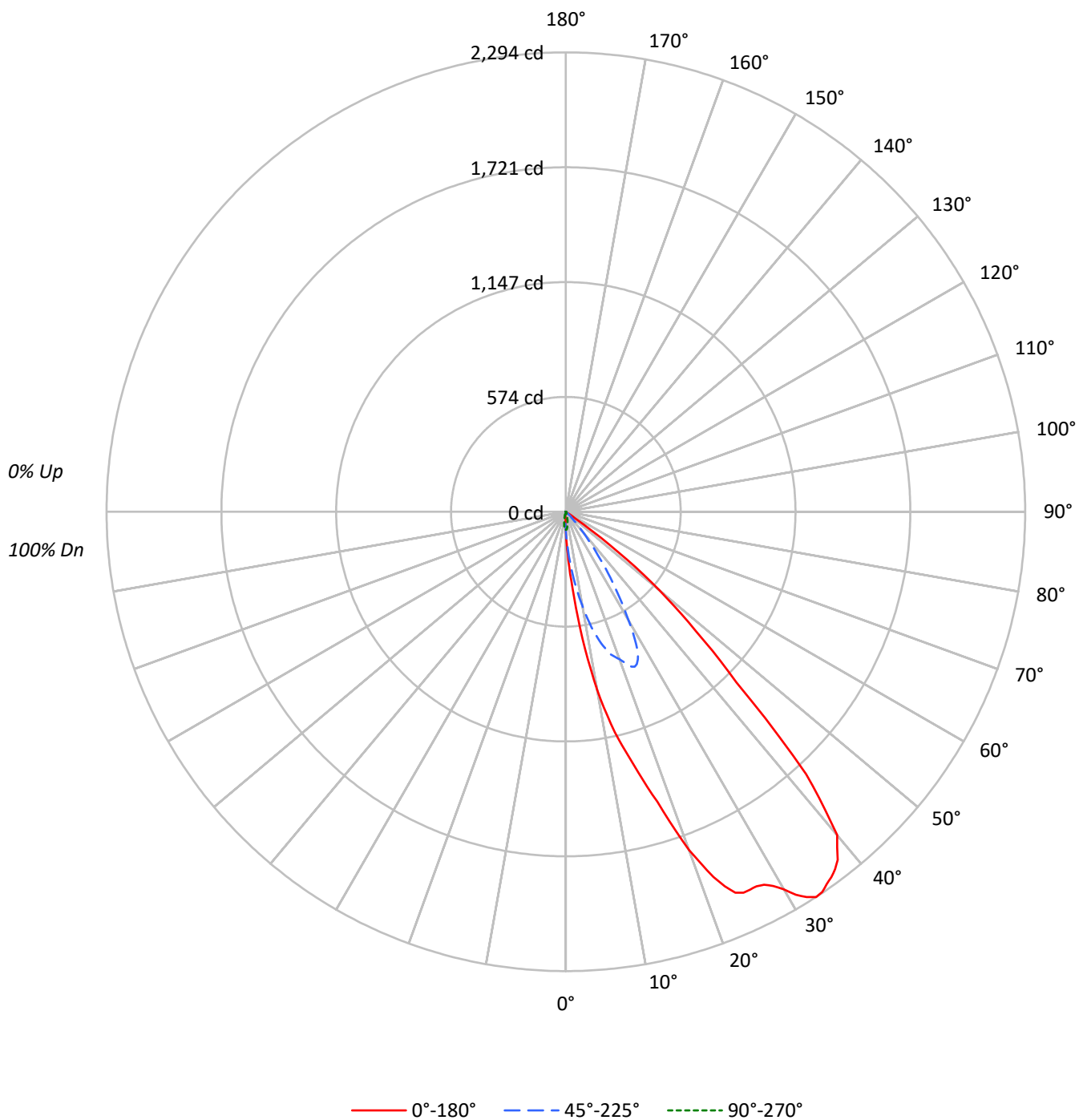
Lumens per Lamp: N/A
Luminaire Lumens: 770.0 lumens
Efficiency: N/A
Efficacy: 69.4 lumens/watt
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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: P1316451

CATALOG NUMBER: LDSQA3D09R409740DE010 3LSQCA30R 1MB

Luminous Intensity Polar Plot



TEST NUMBER: P1316451

CATALOG NUMBER: LDSQA3D09R409740DE010 3LSQCA30R 1MB

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	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83		
3	99	91	85	80	97	90	84	80	87	82	78	84	81	77	82	79	76	74		
4	92	83	77	72	90	82	76	71	80	74	70	78	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	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	60	55	51	59	54	50	49		
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40		
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	15517	15517	15517	15517	15517
5°	65833	44862	13606	2455	1227
10°	158231	83452	8429	245	0
15°	232893	121260	3548	0	0
20°	329199	143743	1301	0	0
25°	398733	159546	0	0	0
30°	432930	124808	0	0	0
35°	477382	73060	0	0	0
40°	473810	29654	0	0	0
45°	293441	8646	0	0	0
50°	163384	188	0	0	0
55°	15974	0	0	0	0
60°	0	0	241	0	0
65°	0	0	285	0	0
70°	0	352	705	0	0
75°	0	466	932	0	0
80°	0	694	1389	0	0
85°	0	1383	2766	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 5°

Vertical Angle: 45°

Luminance: 294829 cd/sqm

TEST NUMBER: P1316451

CATALOG NUMBER: LDSQA3D09R409740DE010 3LSQCA30R 1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.9	2.2
10°-20°	99.3	12.9
20°-30°	226.6	29.4
30°-40°	267.5	34.7
40°-50°	142.9	18.6
50°-60°	15.5	2.0
60°-70°	0.3	0.0
70°-80°	0.5	0.1
80°-90°	0.5	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°	342.7	44.5
0°-40°	610.2	79.2
0°-60°	768.6	99.8
0°-90°	770.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	770.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	90	90	90	90	90	
5°	381	260	79	14	7	54
15°	1306	680	20	0	0	388
25°	2098	840	0	0	0	953
35°	2271	348	0	0	0	1403
45°	1205	36	0	0	0	993
55°	53	0	0	0	0	149
65°	0	0	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	1	0	0	0
90°	0	0	0	0	0	

TEST NUMBER: P1316451

CATALOG NUMBER: LDSQA3D09R409740DE010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
2.5°	209.9	205.6	208.5	202.8	202.8	190.0	190.8	180.1	164.5	125.5	89.3
5°	380.8	397.8	384.3	366.6	356.7	343.9	326.9	309.2	259.5	156.7	78.7
7.5°	637.5	636.1	613.4	594.2	572.3	538.2	506.3	463.1	369.5	179.4	65.2
10°	904.8	899.9	874.4	858.0	816.2	767.3	702.0	632.5	477.2	187.2	48.2
12.5°	1127.5	1121.1	1099.9	1072.2	1026.1	964.4	894.2	802.7	590.7	178.7	31.2
15°	1306.2	1304.8	1284.2	1246.6	1198.4	1138.1	1058.7	948.8	680.1	156.7	19.9
17.5°	1518.2	1526.7	1489.9	1449.5	1380.0	1295.6	1198.4	1072.9	746.0	129.8	12.8
20°	1796.2	1784.2	1750.1	1691.3	1624.6	1523.2	1385.6	1206.2	784.3	100.7	7.1
21°	1881.3	1876.3	1840.9	1786.3	1712.5	1609.7	1467.9	1274.3	802.0	90.1	5.7
22°	1967.8	1959.3	1931.7	1878.5	1809.0	1692.7	1536.7	1344.5	824.7	78.7	3.5
23°	2032.4	2028.8	2007.5	1955.1	1883.4	1770.7	1611.1	1409.7	840.3	68.1	2.1
24°	2082.0	2077.7	2056.5	2016.8	1955.1	1837.3	1686.3	1479.9	846.7	58.9	0.7
25°	2098.3	2100.4	2087.7	2056.5	2004.7	1887.0	1742.3	1535.3	839.6	50.3	0.0
26°	2099.0	2105.4	2096.2	2078.4	2035.9	1926.7	1794.8	1567.9	821.2	42.5	0.0
27°	2099.0	2105.4	2096.2	2082.7	2040.9	1949.4	1823.2	1571.4	792.8	36.2	0.0
28°	2108.9	2112.5	2100.4	2084.1	2038.7	1956.5	1831.0	1550.2	747.4	31.2	0.0
29°	2136.6	2133.1	2113.2	2091.2	2036.6	1956.5	1807.6	1509.7	690.7	26.2	0.0
30°	2177.0	2177.0	2145.8	2111.1	2046.5	1955.8	1770.0	1436.7	627.6	21.3	0.0
31°	2231.6	2226.7	2195.5	2143.7	2067.8	1955.8	1714.7	1355.8	569.4	18.4	0.0
32°	2268.5	2265.7	2235.9	2174.9	2102.6	1955.8	1655.1	1266.5	506.3	14.9	0.0
33°	2294.0	2288.4	2254.3	2191.2	2123.8	1945.8	1588.4	1170.8	449.6	12.1	0.0
34°	2290.5	2289.1	2253.6	2188.4	2119.6	1904.7	1511.1	1064.4	397.1	9.9	0.0
35°	2270.6	2270.6	2227.4	2160.0	2089.1	1844.4	1434.6	973.6	347.5	7.1	0.0
36°	2255.7	2250.1	2201.1	2126.0	2038.0	1749.4	1321.1	882.2	294.3	5.7	0.0
37°	2233.7	2223.1	2168.5	2087.7	1965.7	1646.6	1202.0	800.6	248.9	3.5	0.0
38°	2205.4	2189.1	2122.4	2043.0	1886.3	1528.2	1080.7	709.1	207.1	2.1	0.0
39°	2153.6	2140.1	2071.4	1985.6	1791.3	1403.4	963.0	623.3	167.4	0.7	0.0
40°	2107.5	2084.1	2006.1	1907.6	1679.9	1262.2	846.0	538.9	131.9	0.0	0.0
42.5°	1777.1	1752.3	1734.5	1636.7	1338.1	906.3	590.7	345.3	68.8	0.0	0.0
45°	1204.8	1210.5	1155.2	1089.2	882.9	590.7	369.5	192.2	35.5	0.0	0.0
47.5°	878.6	863.7	788.5	663.7	517.7	345.3	192.9	92.9	14.2	0.0	0.0
50°	609.8	581.5	513.4	419.8	281.5	164.5	85.1	43.3	0.7	0.0	0.0
52.5°	331.2	311.3	263.8	191.5	117.0	63.1	34.0	17.7	0.0	0.0	0.0
55°	53.2	36.9	38.3	32.6	25.5	18.4	10.6	2.1	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.7	0.0	0.0	0.0	0.7	0.7
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	1.4
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	1.4
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	1.4	1.4
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	1.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	1.4	1.4



TEST NUMBER: P1316451

CATALOG NUMBER: LDSQA3D09R409740DE010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	1.4	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	1.4	1.4
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: P1316451

CATALOG NUMBER: LDSQA3D09R409740DE010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	90.1	90.1	90.1	90.1
2.5°	60.3	41.1	31.2	26.9
5°	34.7	14.2	7.8	7.1
7.5°	17.0	5.0	2.8	2.8
10°	7.1	1.4	0.0	0.0
12.5°	2.1	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0
21°	0.0	0.0	0.0	0.0
22°	0.0	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	0.7	0.0	0.0	0.0
67.5°	0.7	0.0	0.0	0.0
70°	0.7	0.0	0.0	0.0
72.5°	0.7	0.0	0.0	0.0
75°	0.7	0.0	0.0	0.0
77.5°	0.7	0.0	0.0	0.0
80°	0.7	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
82.5°	0.7	0.0	0.0	0.0
85°	0.7	0.0	0.0	0.0
87.5°	0.7	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)