

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: P1311862

Luminaire Tested: LDSQA3D20R709040D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311862
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R709040D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

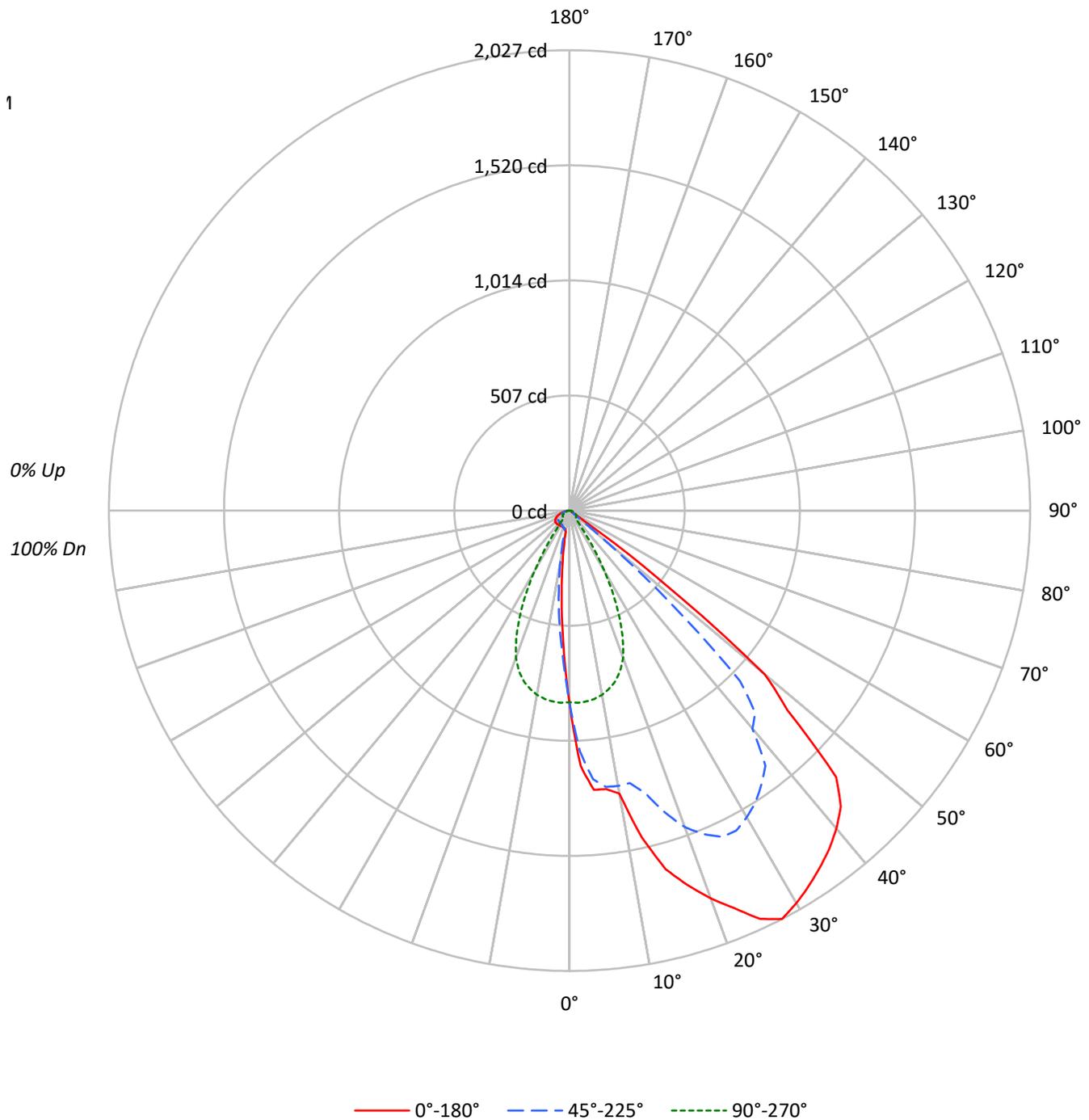
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1602.0 lumens
Efficiency: N/A
Efficacy: 55.6 lumens/watt
Spacing Criteria (0/90/45): 1.7 / 0.89 / 1.39
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

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Luminous Intensity Polar Plot





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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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90				
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80				
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	71				
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64				
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	62	59	57				
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51				
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46				
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	42				
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38				
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	35				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	145253	145253	145253	145253	145253
5°	213386	205209	145807	87045	68201
10°	221257	215207	144013	41639	16841
15°	291375	229470	138716	14906	14585
20°	332828	271853	126258	14332	14662
25°	376861	301211	99137	13815	14499
30°	396916	310171	61449	13742	15551
35°	403586	309565	20247	14149	16441
40°	410725	281565	9802	15130	17986
45°	404212	258563	10181	15929	19485
50°	300511	47718	10235	17523	21434
55°	24021	6546	10930	18556	22910
60°	4994	6889	10643	18772	23801
65°	5175	6683	10351	18501	24451
70°	4582	6395	10071	17372	23818
75°	3660	6055	8451	16902	22957
80°	3570	5455	9025	16265	21621
85°	3557	7114	10868	14425	17982

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 409083 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.8	4.8
10°-20°	215.9	13.5
20°-30°	362.4	22.6
30°-40°	435.8	27.2
40°-50°	345.5	21.6
50°-60°	110.5	6.9
60°-70°	30.9	1.9
70°-80°	18.4	1.1
80°-90°	5.8	0.4
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°	655.1	40.9
0°-40°	1090.9	68.1
0°-60°	1546.9	96.6
0°-90°	1602.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1602.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	843	843	843	843	843	
5°	1234	1187	843	504	394	116
15°	1634	1287	778	84	82	460
25°	1983	1585	522	73	76	907
35°	1920	1472	96	67	78	1202
45°	1660	1062	42	65	80	1192
55°	80	22	36	62	76	250
65°	13	16	25	45	60	12
75°	6	9	13	25	34	7
85°	2	4	6	7	9	1
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	843.4	843.4	843.4	843.4	843.4	843.4	843.4	843.4	843.4	843.4	843.4
2.5°	1125.2	1132.5	1132.5	1123.4	1127.0	1112.5	1101.6	1085.2	1081.6	1061.6	1036.1
5°	1234.3	1230.6	1230.6	1223.4	1227.0	1221.5	1216.1	1212.5	1201.5	1187.0	1172.5
7.5°	1236.1	1239.7	1241.5	1239.7	1247.0	1241.5	1241.5	1241.5	1234.3	1227.0	1212.5
10°	1265.2	1259.7	1254.3	1241.5	1234.3	1228.8	1228.8	1230.6	1234.3	1230.6	1221.5
12.5°	1474.2	1454.2	1445.1	1414.2	1390.6	1350.6	1305.2	1270.6	1239.7	1228.8	1221.5
15°	1634.2	1630.5	1612.4	1583.3	1554.2	1506.9	1454.2	1401.5	1345.2	1287.0	1245.2
17.5°	1728.7	1721.4	1703.3	1672.4	1637.8	1594.2	1552.4	1512.4	1457.9	1392.4	1325.2
20°	1816.0	1799.6	1776.0	1739.6	1705.1	1663.3	1617.8	1579.6	1534.2	1483.3	1405.1
22.5°	1894.1	1879.6	1841.4	1792.3	1757.8	1717.8	1677.8	1641.5	1599.6	1541.5	1470.6
25°	1983.2	1950.5	1888.7	1825.0	1783.2	1750.5	1721.4	1692.3	1648.7	1585.1	1501.5
27.5°	2026.8	1981.4	1914.1	1850.5	1810.5	1776.0	1745.1	1716.0	1666.9	1588.7	1492.4
30°	1995.9	1970.5	1923.2	1874.1	1841.4	1808.7	1772.3	1728.7	1650.5	1559.7	1470.6
32.5°	1959.6	1946.8	1925.0	1895.9	1875.9	1843.2	1792.3	1721.4	1612.4	1523.3	1427.0
35°	1919.6	1914.1	1906.8	1894.1	1881.4	1850.5	1786.9	1683.3	1574.2	1472.4	1379.7
37.5°	1877.8	1872.3	1877.8	1875.9	1865.0	1825.0	1728.7	1632.4	1519.7	1416.0	1236.1
40°	1826.9	1823.2	1832.3	1841.4	1828.7	1776.0	1672.4	1556.0	1456.0	1252.4	1190.6
42.5°	1766.9	1765.1	1781.4	1788.7	1770.5	1692.3	1570.6	1485.1	1274.3	1208.8	1063.4
45°	1659.6	1663.3	1670.5	1679.6	1668.7	1583.3	1472.4	1316.1	1223.4	1061.6	605.3
47.5°	1299.7	1303.3	1339.7	1416.0	1468.8	1439.7	1345.2	1228.8	1094.3	607.1	190.9
50°	1121.6	1117.9	1119.7	1137.9	1179.7	1219.7	1190.6	1127.0	652.6	178.1	23.6
52.5°	492.6	547.2	605.3	768.9	874.3	985.2	1007.0	705.3	212.7	23.6	23.6
55°	80.0	83.6	105.4	154.5	278.1	419.9	509.0	236.3	21.8	21.8	21.8
57.5°	16.4	16.4	16.4	18.2	27.3	58.2	67.3	20.0	20.0	20.0	21.8
60°	14.5	14.5	14.5	14.5	16.4	16.4	16.4	18.2	18.2	20.0	20.0
62.5°	14.5	14.5	14.5	14.5	14.5	14.5	16.4	16.4	18.2	18.2	20.0
65°	12.7	12.7	12.7	12.7	14.5	14.5	14.5	14.5	16.4	16.4	18.2
67.5°	10.9	10.9	10.9	10.9	12.7	12.7	12.7	14.5	14.5	14.5	16.4
70°	9.1	9.1	9.1	9.1	10.9	10.9	10.9	10.9	12.7	12.7	12.7
72.5°	7.3	7.3	7.3	7.3	9.1	9.1	9.1	9.1	10.9	10.9	10.9
75°	5.5	5.5	7.3	7.3	7.3	7.3	7.3	7.3	9.1	9.1	9.1
77.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	7.3	7.3	7.3	7.3
80°	3.6	3.6	3.6	3.6	3.6	3.6	5.5	5.5	5.5	5.5	5.5
82.5°	1.8	1.8	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
85°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6	3.6	3.6	3.6
87.5°	0.0	0.0	0.0	0.0	1.8	1.8	1.8	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	843.4	843.4	843.4	843.4	843.4	843.4	843.4	843.4
2.5°	1019.8	994.3	959.8	847.1	743.5	648.9	601.7	596.2
5°	1148.8	1125.2	1067.0	843.4	645.3	503.5	418.1	394.5
7.5°	1197.9	1177.9	1127.0	836.2	552.6	361.7	265.4	229.0
10°	1210.6	1197.9	1154.3	823.5	456.3	238.1	125.4	96.3
12.5°	1216.1	1207.0	1165.2	803.5	359.9	123.6	85.4	85.4
15°	1225.2	1216.1	1176.1	778.0	265.4	83.6	81.8	81.8
17.5°	1265.2	1236.1	1190.6	739.8	174.5	80.0	80.0	80.0
20°	1330.6	1267.0	1197.9	688.9	109.1	78.2	78.2	80.0
22.5°	1385.1	1299.7	1196.1	612.6	80.0	74.5	76.3	78.2
25°	1408.8	1314.3	1179.7	521.7	69.1	72.7	76.3	76.3
27.5°	1405.1	1319.7	1165.2	418.1	65.4	70.9	74.5	78.2
30°	1385.1	1305.2	1132.5	309.0	61.8	69.1	74.5	78.2
32.5°	1350.6	1248.8	1067.0	200.0	60.0	69.1	74.5	78.2
35°	1237.9	1157.9	972.5	96.3	58.2	67.3	76.3	78.2
37.5°	1172.5	1061.6	741.7	47.3	56.4	67.3	76.3	78.2
40°	1067.0	792.5	334.5	43.6	56.4	67.3	76.3	80.0
42.5°	670.8	325.4	54.5	41.8	54.5	67.3	76.3	80.0
45°	245.4	43.6	29.1	41.8	54.5	65.4	76.3	80.0
47.5°	25.4	25.4	27.3	40.0	52.7	65.4	76.3	80.0
50°	23.6	25.4	27.3	38.2	50.9	65.4	74.5	80.0
52.5°	23.6	25.4	27.3	38.2	49.1	63.6	74.5	80.0
55°	23.6	25.4	25.4	36.4	47.3	61.8	72.7	76.3
57.5°	21.8	23.6	25.4	34.5	45.4	58.2	70.9	74.5
60°	21.8	23.6	25.4	30.9	43.6	54.5	67.3	69.1
62.5°	20.0	21.8	23.6	29.1	40.0	50.9	61.8	65.4
65°	20.0	20.0	21.8	25.4	36.4	45.4	56.4	60.0
67.5°	16.4	18.2	18.2	21.8	30.9	40.0	50.9	54.5
70°	14.5	14.5	16.4	20.0	27.3	34.5	43.6	47.3
72.5°	12.7	12.7	12.7	16.4	23.6	30.9	38.2	41.8
75°	10.9	10.9	10.9	12.7	20.0	25.4	32.7	34.5
77.5°	9.1	9.1	9.1	10.9	16.4	21.8	25.4	29.1
80°	7.3	7.3	7.3	9.1	12.7	16.4	20.0	21.8
82.5°	5.5	5.5	5.5	7.3	9.1	10.9	14.5	14.5
85°	3.6	3.6	3.6	5.5	5.5	7.3	9.1	9.1
87.5°	1.8	1.8	1.8	3.6	3.6	3.6	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)