

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: P1308654

Luminaire Tested: LDSQA3D24R709027D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1308654
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: LDSQA3D24R709027D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

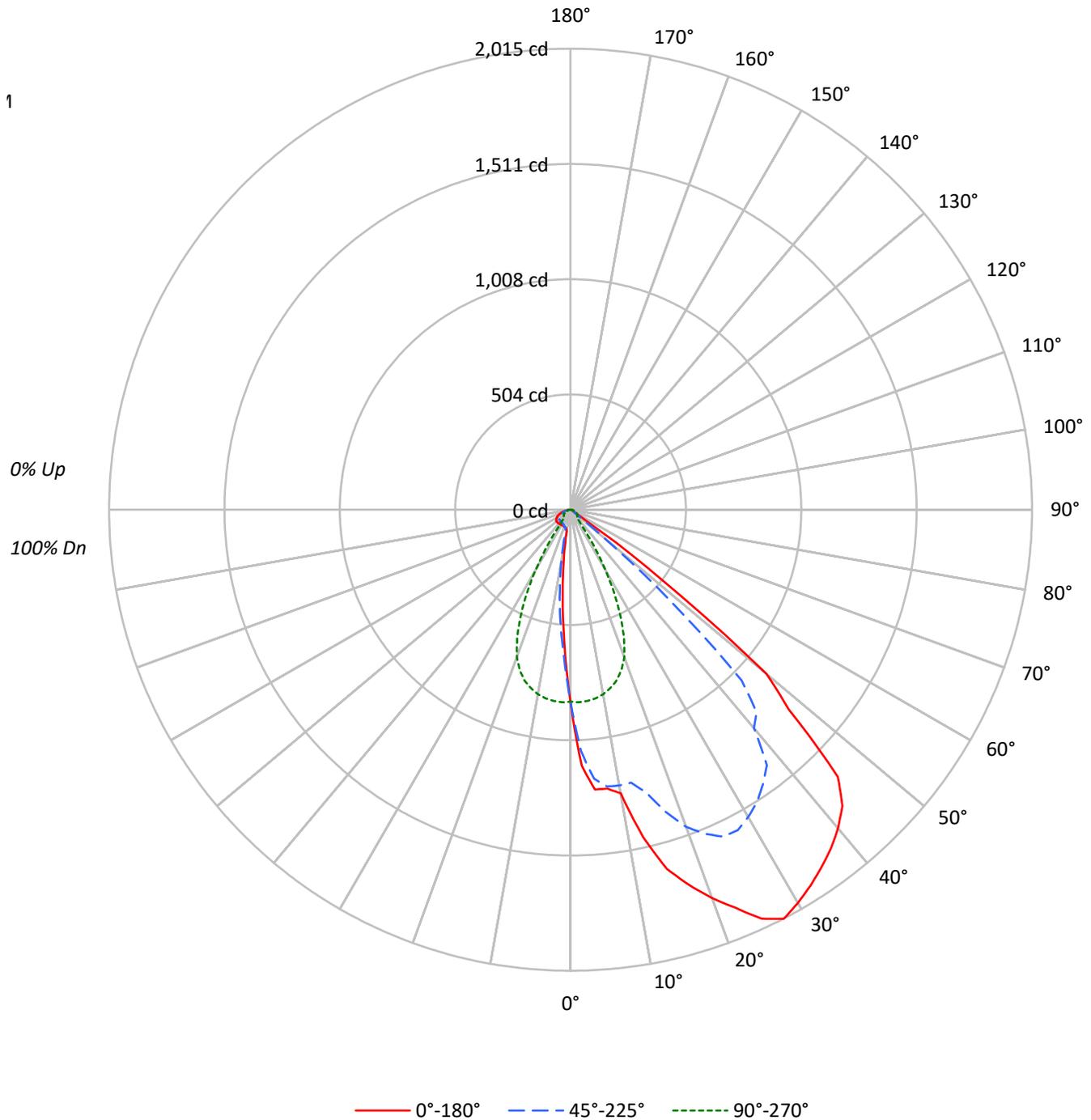
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1593.0 lumens
Efficiency: N/A
Efficacy: 55.3 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 (A_{in}): 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	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	92	92	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	82	82	82	80
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	73	73	73	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	65	65	65	64
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	62	59	59	59	59	57
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	53	53	53	51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	48	48	48	46
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	43	43	43	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	40	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	36	36	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	144443	144443	144443	144443	144443
5°	212176	204051	144995	86561	67804
10°	220016	214000	143191	41411	16753
15°	289734	228186	137931	14817	14496
20°	330959	270331	125562	14241	14570
25°	374752	299520	98586	13739	14423
30°	394689	308421	61111	13662	15452
35°	401316	307820	20141	14065	16336
40°	408409	279992	9757	15041	17873
45°	401946	257102	10132	15856	19363
50°	298823	47451	10181	17442	21301
55°	23871	6516	10869	18466	22790
60°	4994	6854	10574	18669	23663
65°	5175	6642	10310	18420	24288
70°	4532	6395	10021	17272	23667
75°	3593	5989	8451	16835	22824
80°	3570	5356	8926	16166	21522
85°	3557	7114	10671	14227	17784

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 406793 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.3	4.8
10°-20°	214.7	13.5
20°-30°	360.4	22.6
30°-40°	433.4	27.2
40°-50°	343.6	21.6
50°-60°	109.9	6.9
60°-70°	30.7	1.9
70°-80°	18.3	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°	651.4	40.9
0°-40°	1084.8	68.1
0°-60°	1538.2	96.6
0°-90°	1593.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1593.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	839	839	839	839	839	
5°	1227	1180	839	501	392	115
15°	1625	1280	774	83	81	457
25°	1972	1576	519	72	76	902
35°	1909	1464	96	67	78	1196
45°	1650	1056	42	65	80	1185
55°	80	22	36	62	76	249
65°	13	16	25	45	60	12
75°	5	9	13	25	34	6
85°	2	4	5	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°	838.7	838.7	838.7	838.7	838.7	838.7	838.7	838.7	838.7	838.7	838.7
2.5°	1118.9	1126.1	1126.1	1117.1	1120.7	1106.2	1095.4	1079.1	1075.5	1055.6	1030.3
5°	1227.3	1223.7	1223.7	1216.5	1220.1	1214.7	1209.3	1205.6	1194.8	1180.3	1165.9
7.5°	1229.1	1232.8	1234.6	1232.8	1240.0	1234.6	1234.6	1234.6	1227.3	1220.1	1205.6
10°	1258.1	1252.6	1247.2	1234.6	1227.3	1221.9	1221.9	1223.7	1227.3	1223.7	1214.7
12.5°	1465.9	1446.0	1437.0	1406.3	1382.8	1343.0	1297.8	1263.5	1232.8	1221.9	1214.7
15°	1625.0	1621.4	1603.3	1574.4	1545.5	1498.5	1446.0	1393.6	1337.6	1279.8	1238.2
17.5°	1719.0	1711.8	1693.7	1663.0	1628.6	1585.2	1543.7	1503.9	1449.7	1384.6	1317.7
20°	1805.8	1789.5	1766.0	1729.8	1695.5	1653.9	1608.7	1570.8	1525.6	1475.0	1397.2
22.5°	1883.5	1869.0	1831.1	1782.3	1747.9	1708.1	1668.4	1632.2	1590.7	1532.8	1462.3
25°	1972.1	1939.5	1878.1	1814.8	1773.2	1740.7	1711.8	1682.8	1639.5	1576.2	1493.0
27.5°	2015.4	1970.2	1903.4	1840.1	1800.3	1766.0	1735.3	1706.3	1657.5	1579.8	1484.0
30°	1984.7	1959.4	1912.4	1863.6	1831.1	1798.5	1762.4	1719.0	1641.3	1550.9	1462.3
32.5°	1948.6	1935.9	1914.2	1885.3	1865.4	1832.9	1782.3	1711.8	1603.3	1514.7	1418.9
35°	1908.8	1903.4	1896.1	1883.5	1870.8	1840.1	1776.8	1673.8	1565.3	1464.1	1371.9
37.5°	1867.2	1861.8	1867.2	1865.4	1854.6	1814.8	1719.0	1623.2	1511.1	1408.1	1229.1
40°	1816.6	1813.0	1822.0	1831.1	1818.4	1766.0	1663.0	1547.3	1447.9	1245.4	1184.0
42.5°	1757.0	1755.1	1771.4	1778.6	1760.6	1682.8	1561.7	1476.8	1267.1	1202.0	1057.4
45°	1650.3	1653.9	1661.1	1670.2	1659.3	1574.4	1464.1	1308.7	1216.5	1055.6	601.9
47.5°	1292.4	1296.0	1332.2	1408.1	1460.5	1431.6	1337.6	1221.9	1088.2	603.7	189.8
50°	1115.3	1111.7	1113.5	1131.5	1173.1	1212.9	1184.0	1120.7	648.9	177.1	23.5
52.5°	489.8	544.1	601.9	764.6	869.4	979.7	1001.4	701.3	211.5	23.5	23.5
55°	79.5	83.1	104.8	153.6	276.6	417.5	506.1	235.0	21.7	21.7	21.7
57.5°	16.3	16.3	16.3	18.1	27.1	57.8	66.9	19.9	19.9	19.9	21.7
60°	14.5	14.5	14.5	14.5	16.3	16.3	16.3	18.1	18.1	19.9	19.9
62.5°	14.5	14.5	14.5	14.5	14.5	14.5	16.3	16.3	18.1	18.1	19.9
65°	12.7	12.7	12.7	12.7	14.5	14.5	14.5	14.5	16.3	16.3	18.1
67.5°	10.8	10.8	10.8	10.8	12.7	12.7	12.7	14.5	14.5	14.5	16.3
70°	9.0	9.0	9.0	9.0	10.8	10.8	10.8	10.8	12.7	12.7	12.7
72.5°	7.2	7.2	7.2	7.2	9.0	9.0	9.0	9.0	10.8	10.8	10.8
75°	5.4	5.4	7.2	7.2	7.2	7.2	7.2	7.2	9.0	9.0	9.0
77.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	7.2	7.2	7.2	7.2
80°	3.6	3.6	3.6	3.6	3.6	3.6	5.4	5.4	5.4	5.4	5.4
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°	838.7	838.7	838.7	838.7	838.7	838.7	838.7	838.7
2.5°	1014.0	988.7	954.4	842.3	739.3	645.3	598.3	592.9
5°	1142.4	1118.9	1061.0	838.7	641.7	500.7	415.7	392.2
7.5°	1191.2	1171.3	1120.7	831.5	549.5	359.7	263.9	227.8
10°	1203.8	1191.2	1147.8	818.8	453.7	236.8	124.7	95.8
12.5°	1209.3	1200.2	1158.6	798.9	357.9	122.9	85.0	85.0
15°	1218.3	1209.3	1169.5	773.6	263.9	83.1	81.3	81.3
17.5°	1258.1	1229.1	1184.0	735.7	173.5	79.5	79.5	79.5
20°	1323.1	1259.9	1191.2	685.1	108.5	77.7	77.7	79.5
22.5°	1377.4	1292.4	1189.4	609.1	79.5	74.1	75.9	77.7
25°	1400.9	1306.9	1173.1	518.8	68.7	72.3	75.9	75.9
27.5°	1397.2	1312.3	1158.6	415.7	65.1	70.5	74.1	77.7
30°	1377.4	1297.8	1126.1	307.3	61.5	68.7	74.1	77.7
32.5°	1343.0	1241.8	1061.0	198.8	59.6	68.7	74.1	77.7
35°	1230.9	1151.4	967.0	95.8	57.8	66.9	75.9	77.7
37.5°	1165.9	1055.6	737.5	47.0	56.0	66.9	75.9	77.7
40°	1061.0	788.1	332.6	43.4	56.0	66.9	75.9	79.5
42.5°	667.0	323.6	54.2	41.6	54.2	66.9	75.9	79.5
45°	244.0	43.4	28.9	41.6	54.2	65.1	75.9	79.5
47.5°	25.3	25.3	27.1	39.8	52.4	65.1	75.9	79.5
50°	23.5	25.3	27.1	38.0	50.6	65.1	74.1	79.5
52.5°	23.5	25.3	27.1	38.0	48.8	63.3	74.1	79.5
55°	23.5	25.3	25.3	36.2	47.0	61.5	72.3	75.9
57.5°	21.7	23.5	25.3	34.3	45.2	57.8	70.5	74.1
60°	21.7	23.5	25.3	30.7	43.4	54.2	66.9	68.7
62.5°	19.9	21.7	23.5	28.9	39.8	50.6	61.5	65.1
65°	19.9	19.9	21.7	25.3	36.2	45.2	56.0	59.6
67.5°	16.3	18.1	18.1	21.7	30.7	39.8	50.6	54.2
70°	14.5	14.5	16.3	19.9	27.1	34.3	43.4	47.0
72.5°	12.7	12.7	12.7	16.3	23.5	30.7	38.0	41.6
75°	10.8	10.8	10.8	12.7	19.9	25.3	32.5	34.3
77.5°	9.0	9.0	9.0	10.8	16.3	21.7	25.3	28.9
80°	7.2	7.2	7.2	9.0	12.7	16.3	19.9	21.7
82.5°	5.4	5.4	5.4	7.2	9.0	10.8	14.5	14.5
85°	3.6	3.6	3.6	5.4	5.4	7.2	9.0	9.0
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)