

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: P1313085

Luminaire Tested: LDSQA3D24R709050D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313085
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: LDSQA3D24R709050D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

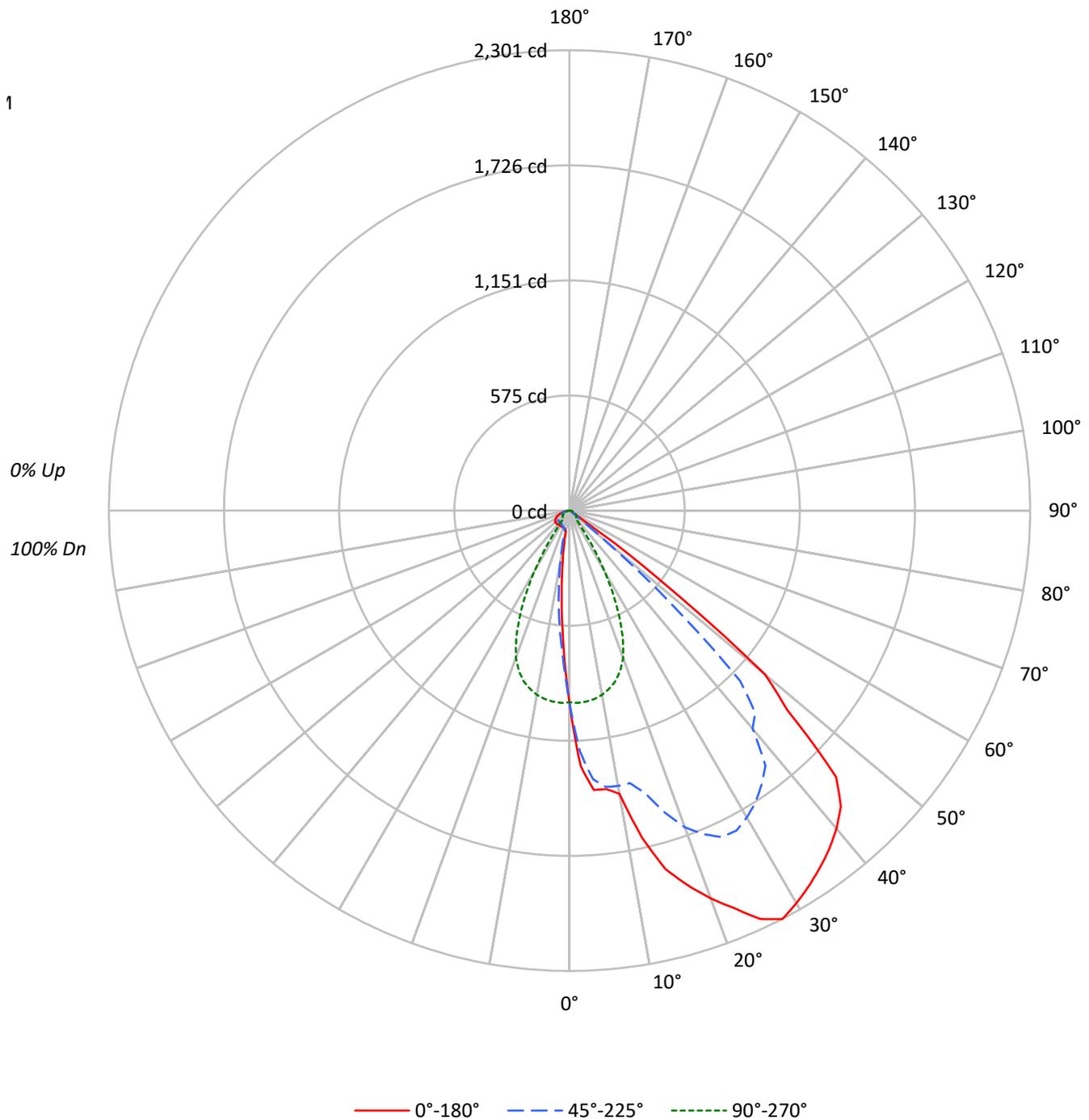
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1819.0 lumens
Efficiency: N/A
Efficacy: 63.2 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 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°	164938	164938	164938	164938	164938
5°	242292	233008	165568	98836	77433
10°	251214	244359	163512	47287	19132
15°	330832	260547	157508	16920	16564
20°	377896	308673	143376	16275	16641
25°	427902	342010	112572	15696	16475
30°	450689	352171	69782	15591	17659
35°	458250	351488	23001	16063	18670
40°	466346	319718	11129	17176	20414
45°	458964	293587	11569	18096	22115
50°	341210	54202	11601	19907	24328
55°	27264	7446	12401	21078	26033
60°	5683	7819	12090	21321	27005
65°	5868	7580	11777	21028	27752
70°	5187	7251	11430	19739	27040
75°	4126	6854	9582	19231	26084
80°	4066	6149	10215	18447	24596
85°	4150	8102	12251	16401	20353

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 464493 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.2	4.8
10°-20°	245.1	13.5
20°-30°	411.5	22.6
30°-40°	494.9	27.2
40°-50°	392.3	21.6
50°-60°	125.5	6.9
60°-70°	35.1	1.9
70°-80°	20.9	1.1
80°-90°	6.6	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°	743.8	40.9
0°-40°	1238.7	68.1
0°-60°	1756.5	96.6
0°-90°	1819.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1819.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	958	958	958	958	958	
5°	1402	1348	958	572	448	132
15°	1856	1461	883	95	93	522
25°	2252	1800	592	83	87	1029
35°	2180	1672	109	76	89	1365
45°	1884	1205	48	74	91	1354
55°	91	25	41	70	87	284
65°	14	19	29	52	68	14
75°	6	10	14	29	39	7
85°	2	4	6	8	10	2
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°	957.7	957.7	957.7	957.7	957.7	957.7	957.7	957.7	957.7	957.7	957.7
2.5°	1277.6	1285.9	1285.9	1275.6	1279.7	1263.2	1250.8	1232.2	1228.1	1205.4	1176.5
5°	1401.5	1397.3	1397.3	1389.1	1393.2	1387.0	1380.8	1376.7	1364.3	1347.8	1331.3
7.5°	1403.5	1407.6	1409.7	1407.6	1415.9	1409.7	1409.7	1409.7	1401.5	1393.2	1376.7
10°	1436.5	1430.4	1424.2	1409.7	1401.5	1395.3	1395.3	1397.3	1401.5	1397.3	1387.0
12.5°	1673.9	1651.2	1640.9	1605.8	1579.0	1533.6	1482.0	1442.7	1407.6	1395.3	1387.0
15°	1855.5	1851.4	1830.8	1797.7	1764.7	1711.1	1651.2	1591.3	1527.4	1461.3	1413.8
17.5°	1962.9	1954.6	1934.0	1898.9	1859.7	1810.1	1762.7	1717.2	1655.3	1581.0	1504.7
20°	2061.9	2043.4	2016.5	1975.2	1936.0	1888.6	1837.0	1793.6	1742.0	1684.2	1595.5
22.5°	2150.7	2134.2	2090.8	2035.1	1995.9	1950.5	1905.1	1863.8	1816.3	1750.3	1669.8
25°	2251.8	2214.7	2144.5	2072.3	2024.8	1987.6	1954.6	1921.6	1872.0	1799.8	1704.9
27.5°	2301.4	2249.8	2173.4	2101.2	2055.7	2016.5	1981.4	1948.4	1892.7	1803.9	1694.5
30°	2266.3	2237.4	2183.7	2128.0	2090.8	2053.7	2012.4	1962.9	1874.1	1770.9	1669.8
32.5°	2225.0	2210.5	2185.8	2152.8	2130.1	2092.9	2035.1	1954.6	1830.8	1729.6	1620.2
35°	2179.6	2173.4	2165.1	2150.7	2136.2	2101.2	2028.9	1911.3	1787.4	1671.8	1566.6
37.5°	2132.1	2125.9	2132.1	2130.1	2117.7	2072.3	1962.9	1853.5	1725.5	1607.9	1403.5
40°	2074.3	2070.2	2080.5	2090.8	2076.4	2016.5	1898.9	1766.8	1653.3	1422.1	1351.9
42.5°	2006.2	2004.1	2022.7	2031.0	2010.3	1921.6	1783.3	1686.3	1446.9	1372.6	1207.4
45°	1884.4	1888.6	1896.8	1907.1	1894.8	1797.7	1671.8	1494.3	1389.1	1205.4	687.3
47.5°	1475.8	1479.9	1521.2	1607.9	1667.7	1634.7	1527.4	1395.3	1242.5	689.4	216.7
50°	1273.5	1269.4	1271.4	1292.1	1339.5	1384.9	1351.9	1279.7	741.0	202.3	26.8
52.5°	559.3	621.3	687.3	873.1	992.8	1118.7	1143.5	800.8	241.5	26.8	26.8
55°	90.8	94.9	119.7	175.4	315.8	476.8	577.9	268.3	24.8	24.8	24.8
57.5°	18.6	18.6	18.6	20.6	31.0	66.0	76.4	22.7	22.7	22.7	24.8
60°	16.5	16.5	16.5	16.5	18.6	18.6	18.6	20.6	20.6	22.7	22.7
62.5°	16.5	16.5	16.5	16.5	16.5	16.5	18.6	18.6	20.6	20.6	22.7
65°	14.4	14.4	14.4	14.4	16.5	16.5	16.5	16.5	18.6	18.6	20.6
67.5°	12.4	12.4	12.4	12.4	14.4	14.4	14.4	16.5	16.5	16.5	18.6
70°	10.3	10.3	10.3	10.3	12.4	12.4	12.4	12.4	14.4	14.4	14.4
72.5°	8.3	8.3	8.3	8.3	10.3	10.3	10.3	10.3	12.4	12.4	12.4
75°	6.2	6.2	8.3	8.3	8.3	8.3	8.3	8.3	10.3	10.3	10.3
77.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	8.3	8.3	8.3	8.3
80°	4.1	4.1	4.1	4.1	4.1	4.1	6.2	6.2	6.2	6.2	6.2
82.5°	2.1	2.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.1	4.1	4.1	4.1
87.5°	0.0	0.0	0.0	0.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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°	957.7	957.7	957.7	957.7	957.7	957.7	957.7	957.7
2.5°	1157.9	1129.0	1089.8	961.8	844.2	736.8	683.2	677.0
5°	1304.4	1277.6	1211.6	957.7	732.7	571.7	474.7	447.9
7.5°	1360.2	1337.5	1279.7	949.4	627.5	410.7	301.3	260.1
10°	1374.6	1360.2	1310.6	935.0	518.1	270.4	142.4	109.4
12.5°	1380.8	1370.5	1323.0	912.3	408.7	140.4	97.0	97.0
15°	1391.1	1380.8	1335.4	883.4	301.3	94.9	92.9	92.9
17.5°	1436.5	1403.5	1351.9	840.0	198.1	90.8	90.8	90.8
20°	1510.8	1438.6	1360.2	782.3	123.8	88.8	88.8	90.8
22.5°	1572.8	1475.8	1358.1	695.6	90.8	84.6	86.7	88.8
25°	1599.6	1492.3	1339.5	592.4	78.4	82.6	86.7	86.7
27.5°	1595.5	1498.5	1323.0	474.7	74.3	80.5	84.6	88.8
30°	1572.8	1482.0	1285.9	350.9	70.2	78.4	84.6	88.8
32.5°	1533.6	1418.0	1211.6	227.0	68.1	78.4	84.6	88.8
35°	1405.6	1314.8	1104.2	109.4	66.0	76.4	86.7	88.8
37.5°	1331.3	1205.4	842.1	53.7	64.0	76.4	86.7	88.8
40°	1211.6	899.9	379.8	49.5	64.0	76.4	86.7	90.8
42.5°	761.6	369.5	61.9	47.5	61.9	76.4	86.7	90.8
45°	278.6	49.5	33.0	47.5	61.9	74.3	86.7	90.8
47.5°	28.9	28.9	31.0	45.4	59.9	74.3	86.7	90.8
50°	26.8	28.9	31.0	43.3	57.8	74.3	84.6	90.8
52.5°	26.8	28.9	31.0	43.3	55.7	72.2	84.6	90.8
55°	26.8	28.9	28.9	41.3	53.7	70.2	82.6	86.7
57.5°	24.8	26.8	28.9	39.2	51.6	66.0	80.5	84.6
60°	24.8	26.8	28.9	35.1	49.5	61.9	76.4	78.4
62.5°	22.7	24.8	26.8	33.0	45.4	57.8	70.2	74.3
65°	22.7	22.7	24.8	28.9	41.3	51.6	64.0	68.1
67.5°	18.6	20.6	20.6	24.8	35.1	45.4	57.8	61.9
70°	16.5	16.5	18.6	22.7	31.0	39.2	49.5	53.7
72.5°	14.4	14.4	14.4	18.6	26.8	35.1	43.3	47.5
75°	12.4	12.4	12.4	14.4	22.7	28.9	37.2	39.2
77.5°	10.3	10.3	10.3	12.4	18.6	24.8	28.9	33.0
80°	8.3	8.3	8.3	10.3	14.4	18.6	22.7	24.8
82.5°	6.2	6.2	6.2	8.3	10.3	12.4	16.5	16.5
85°	4.1	4.1	4.1	6.2	6.2	8.3	10.3	10.3
87.5°	2.1	2.1	2.1	4.1	4.1	4.1	4.1	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)