

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: P1318557

Luminaire Tested: LDSQA3D17R559830DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318557
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-66)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R559830DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R55 optic, 3000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

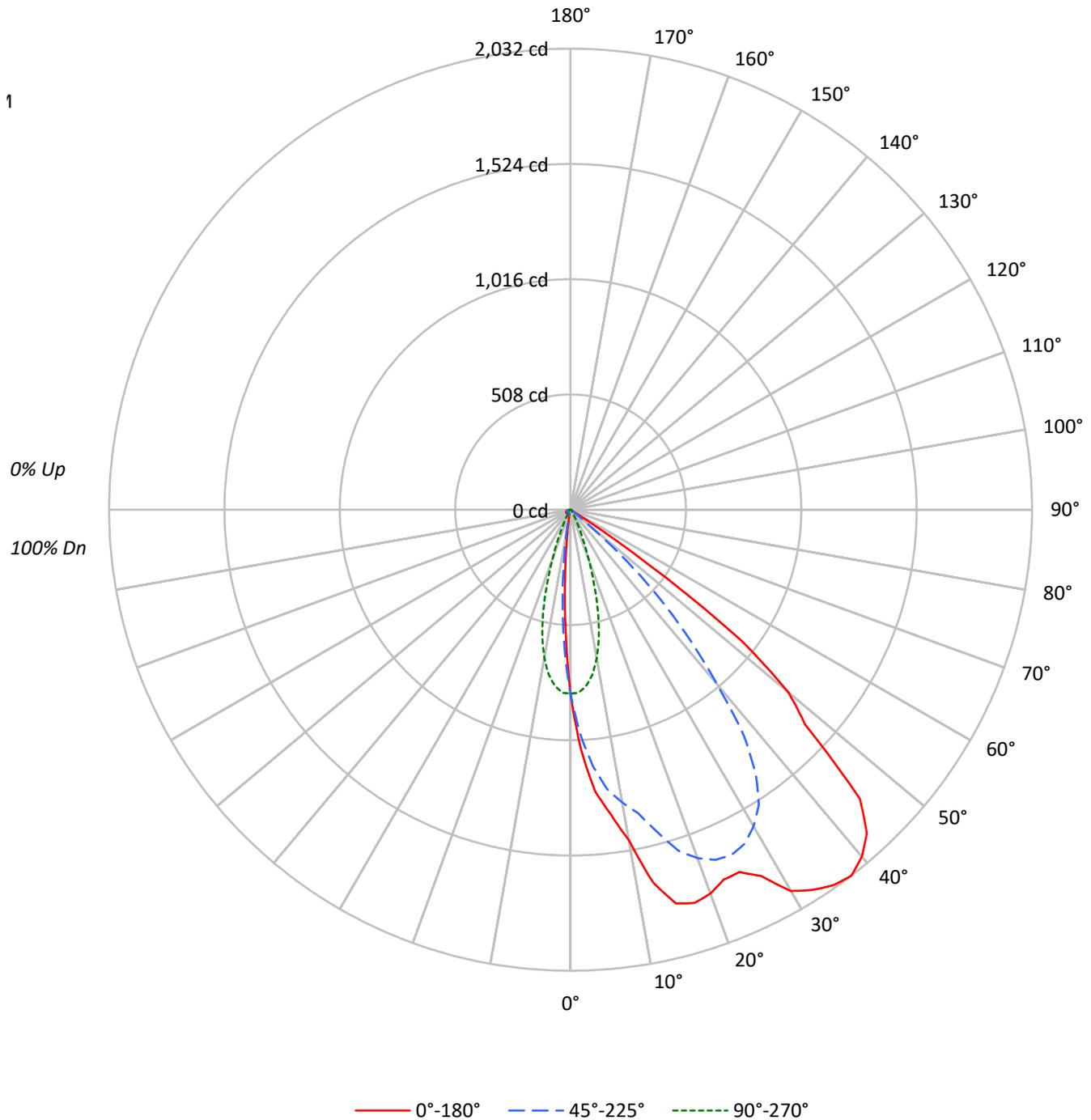
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1353.0 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Spacing Criteria (0/90/45): 1.79 / 0.55 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	95	94	93	91	
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	88	86	83	81	
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	81	78	75	73	
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	75	71	67	65	
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	69	64	61	59	
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	63	59	55	53	
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	59	54	50	48	
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	54	49	45	44	
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	50	45	41	40	
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	47	42	38	37	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	139655	139655	139655	139655	139655
5°	215375	196064	134916	69291	45519
10°	258769	229162	116120	17470	6995
15°	320402	261724	82980	4814	3780
20°	329988	299399	42868	3226	3226
25°	334770	318922	17197	2907	3344
30°	385879	320432	7477	3043	3500
35°	424758	298737	3217	3217	3953
40°	448652	224866	1844	3710	4227
45°	438821	137392	1729	4019	5163
50°	335664	29285	1902	4716	5975
55°	123167	1051	2132	5285	6696
60°	1206	1206	2446	6062	7681
65°	1426	1426	2893	6235	8150
70°	1209	1762	2971	7100	9467
75°	799	1597	3127	7852	10979
80°	1190	2380	3471	8133	11703
85°	0	2371	4742	9287	11659

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 438821 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.4	5.3
10°-20°	204.4	15.1
20°-30°	313.6	23.2
30°-40°	365.5	27.0
40°-50°	292.0	21.6
50°-60°	86.4	6.4
60°-70°	9.3	0.7
70°-80°	7.3	0.5
80°-90°	3.1	0.2
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°	589.5	43.6
0°-40°	954.9	70.6
0°-60°	1333.4	98.5
0°-90°	1353.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1353.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	811	811	811	811	811	
5°	1246	1134	780	401	263	124
15°	1797	1468	465	27	21	496
25°	1762	1678	90	15	18	837
35°	2020	1421	15	15	19	1258
45°	1802	564	7	16	21	1299
55°	410	4	7	18	22	435
65°	4	4	7	15	20	3
75°	1	2	5	12	16	2
85°	0	1	2	5	6	0
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°	810.9	810.9	810.9	810.9	810.9	810.9	810.9	810.9	810.9	810.9	810.9
2.5°	1057.8	1057.8	1054.2	1055.4	1053.0	1040.1	1037.8	1021.3	1007.2	991.9	979.0
5°	1245.8	1248.1	1244.6	1237.6	1228.2	1218.8	1198.8	1183.5	1163.5	1134.1	1107.1
7.5°	1352.7	1350.4	1344.5	1342.2	1336.3	1325.7	1311.6	1295.2	1271.7	1242.3	1210.5
10°	1479.7	1459.7	1453.8	1444.4	1425.6	1404.5	1379.8	1357.4	1337.5	1310.4	1276.4
12.5°	1684.2	1680.6	1657.1	1639.5	1613.7	1566.6	1524.3	1475.0	1416.2	1369.2	1324.5
15°	1797.0	1799.4	1788.8	1774.7	1758.2	1719.4	1677.1	1619.5	1550.2	1467.9	1395.1
17.5°	1817.0	1820.5	1814.6	1808.8	1804.1	1781.7	1755.9	1714.7	1651.3	1574.9	1466.7
20°	1800.5	1807.6	1808.8	1815.8	1825.2	1815.8	1794.6	1766.4	1713.6	1633.6	1530.2
22.5°	1764.1	1777.0	1786.4	1811.1	1835.8	1835.8	1822.9	1800.5	1748.8	1670.1	1564.3
25°	1761.7	1764.1	1767.6	1807.6	1846.4	1854.6	1842.8	1819.3	1762.9	1678.3	1563.1
27.5°	1820.5	1805.2	1781.7	1821.7	1867.5	1874.6	1858.1	1826.4	1759.4	1659.5	1523.2
30°	1940.4	1906.3	1856.9	1886.3	1918.1	1909.8	1876.9	1826.4	1735.9	1611.3	1447.9
32.5°	1986.2	1967.4	1949.8	1981.5	1987.4	1953.3	1894.5	1819.3	1698.3	1543.1	1324.5
35°	2020.3	2021.5	2014.4	2020.3	1992.1	1943.9	1879.3	1780.5	1627.8	1420.9	1161.2
37.5°	2032.1	2034.4	2019.1	1998.0	1955.7	1900.4	1822.9	1710.0	1510.2	1252.8	914.4
40°	1995.6	1988.6	1963.9	1934.5	1888.7	1832.3	1747.6	1579.6	1335.1	1000.2	713.4
42.5°	1931.0	1919.2	1889.8	1854.6	1806.4	1734.7	1599.6	1396.2	1084.8	780.4	499.5
45°	1801.7	1793.5	1757.0	1731.2	1673.6	1580.7	1406.8	1150.6	839.1	564.1	289.1
47.5°	1399.8	1400.9	1429.1	1442.1	1422.1	1348.0	1143.5	874.4	612.3	336.1	97.5
50°	1252.8	1247.0	1218.8	1180.0	1115.3	1004.9	839.1	618.2	362.0	109.3	14.1
52.5°	950.8	950.8	936.7	916.7	848.6	741.6	567.7	342.0	126.9	18.8	3.5
55°	410.2	389.0	400.8	423.1	405.5	352.6	265.6	102.2	22.3	3.5	3.5
57.5°	5.9	14.1	21.2	34.1	45.8	55.2	29.4	10.6	3.5	3.5	3.5
60°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
62.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
65°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
67.5°	2.4	2.4	2.4	3.5	2.4	3.5	3.5	3.5	3.5	3.5	3.5
70°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	3.5	3.5
72.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
75°	1.2	1.2	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4	2.4	2.4
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4	2.4
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.4	2.4
85°	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2
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°	810.9	810.9	810.9	810.9	810.9	810.9	810.9	810.9
2.5°	960.2	940.2	907.3	807.4	704.0	608.8	540.6	514.8
5°	1076.6	1040.1	984.9	780.4	574.7	400.8	302.0	263.3
7.5°	1168.2	1121.2	1041.3	733.4	421.9	213.9	128.1	101.1
10°	1229.3	1177.6	1073.0	664.0	279.7	99.9	48.2	40.0
12.5°	1274.0	1209.4	1084.8	574.7	164.5	45.8	25.9	23.5
15°	1306.9	1223.5	1070.7	465.4	90.5	27.0	21.2	21.2
17.5°	1352.7	1230.5	1036.6	343.2	51.7	20.0	20.0	20.0
20°	1388.0	1230.5	972.0	233.9	31.7	17.6	17.6	17.6
22.5°	1405.6	1211.7	893.2	148.1	22.3	16.5	17.6	17.6
25°	1388.0	1165.9	792.1	90.5	17.6	15.3	16.5	17.6
27.5°	1323.4	1074.2	657.0	57.6	14.1	15.3	16.5	17.6
30°	1215.2	941.4	504.2	37.6	12.9	15.3	16.5	17.6
32.5°	1062.5	744.0	326.7	24.7	11.8	15.3	16.5	17.6
35°	829.7	526.5	197.4	15.3	11.8	15.3	17.6	18.8
37.5°	621.7	351.4	107.0	9.4	11.8	15.3	17.6	18.8
40°	431.3	204.5	45.8	8.2	11.8	16.5	18.8	18.8
42.5°	250.3	81.1	11.8	7.1	11.8	16.5	18.8	20.0
45°	91.7	16.5	3.5	7.1	12.9	16.5	18.8	21.2
47.5°	12.9	3.5	3.5	7.1	12.9	16.5	20.0	21.2
50°	3.5	3.5	3.5	7.1	12.9	17.6	21.2	22.3
52.5°	3.5	3.5	3.5	7.1	12.9	17.6	21.2	22.3
55°	3.5	3.5	3.5	7.1	12.9	17.6	21.2	22.3
57.5°	3.5	3.5	3.5	7.1	12.9	17.6	21.2	22.3
60°	3.5	3.5	3.5	7.1	11.8	17.6	21.2	22.3
62.5°	3.5	3.5	3.5	7.1	11.8	16.5	20.0	21.2
65°	3.5	3.5	3.5	7.1	10.6	15.3	20.0	20.0
67.5°	3.5	3.5	3.5	5.9	10.6	15.3	18.8	20.0
70°	3.5	3.5	3.5	5.9	9.4	14.1	17.6	18.8
72.5°	3.5	3.5	3.5	4.7	8.2	12.9	16.5	17.6
75°	2.4	3.5	3.5	4.7	8.2	11.8	15.3	16.5
77.5°	2.4	3.5	3.5	3.5	7.1	9.4	12.9	14.1
80°	2.4	2.4	3.5	3.5	5.9	8.2	10.6	11.8
82.5°	2.4	2.4	2.4	3.5	4.7	5.9	8.2	8.2
85°	2.4	2.4	2.4	2.4	3.5	4.7	5.9	5.9
87.5°	1.2	1.2	2.4	2.4	2.4	2.4	2.4	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)