

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: P1309772

Luminaire Tested: LDSQA3D24R709030D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309772
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: LDSQA3D24R709030D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

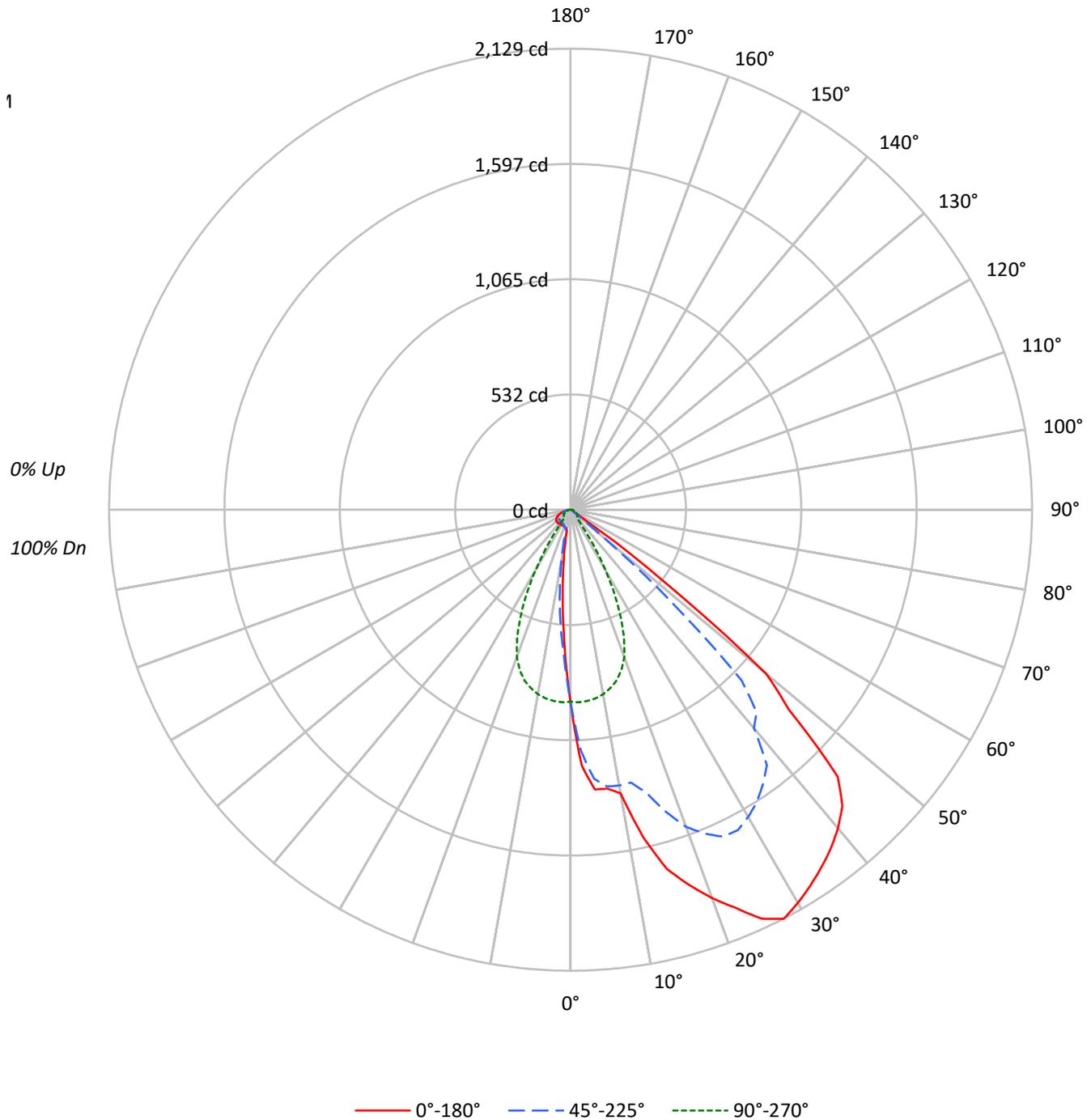
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1683.0 lumens
Efficiency: N/A
Efficacy: 58.4 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 (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	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	87	84	82	80
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	80	76	73	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	73	69	65	64
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	62	59	67	62	59	57
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	62	57	53	51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	57	52	48	46
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	53	47	43	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	49	44	40	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	45	40	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	152606	152606	152606	152606	152606
5°	224174	215582	153189	91454	71642
10°	232432	226102	151288	43755	17698
15°	306102	241077	145723	15655	15316
20°	349653	285598	132655	15047	15395
25°	395921	316432	104154	14518	15240
30°	416981	325841	64552	14438	16327
35°	423980	325207	21277	14864	17261
40°	431476	295819	10297	15895	18885
45°	424646	271642	10692	16733	20459
50°	315703	50130	10744	18407	22506
55°	25222	6876	11470	19487	24081
60°	5270	7233	11194	19737	25007
65°	5461	7009	10881	19438	25673
70°	4784	6748	10574	18279	25026
75°	3793	6321	8917	17767	24155
80°	3769	5653	9422	17059	22712
85°	3754	7509	11263	15018	18772

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 429761 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.7	4.8
10°-20°	226.8	13.5
20°-30°	380.7	22.6
30°-40°	457.9	27.2
40°-50°	363.0	21.6
50°-60°	116.1	6.9
60°-70°	32.4	1.9
70°-80°	19.3	1.1
80°-90°	6.1	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°	688.2	40.9
0°-40°	1146.0	68.1
0°-60°	1625.1	96.6
0°-90°	1683.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1683.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	886	886	886	886	886	
5°	1297	1247	886	529	414	122
15°	1717	1352	817	88	86	483
25°	2084	1665	548	76	80	953
35°	2017	1547	101	71	82	1263
45°	1744	1115	44	69	84	1252
55°	84	23	38	65	80	263
65°	13	17	27	48	63	13
75°	6	10	13	27	36	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°	886.1	886.1	886.1	886.1	886.1	886.1	886.1	886.1	886.1	886.1	886.1
2.5°	1182.1	1189.7	1189.7	1180.2	1184.0	1168.7	1157.3	1140.1	1136.3	1115.3	1088.5
5°	1296.7	1292.9	1292.9	1285.2	1289.0	1283.3	1277.6	1273.8	1262.3	1247.0	1231.7
7.5°	1298.6	1302.4	1304.3	1302.4	1310.0	1304.3	1304.3	1304.3	1296.7	1289.0	1273.8
10°	1329.1	1323.4	1317.7	1304.3	1296.7	1290.9	1290.9	1292.9	1296.7	1292.9	1283.3
12.5°	1548.8	1527.7	1518.2	1485.7	1460.9	1418.9	1371.2	1334.9	1302.4	1290.9	1283.3
15°	1716.8	1713.0	1693.9	1663.3	1632.8	1583.1	1527.7	1472.4	1413.2	1352.1	1308.1
17.5°	1816.1	1808.5	1789.4	1756.9	1720.6	1674.8	1630.9	1588.9	1531.6	1462.8	1392.2
20°	1907.8	1890.6	1865.8	1827.6	1791.3	1747.4	1699.6	1659.5	1611.8	1558.3	1476.2
22.5°	1989.9	1974.6	1934.5	1882.9	1846.7	1804.7	1762.6	1724.4	1680.5	1619.4	1544.9
25°	2083.5	2049.1	1984.2	1917.3	1873.4	1839.0	1808.5	1777.9	1732.1	1665.2	1577.4
27.5°	2129.3	2081.6	2010.9	1944.1	1902.0	1865.8	1833.3	1802.7	1751.2	1669.1	1567.9
30°	2096.8	2070.1	2020.4	1968.9	1934.5	1900.1	1861.9	1816.1	1734.0	1638.5	1544.9
32.5°	2058.6	2045.3	2022.4	1991.8	1970.8	1936.4	1882.9	1808.5	1693.9	1600.3	1499.1
35°	2016.6	2010.9	2003.3	1989.9	1976.5	1944.1	1877.2	1768.4	1653.8	1546.8	1449.5
37.5°	1972.7	1967.0	1972.7	1970.8	1959.3	1917.3	1816.1	1714.9	1596.5	1487.6	1298.6
40°	1919.2	1915.4	1925.0	1934.5	1921.1	1865.8	1756.9	1634.7	1529.7	1315.8	1250.8
42.5°	1856.2	1854.3	1871.5	1879.1	1860.0	1777.9	1650.0	1560.2	1338.7	1269.9	1117.2
45°	1743.5	1747.4	1755.0	1764.5	1753.1	1663.3	1546.8	1382.6	1285.2	1115.3	635.9
47.5°	1365.4	1369.2	1407.4	1487.6	1543.0	1512.5	1413.2	1290.9	1149.6	637.8	200.5
50°	1178.3	1174.5	1176.4	1195.5	1239.4	1281.4	1250.8	1184.0	685.6	187.1	24.8
52.5°	517.5	574.8	635.9	807.8	918.6	1035.0	1058.0	741.0	223.4	24.8	24.8
55°	84.0	87.8	110.8	162.3	292.2	441.1	534.7	248.3	22.9	22.9	22.9
57.5°	17.2	17.2	17.2	19.1	28.6	61.1	70.7	21.0	21.0	21.0	22.9
60°	15.3	15.3	15.3	15.3	17.2	17.2	17.2	19.1	19.1	21.0	21.0
62.5°	15.3	15.3	15.3	15.3	15.3	15.3	17.2	17.2	19.1	19.1	21.0
65°	13.4	13.4	13.4	13.4	15.3	15.3	15.3	15.3	17.2	17.2	19.1
67.5°	11.5	11.5	11.5	11.5	13.4	13.4	13.4	15.3	15.3	15.3	17.2
70°	9.5	9.5	9.5	9.5	11.5	11.5	11.5	11.5	13.4	13.4	13.4
72.5°	7.6	7.6	7.6	7.6	9.5	9.5	9.5	9.5	11.5	11.5	11.5
75°	5.7	5.7	7.6	7.6	7.6	7.6	7.6	7.6	9.5	9.5	9.5
77.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	7.6	7.6	7.6	7.6
80°	3.8	3.8	3.8	3.8	3.8	3.8	5.7	5.7	5.7	5.7	5.7
82.5°	1.9	1.9	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
85°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	3.8	3.8	3.8	3.8
87.5°	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9	1.9	1.9	1.9
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°	886.1	886.1	886.1	886.1	886.1	886.1	886.1	886.1
2.5°	1071.3	1044.6	1008.3	889.9	781.1	681.8	632.1	626.4
5°	1206.9	1182.1	1121.0	886.1	677.9	529.0	439.2	414.4
7.5°	1258.5	1237.5	1184.0	878.5	580.5	380.0	278.8	240.6
10°	1271.8	1258.5	1212.6	865.1	479.3	250.2	131.8	101.2
12.5°	1277.6	1268.0	1224.1	844.1	378.1	129.9	89.8	89.8
15°	1287.1	1277.6	1235.6	817.3	278.8	87.8	85.9	85.9
17.5°	1329.1	1298.6	1250.8	777.2	183.3	84.0	84.0	84.0
20°	1397.9	1331.0	1258.5	723.8	114.6	82.1	82.1	84.0
22.5°	1455.2	1365.4	1256.6	643.6	84.0	78.3	80.2	82.1
25°	1480.0	1380.7	1239.4	548.1	72.6	76.4	80.2	80.2
27.5°	1476.2	1386.4	1224.1	439.2	68.7	74.5	78.3	82.1
30°	1455.2	1371.2	1189.7	324.6	64.9	72.6	78.3	82.1
32.5°	1418.9	1312.0	1121.0	210.1	63.0	72.6	78.3	82.1
35°	1300.5	1216.5	1021.7	101.2	61.1	70.7	80.2	82.1
37.5°	1231.7	1115.3	779.2	49.7	59.2	70.7	80.2	82.1
40°	1121.0	832.6	351.4	45.8	59.2	70.7	80.2	84.0
42.5°	704.7	341.8	57.3	43.9	57.3	70.7	80.2	84.0
45°	257.8	45.8	30.6	43.9	57.3	68.7	80.2	84.0
47.5°	26.7	26.7	28.6	42.0	55.4	68.7	80.2	84.0
50°	24.8	26.7	28.6	40.1	53.5	68.7	78.3	84.0
52.5°	24.8	26.7	28.6	40.1	51.6	66.8	78.3	84.0
55°	24.8	26.7	26.7	38.2	49.7	64.9	76.4	80.2
57.5°	22.9	24.8	26.7	36.3	47.7	61.1	74.5	78.3
60°	22.9	24.8	26.7	32.5	45.8	57.3	70.7	72.6
62.5°	21.0	22.9	24.8	30.6	42.0	53.5	64.9	68.7
65°	21.0	21.0	22.9	26.7	38.2	47.7	59.2	63.0
67.5°	17.2	19.1	19.1	22.9	32.5	42.0	53.5	57.3
70°	15.3	15.3	17.2	21.0	28.6	36.3	45.8	49.7
72.5°	13.4	13.4	13.4	17.2	24.8	32.5	40.1	43.9
75°	11.5	11.5	11.5	13.4	21.0	26.7	34.4	36.3
77.5°	9.5	9.5	9.5	11.5	17.2	22.9	26.7	30.6
80°	7.6	7.6	7.6	9.5	13.4	17.2	21.0	22.9
82.5°	5.7	5.7	5.7	7.6	9.5	11.5	15.3	15.3
85°	3.8	3.8	3.8	5.7	5.7	7.6	9.5	9.5
87.5°	1.9	1.9	1.9	3.8	3.8	3.8	3.8	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)