

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: P1314051

Luminaire Tested: LDSQA3D20R659727D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314051
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-68)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R659727D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R65 optic, 2700K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

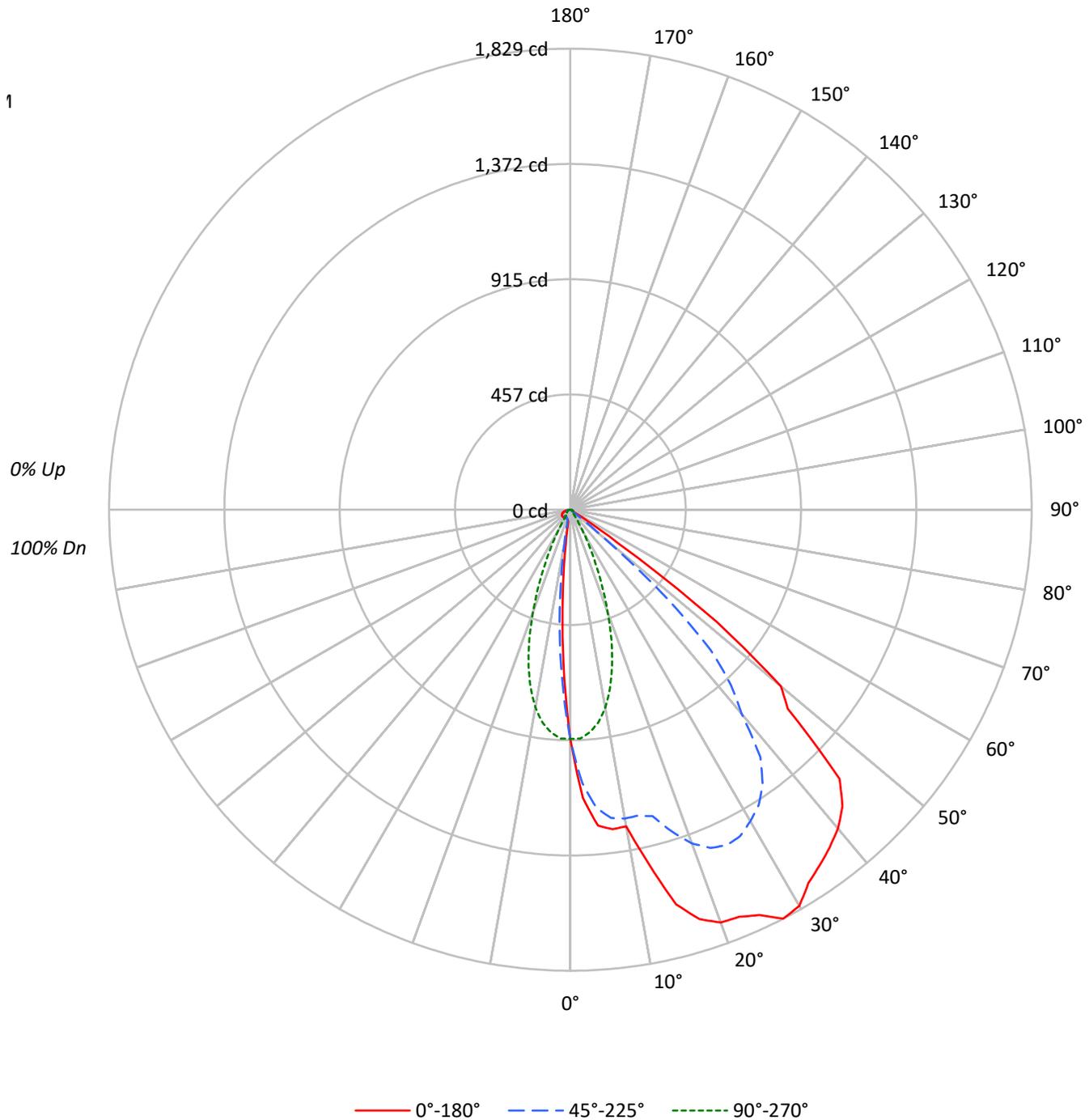
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1362.0 lumens
Efficiency: N/A
Efficacy: 47.3 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.64 / 1.22
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

TEST NUMBER: P1314051
CATALOG NUMBER: LDSQA3D20R659727D010 3LSQCA30R 1MW

Luminous Intensity Polar Plot





TEST NUMBER: P1314051

CATALOG NUMBER: LDSQA3D20R659727D010 3LSQCA30R 1MW

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	106	104	101	102	100	98	99	97	95	95	94	92	95	94	92	90
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	81	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	60	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	63	58	54	53
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	58	53	49	48
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	50	45	41	40
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	156499	156499	156499	156499	156499
5°	217536	205296	153172	84176	59212
10°	223024	217568	139361	23521	8657
15°	288950	224352	114075	7578	7310
20°	319339	258107	79377	6745	7001
25°	337012	278921	44922	6461	6993
30°	360842	283722	20264	6483	7318
35°	362147	279437	6539	6854	8031
40°	371044	237388	4451	7329	8903
45°	367483	191316	4481	7940	9645
50°	291616	45120	4555	8735	10985
55°	69270	2552	4684	9789	12311
60°	2446	2928	5373	10230	13158
65°	2893	2893	5175	10962	14426
70°	2115	2870	4985	10675	14955
75°	1863	2795	4724	11312	15038
80°	1389	2777	5653	11207	15472
85°	2766	5533	5533	11263	14030

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°
 Vertical Angle: 45°
 Luminance: 368165 cd/sqm



TEST NUMBER: P1314051

CATALOG NUMBER: LDSQA3D20R659727D010 3LSQCA30R 1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.8	5.6
10°-20°	199.7	14.7
20°-30°	313.7	23.0
30°-40°	358.9	26.3
40°-50°	288.5	21.2
50°-60°	93.8	6.9
60°-70°	16.7	1.2
70°-80°	11.0	0.8
80°-90°	3.9	0.3
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°	589.2	43.3
0°-40°	948.1	69.6
0°-60°	1330.4	97.7
0°-90°	1362.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1362.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	909	909	909	909	909	
5°	1258	1188	886	487	342	119
15°	1621	1258	640	42	41	452
25°	1774	1468	236	34	37	826
35°	1722	1329	31	33	38	1082
45°	1509	786	18	33	40	1086
55°	231	8	16	33	41	330
65°	7	7	13	27	35	6
75°	3	4	7	17	23	3
85°	1	3	3	6	7	1
90°	0	0	0	0	0	



TEST NUMBER: P1314051
 CATALOG NUMBER: LDSQA3D20R659727D010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	908.7	908.7	908.7	908.7	908.7	908.7	908.7	908.7	908.7	908.7	908.7
2.5°	1143.6	1139.4	1145.1	1135.1	1133.7	1123.8	1118.2	1115.3	1102.6	1085.6	1070.0
5°	1258.3	1241.3	1245.5	1244.1	1237.1	1232.8	1227.1	1220.1	1203.1	1187.5	1167.7
7.5°	1278.1	1263.9	1266.8	1268.2	1263.9	1262.5	1261.1	1258.3	1247.0	1232.8	1215.8
10°	1275.3	1261.1	1259.7	1255.5	1251.2	1252.6	1252.6	1252.6	1249.8	1244.1	1238.5
12.5°	1439.5	1419.6	1415.4	1385.7	1358.8	1312.1	1282.3	1254.0	1241.3	1242.7	1238.5
15°	1620.6	1619.2	1605.1	1576.7	1531.5	1489.0	1421.1	1370.1	1305.0	1258.3	1238.5
17.5°	1702.7	1701.3	1688.6	1664.5	1632.0	1592.3	1542.8	1483.3	1411.1	1339.0	1279.5
20°	1742.4	1752.3	1738.1	1718.3	1687.2	1650.4	1603.6	1549.9	1481.9	1408.3	1337.5
22.5°	1748.0	1760.8	1748.0	1733.9	1711.2	1687.2	1647.5	1592.3	1523.0	1452.2	1382.8
25°	1773.5	1777.7	1750.8	1732.4	1711.2	1694.2	1663.1	1615.0	1544.2	1467.8	1399.8
27.5°	1828.7	1810.3	1753.7	1728.2	1708.4	1692.8	1663.1	1613.6	1537.1	1459.3	1388.5
30°	1814.5	1807.5	1757.9	1733.9	1716.9	1701.3	1664.5	1600.8	1508.8	1426.7	1353.1
32.5°	1756.5	1770.7	1753.7	1745.2	1736.7	1716.9	1663.1	1576.7	1473.4	1389.9	1290.8
35°	1722.5	1739.5	1740.9	1740.9	1731.0	1701.3	1637.6	1541.4	1438.0	1329.1	1196.0
37.5°	1688.6	1702.7	1711.2	1716.9	1702.7	1660.3	1579.6	1493.2	1380.0	1237.1	1003.5
40°	1650.4	1660.3	1667.3	1670.2	1648.9	1593.7	1520.1	1422.5	1295.1	1055.9	895.9
42.5°	1596.6	1602.2	1600.8	1599.4	1576.7	1515.9	1446.5	1344.6	1092.7	941.2	747.3
45°	1508.8	1503.1	1511.6	1511.6	1481.9	1436.6	1344.6	1146.5	978.0	785.5	481.2
47.5°	1169.1	1173.4	1214.4	1280.9	1322.0	1309.2	1184.7	1003.5	822.3	515.2	159.9
50°	1088.4	1084.2	1085.6	1092.7	1096.9	1061.5	972.4	847.8	543.5	168.4	11.3
52.5°	730.3	734.6	767.1	842.2	866.2	840.7	755.8	566.2	198.2	11.3	9.9
55°	230.7	246.3	264.7	304.3	373.7	417.5	409.0	201.0	12.7	8.5	9.9
57.5°	8.5	8.5	11.3	19.8	38.2	62.3	65.1	12.7	9.9	9.9	9.9
60°	7.1	7.1	7.1	7.1	7.1	7.1	8.5	8.5	8.5	8.5	8.5
62.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	8.5	8.5	8.5	8.5
65°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	8.5
67.5°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	7.1	7.1	7.1	7.1
70°	4.2	4.2	4.2	5.7	5.7	5.7	5.7	5.7	5.7	5.7	7.1
72.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.7	5.7	5.7
75°	2.8	2.8	2.8	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
77.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.2	4.2	4.2
80°	1.4	1.4	1.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.2
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8
87.5°	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1314051
 CATALOG NUMBER: LDSQA3D20R659727D010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	908.7	908.7	908.7	908.7	908.7	908.7	908.7	908.7
2.5°	1061.5	1044.6	1010.6	908.7	802.5	696.4	629.9	612.9
5°	1145.1	1125.2	1077.1	886.0	670.9	486.9	382.2	342.5
7.5°	1196.0	1171.9	1115.3	850.7	522.3	283.1	169.8	135.9
10°	1218.7	1197.4	1133.7	796.9	377.9	134.5	59.4	49.5
12.5°	1228.6	1211.6	1140.8	726.1	246.3	59.4	43.9	42.5
15°	1232.8	1214.4	1138.0	639.8	140.1	42.5	41.0	41.0
17.5°	1237.1	1215.8	1121.0	540.7	77.8	39.6	38.2	39.6
20°	1271.0	1210.2	1091.3	433.1	51.0	36.8	36.8	38.2
22.5°	1305.0	1208.7	1038.9	331.2	39.6	35.4	36.8	36.8
25°	1316.3	1194.6	972.4	236.4	34.0	34.0	35.4	36.8
27.5°	1295.1	1153.5	883.2	159.9	29.7	34.0	35.4	36.8
30°	1245.5	1084.2	775.6	101.9	28.3	32.6	35.4	36.8
32.5°	1153.5	946.9	655.3	60.9	26.9	32.6	36.8	36.8
35°	969.5	794.0	519.4	31.1	26.9	32.6	36.8	38.2
37.5°	847.8	662.4	362.3	21.2	26.9	32.6	36.8	38.2
40°	703.5	478.4	151.4	19.8	26.9	32.6	36.8	39.6
42.5°	486.9	208.1	24.1	18.4	25.5	32.6	38.2	39.6
45°	175.5	26.9	11.3	18.4	25.5	32.6	38.2	39.6
47.5°	15.6	9.9	11.3	18.4	25.5	32.6	38.2	41.0
50°	9.9	9.9	9.9	17.0	25.5	32.6	38.2	41.0
52.5°	9.9	9.9	9.9	17.0	24.1	32.6	39.6	41.0
55°	9.9	9.9	9.9	15.6	24.1	32.6	38.2	41.0
57.5°	9.9	9.9	11.3	15.6	24.1	31.1	38.2	39.6
60°	9.9	9.9	9.9	15.6	22.6	29.7	36.8	38.2
62.5°	8.5	9.9	9.9	14.2	21.2	28.3	35.4	36.8
65°	8.5	8.5	9.9	12.7	19.8	26.9	32.6	35.4
67.5°	7.1	8.5	8.5	11.3	17.0	24.1	29.7	32.6
70°	7.1	7.1	7.1	9.9	15.6	21.2	28.3	29.7
72.5°	5.7	7.1	7.1	8.5	12.7	18.4	24.1	26.9
75°	5.7	5.7	5.7	7.1	11.3	17.0	21.2	22.6
77.5°	4.2	4.2	5.7	5.7	9.9	12.7	18.4	19.8
80°	4.2	4.2	4.2	5.7	7.1	11.3	14.2	15.6
82.5°	2.8	2.8	2.8	4.2	5.7	7.1	9.9	11.3
85°	2.8	2.8	2.8	2.8	4.2	5.7	7.1	7.1
87.5°	1.4	1.4	1.4	2.8	2.8	2.8	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)