

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: P1310419

Luminaire Tested: LDSQA3D13R559035DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1310419  
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: LDSQA3D13R559035DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R55 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

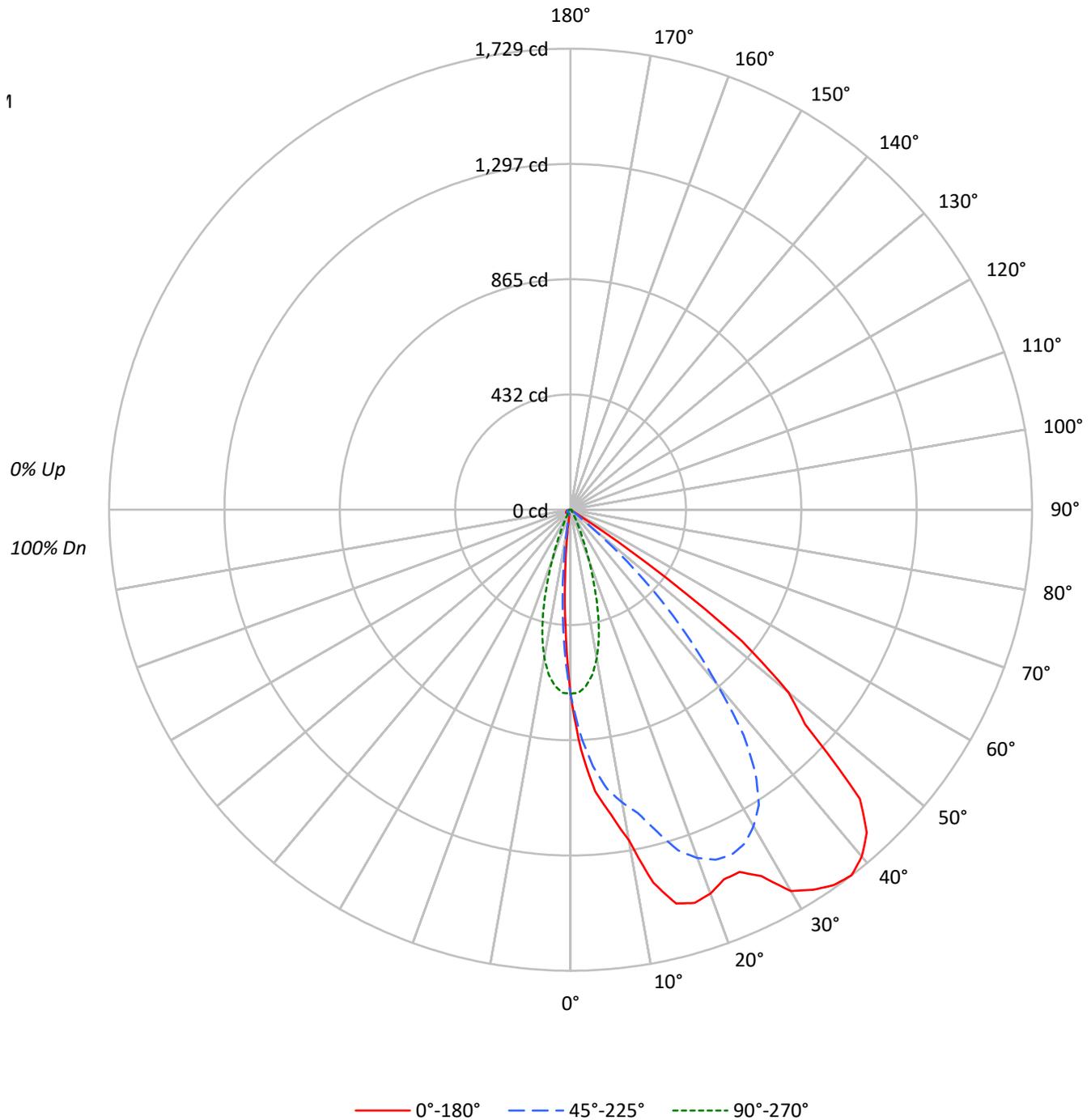
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1151.0 lumens  
Efficiency: N/A  
Efficacy: 78.8 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): 14.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91	91	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	81	81	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73	73	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65	65	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59	59	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53	53	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48	48	48
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	44	44	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40	40	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37	37	37

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	118816	118816	118816	118816	118816
5°	183219	166795	114775	58935	38725
10°	220138	194956	98789	14865	5946
15°	272564	222659	70588	4101	3209
20°	280723	254698	36472	2749	2749
25°	284793	271301	14632	2470	2850
30°	328267	272585	6364	2585	2983
35°	361348	254144	2733	2733	3364
40°	381678	191277	1574	3147	3597
45°	373304	116884	1461	3410	4384
50°	285561	24918	1608	4019	5091
55°	104761	901	1802	4504	5705
60°	1033	1033	2067	5167	6544
65°	1223	1223	2445	5298	6928
70°	1007	1511	2518	6043	8057
75°	665	1331	2662	6654	9316
80°	992	1984	2975	6943	9918
85°	0	1976	3952	7904	9880

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 373304 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.7	5.3
10°-20°	173.9	15.1
20°-30°	266.8	23.2
30°-40°	310.9	27.0
40°-50°	248.4	21.6
50°-60°	73.5	6.4
60°-70°	7.9	0.7
70°-80°	6.2	0.5
80°-90°	2.6	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°	501.5	43.6
0°-40°	812.4	70.6
0°-60°	1134.3	98.6
0°-90°	1151.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1151.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	690	690	690	690	690	
5°	1060	965	664	341	224	106
15°	1529	1249	396	23	18	422
25°	1499	1428	77	13	15	712
35°	1719	1209	13	13	16	1070
45°	1533	480	6	14	18	1105
55°	349	3	6	15	19	370
65°	3	3	6	13	17	3
75°	1	2	4	10	14	1
85°	0	1	2	4	5	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°	689.9	689.9	689.9	689.9	689.9	689.9	689.9	689.9	689.9	689.9	689.9
2.5°	899.8	899.8	896.8	897.8	895.8	884.8	882.8	868.8	856.8	843.8	832.8
5°	1059.8	1061.8	1058.8	1052.8	1044.8	1036.8	1019.8	1006.8	989.8	964.8	941.8
7.5°	1150.8	1148.8	1143.8	1141.8	1136.8	1127.8	1115.8	1101.8	1081.8	1056.8	1029.8
10°	1258.8	1241.8	1236.8	1228.8	1212.8	1194.8	1173.8	1154.8	1137.8	1114.8	1085.8
12.5°	1432.7	1429.7	1409.7	1394.7	1372.7	1332.7	1296.8	1254.8	1204.8	1164.8	1126.8
15°	1528.7	1530.7	1521.7	1509.7	1495.7	1462.7	1426.7	1377.7	1318.8	1248.8	1186.8
17.5°	1545.7	1548.7	1543.7	1538.7	1534.7	1515.7	1493.7	1458.7	1404.7	1339.7	1247.8
20°	1531.7	1537.7	1538.7	1544.7	1552.7	1544.7	1526.7	1502.7	1457.7	1389.7	1301.8
22.5°	1500.7	1511.7	1519.7	1540.7	1561.7	1561.7	1550.7	1531.7	1487.7	1420.7	1330.7
25°	1498.7	1500.7	1503.7	1537.7	1570.7	1577.7	1567.7	1547.7	1499.7	1427.7	1329.7
27.5°	1548.7	1535.7	1515.7	1549.7	1588.7	1594.7	1580.7	1553.7	1496.7	1411.7	1295.8
30°	1650.7	1621.7	1579.7	1604.7	1631.7	1624.7	1596.7	1553.7	1476.7	1370.7	1231.8
32.5°	1689.7	1673.7	1658.7	1685.7	1690.7	1661.7	1611.7	1547.7	1444.7	1312.8	1126.8
35°	1718.7	1719.7	1713.7	1718.7	1694.7	1653.7	1598.7	1514.7	1384.7	1208.8	987.8
37.5°	1728.7	1730.7	1717.7	1699.7	1663.7	1616.7	1550.7	1454.7	1284.8	1065.8	777.9
40°	1697.7	1691.7	1670.7	1645.7	1606.7	1558.7	1486.7	1343.7	1135.8	850.8	606.9
42.5°	1642.7	1632.7	1607.7	1577.7	1536.7	1475.7	1360.7	1187.8	922.8	663.9	424.9
45°	1532.7	1525.7	1494.7	1472.7	1423.7	1344.7	1196.8	978.8	713.9	479.9	246.0
47.5°	1190.8	1191.8	1215.8	1226.8	1209.8	1146.8	972.8	743.9	520.9	285.9	83.0
50°	1065.8	1060.8	1036.8	1003.8	948.8	854.8	713.9	525.9	307.9	93.0	12.0
52.5°	808.8	808.8	796.8	779.9	721.9	630.9	482.9	290.9	108.0	16.0	3.0
55°	348.9	330.9	340.9	359.9	344.9	299.9	226.0	87.0	19.0	3.0	3.0
57.5°	5.0	12.0	18.0	29.0	39.0	47.0	25.0	9.0	3.0	3.0	3.0
60°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
62.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
65°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
67.5°	2.0	2.0	2.0	3.0	2.0	3.0	3.0	3.0	3.0	3.0	3.0
70°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	3.0	3.0
72.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
75°	1.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0	2.0
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.0	2.0
85°	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.0	1.0	1.0	1.0
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°	689.9	689.9	689.9	689.9	689.9	689.9	689.9	689.9
2.5°	816.8	799.8	771.9	686.9	598.9	517.9	459.9	437.9
5°	915.8	884.8	837.8	663.9	488.9	340.9	257.0	224.0
7.5°	993.8	953.8	885.8	623.9	358.9	182.0	109.0	86.0
10°	1045.8	1001.8	912.8	564.9	238.0	85.0	41.0	34.0
12.5°	1083.8	1028.8	922.8	488.9	140.0	39.0	22.0	20.0
15°	1111.8	1040.8	910.8	395.9	77.0	23.0	18.0	18.0
17.5°	1150.8	1046.8	881.8	291.9	44.0	17.0	17.0	17.0
20°	1180.8	1046.8	826.8	199.0	27.0	15.0	15.0	15.0
22.5°	1195.8	1030.8	759.9	126.0	19.0	14.0	15.0	15.0
25°	1180.8	991.8	673.9	77.0	15.0	13.0	14.0	15.0
27.5°	1125.8	913.8	558.9	49.0	12.0	13.0	14.0	15.0
30°	1033.8	800.8	428.9	32.0	11.0	13.0	14.0	15.0
32.5°	903.8	632.9	277.9	21.0	10.0	13.0	14.0	15.0
35°	705.9	447.9	168.0	13.0	10.0	13.0	15.0	16.0
37.5°	528.9	298.9	91.0	8.0	10.0	13.0	15.0	16.0
40°	366.9	174.0	39.0	7.0	10.0	14.0	16.0	16.0
42.5°	213.0	69.0	10.0	6.0	10.0	14.0	16.0	17.0
45°	78.0	14.0	3.0	6.0	11.0	14.0	16.0	18.0
47.5°	11.0	3.0	3.0	6.0	11.0	14.0	17.0	18.0
50°	3.0	3.0	3.0	6.0	11.0	15.0	18.0	19.0
52.5°	3.0	3.0	3.0	6.0	11.0	15.0	18.0	19.0
55°	3.0	3.0	3.0	6.0	11.0	15.0	18.0	19.0
57.5°	3.0	3.0	3.0	6.0	11.0	15.0	18.0	19.0
60°	3.0	3.0	3.0	6.0	10.0	15.0	18.0	19.0
62.5°	3.0	3.0	3.0	6.0	10.0	14.0	17.0	18.0
65°	3.0	3.0	3.0	6.0	9.0	13.0	17.0	17.0
67.5°	3.0	3.0	3.0	5.0	9.0	13.0	16.0	17.0
70°	3.0	3.0	3.0	5.0	8.0	12.0	15.0	16.0
72.5°	3.0	3.0	3.0	4.0	7.0	11.0	14.0	15.0
75°	2.0	3.0	3.0	4.0	7.0	10.0	13.0	14.0
77.5°	2.0	3.0	3.0	3.0	6.0	8.0	11.0	12.0
80°	2.0	2.0	3.0	3.0	5.0	7.0	9.0	10.0
82.5°	2.0	2.0	2.0	3.0	4.0	5.0	7.0	7.0
85°	2.0	2.0	2.0	2.0	3.0	4.0	5.0	5.0
87.5°	1.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)