

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: P1312787

Luminaire Tested: LDSQA3D17R659050DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312787
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: LDSQA3D17R659050DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R65 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

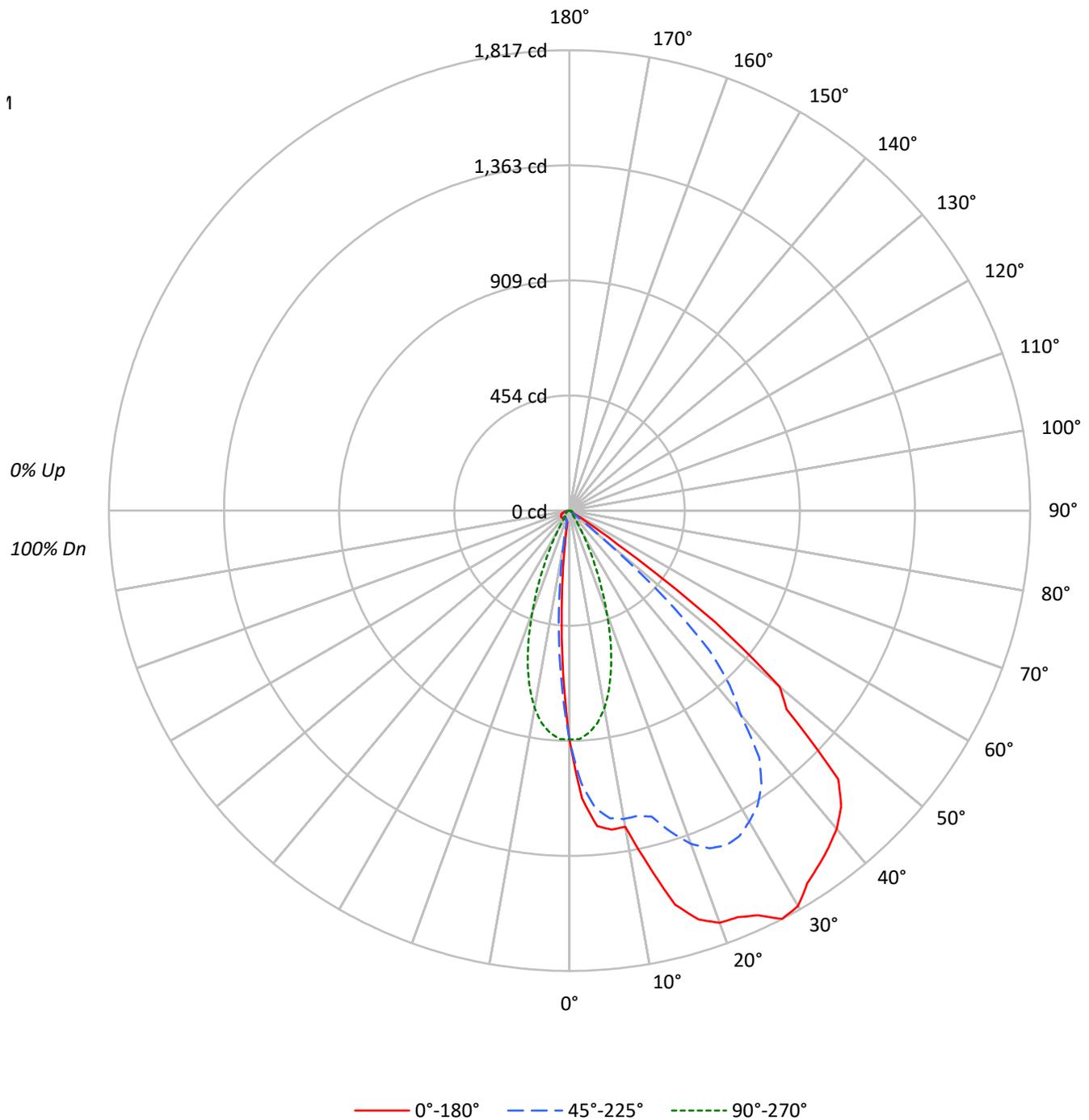
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1353.0 lumens
Efficiency: N/A
Efficacy: 63.8 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): 21.2
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: P1312787
CATALOG NUMBER: LDSQA3D17R659050DE010 3LSQCA30R 1MW

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	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°	155465	155465	155465	155465	155465
5°	216101	203947	152169	83622	58831
10°	221537	216134	138435	23364	8604
15°	287042	222872	113308	7524	7275
20°	317213	256402	78845	6708	6964
25°	334789	277078	44618	6404	6955
30°	358455	281852	20125	6423	7278
35°	359771	277587	6497	6791	7989
40°	368571	235814	4429	7262	8858
45°	365047	190074	4457	7867	9596
50°	289687	44825	4528	8654	10932
55°	68820	2522	4654	9698	12251
60°	2411	2893	5339	10161	13089
65°	2853	2853	5175	10881	14344
70°	2115	2820	4935	10625	14855
75°	1863	2795	4658	11246	14972
80°	1389	2777	5554	11108	15373
85°	2766	5533	5533	11066	13832

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°
 Vertical Angle: 45°
 Luminance: 365753 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.3	5.6
10°-20°	198.4	14.7
20°-30°	311.6	23.0
30°-40°	356.5	26.3
40°-50°	286.5	21.2
50°-60°	93.2	6.9
60°-70°	16.5	1.2
70°-80°	10.9	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°	585.3	43.3
0°-40°	941.8	69.6
0°-60°	1321.6	97.7
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°	903	903	903	903	903	
5°	1250	1180	880	484	340	118
15°	1610	1250	636	42	41	449
25°	1762	1458	235	34	37	821
35°	1711	1320	31	32	38	1075
45°	1499	780	18	32	39	1078
55°	229	8	16	32	41	328
65°	7	7	13	27	35	6
75°	3	4	7	17	22	3
85°	1	3	3	6	7	1
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°	902.7	902.7	902.7	902.7	902.7	902.7	902.7	902.7	902.7	902.7	902.7
2.5°	1136.1	1131.9	1137.5	1127.6	1126.2	1116.4	1110.8	1108.0	1095.3	1078.4	1063.0
5°	1250.0	1233.1	1237.3	1235.9	1228.9	1224.7	1219.0	1212.0	1195.1	1179.7	1160.0
7.5°	1269.7	1255.6	1258.4	1259.8	1255.6	1254.2	1252.8	1250.0	1238.7	1224.7	1207.8
10°	1266.8	1252.8	1251.4	1247.2	1242.9	1244.3	1244.3	1244.3	1241.5	1235.9	1230.3
12.5°	1429.9	1410.3	1406.0	1376.5	1349.8	1303.4	1273.9	1245.8	1233.1	1234.5	1230.3
15°	1609.9	1608.5	1594.5	1566.3	1521.3	1479.2	1411.7	1361.0	1296.4	1250.0	1230.3
17.5°	1691.5	1690.1	1677.4	1653.5	1621.2	1581.8	1532.6	1473.5	1401.8	1330.1	1271.1
20°	1730.8	1740.7	1726.6	1706.9	1676.0	1639.4	1593.0	1539.6	1472.1	1399.0	1328.7
22.5°	1736.5	1749.1	1736.5	1722.4	1699.9	1676.0	1636.6	1581.8	1512.9	1442.6	1373.7
25°	1761.8	1766.0	1739.3	1721.0	1699.9	1683.0	1652.1	1604.3	1534.0	1458.1	1390.6
27.5°	1816.6	1798.3	1742.1	1716.8	1697.1	1681.6	1652.1	1602.9	1527.0	1449.6	1379.3
30°	1802.5	1795.5	1746.3	1722.4	1705.5	1690.1	1653.5	1590.2	1498.8	1417.3	1344.2
32.5°	1744.9	1759.0	1742.1	1733.6	1725.2	1705.5	1652.1	1566.3	1463.7	1380.7	1282.3
35°	1711.2	1728.0	1729.4	1729.4	1719.6	1690.1	1626.8	1531.2	1428.5	1320.3	1188.1
37.5°	1677.4	1691.5	1699.9	1705.5	1691.5	1649.3	1569.1	1483.4	1370.9	1228.9	996.9
40°	1639.4	1649.3	1656.3	1659.1	1638.0	1583.2	1510.1	1413.1	1286.5	1048.9	890.0
42.5°	1586.0	1591.6	1590.2	1588.8	1566.3	1505.9	1437.0	1335.7	1085.5	935.0	742.4
45°	1498.8	1493.2	1501.7	1501.7	1472.1	1427.1	1335.7	1138.9	971.6	780.4	478.1
47.5°	1161.4	1165.6	1206.4	1272.5	1313.2	1300.6	1176.9	996.9	816.9	511.8	158.9
50°	1081.2	1077.0	1078.4	1085.5	1089.7	1054.5	966.0	842.2	539.9	167.3	11.2
52.5°	725.5	729.7	762.1	836.6	860.5	835.2	750.8	562.4	196.8	11.2	9.8
55°	229.2	244.7	262.9	302.3	371.2	414.8	406.3	199.7	12.7	8.4	9.8
57.5°	8.4	8.4	11.2	19.7	38.0	61.9	64.7	12.7	9.8	9.8	9.8
60°	7.0	7.0	7.0	7.0	7.0	7.0	8.4	8.4	8.4	8.4	8.4
62.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	8.4	8.4	8.4	8.4
65°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	8.4
67.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	7.0	7.0	7.0	7.0
70°	4.2	4.2	4.2	5.6	5.6	5.6	5.6	5.6	5.6	5.6	7.0
72.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.6	5.6	5.6
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



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CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	902.7	902.7	902.7	902.7	902.7	902.7	902.7	902.7
2.5°	1054.5	1037.7	1003.9	902.7	797.2	691.8	625.7	608.8
5°	1137.5	1117.8	1070.0	880.2	666.5	483.7	379.6	340.3
7.5°	1188.1	1164.2	1108.0	845.0	518.8	281.2	168.7	135.0
10°	1210.6	1189.5	1126.2	791.6	375.4	133.6	59.1	49.2
12.5°	1220.4	1203.6	1133.3	721.3	244.7	59.1	43.6	42.2
15°	1224.7	1206.4	1130.5	635.5	139.2	42.2	40.8	40.8
17.5°	1228.9	1207.8	1113.6	537.1	77.3	39.4	38.0	39.4
20°	1262.6	1202.2	1084.1	430.2	50.6	36.6	36.6	38.0
22.5°	1296.4	1200.8	1032.0	329.0	39.4	35.2	36.6	36.6
25°	1307.6	1186.7	966.0	234.8	33.7	33.7	35.2	36.6
27.5°	1286.5	1145.9	877.4	158.9	29.5	33.7	35.2	36.6
30°	1237.3	1077.0	770.5	101.2	28.1	32.3	35.2	36.6
32.5°	1145.9	940.6	651.0	60.5	26.7	32.3	36.6	36.6
35°	963.1	788.8	516.0	30.9	26.7	32.3	36.6	38.0
37.5°	842.2	658.0	359.9	21.1	26.7	32.3	36.6	38.0
40°	698.8	475.2	150.4	19.7	26.7	32.3	36.6	39.4
42.5°	483.7	206.7	23.9	18.3	25.3	32.3	38.0	39.4
45°	174.3	26.7	11.2	18.3	25.3	32.3	38.0	39.4
47.5°	15.5	9.8	11.2	18.3	25.3	32.3	38.0	40.8
50°	9.8	9.8	9.8	16.9	25.3	32.3	38.0	40.8
52.5°	9.8	9.8	9.8	16.9	23.9	32.3	39.4	40.8
55°	9.8	9.8	9.8	15.5	23.9	32.3	38.0	40.8
57.5°	9.8	9.8	11.2	15.5	23.9	30.9	38.0	39.4
60°	9.8	9.8	9.8	15.5	22.5	29.5	36.6	38.0
62.5°	8.4	9.8	9.8	14.1	21.1	28.1	35.2	36.6
65°	8.4	8.4	9.8	12.7	19.7	26.7	32.3	35.2
67.5°	7.0	8.4	8.4	11.2	16.9	23.9	29.5	32.3
70°	7.0	7.0	7.0	9.8	15.5	21.1	28.1	29.5
72.5°	5.6	7.0	7.0	8.4	12.7	18.3	23.9	26.7
75°	5.6	5.6	5.6	7.0	11.2	16.9	21.1	22.5
77.5°	4.2	4.2	5.6	5.6	9.8	12.7	18.3	19.7
80°	4.2	4.2	4.2	5.6	7.0	11.2	14.1	15.5
82.5°	2.8	2.8	2.8	4.2	5.6	7.0	9.8	11.2
85°	2.8	2.8	2.8	2.8	4.2	5.6	7.0	7.0
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)