

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: P1311537

Luminaire Tested: LDSQA3D13R559040DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311537
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: LDSQA3D13R559040DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

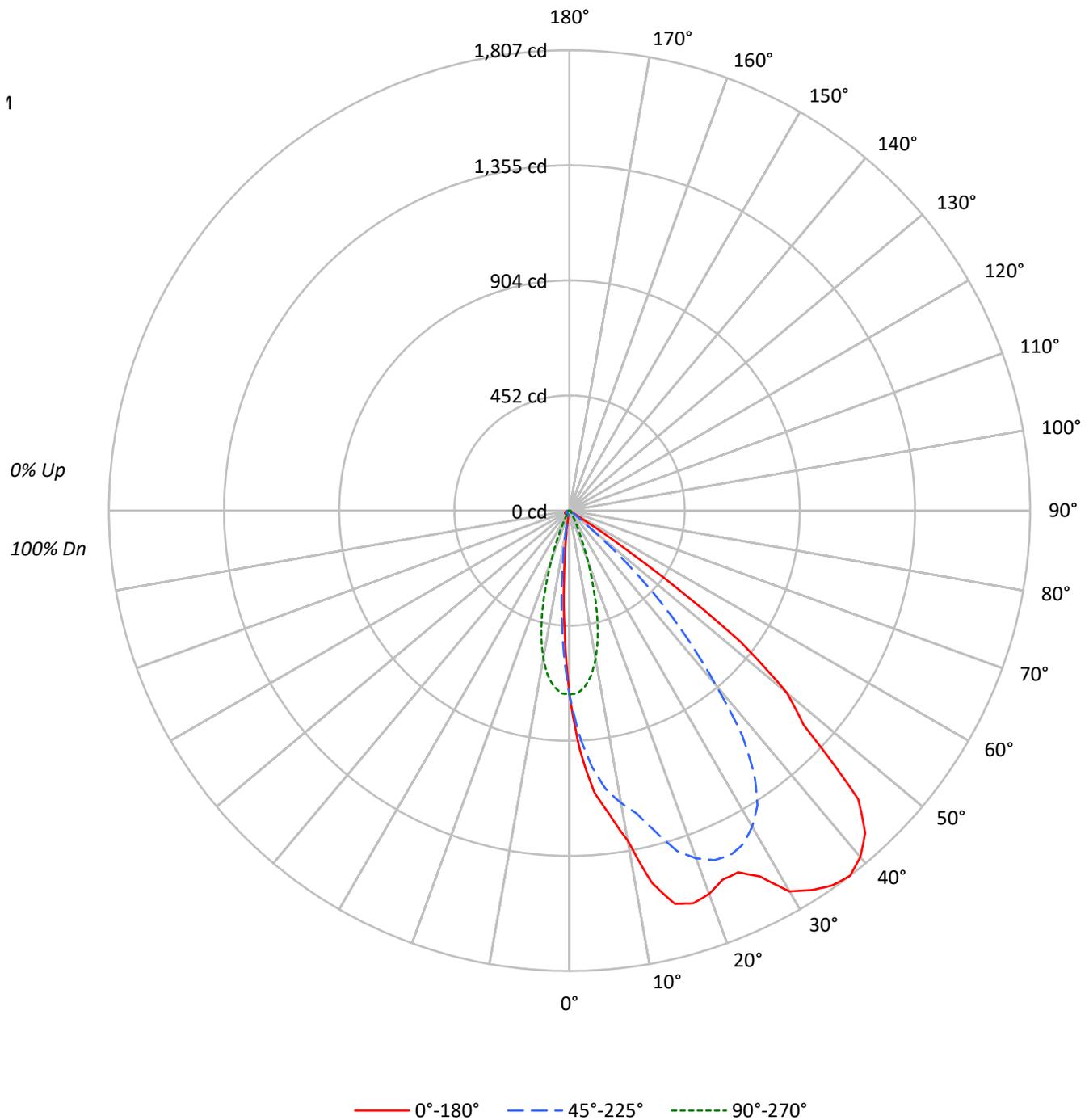
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1203.0 lumens
Efficiency: N/A
Efficacy: 82.4 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 (Ain): 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°	124173	124173	124173	124173	124173
5°	191500	174333	119962	61597	40471
10°	230071	203770	103249	15529	6208
15°	284885	232715	73780	4279	3352
20°	293406	266208	38121	2877	2877
25°	297658	283558	15297	2584	2983
30°	343103	284915	6642	2705	3122
35°	377663	265624	2859	2859	3511
40°	398922	199933	1641	3282	3755
45°	390182	122169	1534	3556	4579
50°	298448	26043	1688	4207	5332
55°	109505	931	1892	4714	5975
60°	1068	1068	2170	5408	6854
65°	1263	1263	2567	5542	7254
70°	1057	1561	2618	6294	8409
75°	665	1397	2795	6920	9715
80°	992	2083	3075	7240	10315
85°	0	1976	4150	8299	10275

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 390182 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.5	5.3
10°-20°	181.8	15.1
20°-30°	278.9	23.2
30°-40°	324.9	27.0
40°-50°	259.7	21.6
50°-60°	76.9	6.4
60°-70°	8.2	0.7
70°-80°	6.4	0.5
80°-90°	2.7	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°	524.1	43.6
0°-40°	849.1	70.6
0°-60°	1185.6	98.6
0°-90°	1203.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1203.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	721	721	721	721	721	
5°	1108	1008	694	356	234	110
15°	1598	1305	414	24	19	441
25°	1566	1492	80	14	16	744
35°	1796	1263	14	14	17	1119
45°	1602	502	6	15	19	1155
55°	365	3	6	16	20	386
65°	3	3	6	14	18	3
75°	1	2	4	10	15	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°	721.0	721.0	721.0	721.0	721.0	721.0	721.0	721.0	721.0	721.0	721.0
2.5°	940.5	940.5	937.3	938.4	936.3	924.8	922.7	908.1	895.5	882.0	870.5
5°	1107.7	1109.8	1106.6	1100.4	1092.0	1083.6	1065.9	1052.3	1034.5	1008.4	984.4
7.5°	1202.8	1200.7	1195.5	1193.4	1188.1	1178.7	1166.2	1151.6	1130.7	1104.5	1076.3
10°	1315.6	1297.9	1292.6	1284.3	1267.6	1248.8	1226.8	1207.0	1189.2	1165.2	1134.8
12.5°	1497.5	1494.3	1473.4	1457.7	1434.8	1393.0	1355.3	1311.5	1259.2	1217.4	1177.7
15°	1597.8	1599.9	1590.5	1577.9	1563.3	1528.8	1491.2	1440.0	1378.3	1305.2	1240.4
17.5°	1615.5	1618.7	1613.5	1608.2	1604.0	1584.2	1561.2	1524.6	1468.2	1400.3	1304.1
20°	1600.9	1607.2	1608.2	1614.5	1622.9	1614.5	1595.7	1570.6	1523.6	1452.5	1360.6
22.5°	1568.5	1580.0	1588.4	1610.3	1632.3	1632.3	1620.8	1600.9	1554.9	1484.9	1390.9
25°	1566.4	1568.5	1571.7	1607.2	1641.7	1649.0	1638.5	1617.6	1567.5	1492.2	1389.8
27.5°	1618.7	1605.1	1584.2	1619.7	1660.5	1666.7	1652.1	1623.9	1564.3	1475.5	1354.3
30°	1725.3	1695.0	1651.1	1677.2	1705.4	1698.1	1668.8	1623.9	1543.4	1432.7	1287.4
32.5°	1766.0	1749.3	1733.6	1761.8	1767.1	1736.8	1684.5	1617.6	1510.0	1372.1	1177.7
35°	1796.3	1797.4	1791.1	1796.3	1771.2	1728.4	1670.9	1583.1	1447.3	1263.4	1032.4
37.5°	1806.8	1808.9	1795.3	1776.5	1738.8	1689.7	1620.8	1520.4	1342.8	1113.9	813.0
40°	1774.4	1768.1	1746.2	1720.0	1679.3	1629.1	1553.9	1404.5	1187.1	889.3	634.3
42.5°	1716.9	1706.5	1680.3	1649.0	1606.1	1542.4	1422.2	1241.4	964.5	693.9	444.1
45°	1602.0	1594.6	1562.2	1539.3	1488.1	1405.5	1250.8	1023.0	746.1	501.6	257.1
47.5°	1244.6	1245.6	1270.7	1282.2	1264.4	1198.6	1016.8	777.5	544.4	298.9	86.7
50°	1113.9	1108.7	1083.6	1049.2	991.7	893.5	746.1	549.7	321.9	97.2	12.5
52.5°	845.4	845.4	832.8	815.1	754.5	659.4	504.7	304.1	112.9	16.7	3.1
55°	364.7	345.9	356.3	376.2	360.5	313.5	236.2	90.9	19.9	3.1	3.1
57.5°	5.2	12.5	18.8	30.3	40.8	49.1	26.1	9.4	3.1	3.1	3.1
60°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
62.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
65°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
67.5°	2.1	2.1	2.1	3.1	2.1	3.1	3.1	3.1	3.1	3.1	3.1
70°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.1	3.1
72.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
75°	1.0	1.0	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1	2.1	2.1	2.1
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1	2.1
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	2.1	2.1
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°	721.0	721.0	721.0	721.0	721.0	721.0	721.0	721.0
2.5°	853.7	836.0	806.7	717.9	625.9	541.3	480.7	457.7
5°	957.2	924.8	875.7	693.9	511.0	356.3	268.6	234.1
7.5°	1038.7	996.9	925.9	652.1	375.1	190.2	113.9	89.9
10°	1093.1	1047.1	954.1	590.4	248.7	88.8	42.8	35.5
12.5°	1132.8	1075.3	964.5	511.0	146.3	40.8	23.0	20.9
15°	1162.0	1087.8	952.0	413.8	80.5	24.0	18.8	18.8
17.5°	1202.8	1094.1	921.7	305.1	46.0	17.8	17.8	17.8
20°	1234.1	1094.1	864.2	208.0	28.2	15.7	15.7	15.7
22.5°	1249.8	1077.4	794.2	131.7	19.9	14.6	15.7	15.7
25°	1234.1	1036.6	704.3	80.5	15.7	13.6	14.6	15.7
27.5°	1176.6	955.1	584.1	51.2	12.5	13.6	14.6	15.7
30°	1080.5	837.0	448.3	33.4	11.5	13.6	14.6	15.7
32.5°	944.7	661.5	290.5	21.9	10.4	13.6	14.6	15.7
35°	737.8	468.2	175.6	13.6	10.4	13.6	15.7	16.7
37.5°	552.8	312.4	95.1	8.4	10.4	13.6	15.7	16.7
40°	383.5	181.8	40.8	7.3	10.4	14.6	16.7	16.7
42.5°	222.6	72.1	10.4	6.3	10.4	14.6	16.7	17.8
45°	81.5	14.6	3.1	6.3	11.5	14.6	16.7	18.8
47.5°	11.5	3.1	3.1	6.3	11.5	14.6	17.8	18.8
50°	3.1	3.1	3.1	6.3	11.5	15.7	18.8	19.9
52.5°	3.1	3.1	3.1	6.3	11.5	15.7	18.8	19.9
55°	3.1	3.1	3.1	6.3	11.5	15.7	18.8	19.9
57.5°	3.1	3.1	3.1	6.3	11.5	15.7	18.8	19.9
60°	3.1	3.1	3.1	6.3	10.4	15.7	18.8	19.9
62.5°	3.1	3.1	3.1	6.3	10.4	14.6	17.8	18.8
65°	3.1	3.1	3.1	6.3	9.4	13.6	17.8	17.8
67.5°	3.1	3.1	3.1	5.2	9.4	13.6	16.7	17.8
70°	3.1	3.1	3.1	5.2	8.4	12.5	15.7	16.7
72.5°	3.1	3.1	3.1	4.2	7.3	11.5	14.6	15.7
75°	2.1	3.1	3.1	4.2	7.3	10.4	13.6	14.6
77.5°	2.1	3.1	3.1	3.1	6.3	8.4	11.5	12.5
80°	2.1	2.1	3.1	3.1	5.2	7.3	9.4	10.4
82.5°	2.1	2.1	2.1	3.1	4.2	5.2	7.3	7.3
85°	2.1	2.1	2.1	2.1	3.1	4.2	5.2	5.2
87.5°	1.0	1.0	2.1	2.1	2.1	2.1	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)