

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: P1318694

Luminaire Tested: LDSQA3D20R509830D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318694
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R509830D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

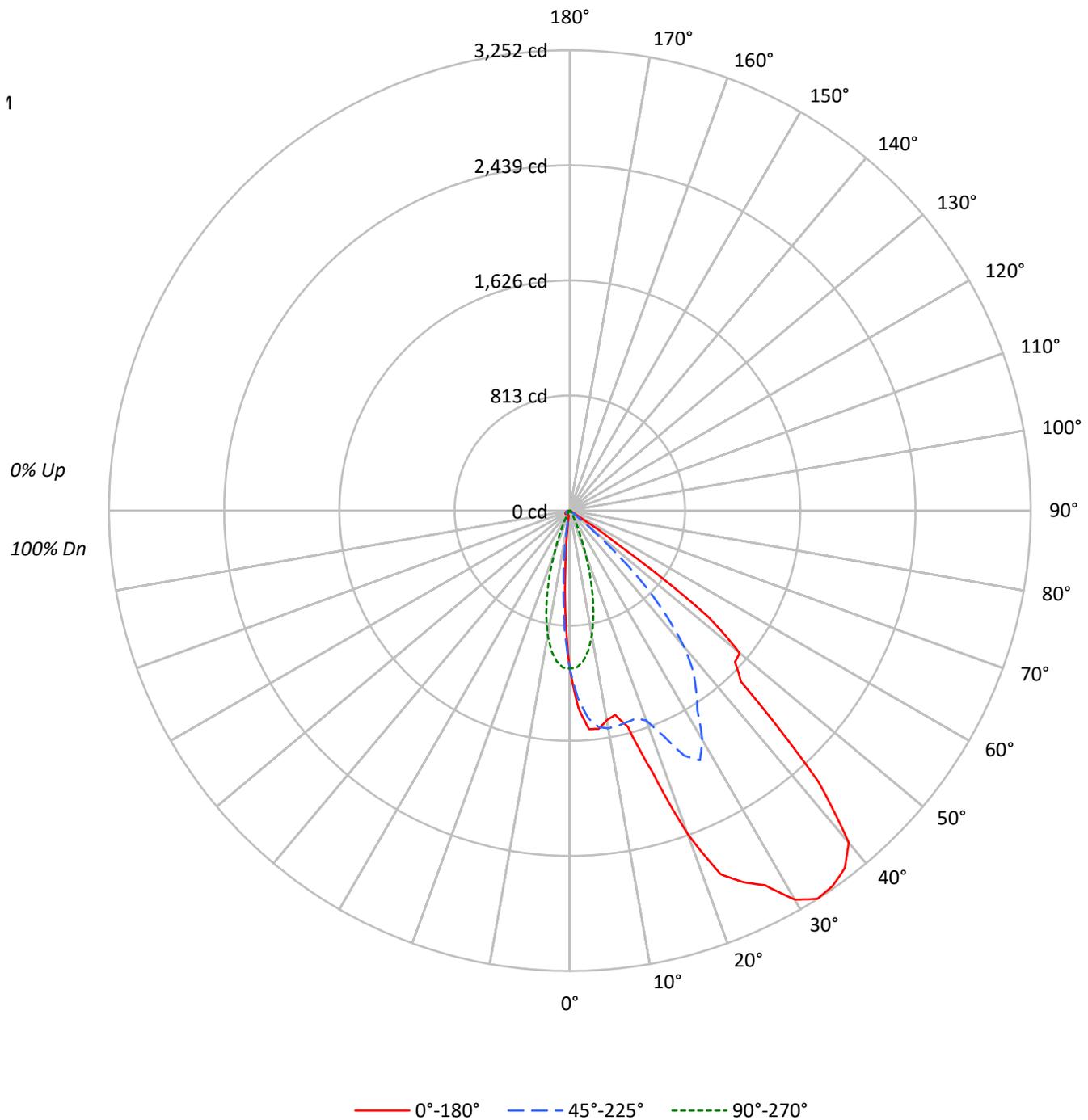
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1735.0 lumens
Efficiency: N/A
Efficacy: 63.3 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 27.4
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

TEST NUMBER: P1318694
CATALOG NUMBER: LDSQA3D20R509830D010 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
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	101	102	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	85	83	81	81	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73	73	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65	65	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	53	53	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47	47	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	49	45	43	43	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39	39	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	37	46	41	37	36	36	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	192114	192114	192114	192114	192114
5°	267861	254134	184654	88757	57586
10°	262949	273092	156062	18712	8009
15°	281978	275987	110331	6544	6258
20°	445286	289007	58245	5608	5883
25°	550241	362951	23221	5226	5815
30°	630841	372237	9426	5171	6085
35°	680101	326721	4184	5466	6749
40°	688446	281363	3103	6183	7554
45°	416073	182353	2971	6698	8549
50°	419231	31535	3269	7770	9833
55°	123888	1832	3663	8708	11020
60°	2101	2101	3686	9472	12090
65°	1875	1875	3749	9943	13081
70°	2316	2316	3827	10776	14603
75°	2063	2063	4059	11179	15238
80°	1488	3075	4562	10612	16662
85°	2964	6126	6126	12054	15018

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 475258 cd/sqm



TEST NUMBER: P1318694

CATALOG NUMBER: LDSQA3D20R509830D010 3LSQCA30R 1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.2	5.2
10°-20°	224.0	12.9
20°-30°	419.6	24.2
30°-40°	501.7	28.9
40°-50°	359.5	20.7
50°-60°	110.8	6.4
60°-70°	14.5	0.8
70°-80°	10.5	0.6
80°-90°	4.3	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°	733.8	42.3
0°-40°	1235.4	71.2
0°-60°	1705.7	98.3
0°-90°	1735.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1735.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1116	1116	1116	1116	1116	
5°	1549	1470	1068	513	333	144
15°	1582	1548	619	37	35	507
25°	2896	1910	122	28	31	1334
35°	3235	1554	20	26	32	2007
45°	1708	749	12	28	35	1569
55°	413	6	12	29	37	531
65°	5	5	9	24	32	5
75°	3	3	6	17	23	3
85°	2	3	3	6	8	1
90°	0	0	0	0	0	



TEST NUMBER: P1318694
 CATALOG NUMBER: LDSQA3D20R509830D010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1115.5	1115.5	1115.5	1115.5	1115.5	1115.5	1115.5	1115.5	1115.5	1115.5	1115.5
2.5°	1395.1	1398.1	1402.7	1390.5	1382.9	1376.7	1366.1	1363.0	1337.0	1326.3	1315.6
5°	1549.4	1546.4	1549.4	1544.8	1541.8	1532.6	1523.4	1508.2	1491.4	1470.0	1445.5
7.5°	1554.0	1550.9	1557.1	1557.1	1563.2	1563.2	1563.2	1564.7	1555.5	1540.2	1518.9
10°	1503.6	1503.6	1509.7	1506.6	1517.3	1521.9	1532.6	1550.9	1560.1	1561.6	1555.5
12.5°	1477.6	1477.6	1479.1	1473.0	1476.1	1480.7	1492.9	1514.3	1535.7	1557.1	1569.3
15°	1581.5	1584.6	1563.2	1532.6	1509.7	1485.2	1477.6	1491.4	1514.3	1547.9	1575.4
17.5°	1934.5	1939.1	1916.1	1842.8	1772.5	1671.7	1581.5	1537.2	1512.7	1540.2	1576.9
20°	2429.6	2412.7	2373.0	2295.1	2192.7	2036.9	1896.3	1754.2	1618.2	1576.9	1589.1
22.5°	2779.5	2773.4	2741.3	2654.2	2565.6	2420.4	2241.6	2043.0	1845.9	1720.6	1654.8
25°	2895.6	2891.0	2862.0	2810.0	2761.1	2651.1	2490.7	2290.5	2084.2	1910.0	1745.0
27.5°	2982.7	2976.6	2930.7	2872.7	2822.3	2710.7	2564.0	2412.7	2223.3	1988.0	1734.3
30°	3172.2	3155.4	3091.2	2987.3	2891.0	2736.7	2574.7	2386.8	2130.1	1871.8	1624.3
32.5°	3251.6	3242.5	3187.5	3103.4	2998.0	2796.3	2550.3	2235.5	1897.8	1674.7	1494.4
35°	3234.8	3221.1	3164.5	3068.3	2939.9	2745.9	2417.3	1984.9	1709.9	1554.0	1350.8
37.5°	3184.4	3164.5	3097.3	2984.2	2828.4	2574.7	2145.3	1781.7	1604.4	1428.7	1155.2
40°	3062.2	3030.1	2952.1	2834.5	2678.6	2345.5	1897.8	1659.4	1494.4	1251.5	936.7
42.5°	2594.6	2577.8	2616.0	2596.1	2458.6	2065.9	1722.1	1547.9	1320.2	1011.6	678.4
45°	1708.3	1737.4	1806.1	1923.8	1951.3	1777.1	1578.4	1364.5	1086.4	748.7	391.2
47.5°	1581.5	1575.4	1592.2	1615.1	1619.7	1546.4	1366.1	1127.7	806.8	427.8	108.5
50°	1564.7	1555.5	1541.8	1514.3	1456.2	1314.1	1109.3	822.1	466.0	117.7	7.6
52.5°	1236.2	1227.0	1227.0	1187.3	1112.4	974.9	765.5	452.3	129.9	7.6	6.1
55°	412.6	440.1	435.5	434.0	467.6	430.9	330.1	116.1	10.7	6.1	6.1
57.5°	7.6	7.6	7.6	13.8	21.4	30.6	18.3	9.2	6.1	6.1	6.1
60°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
62.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1
65°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	6.1
67.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
70°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6	4.6
72.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.6	4.6	4.6
75°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	4.6
77.5°	1.5	1.5	1.5	1.5	3.1	3.1	3.1	3.1	3.1	3.1	3.1
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.1	3.1	3.1	3.1
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.1	3.1	3.1
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.1	3.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5
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: P1318694

CATALOG NUMBER: LDSQA3D20R509830D010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1115.5	1115.5	1115.5	1115.5	1115.5	1115.5	1115.5	1115.5
2.5°	1291.2	1269.8	1228.5	1110.9	981.0	832.8	731.9	719.7
5°	1407.3	1375.2	1308.0	1068.1	771.7	513.4	382.0	333.1
7.5°	1483.7	1440.9	1358.4	997.8	562.3	270.5	145.2	116.1
10°	1529.6	1489.8	1384.4	892.4	357.6	107.0	48.9	45.8
12.5°	1554.0	1515.8	1393.6	765.5	201.7	48.9	38.2	38.2
15°	1570.8	1529.6	1379.8	618.8	100.8	36.7	35.1	35.1
17.5°	1578.4	1528.0	1340.1	466.0	53.5	33.6	33.6	33.6
20°	1583.0	1511.2	1266.7	317.8	36.7	30.6	32.1	32.1
22.5°	1587.6	1470.0	1170.5	201.7	29.0	29.0	30.6	30.6
25°	1578.4	1398.1	1034.5	122.2	26.0	27.5	29.0	30.6
27.5°	1512.7	1289.7	869.4	74.9	22.9	26.0	29.0	30.6
30°	1399.7	1130.7	678.4	47.4	21.4	26.0	29.0	30.6
32.5°	1253.0	948.9	484.4	29.0	21.4	26.0	29.0	30.6
35°	1055.9	725.8	314.8	19.9	21.4	26.0	30.6	32.1
37.5°	834.3	507.3	169.6	15.3	21.4	26.0	30.6	32.1
40°	600.5	304.1	61.1	13.8	19.9	27.5	32.1	33.6
42.5°	351.4	113.1	10.7	12.2	19.9	27.5	32.1	33.6
45°	100.8	12.2	6.1	12.2	19.9	27.5	33.6	35.1
47.5°	7.6	4.6	6.1	12.2	19.9	27.5	33.6	36.7
50°	4.6	4.6	4.6	12.2	19.9	29.0	35.1	36.7
52.5°	6.1	6.1	6.1	12.2	19.9	29.0	35.1	36.7
55°	6.1	6.1	6.1	12.2	19.9	29.0	35.1	36.7
57.5°	6.1	6.1	6.1	12.2	19.9	27.5	35.1	36.7
60°	6.1	6.1	6.1	10.7	18.3	27.5	33.6	35.1
62.5°	6.1	6.1	6.1	10.7	18.3	26.0	33.6	33.6
65°	6.1	6.1	6.1	9.2	16.8	24.4	30.6	32.1
67.5°	6.1	6.1	6.1	9.2	15.3	22.9	29.0	30.6
70°	4.6	6.1	6.1	7.6	13.8	21.4	27.5	29.0
72.5°	4.6	4.6	6.1	7.6	12.2	18.3	24.4	26.0
75°	4.6	4.6	4.6	6.1	10.7	16.8	21.4	22.9
77.5°	4.6	4.6	4.6	6.1	9.2	13.8	19.9	19.9
80°	3.1	4.6	4.6	4.6	7.6	10.7	15.3	16.8
82.5°	3.1	3.1	3.1	4.6	6.1	9.2	12.2	12.2
85°	3.1	3.1	3.1	3.1	4.6	6.1	7.6	7.6
87.5°	1.5	3.1	3.1	3.1	3.1	3.1	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)