

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: P1311676

Luminaire Tested: LDSQA3D17R459040DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311676
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R459040DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

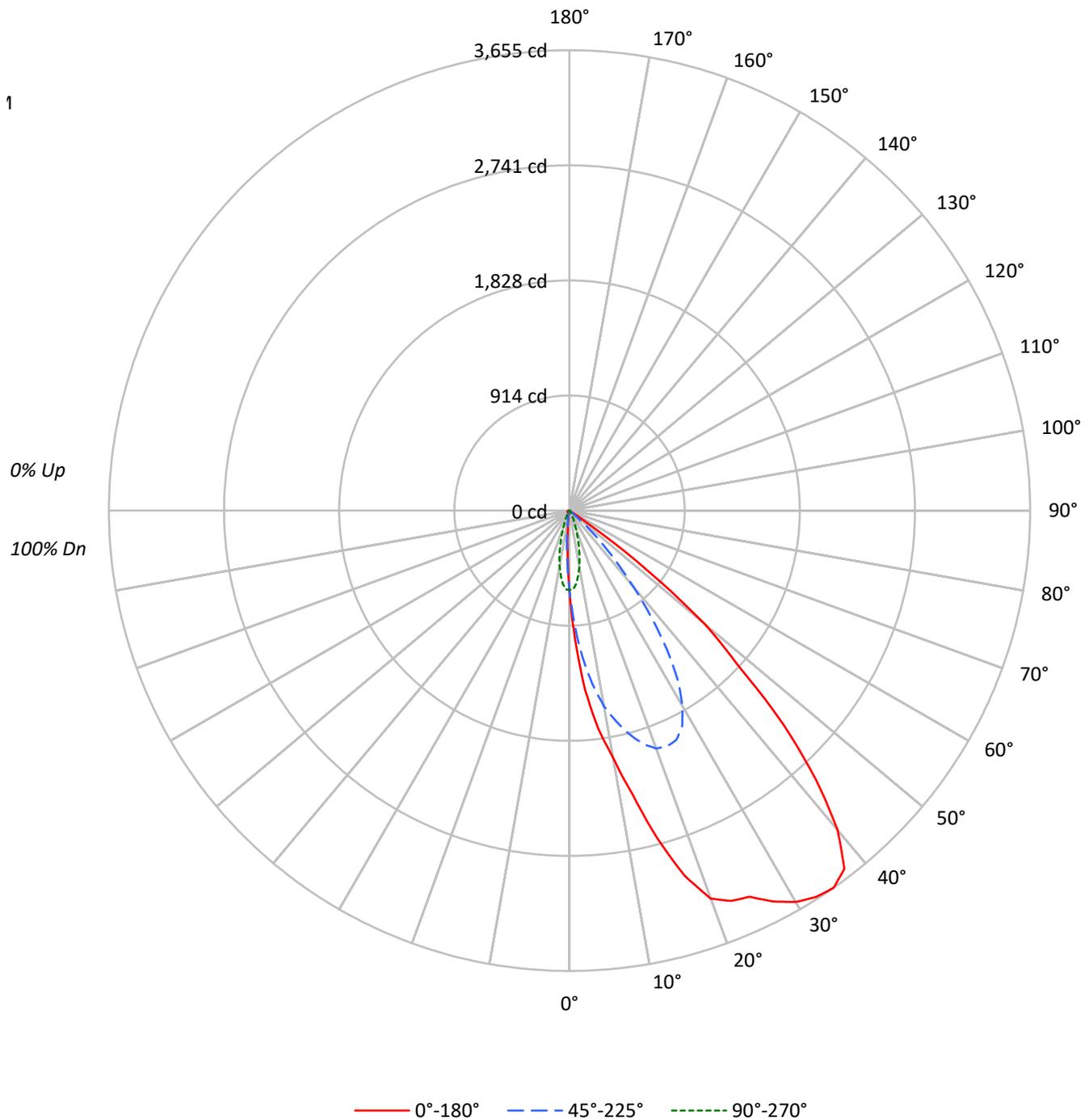
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1656.0 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 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 (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: P1311676
CATALOG NUMBER: LDSQA3D17R459040DE010 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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	96	94	93	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	89	86	84	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	82	79	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	70	65	62	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	64	60	56	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	60	55	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	55	50	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	51	46	42	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	108517	108517	108517	108517	108517
5°	247323	200645	101515	40696	27782
10°	348517	275610	78468	8954	4110
15°	480281	327926	50120	2960	2461
20°	600539	368292	26135	2034	2034
25°	642670	381345	12105	1577	1843
30°	713331	356109	5509	1651	1929
35°	768404	283894	1745	1745	2334
40°	743527	175922	944	2181	2810
45°	583885	82981	1023	2704	3361
50°	375157	9646	1474	3349	4448
55°	56960	841	1651	4144	5405
60°	964	964	1894	4753	5718
65°	1141	1141	2241	5094	6765
70°	1410	1410	2769	5589	7654
75°	932	1863	3660	6455	8318
80°	1389	2777	4166	6843	9620
85°	0	2766	5533	8299	8299

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 583885 cd/sqm



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CATALOG NUMBER: LDSQA3D17R459040DE010 3LSQCA30R 1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.0	4.2
10°-20°	249.3	15.1
20°-30°	438.0	26.5
30°-40°	497.4	30.0
40°-50°	322.1	19.4
50°-60°	63.2	3.8
60°-70°	7.7	0.5
70°-80°	6.4	0.4
80°-90°	2.9	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°	756.3	45.7
0°-40°	1253.7	75.7
0°-60°	1639.0	99.0
0°-90°	1656.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1656.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	630	630	630	630	630	
5°	1431	1161	587	235	161	152
15°	2694	1839	281	17	14	776
25°	3382	2007	64	8	10	1585
35°	3655	1350	8	8	11	2247
45°	2397	341	4	11	14	1807
55°	190	3	6	14	18	362
65°	3	3	6	12	17	3
75°	1	3	6	10	12	2
85°	0	1	3	4	4	0
90°	0	0	0	0	0	



TEST NUMBER: P1311676

CATALOG NUMBER: LDSQA3D17R459040DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1
2.5°	1023.5	1020.7	1024.8	997.1	995.8	975.0	969.4	945.9	914.1	898.8	862.8
5°	1430.6	1416.8	1416.8	1383.5	1372.5	1348.9	1308.8	1258.9	1217.3	1160.6	1099.6
7.5°	1745.0	1742.2	1742.2	1713.2	1685.5	1652.2	1598.2	1541.4	1474.9	1387.7	1299.1
10°	1992.9	1997.1	1984.6	1958.3	1918.1	1882.1	1818.4	1749.2	1667.5	1576.0	1458.3
12.5°	2305.9	2275.4	2265.7	2206.2	2154.9	2085.7	2009.5	1930.6	1829.5	1714.5	1581.6
15°	2693.7	2654.9	2616.1	2537.2	2451.3	2344.7	2225.6	2109.2	1979.1	1839.2	1673.0
17.5°	3039.9	3039.9	2988.7	2864.0	2753.2	2595.4	2434.7	2279.6	2125.9	1941.7	1733.9
20°	3276.7	3264.3	3225.5	3134.1	3008.1	2829.4	2620.3	2402.8	2217.3	2009.5	1768.5
22.5°	3354.3	3351.5	3352.9	3298.9	3197.8	3012.2	2756.0	2499.8	2267.1	2026.1	1751.9
25°	3382.0	3387.5	3401.4	3380.6	3304.4	3118.9	2839.1	2545.5	2282.4	2006.8	1688.2
27.5°	3496.9	3485.9	3501.1	3487.2	3401.4	3179.8	2855.7	2534.4	2249.1	1936.1	1574.7
30°	3587.0	3584.2	3610.5	3598.0	3485.9	3218.6	2840.5	2492.9	2167.4	1790.7	1396.0
32.5°	3638.2	3639.6	3646.5	3595.3	3429.1	3134.1	2765.7	2408.4	2013.7	1601.0	1163.3
35°	3654.8	3646.5	3607.7	3481.7	3254.6	2938.8	2581.5	2207.6	1804.6	1350.3	919.6
37.5°	3582.8	3539.9	3440.2	3251.8	2988.7	2693.7	2346.1	1954.1	1517.9	1066.4	685.5
40°	3307.2	3250.4	3124.4	2931.9	2686.8	2401.5	2045.5	1635.6	1177.2	782.5	482.0
42.5°	2894.5	2865.4	2733.8	2566.3	2358.5	2070.5	1703.5	1288.0	871.1	540.1	307.5
45°	2397.3	2359.9	2276.8	2128.6	1965.2	1663.3	1321.2	922.4	594.1	340.7	152.3
47.5°	1797.6	1800.4	1743.6	1631.4	1470.8	1218.7	904.4	619.1	372.5	175.9	34.6
50°	1400.2	1380.8	1300.4	1185.5	998.5	811.6	584.4	390.5	196.7	36.0	2.8
52.5°	775.6	788.0	745.1	707.7	610.8	484.7	344.8	198.0	41.5	4.2	2.8
55°	189.7	200.8	192.5	196.7	203.6	181.4	139.9	38.8	4.2	2.8	2.8
57.5°	4.2	4.2	4.2	4.2	6.9	9.7	9.7	2.8	2.8	2.8	2.8
60°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
62.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
65°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
67.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
70°	2.8	2.8	2.8	1.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8
75°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8
82.5°	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	2.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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: P1311676

CATALOG NUMBER: LDSQA3D17R459040DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	630.1	630.1	630.1	630.1	630.1	630.1	630.1	630.1
2.5°	844.8	818.5	770.0	626.0	502.7	405.8	347.6	342.1
5°	1045.6	975.0	872.5	587.2	371.2	235.4	170.3	160.7
7.5°	1204.9	1105.2	947.3	523.5	253.4	120.5	66.5	55.4
10°	1336.5	1195.2	986.1	448.7	159.3	51.2	27.7	23.5
12.5°	1426.5	1256.1	993.0	365.6	91.4	24.9	18.0	16.6
15°	1484.6	1275.5	959.8	281.1	51.2	16.6	15.2	13.8
17.5°	1508.2	1258.9	896.0	203.6	27.7	12.5	12.5	12.5
20°	1497.1	1204.9	801.9	142.6	18.0	11.1	11.1	11.1
22.5°	1444.5	1112.1	684.2	95.6	12.5	9.7	9.7	9.7
25°	1340.6	986.1	559.5	63.7	8.3	8.3	9.7	9.7
27.5°	1185.5	831.0	427.9	42.9	6.9	8.3	9.7	9.7
30°	990.2	657.8	307.5	27.7	6.9	8.3	8.3	9.7
32.5°	786.6	479.2	202.2	16.6	5.5	8.3	9.7	11.1
35°	570.6	326.8	128.8	8.3	6.9	8.3	9.7	11.1
37.5°	400.2	213.3	74.8	5.5	6.9	8.3	11.1	11.1
40°	260.4	119.1	27.7	4.2	6.9	9.7	11.1	12.5
42.5°	135.7	41.5	5.5	4.2	6.9	9.7	12.5	13.8
45°	34.6	5.5	1.4	4.2	8.3	11.1	13.8	13.8
47.5°	4.2	1.4	1.4	5.5	8.3	12.5	13.8	15.2
50°	1.4	2.8	2.8	5.5	8.3	12.5	15.2	16.6
52.5°	2.8	2.8	2.8	5.5	9.7	12.5	16.6	18.0
55°	2.8	2.8	2.8	5.5	9.7	13.8	16.6	18.0
57.5°	2.8	2.8	2.8	5.5	9.7	13.8	16.6	16.6
60°	2.8	2.8	2.8	5.5	9.7	13.8	16.6	16.6
62.5°	2.8	2.8	4.2	5.5	9.7	12.5	16.6	16.6
65°	2.8	4.2	4.2	5.5	9.7	12.5	15.2	16.6
67.5°	2.8	2.8	4.2	5.5	9.7	12.5	15.2	16.6
70°	2.8	2.8	4.2	5.5	8.3	11.1	13.8	15.2
72.5°	2.8	2.8	4.2	5.5	8.3	11.1	12.5	13.8
75°	2.8	2.8	4.2	5.5	6.9	9.7	12.5	12.5
77.5°	2.8	2.8	4.2	4.2	6.9	8.3	11.1	11.1
80°	2.8	2.8	4.2	4.2	5.5	6.9	8.3	9.7
82.5°	2.8	2.8	2.8	4.2	4.2	5.5	6.9	6.9
85°	2.8	2.8	2.8	2.8	2.8	4.2	4.2	4.2
87.5°	1.4	2.8	2.8	2.8	2.8	2.8	2.8	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)