

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: P1320455

Luminaire Tested: LDSQA3D20R559840D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320455
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: LDSQA3D20R559840D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

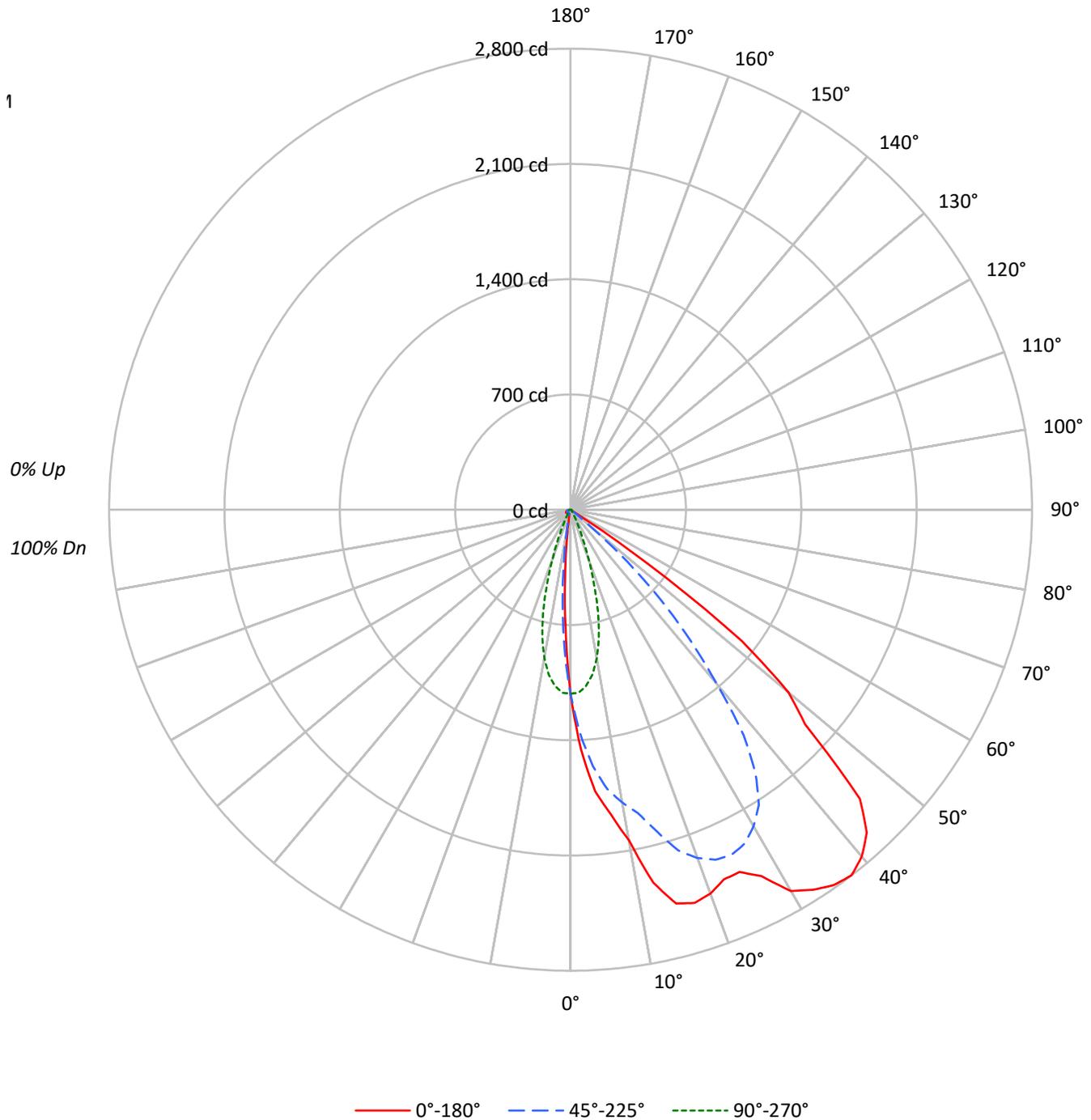
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1864.0 lumens
Efficiency: N/A
Efficacy: 68.0 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): 27.4
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: P1320455
CATALOG NUMBER: LDSQA3D20R559840D010 3LSQCA30R 1MW

Luminous Intensity Polar Plot





TEST NUMBER: P1320455

CATALOG NUMBER: LDSQA3D20R559840D010 3LSQCA30R 1MW

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	100	100	100	100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91	91	91	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	81	81	81	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73	73	73	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65	65	65	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59	59	59	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53	53	53	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48	48	48	48
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	44	44	44	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40	40	40	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	192407	192407	192407	192407	192407
5°	296715	270126	185864	95447	62704
10°	356492	315727	159980	24063	9636
15°	441412	360572	114325	6633	5188
20°	454615	412480	59051	4454	4454
25°	461214	439380	23696	3991	4618
30°	531607	441462	10301	4176	4832
35°	585175	411576	4415	4415	5445
40°	618100	309780	2540	5103	5823
45°	604564	189295	2363	5529	7088
50°	462449	40350	2599	6511	8252
55°	169677	1471	2913	7296	9248
60°	1688	1688	3341	8370	10609
65°	1997	1997	3953	8558	11207
70°	1611	2467	4079	9769	13042
75°	1065	2129	4325	10780	15105
80°	1587	3174	4860	11207	16067
85°	0	3162	6323	12844	16006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 604564 cd/sqm



TEST NUMBER: P1320455

CATALOG NUMBER: LDSQA3D20R559840D010 3LSQCA30R 1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.4	5.3
10°-20°	281.7	15.1
20°-30°	432.1	23.2
30°-40°	503.5	27.0
40°-50°	402.3	21.6
50°-60°	119.1	6.4
60°-70°	12.8	0.7
70°-80°	10.0	0.5
80°-90°	4.2	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°	812.1	43.6
0°-40°	1315.6	70.6
0°-60°	1837.0	98.6
0°-90°	1864.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1864.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1117	1117	1117	1117	1117	
5°	1716	1562	1075	552	363	171
15°	2476	2022	641	37	29	683
25°	2427	2312	125	21	24	1153
35°	2783	1958	21	21	26	1734
45°	2482	777	10	23	29	1790
55°	565	5	10	24	31	599
65°	5	5	10	21	28	4
75°	2	3	6	16	23	2
85°	0	2	3	6	8	1
90°	0	0	0	0	0	



TEST NUMBER: P1320455

CATALOG NUMBER: LDSQA3D20R559840D010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2
2.5°	1457.2	1457.2	1452.4	1454.0	1450.8	1433.0	1429.7	1407.0	1387.6	1366.6	1348.8
5°	1716.3	1719.5	1714.7	1705.0	1692.0	1679.1	1651.5	1630.5	1603.0	1562.5	1525.2
7.5°	1863.6	1860.4	1852.3	1849.1	1841.0	1826.4	1807.0	1784.3	1751.9	1711.4	1667.7
10°	2038.5	2011.0	2002.9	1989.9	1964.0	1934.9	1900.9	1870.1	1842.6	1805.4	1758.4
12.5°	2320.3	2315.4	2283.0	2258.7	2223.1	2158.3	2100.0	2032.0	1951.1	1886.3	1824.8
15°	2475.7	2478.9	2464.4	2444.9	2422.3	2368.8	2310.5	2231.2	2135.7	2022.3	1921.9
17.5°	2503.2	2508.1	2500.0	2491.9	2485.4	2454.6	2419.0	2362.3	2274.9	2169.7	2020.7
20°	2480.5	2490.3	2491.9	2501.6	2514.5	2501.6	2472.5	2433.6	2360.7	2250.6	2108.1
22.5°	2430.4	2448.2	2461.1	2495.1	2529.1	2529.1	2511.3	2480.5	2409.3	2300.8	2155.1
25°	2427.1	2430.4	2435.2	2490.3	2543.7	2555.0	2538.8	2506.5	2428.7	2312.2	2153.5
27.5°	2508.1	2487.0	2454.6	2509.7	2572.8	2582.6	2559.9	2516.2	2423.9	2286.2	2098.4
30°	2673.2	2626.3	2558.3	2598.7	2642.5	2631.1	2585.8	2516.2	2391.5	2219.9	1994.8
32.5°	2736.4	2710.5	2686.2	2729.9	2738.0	2691.0	2610.1	2506.5	2339.7	2126.0	1824.8
35°	2783.3	2784.9	2775.2	2783.3	2744.5	2678.1	2589.0	2453.0	2242.5	1957.6	1599.7
37.5°	2799.5	2802.8	2781.7	2752.6	2694.3	2618.2	2511.3	2355.9	2080.6	1726.0	1259.7
40°	2749.3	2739.6	2705.6	2665.1	2602.0	2524.3	2407.7	2176.1	1839.4	1377.9	982.8
42.5°	2660.3	2644.1	2603.6	2555.0	2488.6	2389.9	2203.7	1923.6	1494.5	1075.1	688.1
45°	2482.2	2470.8	2420.6	2385.0	2305.7	2177.8	1938.1	1585.2	1156.1	777.2	398.3
47.5°	1928.4	1930.0	1968.9	1986.7	1959.2	1857.2	1575.4	1204.7	843.6	463.1	134.4
50°	1726.0	1717.9	1679.1	1625.6	1536.6	1384.4	1156.1	851.7	498.7	150.6	19.4
52.5°	1309.9	1309.9	1290.5	1262.9	1169.0	1021.7	782.1	471.2	174.9	25.9	4.9
55°	565.1	535.9	552.1	582.9	558.6	485.7	365.9	140.9	30.8	4.9	4.9
57.5°	8.1	19.4	29.1	47.0	63.1	76.1	40.5	14.6	4.9	4.9	4.9
60°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
62.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
65°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
67.5°	3.2	3.2	3.2	4.9	3.2	4.9	4.9	4.9	4.9	4.9	4.9
70°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.9	4.9
72.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
75°	1.6	1.6	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	3.2	3.2	3.2
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	3.2
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2
85°	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6
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: P1320455

CATALOG NUMBER: LDSQA3D20R559840D010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2	1117.2
2.5°	1322.9	1295.3	1250.0	1112.4	969.9	838.7	744.8	709.2
5°	1483.1	1433.0	1356.9	1075.1	791.8	552.1	416.1	362.7
7.5°	1609.4	1544.7	1434.6	1010.4	581.3	294.7	176.5	139.2
10°	1693.6	1622.4	1478.3	914.8	385.4	137.6	66.4	55.1
12.5°	1755.2	1666.1	1494.5	791.8	226.7	63.1	35.6	32.4
15°	1800.5	1685.5	1475.1	641.2	124.7	37.2	29.1	29.1
17.5°	1863.6	1695.3	1428.1	472.8	71.2	27.5	27.5	27.5
20°	1912.2	1695.3	1339.0	322.2	43.7	24.3	24.3	24.3
22.5°	1936.5	1669.3	1230.6	204.0	30.8	22.7	24.3	24.3
25°	1912.2	1606.2	1091.3	124.7	24.3	21.0	22.7	24.3
27.5°	1823.2	1479.9	905.1	79.3	19.4	21.0	22.7	24.3
30°	1674.2	1296.9	694.6	51.8	17.8	21.0	22.7	24.3
32.5°	1463.7	1024.9	450.1	34.0	16.2	21.0	22.7	24.3
35°	1143.1	725.4	272.0	21.0	16.2	21.0	24.3	25.9
37.5°	856.5	484.1	147.3	13.0	16.2	21.0	24.3	25.9
40°	594.2	281.7	63.1	11.3	16.2	22.7	25.9	25.9
42.5°	344.9	111.7	16.2	9.7	16.2	22.7	25.9	27.5
45°	126.3	22.7	4.9	9.7	17.8	22.7	25.9	29.1
47.5°	17.8	4.9	4.9	9.7	17.8	22.7	27.5	29.1
50°	4.9	4.9	4.9	9.7	17.8	24.3	29.1	30.8
52.5°	4.9	4.9	4.9	9.7	17.8	24.3	29.1	30.8
55°	4.9	4.9	4.9	9.7	17.8	24.3	29.1	30.8
57.5°	4.9	4.9	4.9	9.7	17.8	24.3	29.1	30.8
60°	4.9	4.9	4.9	9.7	16.2	24.3	29.1	30.8
62.5°	4.9	4.9	4.9	9.7	16.2	22.7	27.5	29.1
65°	4.9	4.9	4.9	9.7	14.6	21.0	27.5	27.5
67.5°	4.9	4.9	4.9	8.1	14.6	21.0	25.9	27.5
70°	4.9	4.9	4.9	8.1	13.0	19.4	24.3	25.9
72.5°	4.9	4.9	4.9	6.5	11.3	17.8	22.7	24.3
75°	3.2	4.9	4.9	6.5	11.3	16.2	21.0	22.7
77.5°	3.2	4.9	4.9	4.9	9.7	13.0	17.8	19.4
80°	3.2	3.2	4.9	4.9	8.1	11.3	14.6	16.2
82.5°	3.2	3.2	3.2	4.9	6.5	8.1	11.3	11.3
85°	3.2	3.2	3.2	3.2	4.9	6.5	8.1	8.1
87.5°	1.6	1.6	3.2	3.2	3.2	3.2	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)