

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: P1316951

Luminaire Tested: LDSQA3D20R559740D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316951
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: LDSQA3D20R559740D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

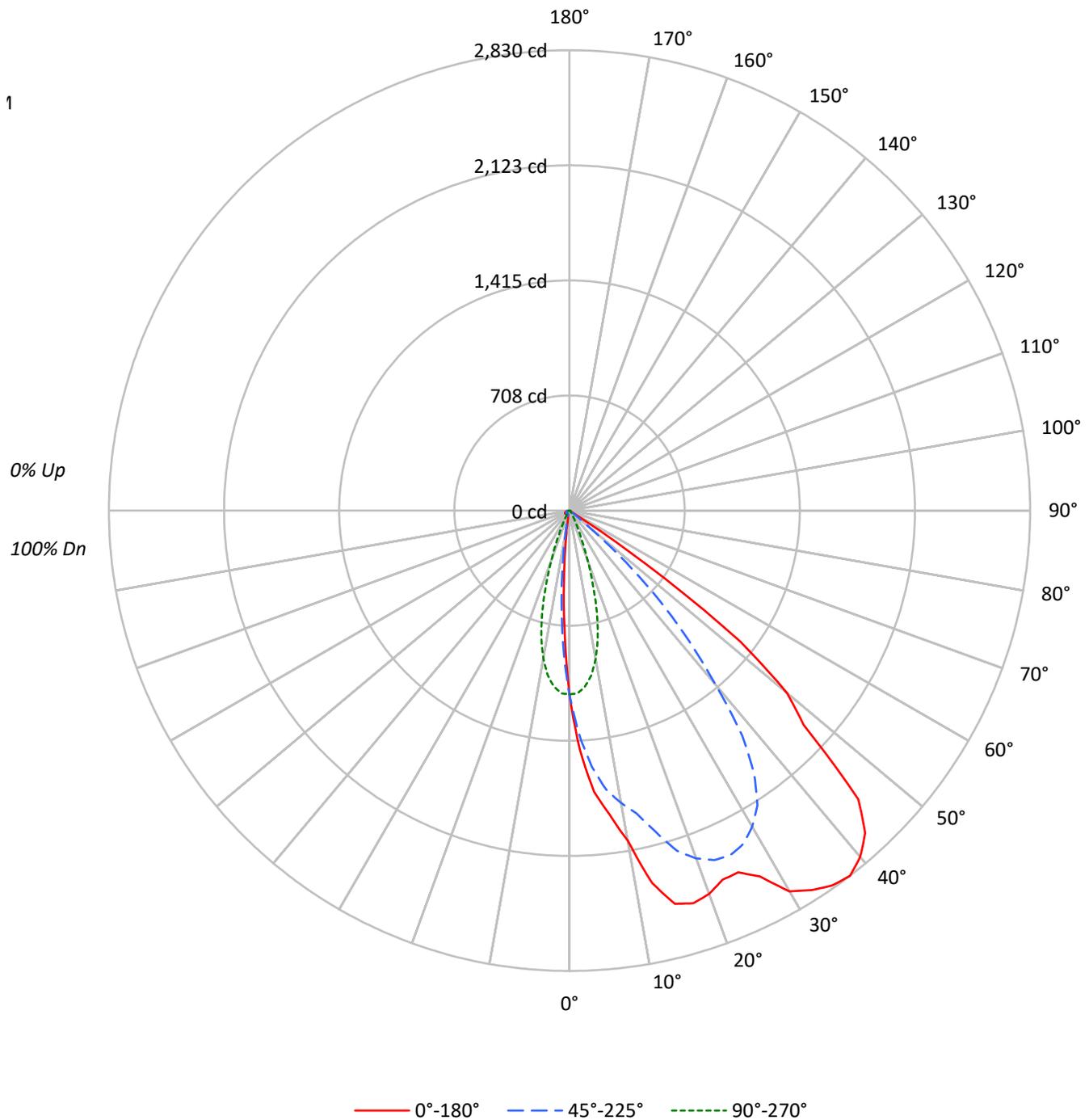
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1884.0 lumens
Efficiency: N/A
Efficacy: 65.4 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): 28.8
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

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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91		
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	81		
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73		
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59		
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53		
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48		
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	44		
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40		
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	194474	194474	194474	194474	194474
5°	299896	273030	187869	96485	63378
10°	360322	319103	161694	24326	9723
15°	446155	364441	115555	6704	5260
20°	459508	416915	59693	4490	4490
25°	466173	444092	23943	4048	4656
30°	537315	446195	10421	4236	4872
35°	591461	415991	4478	4478	5508
40°	624732	313108	2585	5148	5890
45°	611042	191316	2387	5578	7185
50°	467405	40779	2626	6564	8333
55°	171479	1471	2943	7356	9338
60°	1688	1688	3376	8439	10712
65°	1997	1997	3994	8680	11329
70°	1662	2467	4129	9869	13193
75°	1065	2196	4325	10913	15238
80°	1587	3273	4860	11406	16265
85°	0	3162	6521	12844	16203

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 611042 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.4	5.3
10°-20°	284.7	15.1
20°-30°	436.7	23.2
30°-40°	508.9	27.0
40°-50°	406.6	21.6
50°-60°	120.4	6.4
60°-70°	12.9	0.7
70°-80°	10.1	0.5
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°	820.8	43.6
0°-40°	1329.7	70.6
0°-60°	1856.7	98.6
0°-90°	1884.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1884.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1129	1129	1129	1129	1129	
5°	1735	1579	1087	558	367	173
15°	2502	2044	648	38	30	691
25°	2453	2337	126	21	24	1165
35°	2813	1979	21	21	26	1752
45°	2509	786	10	23	30	1809
55°	571	5	10	24	31	605
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	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1129.2	1129.2	1129.2	1129.2	1129.2	1129.2	1129.2	1129.2	1129.2	1129.2	1129.2
2.5°	1472.9	1472.9	1468.0	1469.6	1466.3	1448.3	1445.1	1422.1	1402.5	1381.2	1363.2
5°	1734.7	1738.0	1733.1	1723.3	1710.2	1697.1	1669.3	1648.0	1620.2	1579.3	1541.6
7.5°	1883.6	1880.4	1872.2	1868.9	1860.7	1846.0	1826.4	1803.5	1770.7	1729.8	1685.6
10°	2060.4	2032.6	2024.4	2011.3	1985.1	1955.7	1921.3	1890.2	1862.4	1824.7	1777.3
12.5°	2345.1	2340.2	2307.5	2283.0	2247.0	2181.5	2122.6	2053.8	1972.0	1906.6	1844.4
15°	2502.3	2505.5	2490.8	2471.2	2448.2	2394.2	2335.3	2255.1	2158.6	2044.0	1942.6
17.5°	2530.1	2535.0	2526.8	2518.6	2512.1	2481.0	2445.0	2387.7	2299.3	2192.9	2042.4
20°	2507.2	2517.0	2518.6	2528.4	2541.5	2528.4	2499.0	2459.7	2386.1	2274.8	2130.8
22.5°	2456.4	2474.4	2487.5	2521.9	2556.3	2556.3	2538.3	2507.2	2435.2	2325.5	2178.2
25°	2453.2	2456.4	2461.3	2517.0	2571.0	2582.4	2566.1	2533.3	2454.8	2337.0	2176.6
27.5°	2535.0	2513.7	2481.0	2536.6	2600.4	2610.3	2587.4	2543.2	2449.9	2310.8	2120.9
30°	2701.9	2654.4	2585.7	2626.6	2670.8	2659.4	2613.5	2543.2	2417.2	2243.7	2016.2
32.5°	2765.7	2739.5	2715.0	2759.2	2767.4	2719.9	2638.1	2533.3	2364.8	2148.8	1844.4
35°	2813.2	2814.8	2805.0	2813.2	2773.9	2706.8	2616.8	2479.3	2266.6	1978.6	1616.9
37.5°	2829.6	2832.8	2811.6	2782.1	2723.2	2646.3	2538.3	2381.1	2102.9	1744.5	1273.2
40°	2778.8	2769.0	2734.6	2693.7	2629.9	2551.3	2433.5	2199.5	1859.1	1392.7	993.4
42.5°	2688.8	2672.5	2631.5	2582.4	2515.3	2415.5	2227.3	1944.2	1510.5	1086.7	695.5
45°	2508.8	2497.3	2446.6	2410.6	2330.4	2201.1	1958.9	1602.2	1168.5	785.5	402.6
47.5°	1949.1	1950.7	1990.0	2008.0	1980.2	1877.1	1592.3	1217.6	852.6	468.0	135.8
50°	1744.5	1736.4	1697.1	1643.1	1553.1	1399.2	1168.5	860.8	504.1	152.2	19.6
52.5°	1324.0	1324.0	1304.3	1276.5	1181.6	1032.6	790.4	476.2	176.7	26.2	4.9
55°	571.1	541.7	558.1	589.2	564.6	491.0	369.9	142.4	31.1	4.9	4.9
57.5°	8.2	19.6	29.5	47.5	63.8	76.9	40.9	14.7	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°	3.3	3.3	3.3	4.9	3.3	4.9	4.9	4.9	4.9	4.9	4.9
70°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.9	4.9
72.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
75°	1.6	1.6	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	3.3	3.3	3.3	3.3	3.3
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.3	3.3	3.3
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.3	3.3
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



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CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	1129.2	1129.2	1129.2	1129.2	1129.2	1129.2	1129.2	1129.2
2.5°	1337.0	1309.2	1263.4	1124.3	980.3	847.7	752.8	716.8
5°	1499.1	1448.3	1371.4	1086.7	800.3	558.1	420.6	366.6
7.5°	1626.7	1561.2	1450.0	1021.2	587.5	297.8	178.4	140.7
10°	1711.8	1639.8	1494.2	924.6	389.5	139.1	67.1	55.6
12.5°	1774.0	1684.0	1510.5	800.3	229.1	63.8	36.0	32.7
15°	1819.8	1703.6	1490.9	648.1	126.0	37.6	29.5	29.5
17.5°	1883.6	1713.4	1443.4	477.9	72.0	27.8	27.8	27.8
20°	1932.7	1713.4	1353.4	325.7	44.2	24.5	24.5	24.5
22.5°	1957.3	1687.3	1243.8	206.2	31.1	22.9	24.5	24.5
25°	1932.7	1623.4	1103.0	126.0	24.5	21.3	22.9	24.5
27.5°	1842.7	1495.8	914.8	80.2	19.6	21.3	22.9	24.5
30°	1692.2	1310.9	702.1	52.4	18.0	21.3	22.9	24.5
32.5°	1479.4	1035.9	455.0	34.4	16.4	21.3	22.9	24.5
35°	1155.4	733.2	274.9	21.3	16.4	21.3	24.5	26.2
37.5°	865.7	489.3	148.9	13.1	16.4	21.3	24.5	26.2
40°	600.6	284.8	63.8	11.5	16.4	22.9	26.2	26.2
42.5°	348.6	112.9	16.4	9.8	16.4	22.9	26.2	27.8
45°	127.6	22.9	4.9	9.8	18.0	22.9	26.2	29.5
47.5°	18.0	4.9	4.9	9.8	18.0	22.9	27.8	29.5
50°	4.9	4.9	4.9	9.8	18.0	24.5	29.5	31.1
52.5°	4.9	4.9	4.9	9.8	18.0	24.5	29.5	31.1
55°	4.9	4.9	4.9	9.8	18.0	24.5	29.5	31.1
57.5°	4.9	4.9	4.9	9.8	18.0	24.5	29.5	31.1
60°	4.9	4.9	4.9	9.8	16.4	24.5	29.5	31.1
62.5°	4.9	4.9	4.9	9.8	16.4	22.9	27.8	29.5
65°	4.9	4.9	4.9	9.8	14.7	21.3	27.8	27.8
67.5°	4.9	4.9	4.9	8.2	14.7	21.3	26.2	27.8
70°	4.9	4.9	4.9	8.2	13.1	19.6	24.5	26.2
72.5°	4.9	4.9	4.9	6.5	11.5	18.0	22.9	24.5
75°	3.3	4.9	4.9	6.5	11.5	16.4	21.3	22.9
77.5°	3.3	4.9	4.9	4.9	9.8	13.1	18.0	19.6
80°	3.3	3.3	4.9	4.9	8.2	11.5	14.7	16.4
82.5°	3.3	3.3	3.3	4.9	6.5	8.2	11.5	11.5
85°	3.3	3.3	3.3	3.3	4.9	6.5	8.2	8.2
87.5°	1.6	1.6	3.3	3.3	3.3	3.3	3.3	3.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)