

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: P1311977

Luminaire Tested: LDSQA3D24R509040D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311977
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: LDSQA3D24R509040D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

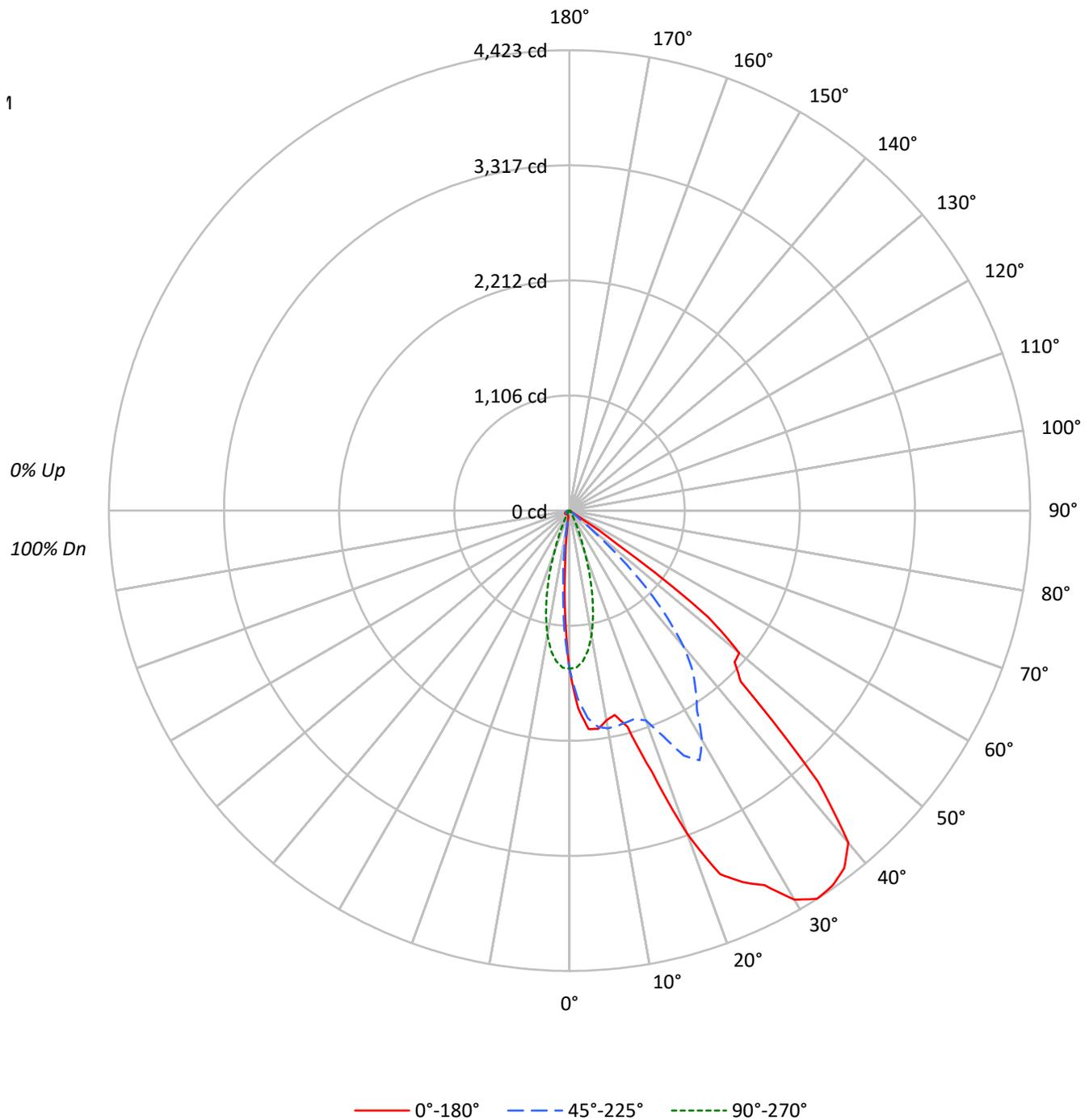
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2360.0 lumens
Efficiency: N/A
Efficacy: 81.9 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): 28.8
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	93	95	94	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	88	85	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	81	77	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	74	70	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	63	58	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	47
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	50	45	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	37	46	41	37	46	41	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	261313	261313	261313	261313	261313
5°	364363	345675	251161	120740	78332
10°	357663	371479	212269	25445	10912
15°	383555	375406	150091	8897	8523
20°	605689	393126	79230	7624	7991
25°	748458	493708	31601	7107	7905
30°	858085	506332	12807	7020	8273
35°	925099	444416	5677	7422	9167
40°	936423	382712	4204	8408	10274
45°	565959	248041	4043	9109	11642
50°	570237	42869	4448	10583	13370
55°	168506	2492	4984	11860	14983
60°	2859	2859	4994	12882	16464
65°	2527	2527	5094	13570	17768
70°	3122	3122	5237	14653	19890
75°	2795	2795	5523	15238	20761
80°	2083	4166	6149	14381	22712
85°	4150	8299	8299	16401	20551

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 646456 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.7	5.2
10°-20°	304.6	12.9
20°-30°	570.7	24.2
30°-40°	682.4	28.9
40°-50°	489.0	20.7
50°-60°	150.7	6.4
60°-70°	19.7	0.8
70°-80°	14.3	0.6
80°-90°	5.9	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°	998.1	42.3
0°-40°	1680.4	71.2
0°-60°	2320.1	98.3
0°-90°	2360.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2360.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1517	1517	1517	1517	1517	
5°	2108	2000	1453	698	453	196
15°	2151	2106	842	50	48	689
25°	3939	2598	166	37	42	1815
35°	4400	2114	27	35	44	2730
45°	2324	1018	17	37	48	2134
55°	561	8	17	40	50	722
65°	6	6	12	33	44	7
75°	4	4	8	23	31	4
85°	2	4	4	8	10	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°	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3
2.5°	1897.6	1901.8	1908.0	1891.4	1881.0	1872.7	1858.1	1854.0	1818.7	1804.1	1789.6
5°	2107.6	2103.4	2107.6	2101.3	2097.2	2084.7	2072.2	2051.4	2028.6	1999.5	1966.2
7.5°	2113.8	2109.6	2118.0	2118.0	2126.3	2126.3	2126.3	2128.3	2115.9	2095.1	2066.0
10°	2045.2	2045.2	2053.5	2049.4	2063.9	2070.2	2084.7	2109.6	2122.1	2124.2	2115.9
12.5°	2009.9	2009.9	2012.0	2003.6	2007.8	2014.0	2030.7	2059.8	2088.9	2118.0	2134.6
15°	2151.2	2155.4	2126.3	2084.7	2053.5	2020.3	2009.9	2028.6	2059.8	2105.5	2142.9
17.5°	2631.3	2637.6	2606.4	2506.6	2411.0	2273.8	2151.2	2090.9	2057.7	2095.1	2145.0
20°	3304.8	3281.9	3227.9	3121.9	2982.6	2770.6	2579.4	2386.1	2201.1	2145.0	2161.6
22.5°	3780.7	3772.4	3728.8	3610.3	3489.7	3292.3	3049.1	2778.9	2510.8	2340.4	2251.0
25°	3938.7	3932.5	3893.0	3822.3	3755.8	3606.1	3387.9	3115.6	2835.0	2598.1	2373.6
27.5°	4057.2	4048.8	3986.5	3907.5	3838.9	3687.2	3487.7	3281.9	3024.2	2704.1	2359.1
30°	4314.9	4292.0	4204.7	4063.4	3932.5	3722.5	3502.2	3246.6	2897.4	2546.1	2209.4
32.5°	4423.0	4410.5	4335.7	4221.4	4077.9	3803.6	3469.0	3040.8	2581.5	2278.0	2032.7
35°	4400.1	4381.4	4304.5	4173.6	3999.0	3735.0	3288.1	2699.9	2325.8	2113.8	1837.4
37.5°	4331.5	4304.5	4213.0	4059.2	3847.2	3502.2	2918.2	2423.5	2182.4	1943.4	1571.3
40°	4165.2	4121.6	4015.6	3855.6	3643.5	3190.4	2581.5	2257.2	2032.7	1702.3	1274.1
42.5°	3529.2	3506.4	3558.3	3531.3	3344.2	2810.1	2342.4	2105.5	1795.8	1375.9	922.8
45°	2323.7	2363.2	2456.7	2616.8	2654.2	2417.3	2147.1	1856.1	1477.8	1018.4	532.1
47.5°	2151.2	2142.9	2165.8	2196.9	2203.2	2103.4	1858.1	1533.9	1097.4	582.0	147.6
50°	2128.3	2115.9	2097.2	2059.8	1980.8	1787.5	1509.0	1118.2	633.9	160.0	10.4
52.5°	1681.5	1669.0	1669.0	1615.0	1513.1	1326.1	1041.3	615.2	176.7	10.4	8.3
55°	561.2	598.6	592.4	590.3	636.0	586.1	448.9	158.0	14.5	8.3	8.3
57.5°	10.4	10.4	10.4	18.7	29.1	41.6	24.9	12.5	8.3	8.3	8.3
60°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
62.5°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3
65°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	8.3
67.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
70°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
72.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	6.2	6.2	6.2
75°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	6.2
77.5°	2.1	2.1	2.1	2.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.2	4.2	4.2	4.2
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.2	4.2	4.2
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.2	4.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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	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°	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3	1517.3
2.5°	1756.3	1727.2	1671.1	1511.0	1334.4	1132.8	995.6	979.0
5°	1914.3	1870.6	1779.2	1452.8	1049.6	698.4	519.6	453.1
7.5°	2018.2	1960.0	1847.8	1357.2	764.9	367.9	197.5	158.0
10°	2080.5	2026.5	1883.1	1213.8	486.4	145.5	66.5	62.4
12.5°	2113.8	2061.8	1895.6	1041.3	274.4	66.5	52.0	52.0
15°	2136.7	2080.5	1876.9	841.8	137.2	49.9	47.8	47.8
17.5°	2147.1	2078.5	1822.8	633.9	72.7	45.7	45.7	45.7
20°	2153.3	2055.6	1723.0	432.3	49.9	41.6	43.6	43.6
22.5°	2159.5	1999.5	1592.1	274.4	39.5	39.5	41.6	41.6
25°	2147.1	1901.8	1407.1	166.3	35.3	37.4	39.5	41.6
27.5°	2057.7	1754.2	1182.6	101.8	31.2	35.3	39.5	41.6
30°	1903.9	1538.1	922.8	64.4	29.1	35.3	39.5	41.6
32.5°	1704.3	1290.7	658.9	39.5	29.1	35.3	39.5	41.6
35°	1436.2	987.3	428.2	27.0	29.1	35.3	41.6	43.6
37.5°	1134.8	690.1	230.7	20.8	29.1	35.3	41.6	43.6
40°	816.8	413.6	83.1	18.7	27.0	37.4	43.6	45.7
42.5°	478.0	153.8	14.5	16.6	27.0	37.4	43.6	45.7
45°	137.2	16.6	8.3	16.6	27.0	37.4	45.7	47.8
47.5°	10.4	6.2	8.3	16.6	27.0	37.4	45.7	49.9
50°	6.2	6.2	6.2	16.6	27.0	39.5	47.8	49.9
52.5°	8.3	8.3	8.3	16.6	27.0	39.5	47.8	49.9
55°	8.3	8.3	8.3	16.6	27.0	39.5	47.8	49.9
57.5°	8.3	8.3	8.3	16.6	27.0	37.4	47.8	49.9
60°	8.3	8.3	8.3	14.5	24.9	37.4	45.7	47.8
62.5°	8.3	8.3	8.3	14.5	24.9	35.3	45.7	45.7
65°	8.3	8.3	8.3	12.5	22.9	33.3	41.6	43.6
67.5°	8.3	8.3	8.3	12.5	20.8	31.2	39.5	41.6
70°	6.2	8.3	8.3	10.4	18.7	29.1	37.4	39.5
72.5°	6.2	6.2	8.3	10.4	16.6	24.9	33.3	35.3
75°	6.2	6.2	6.2	8.3	14.5	22.9	29.1	31.2
77.5°	6.2	6.2	6.2	8.3	12.5	18.7	27.0	27.0
80°	4.2	6.2	6.2	6.2	10.4	14.5	20.8	22.9
82.5°	4.2	4.2	4.2	6.2	8.3	12.5	16.6	16.6
85°	4.2	4.2	4.2	4.2	6.2	8.3	10.4	10.4
87.5°	2.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)