

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: P1313054

Luminaire Tested: LDSQA3D24R509050D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1313054
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: LDSQA3D24R509050D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

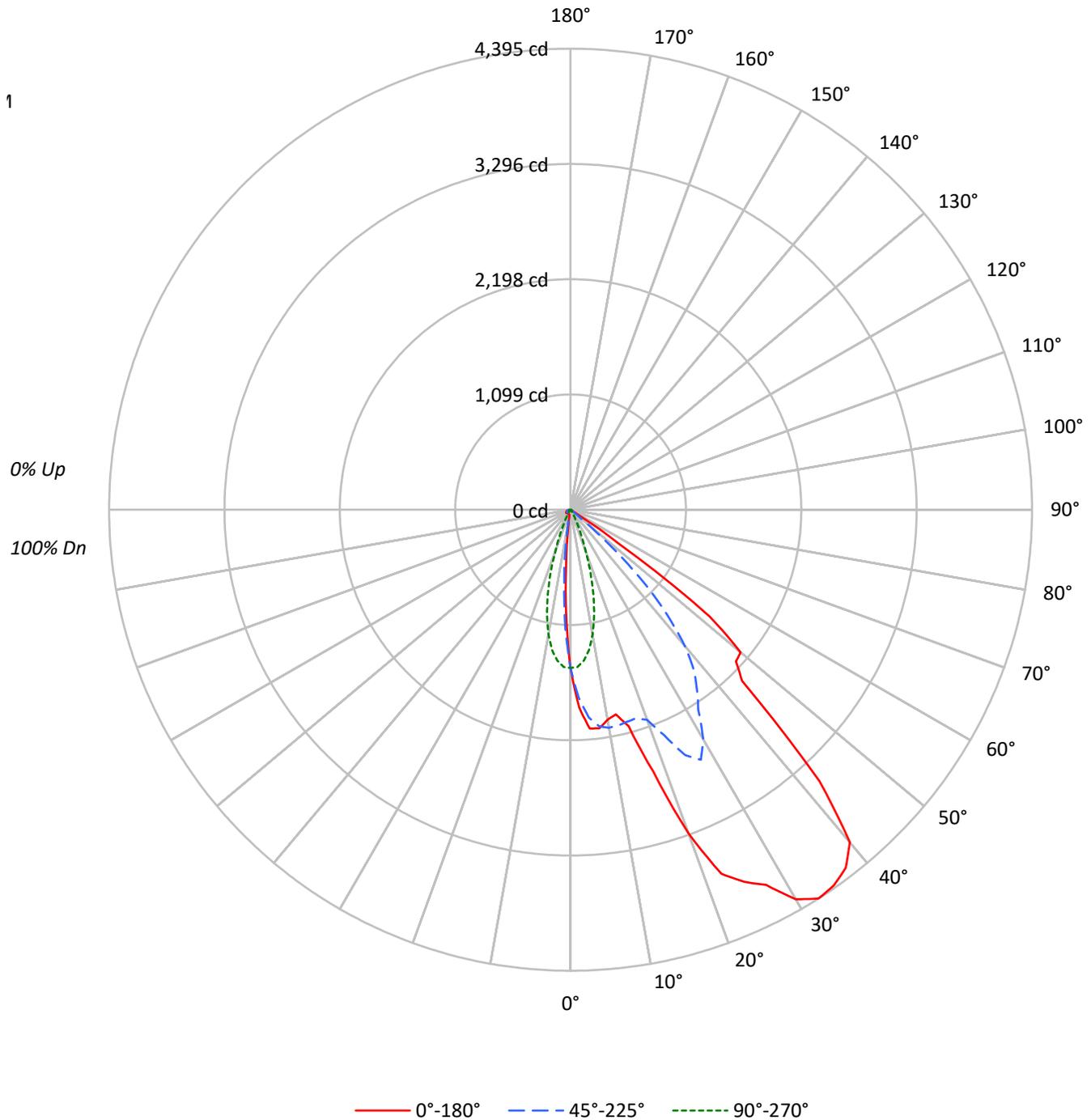
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2345.0 lumens
Efficiency: N/A
Efficacy: 81.4 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	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	103	110	107	104	101	102	100	98	99	97	95	95	94	93	93	93	93	91	
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	83	83	83	81	
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	74	74	74	73	
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	67	67	67	65	
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	60	60	60	58	
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	54	54	54	53	
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	49	49	49	47	
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	45	45	45	43	
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	41	41	41	39	
10	61	50	43	38	60	49	42	38	48	42	38	47	42	37	46	41	37	37	37	37	36	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	259643	259643	259643	259643	259643
5°	362046	343479	249570	119962	77831
10°	355390	369118	210922	25288	10843
15°	381112	373017	149128	8844	8469
20°	601840	390615	78735	7569	7954
25°	743707	490573	31392	7069	7848
30°	852636	503110	12727	6980	8213
35°	919212	441599	5635	7380	9125
40°	930488	380262	4182	8363	10207
45°	562379	246482	4019	9060	11569
50°	566620	42601	4421	10503	13289
55°	167426	2492	4954	11770	14893
60°	2859	2859	4994	12813	16361
65°	2527	2527	5053	13448	17686
70°	3122	3122	5187	14552	19739
75°	2728	2728	5523	15105	20628
80°	2083	4066	6149	14381	22514
85°	4150	8102	8102	16401	20353

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 642340 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.9	5.2
10°-20°	302.7	12.9
20°-30°	567.1	24.2
30°-40°	678.0	28.9
40°-50°	485.9	20.7
50°-60°	149.8	6.4
60°-70°	19.6	0.8
70°-80°	14.2	0.6
80°-90°	5.8	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°	991.7	42.3
0°-40°	1669.7	71.2
0°-60°	2305.4	98.3
0°-90°	2345.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2345.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1508	1508	1508	1508	1508	
5°	2094	1987	1444	694	450	195
15°	2138	2092	836	50	48	685
25°	3914	2582	165	37	41	1803
35°	4372	2100	27	35	43	2713
45°	2309	1012	16	37	48	2121
55°	558	8	16	39	50	718
65°	6	6	12	33	43	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°	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6
2.5°	1885.6	1889.7	1895.9	1879.4	1869.1	1860.8	1846.3	1842.2	1807.1	1792.6	1778.2
5°	2094.2	2090.0	2094.2	2088.0	2083.8	2071.4	2059.1	2038.4	2015.7	1986.8	1953.7
7.5°	2100.4	2096.2	2104.5	2104.5	2112.8	2112.8	2112.8	2114.8	2102.4	2081.8	2052.9
10°	2032.2	2032.2	2040.5	2036.3	2050.8	2057.0	2071.4	2096.2	2108.6	2110.7	2102.4
12.5°	1997.1	1997.1	1999.2	1990.9	1995.0	2001.2	2017.8	2046.7	2075.6	2104.5	2121.0
15°	2137.5	2141.7	2112.8	2071.4	2040.5	2007.4	1997.1	2015.7	2046.7	2092.1	2129.3
17.5°	2614.6	2620.8	2589.8	2490.7	2395.7	2259.4	2137.5	2077.6	2044.6	2081.8	2131.3
20°	3283.8	3261.0	3207.3	3102.0	2963.6	2753.0	2563.0	2370.9	2187.1	2131.3	2147.9
22.5°	3756.7	3748.4	3705.1	3587.3	3467.6	3271.4	3029.7	2761.2	2494.8	2325.5	2236.7
25°	3913.7	3907.5	3868.2	3798.0	3731.9	3583.2	3366.4	3095.8	2817.0	2581.6	2358.5
27.5°	4031.4	4023.1	3961.2	3882.7	3814.5	3663.8	3465.5	3261.0	3004.9	2686.9	2344.1
30°	4287.5	4264.7	4178.0	4037.6	3907.5	3698.9	3480.0	3225.9	2879.0	2529.9	2195.4
32.5°	4394.9	4382.5	4308.1	4194.5	4052.0	3779.4	3446.9	3021.5	2565.0	2263.5	2019.8
35°	4372.1	4353.6	4277.1	4147.0	3973.5	3711.3	3267.2	2682.8	2311.0	2100.4	1825.7
37.5°	4304.0	4277.1	4186.3	4033.4	3822.8	3480.0	2899.6	2408.1	2168.5	1931.0	1561.3
40°	4138.8	4095.4	3990.1	3831.0	3620.4	3170.2	2565.0	2242.9	2019.8	1691.4	1266.0
42.5°	3506.8	3484.1	3535.7	3508.9	3323.0	2792.2	2327.5	2092.1	1784.4	1367.2	917.0
45°	2309.0	2348.2	2441.1	2600.2	2637.3	2401.9	2133.4	1844.3	1468.4	1012.0	528.7
47.5°	2137.5	2129.3	2152.0	2183.0	2189.2	2090.0	1846.3	1524.2	1090.5	578.3	146.6
50°	2114.8	2102.4	2083.8	2046.7	1968.2	1776.1	1499.4	1111.1	629.9	159.0	10.3
52.5°	1670.8	1658.4	1658.4	1604.7	1503.5	1317.6	1034.7	611.3	175.5	10.3	8.3
55°	557.6	594.8	588.6	586.5	632.0	582.4	446.1	157.0	14.5	8.3	8.3
57.5°	10.3	10.3	10.3	18.6	28.9	41.3	24.8	12.4	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°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	6.2	6.2	6.2
75°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	6.2
77.5°	2.1	2.1	2.1	2.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.1	4.1	4.1	4.1
82.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.1	4.1	4.1
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	4.1	4.1
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°	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6	1507.6
2.5°	1745.1	1716.2	1660.5	1501.4	1325.9	1125.6	989.3	972.7
5°	1902.1	1858.7	1767.9	1443.6	1043.0	693.9	516.3	450.2
7.5°	2005.4	1947.5	1836.0	1348.6	760.0	365.5	196.2	157.0
10°	2067.3	2013.6	1871.1	1206.1	483.3	144.6	66.1	62.0
12.5°	2100.4	2048.7	1883.5	1034.7	272.6	66.1	51.6	51.6
15°	2123.1	2067.3	1864.9	836.4	136.3	49.6	47.5	47.5
17.5°	2133.4	2065.3	1811.2	629.9	72.3	45.4	45.4	45.4
20°	2139.6	2042.5	1712.1	429.6	49.6	41.3	43.4	43.4
22.5°	2145.8	1986.8	1582.0	272.6	39.2	39.2	41.3	41.3
25°	2133.4	1889.7	1398.2	165.2	35.1	37.2	39.2	41.3
27.5°	2044.6	1743.1	1175.1	101.2	31.0	35.1	39.2	41.3
30°	1891.8	1528.3	917.0	64.0	28.9	35.1	39.2	41.3
32.5°	1693.5	1282.5	654.7	39.2	28.9	35.1	39.2	41.3
35°	1427.1	981.0	425.4	26.8	28.9	35.1	41.3	43.4
37.5°	1127.6	685.7	229.2	20.7	28.9	35.1	41.3	43.4
40°	811.6	411.0	82.6	18.6	26.8	37.2	43.4	45.4
42.5°	475.0	152.8	14.5	16.5	26.8	37.2	43.4	45.4
45°	136.3	16.5	8.3	16.5	26.8	37.2	45.4	47.5
47.5°	10.3	6.2	8.3	16.5	26.8	37.2	45.4	49.6
50°	6.2	6.2	6.2	16.5	26.8	39.2	47.5	49.6
52.5°	8.3	8.3	8.3	16.5	26.8	39.2	47.5	49.6
55°	8.3	8.3	8.3	16.5	26.8	39.2	47.5	49.6
57.5°	8.3	8.3	8.3	16.5	26.8	37.2	47.5	49.6
60°	8.3	8.3	8.3	14.5	24.8	37.2	45.4	47.5
62.5°	8.3	8.3	8.3	14.5	24.8	35.1	45.4	45.4
65°	8.3	8.3	8.3	12.4	22.7	33.0	41.3	43.4
67.5°	8.3	8.3	8.3	12.4	20.7	31.0	39.2	41.3
70°	6.2	8.3	8.3	10.3	18.6	28.9	37.2	39.2
72.5°	6.2	6.2	8.3	10.3	16.5	24.8	33.0	35.1
75°	6.2	6.2	6.2	8.3	14.5	22.7	28.9	31.0
77.5°	6.2	6.2	6.2	8.3	12.4	18.6	26.8	26.8
80°	4.1	6.2	6.2	6.2	10.3	14.5	20.7	22.7
82.5°	4.1	4.1	4.1	6.2	8.3	12.4	16.5	16.5
85°	4.1	4.1	4.1	4.1	6.2	8.3	10.3	10.3
87.5°	2.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)