

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: P1318685

Luminaire Tested: LDSQA3D20R459830D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318685
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: LDSQA3D20R459830D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

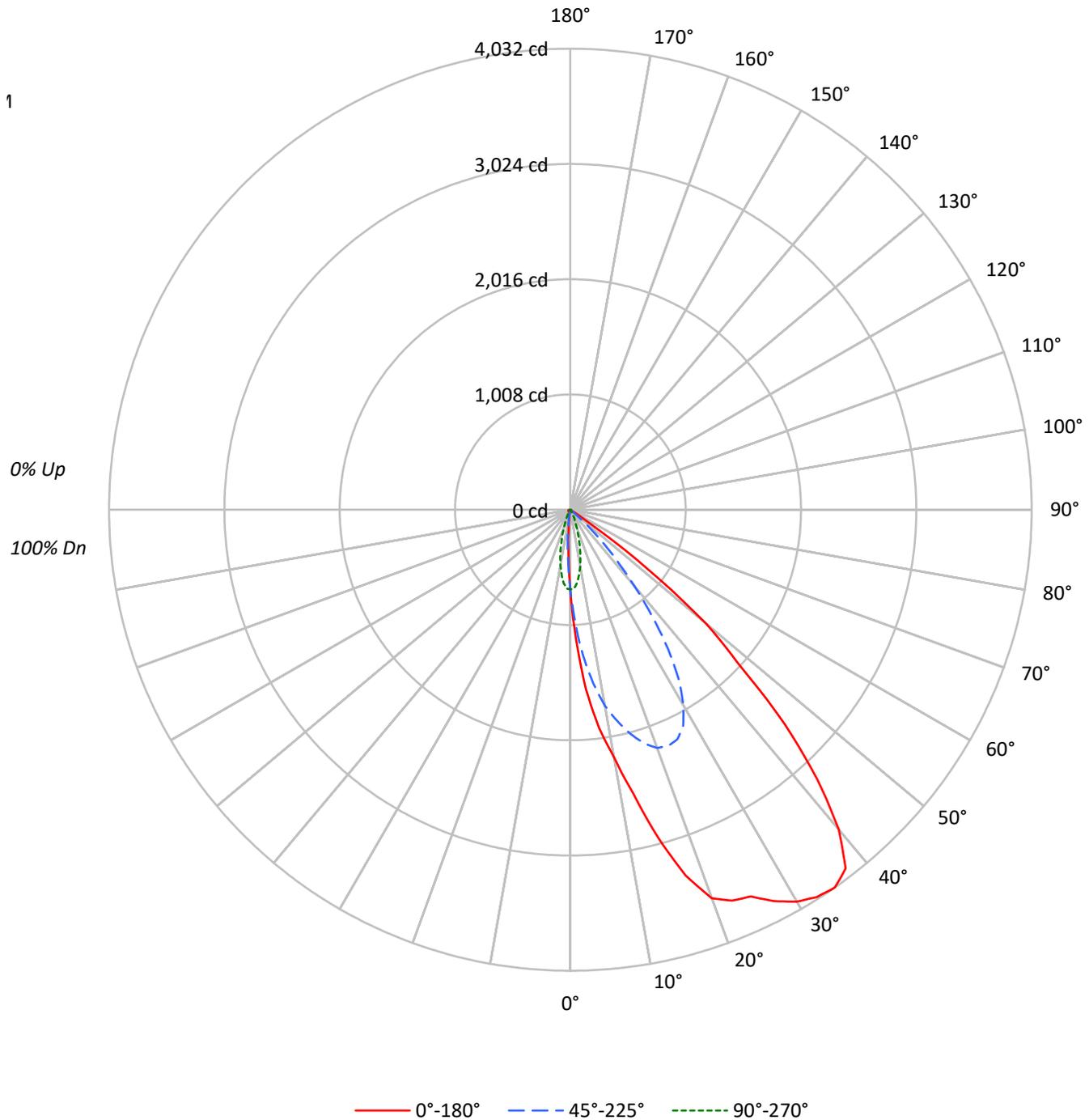
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1827.1 lumens
Efficiency: N/A
Efficacy: 66.7 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): 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

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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	100	100	100	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91	91	91	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82	82	82	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74	74	74	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67	67	67	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60	60	60	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54	54	54	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49	49	49	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45	45	45	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41	41	41	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	119729	119729	119729	119729	119729
5°	272875	221356	111992	44897	30634
10°	384507	304080	86583	9881	4547
15°	529866	361784	55308	3263	2728
20°	662559	406322	28848	2236	2236
25°	709027	420719	13359	1748	2033
30°	786971	392879	6085	1830	2128
35°	847750	313202	1934	1934	2565
40°	820303	194088	1034	2406	3103
45°	644191	91554	1120	2971	3726
50°	413873	10637	1634	3697	4903
55°	62845	931	1832	4594	5975
60°	1068	1068	2101	5270	6303
65°	1263	1263	2486	5624	7457
70°	1561	1561	3072	6143	8460
75°	998	2063	4059	7120	9183
80°	1488	3075	4562	7538	10612
85°	0	2964	6126	9090	9090

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 644191 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.1	4.2
10°-20°	275.1	15.1
20°-30°	483.3	26.5
30°-40°	548.8	30.0
40°-50°	355.3	19.4
50°-60°	69.8	3.8
60°-70°	8.5	0.5
70°-80°	7.0	0.4
80°-90°	3.2	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°	834.4	45.7
0°-40°	1383.2	75.7
0°-60°	1808.3	99.0
0°-90°	1827.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1827.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	695	695	695	695	695	
5°	1578	1280	648	260	177	168
15°	2972	2029	310	18	15	856
25°	3731	2214	70	9	11	1749
35°	4032	1490	9	9	12	2479
45°	2645	376	5	12	15	1994
55°	209	3	6	15	20	400
65°	3	3	6	14	18	3
75°	2	3	6	11	14	2
85°	0	2	3	5	5	0
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°	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2
2.5°	1129.1	1126.1	1130.7	1100.1	1098.6	1075.7	1069.6	1043.6	1008.4	991.6	951.9
5°	1578.4	1563.1	1563.1	1526.4	1514.2	1488.2	1443.9	1388.9	1343.1	1280.4	1213.2
7.5°	1925.2	1922.1	1922.1	1890.1	1859.5	1822.8	1763.2	1700.6	1627.2	1531.0	1433.2
10°	2198.7	2203.3	2189.5	2160.5	2116.2	2076.5	2006.2	1929.8	1839.6	1738.8	1608.9
12.5°	2544.0	2510.4	2499.7	2434.0	2377.5	2301.1	2217.0	2129.9	2018.4	1891.6	1744.9
15°	2971.8	2929.0	2886.3	2799.2	2704.4	2586.8	2455.4	2327.0	2183.4	2029.1	1845.7
17.5°	3353.8	3353.8	3297.3	3159.8	3037.5	2863.3	2686.1	2515.0	2345.4	2142.2	1913.0
20°	3615.1	3601.3	3558.6	3457.7	3318.7	3121.6	2890.9	2651.0	2446.2	2217.0	1951.2
22.5°	3700.7	3697.6	3699.1	3639.5	3528.0	3323.3	3040.6	2757.9	2501.2	2235.4	1932.8
25°	3731.2	3737.3	3752.6	3729.7	3645.7	3440.9	3132.3	2808.3	2518.0	2214.0	1862.6
27.5°	3858.0	3845.8	3862.6	3847.3	3752.6	3508.1	3150.6	2796.1	2481.4	2136.1	1737.3
30°	3957.3	3954.3	3983.3	3969.6	3845.8	3550.9	3133.8	2750.3	2391.2	1975.6	1540.2
32.5°	4013.9	4015.4	4023.1	3966.5	3783.2	3457.7	3051.3	2657.1	2221.6	1766.3	1283.5
35°	4032.2	4023.1	3980.3	3841.2	3590.6	3242.3	2848.1	2435.5	1990.9	1489.7	1014.5
37.5°	3952.8	3905.4	3795.4	3587.6	3297.3	2971.8	2588.3	2155.9	1674.6	1176.5	756.3
40°	3648.7	3586.1	3447.0	3234.6	2964.2	2649.4	2256.8	1804.5	1298.7	863.3	531.7
42.5°	3193.4	3161.3	3016.1	2831.3	2602.1	2284.3	1879.4	1421.0	961.1	595.9	339.2
45°	2644.9	2603.6	2511.9	2348.4	2168.1	1835.0	1457.6	1017.6	655.5	375.9	168.1
47.5°	1983.3	1986.3	1923.7	1799.9	1622.7	1344.6	997.7	683.0	411.0	194.0	38.2
50°	1544.7	1523.4	1434.7	1307.9	1101.6	895.4	644.8	430.9	217.0	39.7	3.1
52.5°	855.6	869.4	822.0	780.8	673.8	534.8	380.5	218.5	45.8	4.6	3.1
55°	209.3	221.6	212.4	217.0	224.6	200.2	154.3	42.8	4.6	3.1	3.1
57.5°	4.6	4.6	4.6	4.6	7.6	10.7	10.7	3.1	3.1	3.1	3.1
60°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
62.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
65°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
67.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
70°	3.1	3.1	3.1	1.5	3.1	3.1	3.1	3.1	3.1	3.1	3.1
72.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.1	3.1	3.1
75°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.1	3.1	3.1
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.1	3.1
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.1	3.1
82.5°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5	3.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5
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°	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2
2.5°	932.0	903.0	849.5	690.6	554.6	447.7	383.5	377.4
5°	1153.6	1075.7	962.6	647.8	409.5	259.7	187.9	177.2
7.5°	1329.3	1219.3	1045.1	577.6	279.6	132.9	73.3	61.1
10°	1474.5	1318.6	1087.9	495.1	175.7	56.5	30.6	26.0
12.5°	1573.8	1385.8	1095.5	403.4	100.8	27.5	19.9	18.3
15°	1637.9	1407.2	1058.9	310.2	56.5	18.3	16.8	15.3
17.5°	1663.9	1388.9	988.6	224.6	30.6	13.8	13.8	13.8
20°	1651.7	1329.3	884.7	157.4	19.9	12.2	12.2	12.2
22.5°	1593.6	1226.9	754.8	105.4	13.8	10.7	10.7	10.7
25°	1479.0	1087.9	617.3	70.3	9.2	9.2	10.7	10.7
27.5°	1307.9	916.8	472.1	47.4	7.6	9.2	10.7	10.7
30°	1092.5	725.8	339.2	30.6	7.6	9.2	9.2	10.7
32.5°	867.9	528.7	223.1	18.3	6.1	9.2	10.7	12.2
35°	629.5	360.6	142.1	9.2	7.6	9.2	10.7	12.2
37.5°	441.6	235.3	82.5	6.1	7.6	9.2	12.2	12.2
40°	287.3	131.4	30.6	4.6	7.6	10.7	12.2	13.8
42.5°	149.7	45.8	6.1	4.6	7.6	10.7	13.8	15.3
45°	38.2	6.1	1.5	4.6	9.2	12.2	15.3	15.3
47.5°	4.6	1.5	1.5	6.1	9.2	13.8	15.3	16.8
50°	1.5	3.1	3.1	6.1	9.2	13.8	16.8	18.3
52.5°	3.1	3.1	3.1	6.1	10.7	13.8	18.3	19.9
55°	3.1	3.1	3.1	6.1	10.7	15.3	18.3	19.9
57.5°	3.1	3.1	3.1	6.1	10.7	15.3	18.3	18.3
60°	3.1	3.1	3.1	6.1	10.7	15.3	18.3	18.3
62.5°	3.1	3.1	4.6	6.1	10.7	13.8	18.3	18.3
65°	3.1	4.6	4.6	6.1	10.7	13.8	16.8	18.3
67.5°	3.1	3.1	4.6	6.1	10.7	13.8	16.8	18.3
70°	3.1	3.1	4.6	6.1	9.2	12.2	15.3	16.8
72.5°	3.1	3.1	4.6	6.1	9.2	12.2	13.8	15.3
75°	3.1	3.1	4.6	6.1	7.6	10.7	13.8	13.8
77.5°	3.1	3.1	4.6	4.6	7.6	9.2	12.2	12.2
80°	3.1	3.1	4.6	4.6	6.1	7.6	9.2	10.7
82.5°	3.1	3.1	3.1	4.6	4.6	6.1	7.6	7.6
85°	3.1	3.1	3.1	3.1	3.1	4.6	4.6	4.6
87.5°	1.5	3.1	3.1	3.1	3.1	3.1	3.1	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)