

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: P1311822

Luminaire Tested: LDSQA3D20R459040D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311822
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: LDSQA3D20R459040D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

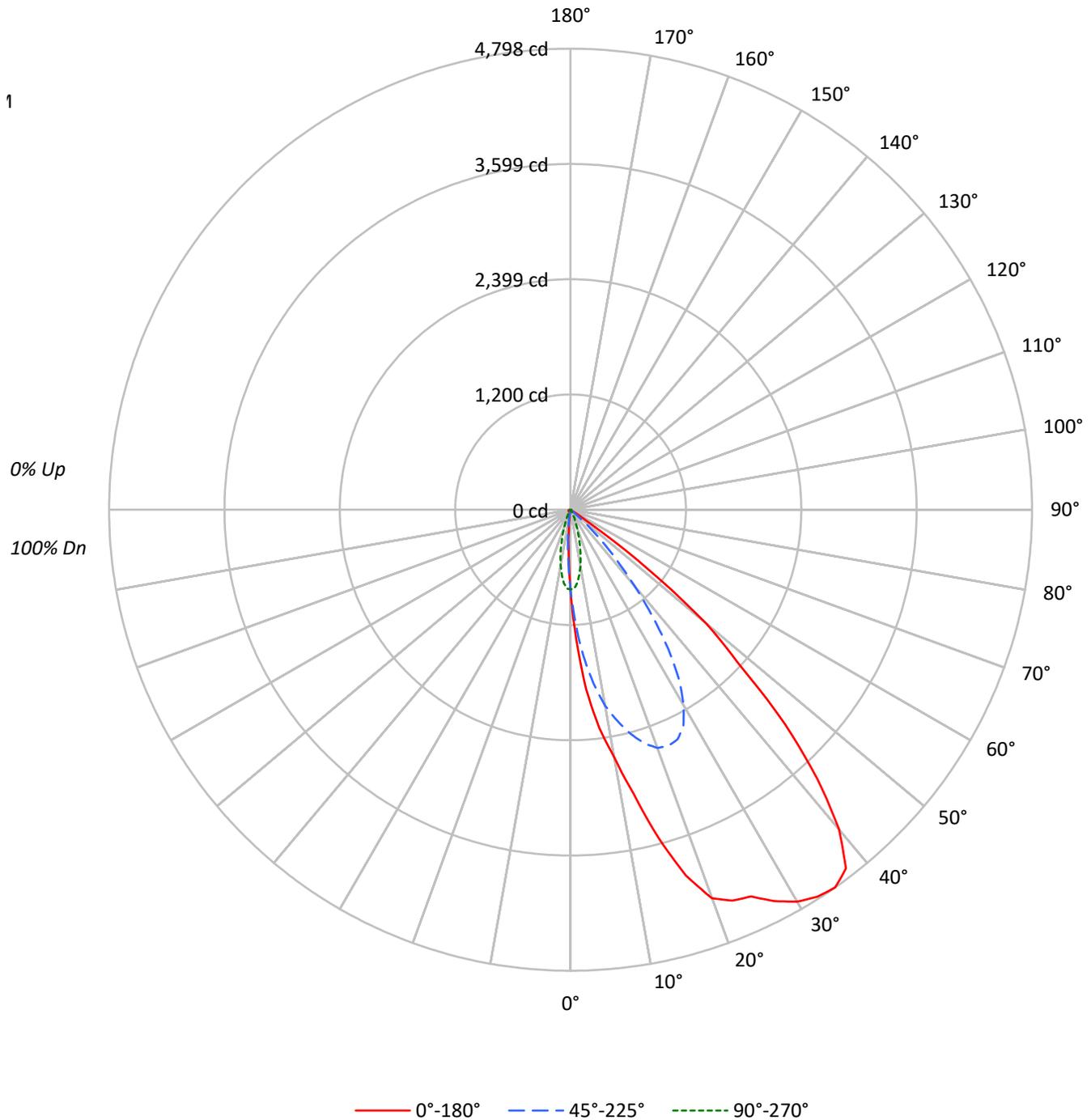
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2174.0 lumens
Efficiency: N/A
Efficacy: 75.5 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): 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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82		
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45		
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41		
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	142480	142480	142480	142480	142480
5°	324687	263401	133274	53437	36460
10°	457537	361826	103021	11769	5404
15°	630515	430501	65810	3887	3245
20°	788396	483499	34328	2657	2657
25°	843699	500625	15886	2071	2413
30°	936458	467493	7239	2168	2526
35°	1008777	372701	2292	2292	3049
40°	976104	230936	1237	2855	3687
45°	766531	108944	1340	3532	4433
50°	492484	12673	1956	4394	5841
55°	74795	1081	2192	5465	7086
60°	1240	1240	2514	6269	7509
65°	1467	1467	2975	6683	8884
70°	1813	1813	3676	7301	10071
75°	1198	2396	4858	8451	10913
80°	1785	3570	5455	9025	12596
85°	0	3557	7114	10868	10868

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 766531 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	4.2
10°-20°	327.3	15.1
20°-30°	575.1	26.5
30°-40°	653.0	30.0
40°-50°	422.8	19.4
50°-60°	83.0	3.8
60°-70°	10.1	0.5
70°-80°	8.4	0.4
80°-90°	3.8	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°	992.9	45.7
0°-40°	1645.9	75.7
0°-60°	2151.7	99.0
0°-90°	2174.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2174.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	827	827	827	827	827	
5°	1878	1524	771	309	211	200
15°	3536	2414	369	22	18	1019
25°	4440	2634	84	11	13	2081
35°	4798	1773	11	11	14	2950
45°	3147	447	6	14	18	2372
55°	249	4	7	18	24	475
65°	4	4	7	16	22	4
75°	2	4	7	13	16	2
85°	0	2	4	6	6	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°	827.3	827.3	827.3	827.3	827.3	827.3	827.3	827.3	827.3	827.3	827.3
2.5°	1343.6	1340.0	1345.4	1309.1	1307.2	1280.0	1272.7	1241.8	1200.0	1180.0	1132.7
5°	1878.1	1860.0	1860.0	1816.3	1801.8	1770.9	1718.1	1652.7	1598.1	1523.6	1443.6
7.5°	2290.8	2287.2	2287.2	2249.0	2212.7	2169.0	2098.1	2023.6	1936.3	1821.8	1705.4
10°	2616.3	2621.7	2605.4	2570.8	2518.1	2470.8	2387.2	2296.3	2189.0	2069.0	1914.5
12.5°	3027.2	2987.2	2974.5	2896.3	2829.0	2738.1	2638.1	2534.5	2401.8	2250.8	2076.3
15°	3536.3	3485.4	3434.5	3330.8	3218.1	3078.1	2921.7	2769.0	2598.1	2414.5	2196.3
17.5°	3990.8	3990.8	3923.5	3759.9	3614.4	3407.2	3196.3	2992.6	2790.8	2549.0	2276.3
20°	4301.7	4285.3	4234.4	4114.4	3949.0	3714.4	3439.9	3154.5	2910.8	2638.1	2321.8
22.5°	4403.5	4399.9	4401.7	4330.8	4198.1	3954.4	3618.1	3281.7	2976.3	2659.9	2299.9
25°	4439.9	4447.2	4465.3	4438.1	4338.1	4094.4	3727.2	3341.7	2996.3	2634.5	2216.3
27.5°	4590.8	4576.2	4596.2	4578.1	4465.3	4174.4	3749.0	3327.2	2952.6	2541.7	2067.2
30°	4709.0	4705.3	4739.9	4723.5	4576.2	4225.3	3729.0	3272.6	2845.4	2350.8	1832.7
32.5°	4776.2	4778.1	4787.1	4719.9	4501.7	4114.4	3630.8	3161.7	2643.6	2101.8	1527.2
35°	4798.1	4787.1	4736.2	4570.8	4272.6	3858.1	3389.0	2898.1	2369.0	1772.7	1207.2
37.5°	4703.5	4647.1	4516.2	4269.0	3923.5	3536.3	3079.9	2565.4	1992.7	1400.0	900.0
40°	4341.7	4267.2	4101.7	3849.0	3527.2	3152.6	2685.4	2147.2	1545.4	1027.2	632.7
42.5°	3799.9	3761.7	3589.0	3369.0	3096.3	2718.1	2236.3	1690.9	1143.6	709.1	403.6
45°	3147.2	3098.1	2989.0	2794.5	2579.9	2183.6	1734.5	1210.9	780.0	447.3	200.0
47.5°	2359.9	2363.6	2289.0	2141.8	1930.9	1600.0	1187.2	812.7	489.1	230.9	45.5
50°	1838.1	1812.7	1707.2	1556.3	1310.9	1065.4	767.3	512.7	258.2	47.3	3.6
52.5°	1018.2	1034.5	978.2	929.1	801.8	636.3	452.7	260.0	54.5	5.5	3.6
55°	249.1	263.6	252.7	258.2	267.3	238.2	183.6	50.9	5.5	3.6	3.6
57.5°	5.5	5.5	5.5	5.5	9.1	12.7	12.7	3.6	3.6	3.6	3.6
60°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
62.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
65°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
67.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
70°	3.6	3.6	3.6	1.8	3.6	3.6	3.6	3.6	3.6	3.6	3.6
72.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6	3.6	3.6
75°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6	3.6	3.6
77.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6	3.6
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6	3.6
82.5°	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	3.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8
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°	827.3	827.3	827.3	827.3	827.3	827.3	827.3	827.3
2.5°	1109.1	1074.5	1010.9	821.8	660.0	532.7	456.4	449.1
5°	1372.7	1280.0	1145.4	770.9	487.3	309.1	223.6	210.9
7.5°	1581.8	1450.9	1243.6	687.3	332.7	158.2	87.3	72.7
10°	1754.5	1569.0	1294.5	589.1	209.1	67.3	36.4	30.9
12.5°	1872.7	1649.0	1303.6	480.0	120.0	32.7	23.6	21.8
15°	1949.0	1674.5	1260.0	369.1	67.3	21.8	20.0	18.2
17.5°	1979.9	1652.7	1176.3	267.3	36.4	16.4	16.4	16.4
20°	1965.4	1581.8	1052.7	187.3	23.6	14.5	14.5	14.5
22.5°	1896.3	1460.0	898.2	125.5	16.4	12.7	12.7	12.7
25°	1760.0	1294.5	734.5	83.6	10.9	10.9	12.7	12.7
27.5°	1556.3	1090.9	561.8	56.4	9.1	10.9	12.7	12.7
30°	1300.0	863.6	403.6	36.4	9.1	10.9	10.9	12.7
32.5°	1032.7	629.1	265.4	21.8	7.3	10.9	12.7	14.5
35°	749.1	429.1	169.1	10.9	9.1	10.9	12.7	14.5
37.5°	525.4	280.0	98.2	7.3	9.1	10.9	14.5	14.5
40°	341.8	156.4	36.4	5.5	9.1	12.7	14.5	16.4
42.5°	178.2	54.5	7.3	5.5	9.1	12.7	16.4	18.2
45°	45.5	7.3	1.8	5.5	10.9	14.5	18.2	18.2
47.5°	5.5	1.8	1.8	7.3	10.9	16.4	18.2	20.0
50°	1.8	3.6	3.6	7.3	10.9	16.4	20.0	21.8
52.5°	3.6	3.6	3.6	7.3	12.7	16.4	21.8	23.6
55°	3.6	3.6	3.6	7.3	12.7	18.2	21.8	23.6
57.5°	3.6	3.6	3.6	7.3	12.7	18.2	21.8	21.8
60°	3.6	3.6	3.6	7.3	12.7	18.2	21.8	21.8
62.5°	3.6	3.6	5.5	7.3	12.7	16.4	21.8	21.8
65°	3.6	5.5	5.5	7.3	12.7	16.4	20.0	21.8
67.5°	3.6	3.6	5.5	7.3	12.7	16.4	20.0	21.8
70°	3.6	3.6	5.5	7.3	10.9	14.5	18.2	20.0
72.5°	3.6	3.6	5.5	7.3	10.9	14.5	16.4	18.2
75°	3.6	3.6	5.5	7.3	9.1	12.7	16.4	16.4
77.5°	3.6	3.6	5.5	5.5	9.1	10.9	14.5	14.5
80°	3.6	3.6	5.5	5.5	7.3	9.1	10.9	12.7
82.5°	3.6	3.6	3.6	5.5	5.5	7.3	9.1	9.1
85°	3.6	3.6	3.6	3.6	3.6	5.5	5.5	5.5
87.5°	1.8	3.6	3.6	3.6	3.6	3.6	3.6	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)