

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: P1317809

Luminaire Tested: LDSQA3D20R459827D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1317809  
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: LDSQA3D20R459827D010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

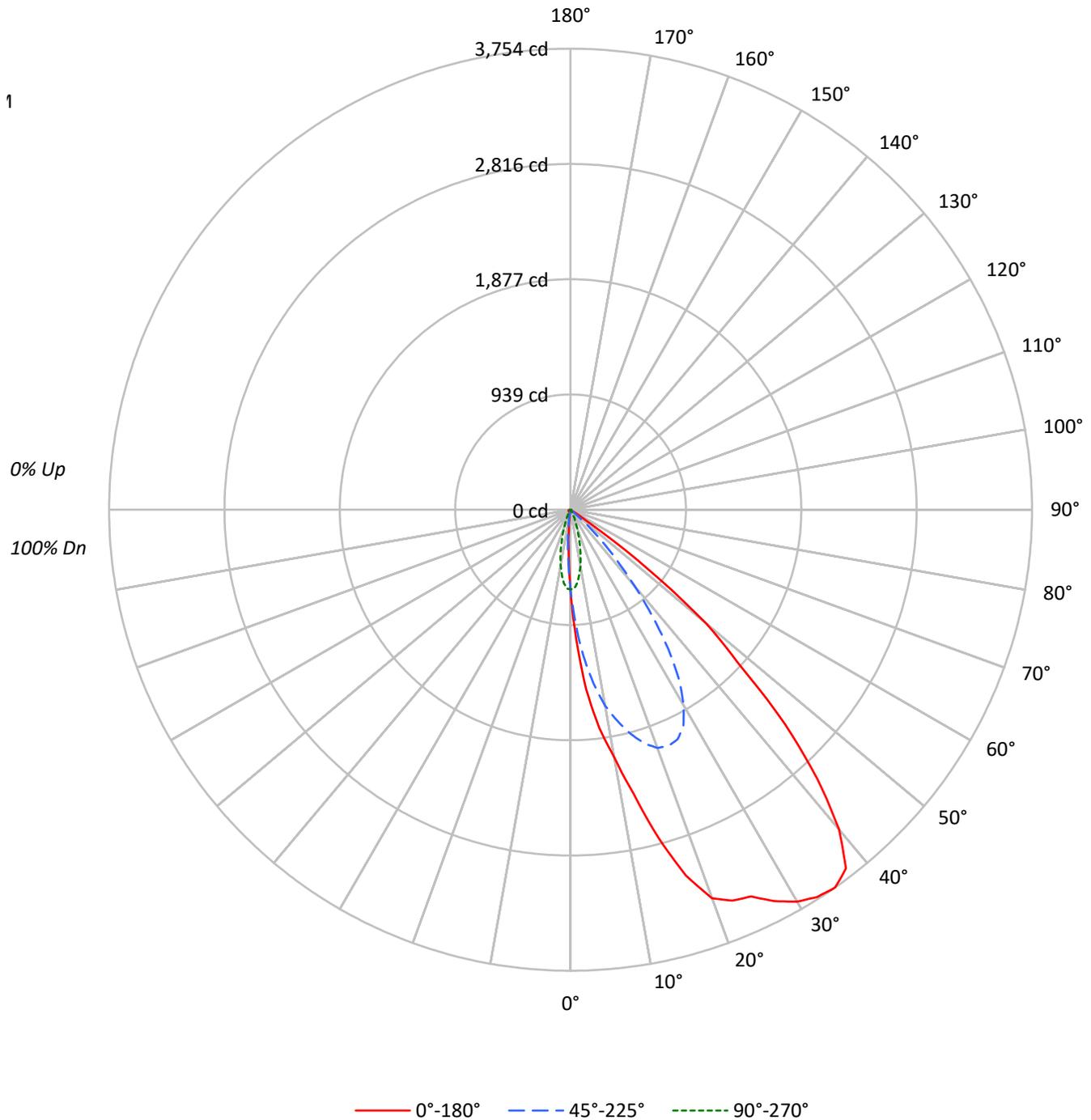
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1701.0 lumens  
Efficiency: N/A  
Efficacy: 62.1 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<sub>in</sub>): 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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	96	94	93	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	89	86	84	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	82	79	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	70	65	62	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	64	60	56	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	60	55	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	55	50	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	51	46	42	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	48	43	39	37

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	111480	111480	111480	111480	111480
5°	254048	206091	104282	41803	28525
10°	357996	283112	80602	9199	4232
15°	493333	336841	51492	3049	2532
20°	616869	378299	26850	2089	2089
25°	660134	391702	12428	1615	1900
30°	732700	365793	5668	1690	1989
35°	789281	291610	1787	1787	2397
40°	763738	180688	967	2248	2878
45°	599766	85222	1047	2777	3459
50°	385338	9913	1527	3430	4582
55°	58521	841	1711	4264	5555
60°	964	964	1963	4891	5890
65°	1141	1141	2323	5216	6968
70°	1410	1410	2870	5740	7855
75°	932	1863	3793	6654	8517
80°	1389	2777	4265	7042	9918
85°	0	2766	5533	8497	8497

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 599766 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	70.8	4.2
10°-20°	256.1	15.1
20°-30°	449.9	26.5
30°-40°	510.9	30.0
40°-50°	330.8	19.4
50°-60°	64.9	3.8
60°-70°	7.9	0.5
70°-80°	6.5	0.4
80°-90°	3.0	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°	776.9	45.7
0°-40°	1287.8	75.7
0°-60°	1683.6	99.0
0°-90°	1701.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1701.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	647	647	647	647	647	
5°	1470	1192	603	242	165	156
15°	2767	1889	289	17	14	797
25°	3474	2061	65	8	10	1628
35°	3754	1387	8	8	11	2308
45°	2462	350	4	11	14	1856
55°	195	3	6	14	18	372
65°	3	3	6	13	17	3
75°	1	3	6	10	13	2
85°	0	1	3	4	4	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°	647.3	647.3	647.3	647.3	647.3	647.3	647.3	647.3	647.3	647.3	647.3
2.5°	1051.3	1048.4	1052.7	1024.2	1022.8	1001.5	995.8	971.6	938.9	923.2	886.3
5°	1469.5	1455.3	1455.3	1421.1	1409.8	1385.6	1344.3	1293.1	1250.4	1192.1	1129.5
7.5°	1792.4	1789.6	1789.6	1759.7	1731.3	1697.1	1641.6	1583.3	1515.0	1425.4	1334.4
10°	2047.1	2051.3	2038.5	2011.5	1970.2	1933.3	1867.8	1796.7	1712.8	1618.9	1498.0
12.5°	2368.6	2337.3	2327.3	2266.1	2213.5	2142.4	2064.1	1983.0	1879.2	1761.1	1624.6
15°	2766.9	2727.0	2687.2	2606.1	2517.9	2408.4	2286.1	2166.6	2032.8	1889.2	1718.5
17.5°	3122.5	3122.5	3069.9	2941.9	2828.0	2665.9	2500.9	2341.5	2183.6	1994.4	1781.0
20°	3365.8	3353.0	3313.1	3219.3	3089.8	2906.3	2691.5	2468.1	2277.5	2064.1	1816.6
22.5°	3445.4	3442.6	3444.0	3388.5	3284.7	3094.1	2830.9	2567.7	2328.7	2081.2	1799.5
25°	3473.9	3479.6	3493.8	3472.5	3394.2	3203.6	2916.2	2614.7	2344.4	2061.3	1734.1
27.5°	3592.0	3580.6	3596.2	3582.0	3493.8	3266.2	2933.3	2603.3	2310.2	1988.7	1617.5
30°	3684.4	3681.6	3708.6	3695.8	3580.6	3306.0	2917.7	2560.6	2226.3	1839.4	1433.9
32.5°	3737.1	3738.5	3745.6	3693.0	3522.3	3219.3	2840.9	2473.8	2068.4	1644.5	1194.9
35°	3754.1	3745.6	3705.8	3576.3	3343.0	3018.7	2651.7	2267.6	1853.6	1387.0	944.6
37.5°	3680.2	3636.1	3533.6	3340.2	3069.9	2766.9	2409.8	2007.2	1559.1	1095.4	704.2
40°	3397.1	3338.7	3209.3	3011.6	2759.8	2466.7	2101.1	1680.0	1209.2	803.7	495.1
42.5°	2973.1	2943.3	2808.1	2636.0	2422.6	2126.7	1749.7	1323.0	894.8	554.8	315.8
45°	2462.5	2424.0	2338.7	2186.5	2018.6	1708.5	1357.1	947.4	610.3	349.9	156.5
47.5°	1846.5	1849.3	1791.0	1675.8	1510.8	1251.9	928.9	635.9	382.7	180.7	35.6
50°	1438.2	1418.3	1335.8	1217.7	1025.7	833.6	600.3	401.2	202.0	37.0	2.8
52.5°	796.6	809.4	765.3	726.9	627.3	497.9	354.2	203.4	42.7	4.3	2.8
55°	194.9	206.3	197.7	202.0	209.1	186.4	143.7	39.8	4.3	2.8	2.8
57.5°	4.3	4.3	4.3	4.3	7.1	10.0	10.0	2.8	2.8	2.8	2.8
60°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
62.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
65°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
67.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
70°	2.8	2.8	2.8	1.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8
75°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8
82.5°	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	2.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
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°	647.3	647.3	647.3	647.3	647.3	647.3	647.3	647.3
2.5°	867.8	840.7	790.9	643.0	516.4	416.8	357.1	351.4
5°	1074.0	1001.5	896.2	603.2	381.2	241.8	175.0	165.0
7.5°	1237.6	1135.2	973.0	537.7	260.3	123.8	68.3	56.9
10°	1372.8	1227.7	1012.9	460.9	163.6	52.6	28.5	24.2
12.5°	1465.2	1290.3	1020.0	375.6	93.9	25.6	18.5	17.1
15°	1525.0	1310.2	985.8	288.8	52.6	17.1	15.6	14.2
17.5°	1549.2	1293.1	920.4	209.1	28.5	12.8	12.8	12.8
20°	1537.8	1237.6	823.7	146.5	18.5	11.4	11.4	11.4
22.5°	1483.7	1142.3	702.7	98.2	12.8	10.0	10.0	10.0
25°	1377.0	1012.9	574.7	65.4	8.5	8.5	10.0	10.0
27.5°	1217.7	853.5	439.6	44.1	7.1	8.5	10.0	10.0
30°	1017.1	675.7	315.8	28.5	7.1	8.5	8.5	10.0
32.5°	808.0	492.2	207.7	17.1	5.7	8.5	10.0	11.4
35°	586.1	335.7	132.3	8.5	7.1	8.5	10.0	11.4
37.5°	411.1	219.1	76.8	5.7	7.1	8.5	11.4	11.4
40°	267.4	122.3	28.5	4.3	7.1	10.0	11.4	12.8
42.5°	139.4	42.7	5.7	4.3	7.1	10.0	12.8	14.2
45°	35.6	5.7	1.4	4.3	8.5	11.4	14.2	14.2
47.5°	4.3	1.4	1.4	5.7	8.5	12.8	14.2	15.6
50°	1.4	2.8	2.8	5.7	8.5	12.8	15.6	17.1
52.5°	2.8	2.8	2.8	5.7	10.0	12.8	17.1	18.5
55°	2.8	2.8	2.8	5.7	10.0	14.2	17.1	18.5
57.5°	2.8	2.8	2.8	5.7	10.0	14.2	17.1	17.1
60°	2.8	2.8	2.8	5.7	10.0	14.2	17.1	17.1
62.5°	2.8	2.8	4.3	5.7	10.0	12.8	17.1	17.1
65°	2.8	4.3	4.3	5.7	10.0	12.8	15.6	17.1
67.5°	2.8	2.8	4.3	5.7	10.0	12.8	15.6	17.1
70°	2.8	2.8	4.3	5.7	8.5	11.4	14.2	15.6
72.5°	2.8	2.8	4.3	5.7	8.5	11.4	12.8	14.2
75°	2.8	2.8	4.3	5.7	7.1	10.0	12.8	12.8
77.5°	2.8	2.8	4.3	4.3	7.1	8.5	11.4	11.4
80°	2.8	2.8	4.3	4.3	5.7	7.1	8.5	10.0
82.5°	2.8	2.8	2.8	4.3	4.3	5.7	7.1	7.1
85°	2.8	2.8	2.8	2.8	2.8	4.3	4.3	4.3
87.5°	1.4	2.8	2.8	2.8	2.8	2.8	2.8	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)