

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: P1308614

Luminaire Tested: LDSQA3D24R459027D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308614  
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: LDSQA3D24R459027D010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

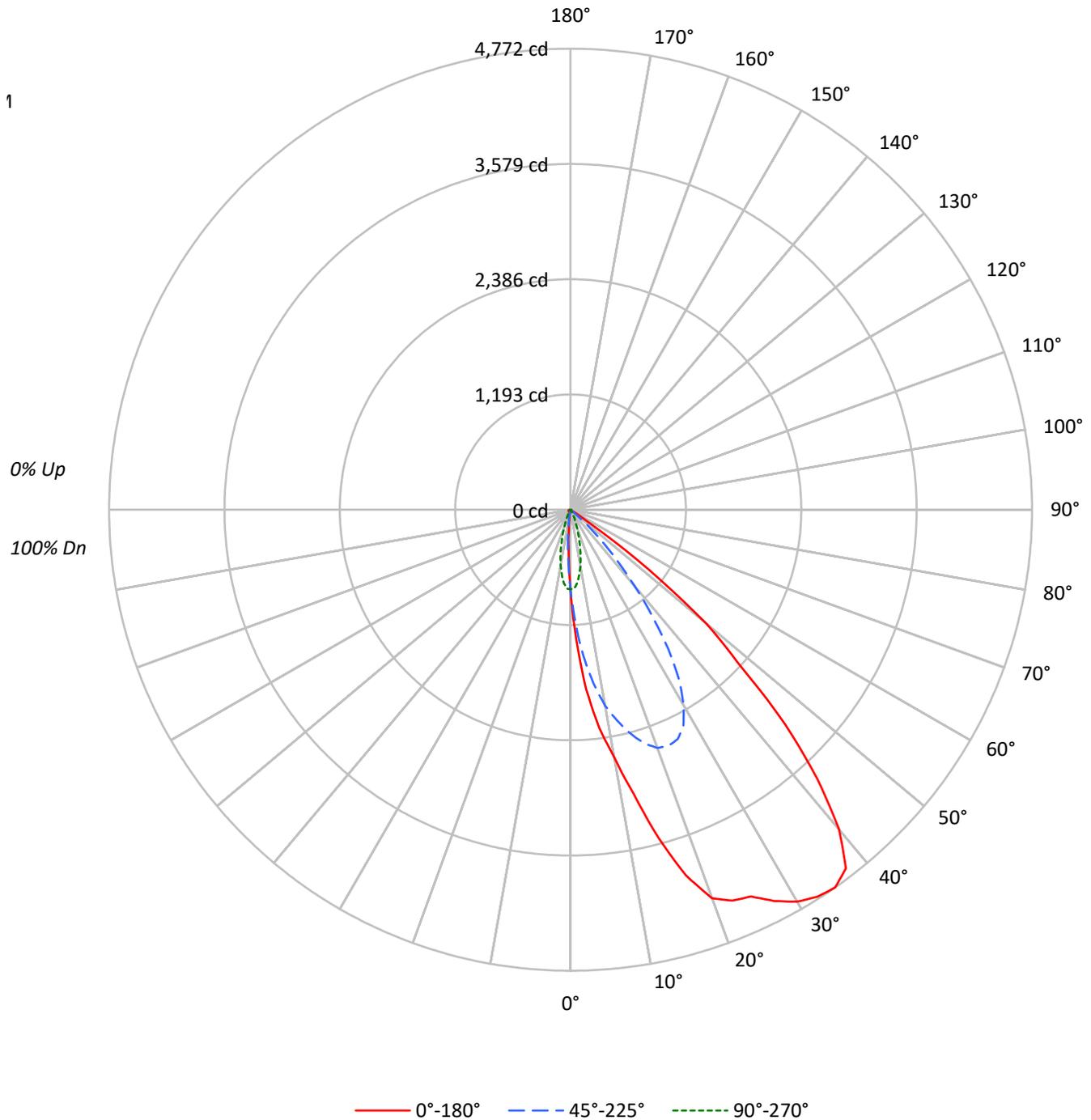
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2162.0 lumens  
Efficiency: N/A  
Efficacy: 75.1 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): 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

TEST NUMBER: P1308614  
CATALOG NUMBER: LDSQA3D24R459027D010 3LSQCA30R 1MW

### 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°	141688	141688	141688	141688	141688
5°	322906	261949	132530	53143	36253
10°	455019	359832	102444	11699	5369
15°	627021	428129	65435	3869	3227
20°	784053	480823	34126	2657	2657
25°	839044	497851	15810	2052	2413
30°	931287	464928	7199	2148	2526
35°	1003205	370641	2271	2271	3049
40°	970708	229677	1214	2855	3665
45°	762293	108335	1315	3532	4408
50°	489778	12593	1929	4367	5814
55°	74375	1081	2162	5435	7056
60°	1240	1240	2480	6234	7474
65°	1467	1467	2934	6642	8843
70°	1813	1813	3626	7301	10021
75°	1198	2396	4791	8451	10846
80°	1785	3570	5356	8926	12596
85°	0	3557	7114	10671	10671

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 762293 cd/sqm



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CATALOG NUMBER: LDSQA3D24R459027D010 3LSQCA30R 1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	90.0	4.2
10°-20°	325.5	15.1
20°-30°	571.9	26.5
30°-40°	649.4	30.0
40°-50°	420.5	19.4
50°-60°	82.5	3.8
60°-70°	10.0	0.5
70°-80°	8.3	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°	987.4	45.7
0°-40°	1636.8	75.7
0°-60°	2139.9	99.0
0°-90°	2162.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2162.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	823	823	823	823	823	
5°	1868	1515	767	307	210	199
15°	3517	2401	367	22	18	1013
25°	4415	2620	83	11	13	2070
35°	4772	1763	11	11	14	2933
45°	3130	445	5	14	18	2359
55°	248	4	7	18	24	473
65°	4	4	7	16	22	4
75°	2	4	7	13	16	2
85°	0	2	4	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°	822.7	822.7	822.7	822.7	822.7	822.7	822.7	822.7	822.7	822.7	822.7
2.5°	1336.2	1332.6	1338.0	1301.8	1300.0	1272.9	1265.7	1234.9	1193.3	1173.5	1126.4
5°	1867.8	1849.7	1849.7	1806.3	1791.8	1761.1	1708.7	1643.6	1589.3	1515.2	1435.6
7.5°	2278.2	2274.6	2274.6	2236.6	2200.5	2157.1	2086.5	2012.4	1925.6	1811.7	1696.0
10°	2601.9	2607.3	2591.0	2556.6	2504.2	2457.2	2374.0	2283.6	2176.9	2057.6	1903.9
12.5°	3010.5	2970.7	2958.0	2880.3	2813.4	2723.0	2623.5	2520.5	2388.5	2238.4	2064.8
15°	3516.7	3466.1	3415.5	3312.4	3200.3	3061.1	2905.6	2753.7	2583.8	2401.2	2184.2
17.5°	3968.8	3968.8	3901.9	3739.1	3594.5	3388.4	3178.6	2976.1	2775.4	2535.0	2263.7
20°	4278.0	4261.7	4211.1	4091.7	3927.2	3693.9	3420.9	3137.0	2894.8	2623.5	2308.9
22.5°	4379.2	4375.6	4377.4	4306.9	4174.9	3932.6	3598.1	3263.6	2959.9	2645.2	2287.2
25°	4415.4	4422.6	4440.7	4413.6	4314.1	4071.8	3706.6	3323.3	2979.7	2619.9	2204.1
27.5°	4565.4	4551.0	4570.9	4552.8	4440.7	4151.4	3728.3	3308.8	2936.3	2527.7	2055.8
30°	4683.0	4679.4	4713.7	4697.4	4551.0	4202.0	3708.4	3254.6	2829.7	2337.9	1822.6
32.5°	4749.9	4751.7	4760.7	4693.8	4476.8	4091.7	3610.8	3144.3	2629.0	2090.2	1518.8
35°	4771.6	4760.7	4710.1	4545.6	4249.0	3836.8	3370.3	2882.1	2356.0	1762.9	1200.6
37.5°	4677.5	4621.5	4491.3	4245.4	3901.9	3516.7	3062.9	2551.2	1981.7	1392.2	895.0
40°	4317.7	4243.6	4079.1	3827.7	3507.7	3135.2	2670.6	2135.4	1536.9	1021.6	629.2
42.5°	3778.9	3741.0	3569.2	3350.4	3079.2	2703.1	2224.0	1681.5	1137.3	705.2	401.4
45°	3129.8	3081.0	2972.5	2779.0	2565.7	2171.5	1724.9	1204.2	775.7	444.8	198.9
47.5°	2346.9	2350.5	2276.4	2129.9	1920.2	1591.1	1180.7	808.2	486.4	229.6	45.2
50°	1828.0	1802.7	1697.8	1547.7	1303.6	1059.5	763.0	509.9	256.7	47.0	3.6
52.5°	1012.5	1028.8	972.8	923.9	797.4	632.8	450.2	258.6	54.2	5.4	3.6
55°	247.7	262.2	251.3	256.7	265.8	236.9	182.6	50.6	5.4	3.6	3.6
57.5°	5.4	5.4	5.4	5.4	9.0	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°	822.7	822.7	822.7	822.7	822.7	822.7	822.7	822.7
2.5°	1102.9	1068.6	1005.3	817.3	656.3	529.8	453.8	446.6
5°	1365.1	1272.9	1139.1	766.6	484.6	307.4	222.4	209.7
7.5°	1573.0	1442.9	1236.7	683.5	330.9	157.3	86.8	72.3
10°	1744.8	1560.4	1287.4	585.8	207.9	66.9	36.2	30.7
12.5°	1862.3	1639.9	1296.4	477.3	119.3	32.5	23.5	21.7
15°	1938.3	1665.3	1253.0	367.0	66.9	21.7	19.9	18.1
17.5°	1969.0	1643.6	1169.8	265.8	36.2	16.3	16.3	16.3
20°	1954.6	1573.0	1046.9	186.2	23.5	14.5	14.5	14.5
22.5°	1885.8	1451.9	893.2	124.8	16.3	12.7	12.7	12.7
25°	1750.2	1287.4	730.5	83.2	10.8	10.8	12.7	12.7
27.5°	1547.7	1084.9	558.7	56.1	9.0	10.8	12.7	12.7
30°	1292.8	858.8	401.4	36.2	9.0	10.8	10.8	12.7
32.5°	1027.0	625.6	264.0	21.7	7.2	10.8	12.7	14.5
35°	744.9	426.7	168.2	10.8	9.0	10.8	12.7	14.5
37.5°	522.5	278.4	97.6	7.2	9.0	10.8	14.5	14.5
40°	339.9	155.5	36.2	5.4	9.0	12.7	14.5	16.3
42.5°	177.2	54.2	7.2	5.4	9.0	12.7	16.3	18.1
45°	45.2	7.2	1.8	5.4	10.8	14.5	18.1	18.1
47.5°	5.4	1.8	1.8	7.2	10.8	16.3	18.1	19.9
50°	1.8	3.6	3.6	7.2	10.8	16.3	19.9	21.7
52.5°	3.6	3.6	3.6	7.2	12.7	16.3	21.7	23.5
55°	3.6	3.6	3.6	7.2	12.7	18.1	21.7	23.5
57.5°	3.6	3.6	3.6	7.2	12.7	18.1	21.7	21.7
60°	3.6	3.6	3.6	7.2	12.7	18.1	21.7	21.7
62.5°	3.6	3.6	5.4	7.2	12.7	16.3	21.7	21.7
65°	3.6	5.4	5.4	7.2	12.7	16.3	19.9	21.7
67.5°	3.6	3.6	5.4	7.2	12.7	16.3	19.9	21.7
70°	3.6	3.6	5.4	7.2	10.8	14.5	18.1	19.9
72.5°	3.6	3.6	5.4	7.2	10.8	14.5	16.3	18.1
75°	3.6	3.6	5.4	7.2	9.0	12.7	16.3	16.3
77.5°	3.6	3.6	5.4	5.4	9.0	10.8	14.5	14.5
80°	3.6	3.6	5.4	5.4	7.2	9.0	10.8	12.7
82.5°	3.6	3.6	3.6	5.4	5.4	7.2	9.0	9.0
85°	3.6	3.6	3.6	3.6	3.6	5.4	5.4	5.4
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)