

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: P1316766

Luminaire Tested: LDSQA3D17R409740DE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

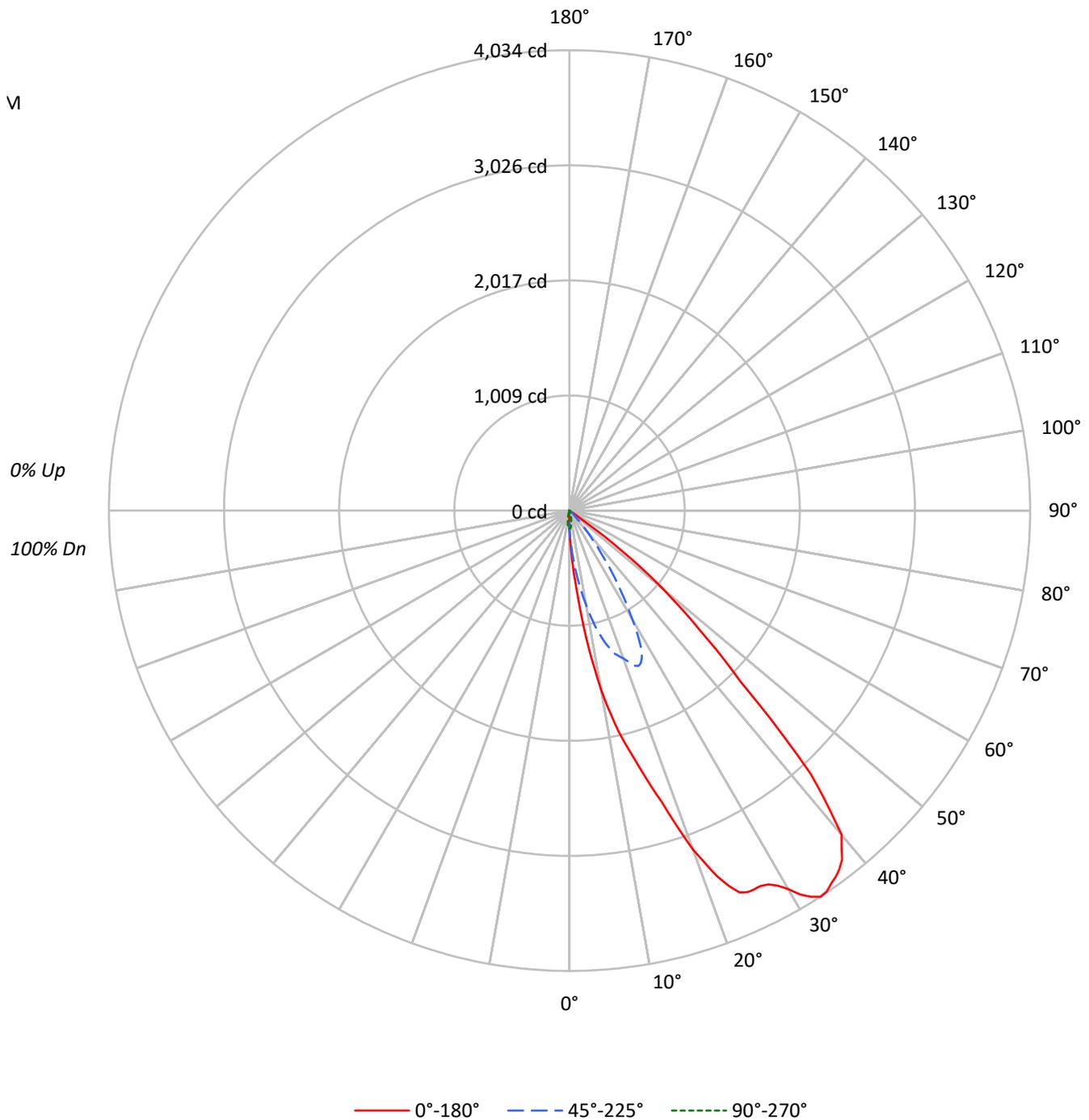
Test Method: LM-79-2019  
Report Number: P1316766  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R409740DE010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1354.0 lumens  
Efficiency: N/A  
Efficacy: 63.9 lumens/watt  
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 21.2  
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		0
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	98	96	96	94	93		91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84		83
3	99	91	85	80	97	90	84	80	87	82	78	84	81	77	82	79	76		74
4	92	83	77	72	90	82	76	71	80	74	70	78	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	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56		54
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50		49
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46		44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42		40
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38		36

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

	0°	45°	90°	135°	180°
0°	27280	27280	27280	27280	27280
5°	115761	78903	23927	4305	2161
10°	278251	146759	14830	437	0
15°	409533	213209	6223	0	0
20°	578876	252755	2291	0	0
25°	701141	280555	0	0	0
30°	761297	219468	0	0	0
35°	839466	128460	0	0	0
40°	833185	52136	0	0	0
45°	516005	15174	0	0	0
50°	287329	322	0	0	0
55°	28074	0	0	0	0
60°	0	0	413	0	0
65°	0	0	489	0	0
70°	0	604	1259	0	0
75°	0	799	1664	0	0
80°	0	1190	2479	0	0
85°	0	2371	4940	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°  
 Vertical Angle: 45°  
 Luminance: 518441 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.7	2.2
10°-20°	174.5	12.9
20°-30°	398.4	29.4
30°-40°	470.4	34.7
40°-50°	251.3	18.6
50°-60°	27.3	2.0
60°-70°	0.5	0.0
70°-80°	1.0	0.1
80°-90°	0.9	0.1
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°	602.6	44.5
0°-40°	1073.0	79.2
0°-60°	1351.6	99.8
0°-90°	1354.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1354.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	158	158	158	158	158	
5°	670	456	138	25	12	94
15°	2297	1196	35	0	0	682
25°	3690	1476	0	0	0	1675
35°	3993	611	0	0	0	2466
45°	2119	62	0	0	0	1747
55°	94	0	0	0	0	262
65°	0	0	1	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4	158.4
2.5°	369.1	361.6	366.6	356.6	356.6	334.2	335.4	316.7	289.3	220.7	157.1
5°	669.6	699.5	675.9	644.7	627.2	604.8	574.8	543.7	456.4	275.6	138.4
7.5°	1121.0	1118.5	1078.6	1045.0	1006.3	946.4	890.3	814.3	649.7	315.5	114.7
10°	1591.1	1582.4	1537.5	1508.8	1435.2	1349.2	1234.5	1112.3	839.2	329.2	84.8
12.5°	1982.7	1971.4	1934.0	1885.4	1804.3	1695.9	1572.4	1411.6	1038.7	314.2	54.9
15°	2296.9	2294.4	2258.2	2192.2	2107.4	2001.4	1861.7	1668.4	1195.8	275.6	34.9
17.5°	2669.7	2684.7	2619.9	2548.8	2426.6	2278.2	2107.4	1886.6	1311.8	228.2	22.4
20°	3158.5	3137.3	3077.5	2974.0	2856.8	2678.5	2436.6	2121.1	1379.1	177.1	12.5
21°	3308.2	3299.4	3237.1	3141.1	3011.4	2830.6	2581.2	2240.8	1410.3	158.4	10.0
22°	3460.3	3445.3	3396.7	3303.2	3181.0	2976.5	2702.2	2364.2	1450.2	138.4	6.2
23°	3573.8	3567.5	3530.1	3437.9	3311.9	3113.7	2833.1	2479.0	1477.6	119.7	3.7
24°	3661.1	3653.6	3616.2	3546.3	3437.9	3230.9	2965.3	2602.4	1488.9	103.5	1.2
25°	3689.7	3693.5	3671.0	3616.2	3525.1	3318.2	3063.8	2699.7	1476.4	88.5	0.0
26°	3691.0	3702.2	3686.0	3654.8	3580.0	3388.0	3156.0	2757.0	1444.0	74.8	0.0
27°	3691.0	3702.2	3686.0	3662.3	3588.7	3427.9	3205.9	2763.3	1394.1	63.6	0.0
28°	3708.5	3714.7	3693.5	3664.8	3585.0	3440.4	3219.6	2725.8	1314.3	54.9	0.0
29°	3757.1	3750.8	3715.9	3677.3	3581.3	3440.4	3178.5	2654.8	1214.5	46.1	0.0
30°	3828.2	3828.2	3773.3	3712.2	3598.7	3439.1	3112.4	2526.3	1103.6	37.4	0.0
31°	3924.2	3915.4	3860.6	3769.6	3636.1	3439.1	3015.1	2384.2	1001.3	32.4	0.0
32°	3989.0	3984.0	3931.7	3824.4	3697.2	3439.1	2910.4	2227.1	890.3	26.2	0.0
33°	4033.9	4023.9	3964.1	3853.1	3734.6	3421.7	2793.2	2058.7	790.6	21.2	0.0
34°	4027.7	4025.2	3962.8	3848.1	3727.2	3349.3	2657.3	1871.7	698.3	17.5	0.0
35°	3992.8	3992.8	3916.7	3798.2	3673.5	3243.3	2522.6	1712.1	611.0	12.5	0.0
36°	3966.6	3956.6	3870.6	3738.4	3583.8	3076.2	2323.1	1551.2	517.5	10.0	0.0
37°	3927.9	3909.2	3813.2	3671.0	3456.6	2895.4	2113.6	1407.8	437.7	6.2	0.0
38°	3878.0	3849.4	3732.1	3592.5	3316.9	2687.2	1900.4	1247.0	364.1	3.7	0.0
39°	3787.0	3763.3	3642.4	3491.5	3149.8	2467.7	1693.4	1096.1	294.3	1.2	0.0
40°	3706.0	3664.8	3527.6	3354.3	2954.0	2219.6	1487.6	947.7	231.9	0.0	0.0
42.5°	3124.9	3081.2	3050.1	2878.0	2353.0	1593.6	1038.7	607.3	121.0	0.0	0.0
45°	2118.6	2128.6	2031.3	1915.3	1552.5	1038.7	649.7	337.9	62.3	0.0	0.0
47.5°	1545.0	1518.8	1386.6	1167.2	910.3	607.3	339.2	163.4	24.9	0.0	0.0
50°	1072.4	1022.5	902.8	738.2	495.0	289.3	149.6	76.1	1.2	0.0	0.0
52.5°	582.3	547.4	463.9	336.7	205.7	111.0	59.9	31.2	0.0	0.0	0.0
55°	93.5	64.8	67.3	57.4	44.9	32.4	18.7	3.7	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	1.2	0.0	0.0	0.0	1.2	1.2
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.5	2.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.5	2.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	2.5	2.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.5	2.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	2.5	2.5



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	2.5	2.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	2.5	2.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	2.5	2.5
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):**

	112.5°	135°	157.5°	180°
0°	158.4	158.4	158.4	158.4
2.5°	106.0	72.3	54.9	47.4
5°	61.1	24.9	13.7	12.5
7.5°	29.9	8.7	5.0	5.0
10°	12.5	2.5	0.0	0.0
12.5°	3.7	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0
21°	0.0	0.0	0.0	0.0
22°	0.0	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	1.2	0.0	0.0	0.0
67.5°	1.2	0.0	0.0	0.0
70°	1.2	0.0	0.0	0.0
72.5°	1.2	0.0	0.0	0.0
75°	1.2	0.0	0.0	0.0
77.5°	1.2	0.0	0.0	0.0
80°	1.2	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
82.5°	1.2	0.0	0.0	0.0
85°	1.2	0.0	0.0	0.0
87.5°	1.2	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)