

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: P1306776

Luminaire Tested: LDSQA3D05R159024DE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

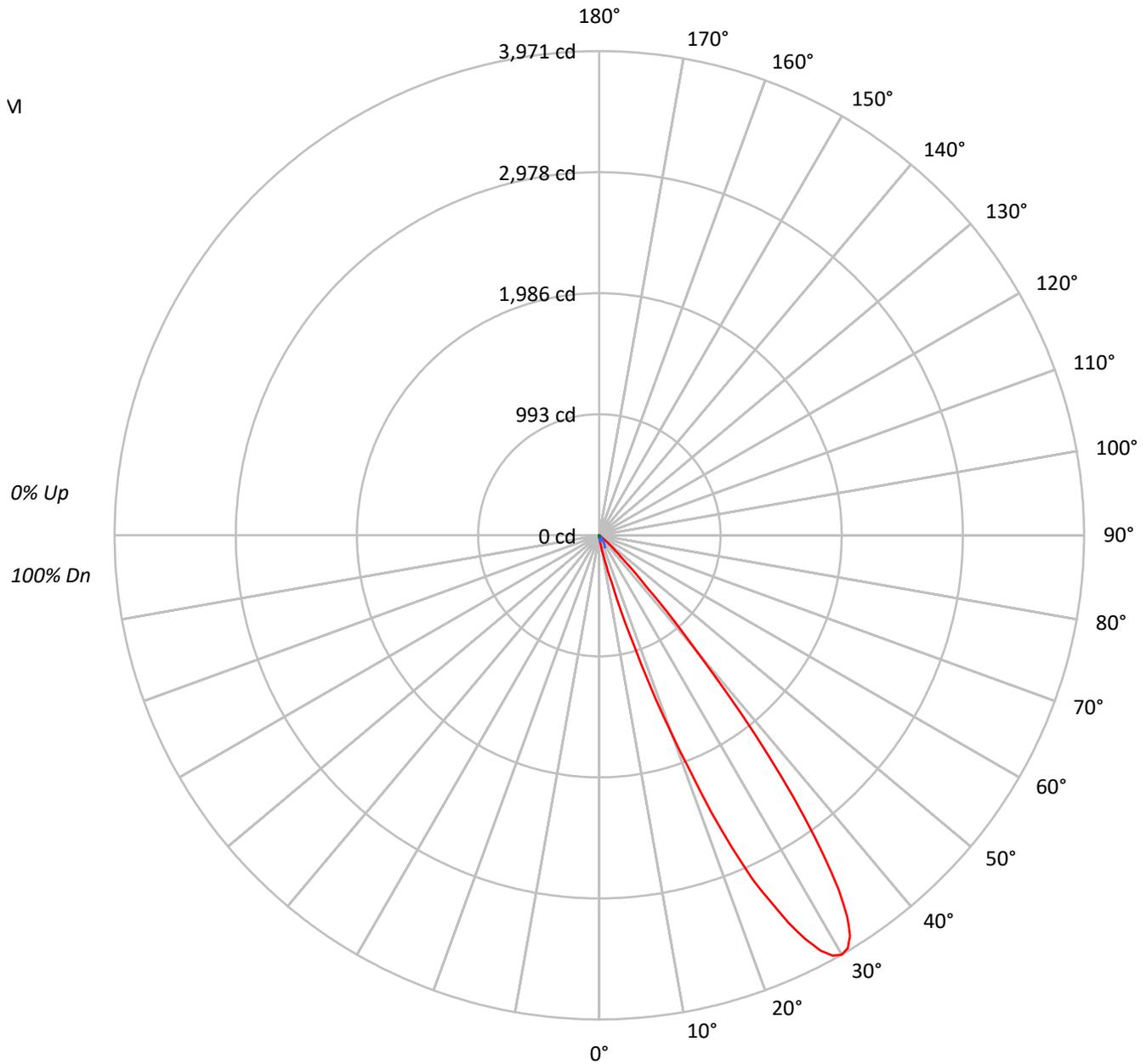
Test Method: LM-79-2019  
Report Number: P1306776  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R159024DE010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R15 optic, 2400K CCT AND, 90CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 420.0 lumens  
Efficiency: N/A  
Efficacy: 58.3 lumens/watt  
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 7.2  
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



— 0°-180°    - - - 45°-225°    ····· 90°-270°



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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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	96	95	94	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	89	87	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	83	80	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	77	73	70	68
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	71	66	63	61
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	65	60	57	55
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	60	55	51	50
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	55	50	46	45
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	51	46	42	41
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	47	42	38	37

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

	0°	45°	90°	135°	180°
0°	2583	2583	2583	2583	2583
5°	7486	5653	2213	916	605
10°	19464	8412	1469	0	0
15°	77809	13782	785	0	0
20°	317873	20325	238	0	0
25°	628361	20143	0	0	0
30°	789755	15889	0	0	0
35°	673856	9755	0	0	0
40°	277429	3080	0	0	0
45°	60013	1291	0	0	0
50°	7690	0	0	0	0
55°	661	0	120	0	0
60°	0	0	310	0	0
65°	0	0	367	0	0
70°	0	201	655	0	0
75°	0	266	865	0	0
80°	0	397	1289	0	0
85°	0	790	2569	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 2°  
 Vertical Angle: 45°  
 Luminance: 62814 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.0	0.5
10°-20°	29.4	7.0
20°-30°	171.6	40.9
30°-40°	184.0	43.8
40°-50°	31.0	7.4
50°-60°	0.9	0.2
60°-70°	0.3	0.1
70°-80°	0.4	0.1
80°-90°	0.4	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°	203.0	48.3
0°-40°	387.0	92.1
0°-60°	418.9	99.8
0°-90°	420.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	420.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	15	15	15	15	15	
5°	43	33	13	5	4	6
15°	436	77	4	0	0	202
25°	3307	106	0	0	0	1496
35°	3205	46	0	0	0	1842
45°	246	5	0	0	0	291
55°	2	0	0	0	0	6
65°	0	0	1	0	0	0
75°	0	0	1	0	0	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
2.5°	27.4	27.8	28.3	28.3	28.3	28.3	27.8	27.8	27.8	27.8	27.4
5°	43.3	43.3	43.3	43.3	43.3	43.3	42.8	42.8	42.8	42.8	42.8
7.5°	61.8	60.9	61.4	60.1	60.9	60.5	60.1	60.9	60.9	58.7	58.7
10°	111.3	110.9	106.4	107.3	108.2	107.8	107.8	105.1	104.7	102.9	101.1
12.5°	214.6	219.5	223.0	223.0	214.6	217.7	212.0	213.3	214.2	211.6	202.3
15°	436.4	444.3	435.9	443.9	440.8	429.3	416.5	399.3	405.9	394.0	390.0
17.5°	955.7	973.8	966.3	929.7	941.6	913.3	895.7	889.0	870.5	815.3	792.3
20°	1734.4	1756.5	1735.7	1692.9	1706.5	1653.1	1639.4	1626.6	1544.5	1514.4	1418.1
21°	2062.1	2080.2	2088.1	2043.5	2016.1	1973.7	1938.4	1926.9	1877.0	1819.2	1720.2
22°	2457.8	2436.6	2388.9	2395.1	2354.5	2319.6	2270.5	2224.2	2168.5	2087.7	2006.0
23°	2785.5	2760.8	2738.2	2710.9	2667.1	2642.4	2572.2	2521.4	2449.0	2362.4	2283.8
24°	3090.7	3052.7	3038.6	2990.0	2977.6	2922.0	2865.0	2798.8	2711.3	2619.0	2532.0
25°	3306.7	3312.4	3300.0	3294.3	3231.1	3174.2	3117.6	3015.6	2941.0	2859.3	2725.4
26°	3538.1	3540.7	3534.5	3492.1	3435.2	3379.5	3306.7	3217.9	3109.7	3019.1	2898.1
27°	3715.2	3704.6	3695.8	3645.4	3598.6	3528.4	3462.1	3357.0	3251.4	3143.7	3003.2
28°	3856.5	3836.6	3825.6	3782.3	3727.5	3641.4	3560.2	3462.1	3356.6	3240.8	3088.9
29°	3941.8	3920.6	3908.2	3860.5	3797.3	3721.8	3639.7	3531.9	3418.4	3289.4	3136.6
30°	3971.3	3959.0	3939.5	3890.1	3824.7	3746.1	3661.7	3544.7	3425.9	3293.8	3132.2
31°	3951.9	3936.0	3917.5	3864.0	3793.4	3718.3	3620.2	3497.4	3372.5	3246.6	3075.2
32°	3874.6	3864.9	3842.4	3770.8	3713.4	3616.3	3519.5	3404.7	3268.2	3133.1	2978.1
33°	3729.8	3713.9	3694.4	3629.1	3555.7	3462.6	3366.3	3248.8	3113.2	2970.6	2800.1
34°	3508.9	3488.6	3464.3	3420.6	3327.0	3246.1	3134.9	2997.5	2885.3	2748.4	2594.3
35°	3205.1	3175.5	3146.3	3113.2	3008.1	2933.5	2858.4	2738.7	2630.5	2501.5	2327.1
36°	2864.1	2852.6	2828.8	2741.3	2707.3	2605.8	2545.2	2407.9	2320.4	2194.1	2050.2
37°	2478.6	2411.0	2445.4	2396.4	2293.9	2262.1	2190.2	2072.2	1977.7	1844.3	1740.1
38°	2065.2	2021.0	2045.3	1995.8	1942.4	1869.1	1814.3	1728.2	1622.2	1517.5	1418.6
39°	1636.8	1601.0	1627.5	1593.9	1512.7	1482.2	1433.6	1367.8	1282.6	1200.9	1107.2
40°	1234.0	1188.0	1223.4	1175.7	1138.6	1088.7	1063.9	1003.4	950.4	901.4	841.8
42.5°	563.5	558.7	550.7	533.5	529.5	530.0	499.5	479.6	452.7	421.3	402.3
45°	246.4	252.6	257.9	248.2	247.8	242.5	240.7	227.5	222.2	212.0	199.6
47.5°	121.5	123.7	122.3	125.0	122.8	119.2	118.4	116.6	111.3	110.9	105.1
50°	28.7	28.3	28.3	28.7	28.3	28.3	27.8	26.9	26.5	26.9	25.6
52.5°	9.3	9.7	9.3	8.8	9.3	9.7	9.3	9.3	9.3	9.3	9.3
55°	2.2	2.2	2.2	2.2	2.2	2.2	1.8	1.8	2.2	2.2	2.2
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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):**

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):**

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	15.0	15.0	15.0	15.0	15.0	15.0	15.0	15.0
2.5°	26.9	23.0	19.0	15.0	11.0	8.8	8.4	7.9
5°	40.6	32.7	21.6	12.8	7.5	5.3	4.0	3.5
7.5°	54.8	40.6	23.8	10.6	5.3	2.2	0.9	0.4
10°	78.6	48.1	24.7	8.4	2.6	0.0	0.0	0.0
12.5°	154.1	55.2	24.3	6.6	0.4	0.0	0.0	0.0
15°	256.2	77.3	22.5	4.4	0.0	0.0	0.0	0.0
17.5°	419.6	99.8	19.4	3.1	0.0	0.0	0.0	0.0
20°	650.6	110.9	15.0	1.3	0.0	0.0	0.0	0.0
21°	762.7	111.7	13.2	0.9	0.0	0.0	0.0	0.0
22°	859.9	111.7	11.5	0.4	0.0	0.0	0.0	0.0
23°	950.0	110.4	10.2	0.0	0.0	0.0	0.0	0.0
24°	1024.2	108.6	9.3	0.0	0.0	0.0	0.0	0.0
25°	1079.8	106.0	8.4	0.0	0.0	0.0	0.0	0.0
26°	1105.5	102.5	7.1	0.0	0.0	0.0	0.0	0.0
27°	1118.3	97.6	6.2	0.0	0.0	0.0	0.0	0.0
28°	1109.4	92.3	5.3	0.0	0.0	0.0	0.0	0.0
29°	1087.3	86.6	4.0	0.0	0.0	0.0	0.0	0.0
30°	1058.6	79.9	3.1	0.0	0.0	0.0	0.0	0.0
31°	1016.7	73.3	2.2	0.0	0.0	0.0	0.0	0.0
32°	959.3	66.7	1.8	0.0	0.0	0.0	0.0	0.0
33°	882.4	59.6	0.9	0.0	0.0	0.0	0.0	0.0
34°	787.5	52.6	0.4	0.0	0.0	0.0	0.0	0.0
35°	681.0	46.4	0.0	0.0	0.0	0.0	0.0	0.0
36°	589.6	39.7	0.0	0.0	0.0	0.0	0.0	0.0
37°	497.7	31.8	0.0	0.0	0.0	0.0	0.0	0.0
38°	416.9	25.2	0.0	0.0	0.0	0.0	0.0	0.0
39°	344.9	20.3	0.0	0.0	0.0	0.0	0.0	0.0
40°	285.7	13.7	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	158.1	9.3	0.0	0.0	0.0	0.0	0.0	0.0
45°	95.8	5.3	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	55.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
50°	21.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	1.8	0.0	0.0	0.4	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.4	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.4	0.9	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.4	0.9	0.4	0.0	0.0	0.0
65°	0.0	0.0	0.9	0.9	0.4	0.0	0.0	0.0
67.5°	0.0	0.0	0.9	1.3	0.4	0.0	0.0	0.0
70°	0.0	0.4	0.9	1.3	0.4	0.0	0.0	0.0
72.5°	0.0	0.4	0.9	1.3	0.4	0.0	0.0	0.0
75°	0.0	0.4	0.9	1.3	0.4	0.0	0.0	0.0
77.5°	0.0	0.4	0.9	1.3	0.4	0.0	0.0	0.0
80°	0.0	0.4	0.9	1.3	0.4	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.4	0.9	1.3	0.4	0.0	0.0	0.0
85°	0.0	0.4	0.9	1.3	0.4	0.0	0.0	0.0
87.5°	0.0	0.4	0.9	1.3	0.4	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)