

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: P1308998

Luminaire Tested: LDSQA3D05R709030DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308998  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R709030DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

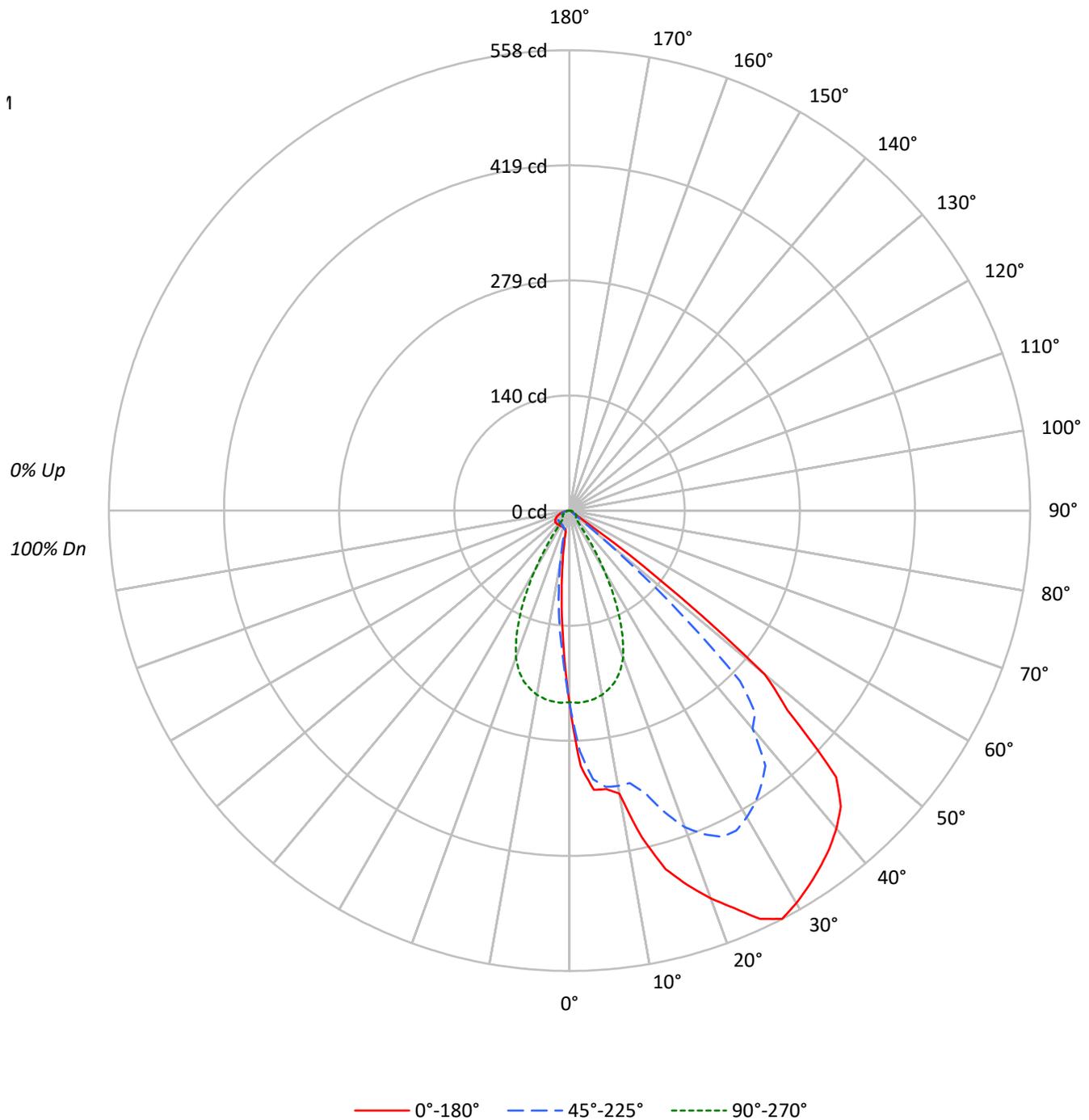
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 441.0 lumens  
Efficiency: N/A  
Efficacy: 61.2 lumens/watt  
Spacing Criteria (0/90/45): 1.69 / 0.89 / 1.39  
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 (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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	62	59	57
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	35

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

	0°	45°	90°	135°	180°
0°	39990	39990	39990	39990	39990
5°	58745	56497	40143	23961	18775
10°	60911	59249	39645	11472	4634
15°	80216	63171	38191	4101	4012
20°	91619	74831	34767	3940	4032
25°	103736	82909	27288	3801	3991
30°	109257	85373	16923	3778	4276
35°	111093	85212	5571	3890	4520
40°	113062	77518	2698	4159	4946
45°	111282	71168	2801	4384	5358
50°	82710	13129	2813	4823	5894
55°	6606	1802	3003	5104	6305
60°	1378	1894	2928	5167	6544
65°	1426	1834	2853	5094	6724
70°	1259	1762	2769	4784	6546
75°	998	1664	2329	4658	6321
80°	992	1488	2479	4463	5951
85°	988	1976	2964	3952	4940

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 45°  
 Luminance: 112622 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	21.1	4.8
10°-20°	59.4	13.5
20°-30°	99.8	22.6
30°-40°	120.0	27.2
40°-50°	95.1	21.6
50°-60°	30.4	6.9
60°-70°	8.5	1.9
70°-80°	5.1	1.1
80°-90°	1.6	0.4
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°	180.3	40.9
0°-40°	300.3	68.1
0°-60°	425.8	96.6
0°-90°	441.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	441.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	232	232	232	232	232	
5°	340	327	232	139	109	32
15°	450	354	214	23	22	127
25°	546	436	144	20	21	250
35°	528	405	26	18	22	331
45°	457	292	12	18	22	328
55°	22	6	10	17	21	69
65°	4	4	7	12	16	3
75°	2	2	4	7	10	2
85°	0	1	2	2	2	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°	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2
2.5°	309.7	311.7	311.7	309.2	310.2	306.2	303.2	298.7	297.7	292.2	285.2
5°	339.8	338.8	338.8	336.8	337.8	336.3	334.8	333.8	330.8	326.8	322.8
7.5°	340.3	341.3	341.8	341.3	343.3	341.8	341.8	341.8	339.8	337.8	333.8
10°	348.3	346.8	345.3	341.8	339.8	338.3	338.3	338.8	339.8	338.8	336.3
12.5°	405.8	400.3	397.8	389.3	382.8	371.8	359.3	349.8	341.3	338.3	336.3
15°	449.9	448.9	443.9	435.8	427.8	414.8	400.3	385.8	370.3	354.3	342.8
17.5°	475.9	473.9	468.9	460.4	450.9	438.8	427.3	416.3	401.3	383.3	364.8
20°	499.9	495.4	488.9	478.9	469.4	457.9	445.4	434.8	422.3	408.3	386.8
22.5°	521.4	517.4	506.9	493.4	483.9	472.9	461.9	451.9	440.4	424.3	404.8
25°	545.9	536.9	519.9	502.4	490.9	481.9	473.9	465.9	453.9	436.3	413.3
27.5°	557.9	545.4	526.9	509.4	498.4	488.9	480.4	472.4	458.9	437.3	410.8
30°	549.4	542.4	529.4	515.9	506.9	497.9	487.9	475.9	454.4	429.3	404.8
32.5°	539.4	535.9	529.9	521.9	516.4	507.4	493.4	473.9	443.9	419.3	392.8
35°	528.4	526.9	524.9	521.4	517.9	509.4	491.9	463.4	433.3	405.3	379.8
37.5°	516.9	515.4	516.9	516.4	513.4	502.4	475.9	449.4	418.3	389.8	340.3
40°	502.9	501.9	504.4	506.9	503.4	488.9	460.4	428.3	400.8	344.8	327.8
42.5°	486.4	485.9	490.4	492.4	487.4	465.9	432.3	408.8	350.8	332.8	292.7
45°	456.9	457.9	459.9	462.4	459.4	435.8	405.3	362.3	336.8	292.2	166.6
47.5°	357.8	358.8	368.8	389.8	404.3	396.3	370.3	338.3	301.2	167.1	52.5
50°	308.7	307.7	308.2	313.2	324.8	335.8	327.8	310.2	179.6	49.0	6.5
52.5°	135.6	150.6	166.6	211.7	240.7	271.2	277.2	194.2	58.5	6.5	6.5
55°	22.0	23.0	29.0	42.5	76.6	115.6	140.1	65.1	6.0	6.0	6.0
57.5°	4.5	4.5	4.5	5.0	7.5	16.0	18.5	5.5	5.5	5.5	6.0
60°	4.0	4.0	4.0	4.0	4.5	4.5	4.5	5.0	5.0	5.5	5.5
62.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.5	4.5	5.0	5.0	5.5
65°	3.5	3.5	3.5	3.5	4.0	4.0	4.0	4.0	4.5	4.5	5.0
67.5°	3.0	3.0	3.0	3.0	3.5	3.5	3.5	4.0	4.0	4.0	4.5
70°	2.5	2.5	2.5	2.5	3.0	3.0	3.0	3.0	3.5	3.5	3.5
72.5°	2.0	2.0	2.0	2.0	2.5	2.5	2.5	2.5	3.0	3.0	3.0
75°	1.5	1.5	2.0	2.0	2.0	2.0	2.0	2.0	2.5	2.5	2.5
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0	2.0
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5
82.5°	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	232.2	232.2	232.2	232.2	232.2	232.2	232.2	232.2
2.5°	280.7	273.7	264.2	233.2	204.7	178.6	165.6	164.1
5°	316.3	309.7	293.7	232.2	177.6	138.6	115.1	108.6
7.5°	329.8	324.3	310.2	230.2	152.1	99.6	73.1	63.1
10°	333.3	329.8	317.8	226.7	125.6	65.6	34.5	26.5
12.5°	334.8	332.3	320.8	221.2	99.1	34.0	23.5	23.5
15°	337.3	334.8	323.8	214.2	73.1	23.0	22.5	22.5
17.5°	348.3	340.3	327.8	203.7	48.0	22.0	22.0	22.0
20°	366.3	348.8	329.8	189.7	30.0	21.5	21.5	22.0
22.5°	381.3	357.8	329.3	168.6	22.0	20.5	21.0	21.5
25°	387.8	361.8	324.8	143.6	19.0	20.0	21.0	21.0
27.5°	386.8	363.3	320.8	115.1	18.0	19.5	20.5	21.5
30°	381.3	359.3	311.7	85.1	17.0	19.0	20.5	21.5
32.5°	371.8	343.8	293.7	55.0	16.5	19.0	20.5	21.5
35°	340.8	318.8	267.7	26.5	16.0	18.5	21.0	21.5
37.5°	322.8	292.2	204.2	13.0	15.5	18.5	21.0	21.5
40°	293.7	218.2	92.1	12.0	15.5	18.5	21.0	22.0
42.5°	184.6	89.6	15.0	11.5	15.0	18.5	21.0	22.0
45°	67.6	12.0	8.0	11.5	15.0	18.0	21.0	22.0
47.5°	7.0	7.0	7.5	11.0	14.5	18.0	21.0	22.0
50°	6.5	7.0	7.5	10.5	14.0	18.0	20.5	22.0
52.5°	6.5	7.0	7.5	10.5	13.5	17.5	20.5	22.0
55°	6.5	7.0	7.0	10.0	13.0	17.0	20.0	21.0
57.5°	6.0	6.5	7.0	9.5	12.5	16.0	19.5	20.5
60°	6.0	6.5	7.0	8.5	12.0	15.0	18.5	19.0
62.5°	5.5	6.0	6.5	8.0	11.0	14.0	17.0	18.0
65°	5.5	5.5	6.0	7.0	10.0	12.5	15.5	16.5
67.5°	4.5	5.0	5.0	6.0	8.5	11.0	14.0	15.0
70°	4.0	4.0	4.5	5.5	7.5	9.5	12.0	13.0
72.5°	3.5	3.5	3.5	4.5	6.5	8.5	10.5	11.5
75°	3.0	3.0	3.0	3.5	5.5	7.0	9.0	9.5
77.5°	2.5	2.5	2.5	3.0	4.5	6.0	7.0	8.0
80°	2.0	2.0	2.0	2.5	3.5	4.5	5.5	6.0
82.5°	1.5	1.5	1.5	2.0	2.5	3.0	4.0	4.0
85°	1.0	1.0	1.0	1.5	1.5	2.0	2.5	2.5
87.5°	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)