

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: P1325297

Luminaire Tested: LDSQA3D05R50W2N902765DE010 3LSQCA30R 1MW\_2700K

Issue Date: 1/29/2026

**Test Information**

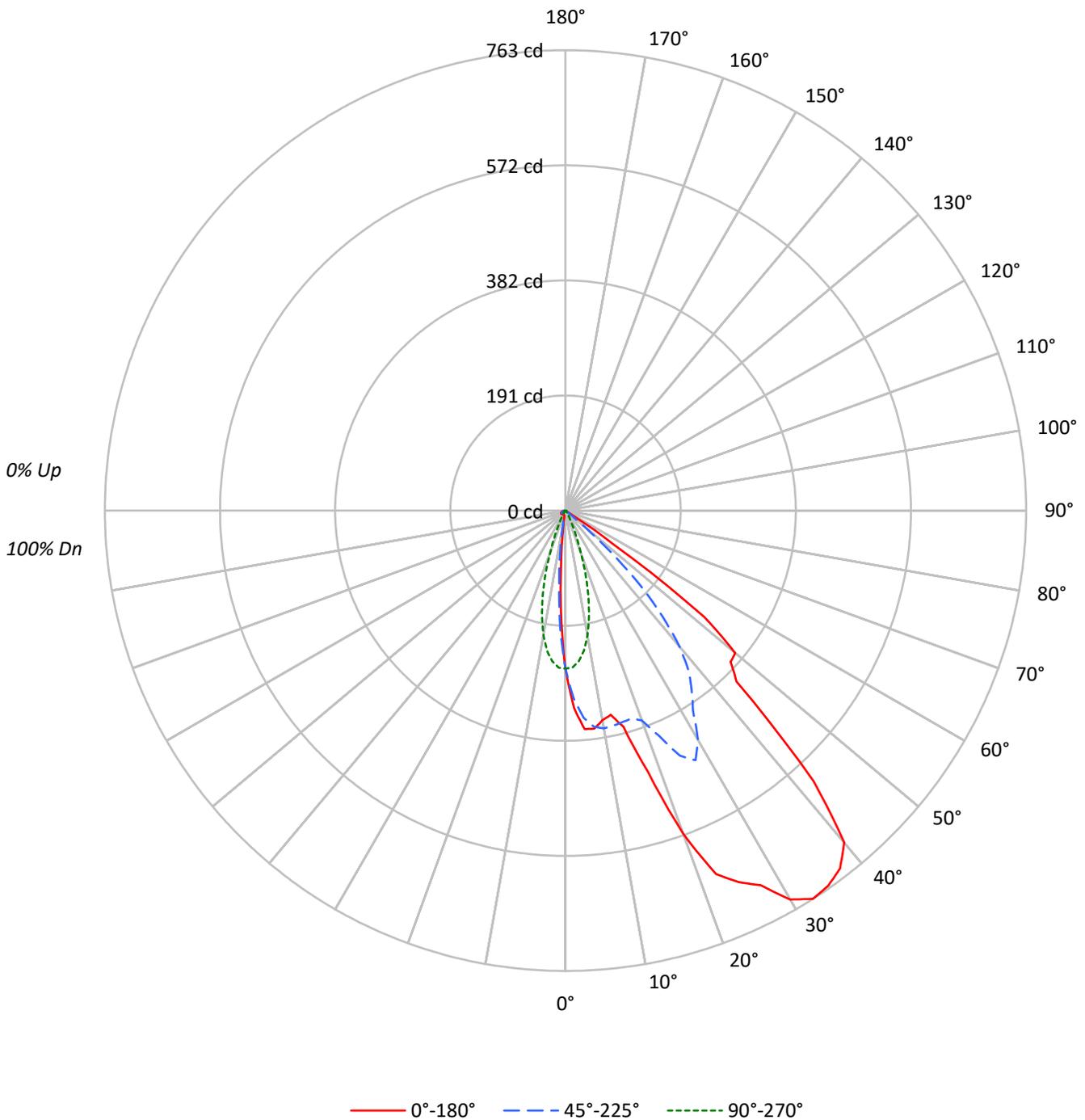
Test Method: LM-79-2019  
Report Number: P1325297  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R50W2N902765DE010 3LSQCA30R 1MW\_2700K  
Description: 3in Adjustable Tunable White LED luminaire with, R50 optic, 2700K CCT AND, 90CRI ,  
3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 407.0 lumens  
Efficiency: N/A  
Efficacy: 69.0 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 5.9  
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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	92	95	94	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	88	85	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	81	77	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	74	70	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	63	58	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	50	45	39
10	61	50	42	38	60	49	42	38	48	42	38	47	42	37	46	41	37	46	41	36

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

	0°	45°	90°	135°	180°
0°	45071	45071	45071	45071	45071
5°	62842	59609	43324	20815	13502
10°	61680	64058	36602	4389	1889
15°	66149	64740	25889	1533	1462
20°	104449	67794	13672	1320	1375
25°	129085	85151	5454	1235	1368
30°	147976	87322	2207	1213	1432
35°	159534	76634	988	1282	1577
40°	161489	66007	719	1461	1776
45°	97594	42769	706	1583	1997
50°	98331	7395	777	1822	2304
55°	29065	420	871	2042	2582
60°	482	482	861	2239	2824
65°	448	448	897	2323	3056
70°	554	554	906	2518	3424
75°	466	466	932	2595	3593
80°	397	694	1091	2479	3868
85°	790	1383	1383	2766	3557

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 111477 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	21.2	5.2
10°-20°	52.5	12.9
20°-30°	98.4	24.2
30°-40°	117.7	28.9
40°-50°	84.3	20.7
50°-60°	26.0	6.4
60°-70°	3.4	0.8
70°-80°	2.5	0.6
80°-90°	1.0	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°	172.1	42.3
0°-40°	289.8	71.2
0°-60°	400.1	98.3
0°-90°	407.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	407.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	262	262	262	262	262	
5°	364	345	251	120	78	34
15°	371	363	145	9	8	119
25°	679	448	29	6	7	313
35°	759	364	5	6	8	471
45°	401	176	3	6	8	368
55°	97	1	3	7	9	125
65°	1	1	2	6	8	1
75°	1	1	1	4	5	1
85°	0	1	1	1	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°	261.7	261.7	261.7	261.7	261.7	261.7	261.7	261.7	261.7	261.7	261.7
2.5°	327.3	328.0	329.1	326.2	324.4	323.0	320.5	319.7	313.6	311.1	308.6
5°	363.5	362.7	363.5	362.4	361.7	359.5	357.4	353.8	349.8	344.8	339.1
7.5°	364.5	363.8	365.3	365.3	366.7	366.7	366.7	367.0	364.9	361.3	356.3
10°	352.7	352.7	354.1	353.4	355.9	357.0	359.5	363.8	366.0	366.3	364.9
12.5°	346.6	346.6	347.0	345.5	346.3	347.3	350.2	355.2	360.2	365.3	368.1
15°	371.0	371.7	366.7	359.5	354.1	348.4	346.6	349.8	355.2	363.1	369.6
17.5°	453.8	454.9	449.5	432.3	415.8	392.1	371.0	360.6	354.9	361.3	369.9
20°	569.9	566.0	556.7	538.4	514.4	477.8	444.8	411.5	379.6	369.9	372.8
22.5°	652.0	650.6	643.1	622.6	601.8	567.8	525.8	479.2	433.0	403.6	388.2
25°	679.3	678.2	671.4	659.2	647.7	621.9	584.3	537.3	488.9	448.1	409.3
27.5°	699.7	698.3	687.5	673.9	662.1	635.9	601.5	566.0	521.5	466.3	406.8
30°	744.1	740.2	725.1	700.8	678.2	642.0	604.0	559.9	499.7	439.1	381.0
32.5°	762.8	760.6	747.7	728.0	703.3	656.0	598.2	524.4	445.2	392.9	350.6
35°	758.8	755.6	742.3	719.8	689.7	644.1	567.1	465.6	401.1	364.5	316.9
37.5°	747.0	742.3	726.6	700.0	663.5	604.0	503.3	417.9	376.4	335.1	271.0
40°	718.3	710.8	692.5	664.9	628.4	550.2	445.2	389.3	350.6	293.6	219.7
42.5°	608.6	604.7	613.7	609.0	576.7	484.6	404.0	363.1	309.7	237.3	159.2
45°	400.7	407.6	423.7	451.3	457.7	416.9	370.3	320.1	254.9	175.6	91.8
47.5°	371.0	369.6	373.5	378.9	380.0	362.7	320.5	264.5	189.3	100.4	25.4
50°	367.0	364.9	361.7	355.2	341.6	308.3	260.2	192.8	109.3	27.6	1.8
52.5°	290.0	287.8	287.8	278.5	260.9	228.7	179.6	106.1	30.5	1.8	1.4
55°	96.8	103.2	102.2	101.8	109.7	101.1	77.4	27.2	2.5	1.4	1.4
57.5°	1.8	1.8	1.8	3.2	5.0	7.2	4.3	2.2	1.4	1.4	1.4
60°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
62.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
65°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.4
67.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
70°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
72.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.1	1.1	1.1
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.1
77.5°	0.4	0.4	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.7	0.7	0.7
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.7	0.7
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4
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°	261.7	261.7	261.7	261.7	261.7	261.7	261.7	261.7
2.5°	302.9	297.9	288.2	260.6	230.1	195.4	171.7	168.8
5°	330.1	322.6	306.8	250.6	181.0	120.4	89.6	78.1
7.5°	348.1	338.0	318.7	234.1	131.9	63.4	34.1	27.2
10°	358.8	349.5	324.8	209.3	83.9	25.1	11.5	10.8
12.5°	364.5	355.6	326.9	179.6	47.3	11.5	9.0	9.0
15°	368.5	358.8	323.7	145.2	23.7	8.6	8.2	8.2
17.5°	370.3	358.4	314.4	109.3	12.5	7.9	7.9	7.9
20°	371.4	354.5	297.2	74.6	8.6	7.2	7.5	7.5
22.5°	372.4	344.8	274.6	47.3	6.8	6.8	7.2	7.2
25°	370.3	328.0	242.7	28.7	6.1	6.5	6.8	7.2
27.5°	354.9	302.5	204.0	17.6	5.4	6.1	6.8	7.2
30°	328.3	265.3	159.2	11.1	5.0	6.1	6.8	7.2
32.5°	293.9	222.6	113.6	6.8	5.0	6.1	6.8	7.2
35°	247.7	170.3	73.8	4.7	5.0	6.1	7.2	7.5
37.5°	195.7	119.0	39.8	3.6	5.0	6.1	7.2	7.5
40°	140.9	71.3	14.3	3.2	4.7	6.5	7.5	7.9
42.5°	82.4	26.5	2.5	2.9	4.7	6.5	7.5	7.9
45°	23.7	2.9	1.4	2.9	4.7	6.5	7.9	8.2
47.5°	1.8	1.1	1.4	2.9	4.7	6.5	7.9	8.6
50°	1.1	1.1	1.1	2.9	4.7	6.8	8.2	8.6
52.5°	1.4	1.4	1.4	2.9	4.7	6.8	8.2	8.6
55°	1.4	1.4	1.4	2.9	4.7	6.8	8.2	8.6
57.5°	1.4	1.4	1.4	2.9	4.7	6.5	8.2	8.6
60°	1.4	1.4	1.4	2.5	4.3	6.5	7.9	8.2
62.5°	1.4	1.4	1.4	2.5	4.3	6.1	7.9	7.9
65°	1.4	1.4	1.4	2.2	3.9	5.7	7.2	7.5
67.5°	1.4	1.4	1.4	2.2	3.6	5.4	6.8	7.2
70°	1.1	1.4	1.4	1.8	3.2	5.0	6.5	6.8
72.5°	1.1	1.1	1.4	1.8	2.9	4.3	5.7	6.1
75°	1.1	1.1	1.1	1.4	2.5	3.9	5.0	5.4
77.5°	1.1	1.1	1.1	1.4	2.2	3.2	4.7	4.7
80°	0.7	1.1	1.1	1.1	1.8	2.5	3.6	3.9
82.5°	0.7	0.7	0.7	1.1	1.4	2.2	2.9	2.9
85°	0.7	0.7	0.7	0.7	1.1	1.4	1.8	1.8
87.5°	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)