

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: P1317234

Luminaire Tested: LDSQA3D05R509827DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

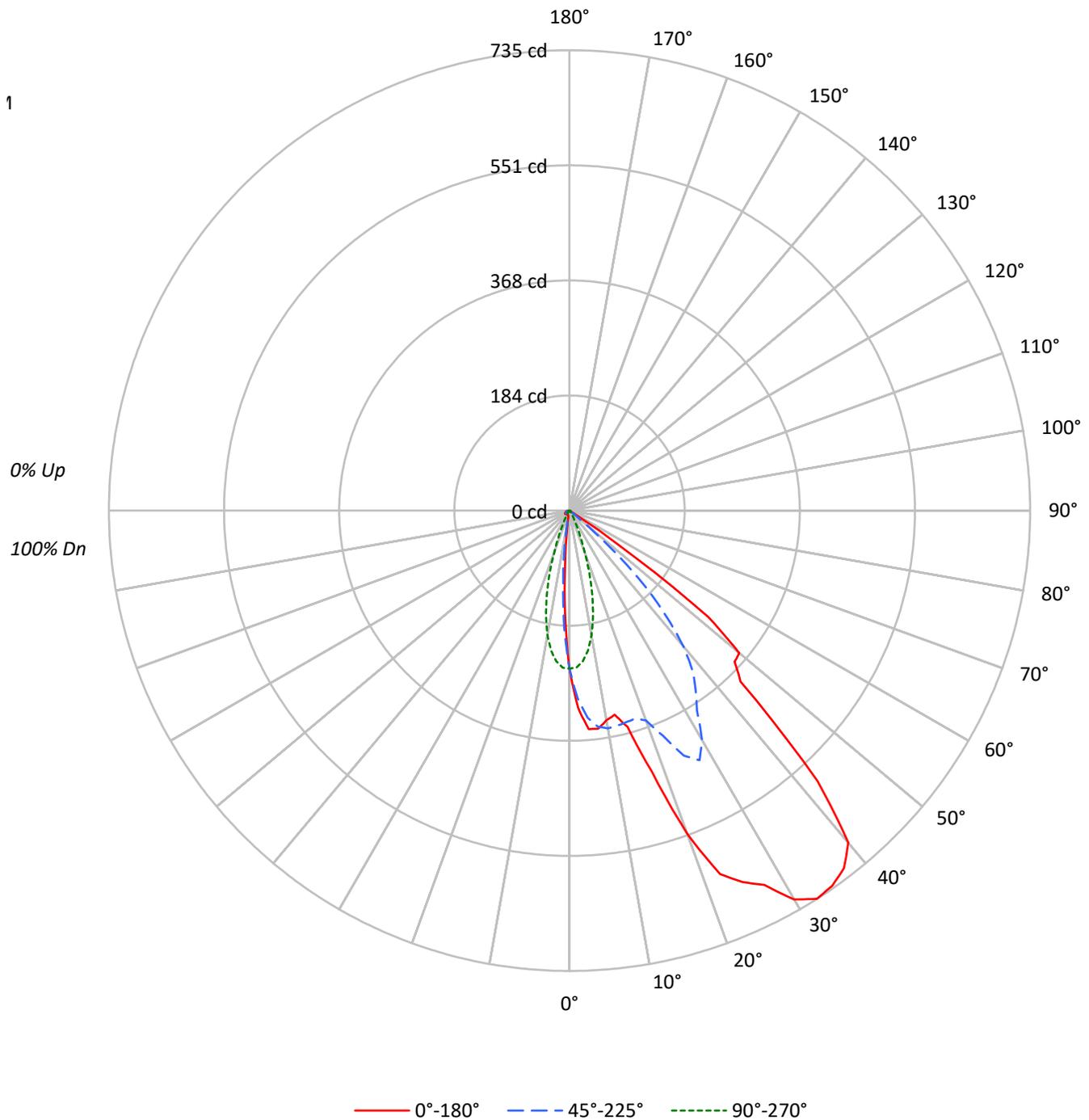
Test Method: LM-79-2019  
Report Number: P1317234  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R509827DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 392.0 lumens  
Efficiency: N/A  
Efficacy: 54.4 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): 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





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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	103	110	107	104	101	102	100	98	99	97	95	95	94	93	95	94	93	91	
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	88	85	83	81	
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	81	77	74	73	
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	74	70	67	65	
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	60	58	
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	63	58	54	53	
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	49	47	
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43	
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	50	45	41	39	
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	46	41	37	36	

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

	0°	45°	90°	135°	180°
0°	43400	43400	43400	43400	43400
5°	60525	57414	41716	20054	13018
10°	59407	61697	35256	4232	1819
15°	63706	62351	24926	1480	1409
20°	100600	65301	13159	1265	1320
25°	124315	81997	5245	1178	1311
30°	142527	84100	2128	1173	1372
35°	153668	73817	946	1240	1514
40°	155553	63557	697	1394	1709
45°	94014	41210	682	1510	1924
50°	94714	7127	750	1768	2224
55°	27984	420	841	1982	2492
60°	482	482	827	2136	2721
65°	408	408	856	2241	2934
70°	504	504	856	2417	3323
75°	466	466	932	2529	3460
80°	298	694	992	2380	3769
85°	593	1383	1383	2766	3359

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 107385 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	20.4	5.2
10°-20°	50.6	12.9
20°-30°	94.8	24.2
30°-40°	113.3	28.9
40°-50°	81.2	20.7
50°-60°	25.0	6.4
60°-70°	3.3	0.8
70°-80°	2.4	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°	165.8	42.3
0°-40°	279.1	71.2
0°-60°	385.4	98.3
0°-90°	392.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	392.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	252	252	252	252	252	
5°	350	332	241	116	75	33
15°	357	350	140	8	8	114
25°	654	432	28	6	7	301
35°	731	351	4	6	7	453
45°	386	169	3	6	8	355
55°	93	1	3	7	8	120
65°	1	1	2	6	7	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°	252.0	252.0	252.0	252.0	252.0	252.0	252.0	252.0	252.0	252.0	252.0
2.5°	315.2	315.9	316.9	314.2	312.4	311.1	308.6	308.0	302.1	299.7	297.2
5°	350.1	349.4	350.1	349.0	348.3	346.3	344.2	340.7	337.0	332.1	326.6
7.5°	351.1	350.4	351.8	351.8	353.2	353.2	353.2	353.5	351.5	348.0	343.2
10°	339.7	339.7	341.1	340.4	342.8	343.9	346.3	350.4	352.5	352.8	351.5
12.5°	333.8	333.8	334.2	332.8	333.5	334.5	337.3	342.1	347.0	351.8	354.6
15°	357.3	358.0	353.2	346.3	341.1	335.6	333.8	337.0	342.1	349.7	355.9
17.5°	437.1	438.1	432.9	416.4	400.5	377.7	357.3	347.3	341.8	348.0	356.3
20°	548.9	545.1	536.2	518.5	495.4	460.2	428.4	396.3	365.6	356.3	359.0
22.5°	628.0	626.6	619.4	599.7	579.7	546.9	506.5	461.6	417.0	388.7	373.9
25°	654.2	653.2	646.6	634.9	623.8	599.0	562.7	517.5	470.9	431.5	394.3
27.5°	673.9	672.5	662.2	649.0	637.7	612.4	579.3	545.1	502.3	449.2	391.8
30°	716.7	712.9	698.4	674.9	653.2	618.3	581.7	539.3	481.3	422.9	367.0
32.5°	734.7	732.6	720.2	701.2	677.4	631.8	576.2	505.1	428.8	378.4	337.6
35°	730.9	727.8	715.0	693.2	664.2	620.4	546.2	448.5	386.3	351.1	305.2
37.5°	719.5	715.0	699.8	674.2	639.0	581.7	484.7	402.5	362.5	322.8	261.0
40°	691.9	684.6	667.0	640.4	605.2	529.9	428.8	374.9	337.6	282.7	211.6
42.5°	586.2	582.4	591.0	586.6	555.5	466.8	389.1	349.7	298.3	228.5	153.3
45°	386.0	392.5	408.1	434.7	440.9	401.5	356.6	308.3	245.5	169.2	88.4
47.5°	357.3	355.9	359.7	364.9	366.0	349.4	308.6	254.8	182.3	96.7	24.5
50°	353.5	351.5	348.3	342.1	329.0	296.9	250.6	185.7	105.3	26.6	1.7
52.5°	279.3	277.2	277.2	268.2	251.3	220.3	173.0	102.2	29.3	1.7	1.4
55°	93.2	99.4	98.4	98.0	105.6	97.4	74.6	26.2	2.4	1.4	1.4
57.5°	1.7	1.7	1.7	3.1	4.8	6.9	4.1	2.1	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°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.4
67.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
70°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
72.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.0	1.0
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0
77.5°	0.3	0.3	0.3	0.3	0.7	0.7	0.7	0.7	0.7	0.7	0.7
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7	0.7	0.7
82.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7	0.7
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3
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°	252.0	252.0	252.0	252.0	252.0	252.0	252.0	252.0
2.5°	291.7	286.9	277.6	251.0	221.6	188.2	165.4	162.6
5°	318.0	310.7	295.5	241.3	174.3	116.0	86.3	75.3
7.5°	335.2	325.6	306.9	225.4	127.0	61.1	32.8	26.2
10°	345.6	336.6	312.8	201.6	80.8	24.2	11.0	10.4
12.5°	351.1	342.5	314.9	173.0	45.6	11.0	8.6	8.6
15°	354.9	345.6	311.7	139.8	22.8	8.3	7.9	7.9
17.5°	356.6	345.2	302.8	105.3	12.1	7.6	7.6	7.6
20°	357.7	341.4	286.2	71.8	8.3	6.9	7.2	7.2
22.5°	358.7	332.1	264.5	45.6	6.6	6.6	6.9	6.9
25°	356.6	315.9	233.7	27.6	5.9	6.2	6.6	6.9
27.5°	341.8	291.4	196.4	16.9	5.2	5.9	6.6	6.9
30°	316.2	255.5	153.3	10.7	4.8	5.9	6.6	6.9
32.5°	283.1	214.4	109.4	6.6	4.8	5.9	6.6	6.9
35°	238.6	164.0	71.1	4.5	4.8	5.9	6.9	7.2
37.5°	188.5	114.6	38.3	3.5	4.8	5.9	6.9	7.2
40°	135.7	68.7	13.8	3.1	4.5	6.2	7.2	7.6
42.5°	79.4	25.5	2.4	2.8	4.5	6.2	7.2	7.6
45°	22.8	2.8	1.4	2.8	4.5	6.2	7.6	7.9
47.5°	1.7	1.0	1.4	2.8	4.5	6.2	7.6	8.3
50°	1.0	1.0	1.0	2.8	4.5	6.6	7.9	8.3
52.5°	1.4	1.4	1.4	2.8	4.5	6.6	7.9	8.3
55°	1.4	1.4	1.4	2.8	4.5	6.6	7.9	8.3
57.5°	1.4	1.4	1.4	2.8	4.5	6.2	7.9	8.3
60°	1.4	1.4	1.4	2.4	4.1	6.2	7.6	7.9
62.5°	1.4	1.4	1.4	2.4	4.1	5.9	7.6	7.6
65°	1.4	1.4	1.4	2.1	3.8	5.5	6.9	7.2
67.5°	1.4	1.4	1.4	2.1	3.5	5.2	6.6	6.9
70°	1.0	1.4	1.4	1.7	3.1	4.8	6.2	6.6
72.5°	1.0	1.0	1.4	1.7	2.8	4.1	5.5	5.9
75°	1.0	1.0	1.0	1.4	2.4	3.8	4.8	5.2
77.5°	1.0	1.0	1.0	1.4	2.1	3.1	4.5	4.5
80°	0.7	1.0	1.0	1.0	1.7	2.4	3.5	3.8
82.5°	0.7	0.7	0.7	1.0	1.4	2.1	2.8	2.8
85°	0.7	0.7	0.7	0.7	1.0	1.4	1.7	1.7
87.5°	0.3	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)