

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: P1307849

Luminaire Tested: LDSQA3D05R509027DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

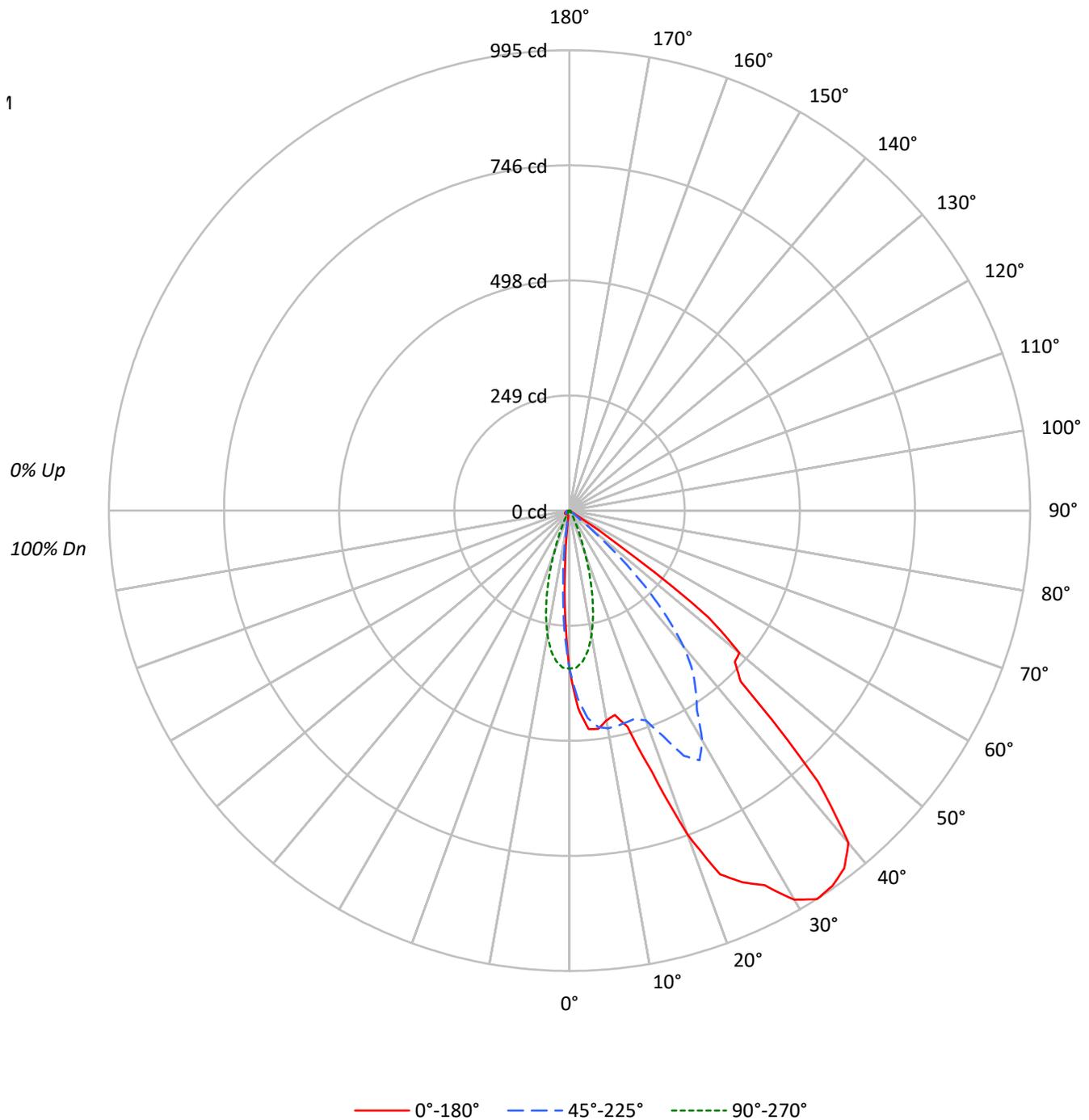
Test Method: LM-79-2019  
Report Number: P1307849  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R509027DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 531.0 lumens  
Efficiency: N/A  
Efficacy: 73.8 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	93	93	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	83	83	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	74	74	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	67	67	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	60	60	60	58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	54	54	54	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	49	49	49	47
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	45	45	45	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	41	41	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	37	46	41	37	37	37	37	36

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

	0°	45°	90°	135°	180°
0°	58797	58797	58797	58797	58797
5°	81980	77779	56515	27160	17617
10°	80480	83575	47760	5719	2448
15°	86296	84460	33770	1997	1926
20°	136284	88449	17833	1723	1796
25°	168402	111090	7107	1596	1786
30°	193079	113930	2884	1591	1869
35°	208143	99993	1282	1682	2060
40°	210702	86106	944	1888	2316
45°	127333	55824	901	2046	2630
50°	128312	9646	991	2385	3001
55°	37923	570	1111	2672	3363
60°	654	654	1137	2893	3720
65°	571	571	1141	3056	3994
70°	705	705	1158	3273	4482
75°	599	599	1264	3394	4658
80°	496	893	1389	3273	5058
85°	988	1778	1778	3754	4545

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 145454 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	27.6	5.2
10°-20°	68.5	12.9
20°-30°	128.4	24.2
30°-40°	153.5	28.9
40°-50°	110.0	20.7
50°-60°	33.9	6.4
60°-70°	4.4	0.8
70°-80°	3.2	0.6
80°-90°	1.3	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°	224.6	42.3
0°-40°	378.1	71.2
0°-60°	522.0	98.3
0°-90°	531.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	531.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	341	341	341	341	341	
5°	474	450	327	157	102	44
15°	484	474	189	11	11	155
25°	886	585	37	8	9	408
35°	990	476	6	8	10	614
45°	523	229	4	8	11	480
55°	126	2	4	9	11	163
65°	1	1	3	8	10	2
75°	1	1	2	5	7	1
85°	0	1	1	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°	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4
2.5°	427.0	427.9	429.3	425.6	423.2	421.4	418.1	417.1	409.2	405.9	402.7
5°	474.2	473.3	474.2	472.8	471.9	469.1	466.3	461.6	456.4	449.9	442.4
7.5°	475.6	474.7	476.5	476.5	478.4	478.4	478.4	478.9	476.1	471.4	464.8
10°	460.2	460.2	462.0	461.1	464.4	465.8	469.1	474.7	477.5	477.9	476.1
12.5°	452.2	452.2	452.7	450.8	451.8	453.2	456.9	463.4	470.0	476.5	480.3
15°	484.0	485.0	478.4	469.1	462.0	454.6	452.2	456.4	463.4	473.7	482.2
17.5°	592.1	593.5	586.4	564.0	542.5	511.6	484.0	470.5	463.0	471.4	482.6
20°	743.6	738.4	726.3	702.4	671.1	623.4	580.4	536.9	495.2	482.6	486.4
22.5°	850.7	848.8	839.0	812.3	785.2	740.8	686.0	625.3	564.9	526.6	506.5
25°	886.2	884.8	875.9	860.0	845.1	811.4	762.3	701.0	637.9	584.6	534.1
27.5°	912.9	911.0	897.0	879.2	863.8	829.6	784.7	738.4	680.4	608.4	530.8
30°	970.9	965.7	946.1	914.3	884.8	837.6	788.0	730.5	651.9	572.9	497.1
32.5°	995.2	992.4	975.5	949.8	917.5	855.8	780.5	684.2	580.8	512.5	457.4
35°	990.0	985.8	968.5	939.1	899.8	840.4	739.8	607.5	523.3	475.6	413.4
37.5°	974.6	968.5	947.9	913.3	865.6	788.0	656.6	545.3	491.0	437.3	353.5
40°	937.2	927.4	903.5	867.5	819.8	717.8	580.8	507.9	457.4	383.0	286.7
42.5°	794.1	788.9	800.6	794.5	752.5	632.3	527.0	473.7	404.1	309.6	207.6
45°	522.8	531.7	552.8	588.8	597.2	543.9	483.1	417.6	332.5	229.2	119.7
47.5°	484.0	482.2	487.3	494.3	495.7	473.3	418.1	345.1	246.9	130.9	33.2
50°	478.9	476.1	471.9	463.4	445.7	402.2	339.5	251.6	142.6	36.0	2.3
52.5°	378.3	375.5	375.5	363.4	340.5	298.4	234.3	138.4	39.8	2.3	1.9
55°	126.3	134.7	133.3	132.8	143.1	131.9	101.0	35.5	3.3	1.9	1.9
57.5°	2.3	2.3	2.3	4.2	6.5	9.4	5.6	2.8	1.9	1.9	1.9
60°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
62.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
65°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.9
67.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
70°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.4	1.4
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4
77.5°	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9	0.9	0.9
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9	0.9
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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°	341.4	341.4	341.4	341.4	341.4	341.4	341.4	341.4
2.5°	395.2	388.6	376.0	340.0	300.2	254.9	224.0	220.3
5°	430.7	420.9	400.3	326.9	236.2	157.1	116.9	101.9
7.5°	454.1	441.0	415.7	305.4	172.1	82.8	44.4	35.5
10°	468.1	456.0	423.7	273.1	109.4	32.7	15.0	14.0
12.5°	475.6	463.9	426.5	234.3	61.7	15.0	11.7	11.7
15°	480.7	468.1	422.3	189.4	30.9	11.2	10.8	10.8
17.5°	483.1	467.7	410.1	142.6	16.4	10.3	10.3	10.3
20°	484.5	462.5	387.7	97.3	11.2	9.4	9.8	9.8
22.5°	485.9	449.9	358.2	61.7	8.9	8.9	9.4	9.4
25°	483.1	427.9	316.6	37.4	8.0	8.4	8.9	9.4
27.5°	463.0	394.7	266.1	22.9	7.0	8.0	8.9	9.4
30°	428.4	346.1	207.6	14.5	6.5	8.0	8.9	9.4
32.5°	383.5	290.4	148.2	8.9	6.5	8.0	8.9	9.4
35°	323.1	222.1	96.3	6.1	6.5	8.0	9.4	9.8
37.5°	255.3	155.3	51.9	4.7	6.5	8.0	9.4	9.8
40°	183.8	93.1	18.7	4.2	6.1	8.4	9.8	10.3
42.5°	107.6	34.6	3.3	3.7	6.1	8.4	9.8	10.3
45°	30.9	3.7	1.9	3.7	6.1	8.4	10.3	10.8
47.5°	2.3	1.4	1.9	3.7	6.1	8.4	10.3	11.2
50°	1.4	1.4	1.4	3.7	6.1	8.9	10.8	11.2
52.5°	1.9	1.9	1.9	3.7	6.1	8.9	10.8	11.2
55°	1.9	1.9	1.9	3.7	6.1	8.9	10.8	11.2
57.5°	1.9	1.9	1.9	3.7	6.1	8.4	10.8	11.2
60°	1.9	1.9	1.9	3.3	5.6	8.4	10.3	10.8
62.5°	1.9	1.9	1.9	3.3	5.6	8.0	10.3	10.3
65°	1.9	1.9	1.9	2.8	5.1	7.5	9.4	9.8
67.5°	1.9	1.9	1.9	2.8	4.7	7.0	8.9	9.4
70°	1.4	1.9	1.9	2.3	4.2	6.5	8.4	8.9
72.5°	1.4	1.4	1.9	2.3	3.7	5.6	7.5	8.0
75°	1.4	1.4	1.4	1.9	3.3	5.1	6.5	7.0
77.5°	1.4	1.4	1.4	1.9	2.8	4.2	6.1	6.1
80°	0.9	1.4	1.4	1.4	2.3	3.3	4.7	5.1
82.5°	0.9	0.9	0.9	1.4	1.9	2.8	3.7	3.7
85°	0.9	0.9	0.9	0.9	1.4	1.9	2.3	2.3
87.5°	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)