

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: P1312322

Luminaire Tested: LDSQA3D05R709050DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1312322  
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: LDSQA3D05R709050DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

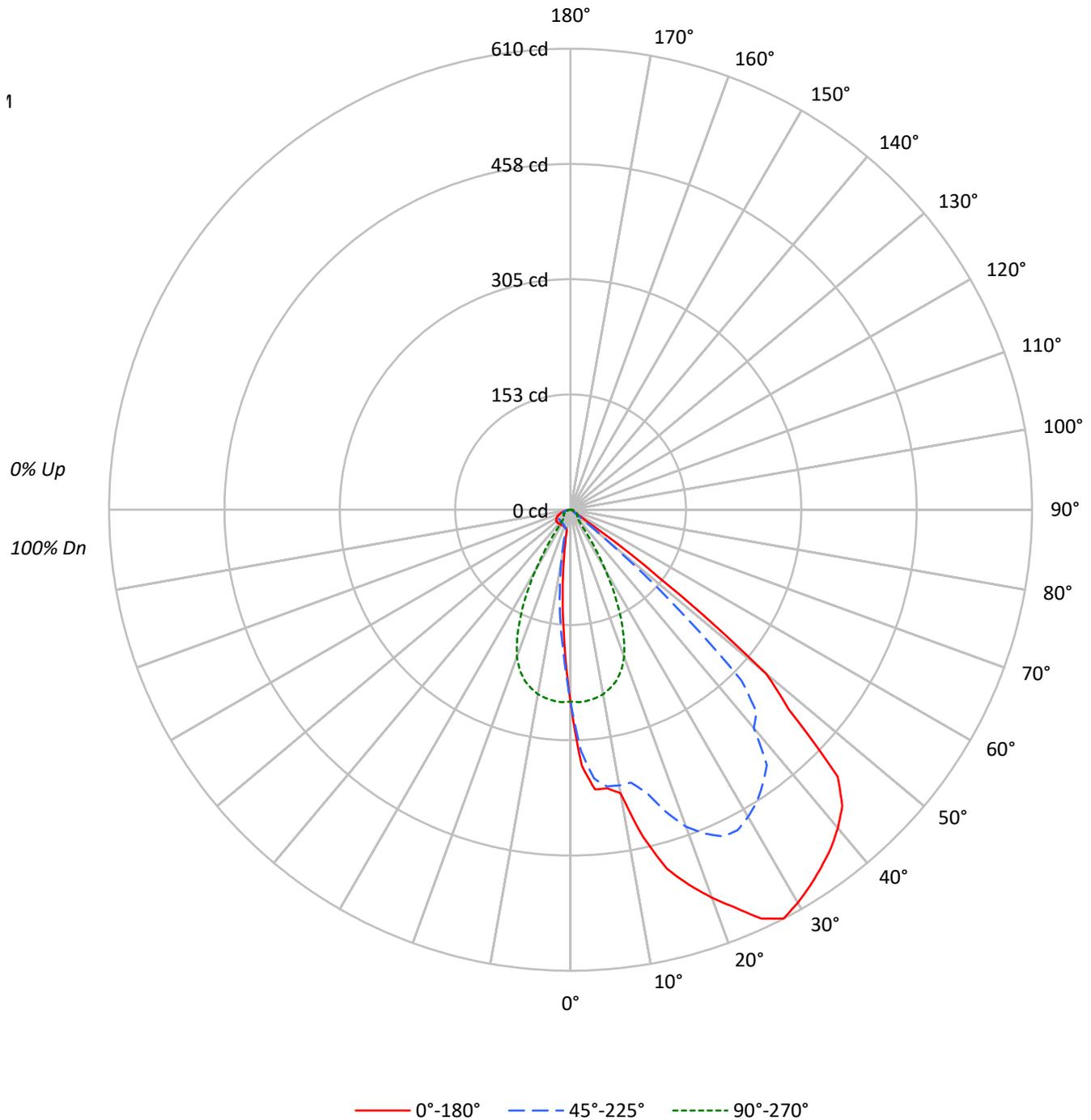
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 482.0 lumens  
Efficiency: N/A  
Efficacy: 66.9 lumens/watt  
Spacing Criteria (0/90/45): 1.7 / 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 (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

TEST NUMBER: P1312322  
CATALOG NUMBER: LDSQA3D05R709050DE010 3LSQCA30R 1MW

### 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°	43710	43710	43710	43710	43710
5°	64208	61736	43877	26191	20521
10°	66577	64758	43335	12521	5072
15°	87669	69037	41740	4493	4386
20°	100142	81796	37993	4307	4417
25°	113389	90624	29834	4162	4371
30°	119419	93328	18494	4136	4673
35°	121417	93139	6097	4247	4941
40°	123584	84712	2945	4541	5418
45°	121609	77793	3069	4798	5870
50°	90427	14361	3081	5278	6457
55°	7236	1982	3273	5585	6906
60°	1516	2067	3203	5649	7164
65°	1549	1997	3138	5583	7335
70°	1360	1913	3021	5237	7150
75°	1065	1797	2529	5124	6920
80°	1091	1587	2678	4860	6546
85°	988	2174	3162	4347	5335

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 45°  
 Luminance: 123095 cd/sqm



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CATALOG NUMBER: LDSQA3D05R709050DE010 3LSQCA30R 1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	23.1	4.8
10°-20°	65.0	13.5
20°-30°	109.0	22.6
30°-40°	131.1	27.2
40°-50°	104.0	21.6
50°-60°	33.3	6.9
60°-70°	9.3	1.9
70°-80°	5.5	1.1
80°-90°	1.7	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°	197.1	40.9
0°-40°	328.2	68.1
0°-60°	465.4	96.6
0°-90°	482.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	482.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	254	254	254	254	254	
5°	371	357	254	152	119	35
15°	492	387	234	25	25	138
25°	597	477	157	22	23	273
35°	578	443	29	20	24	362
45°	499	319	13	20	24	359
55°	24	7	11	19	23	75
65°	4	5	8	14	18	4
75°	2	3	4	8	10	2
85°	0	1	2	2	3	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°	253.8	253.8	253.8	253.8	253.8	253.8	253.8	253.8	253.8	253.8	253.8
2.5°	338.5	340.7	340.7	338.0	339.1	334.7	331.4	326.5	325.4	319.4	311.7
5°	371.4	370.3	370.3	368.1	369.2	367.5	365.9	364.8	361.5	357.1	352.8
7.5°	371.9	373.0	373.5	373.0	375.2	373.5	373.5	373.5	371.4	369.2	364.8
10°	380.7	379.0	377.4	373.5	371.4	369.7	369.7	370.3	371.4	370.3	367.5
12.5°	443.6	437.5	434.8	425.5	418.4	406.4	392.7	382.3	373.0	369.7	367.5
15°	491.7	490.6	485.1	476.4	467.6	453.4	437.5	421.7	404.7	387.2	374.6
17.5°	520.1	517.9	512.5	503.2	492.8	479.6	467.1	455.0	438.6	418.9	398.7
20°	546.4	541.5	534.3	523.4	513.0	500.4	486.8	475.3	461.6	446.3	422.8
22.5°	569.9	565.5	554.0	539.3	528.9	516.8	504.8	493.9	481.3	463.8	442.5
25°	596.7	586.8	568.3	549.1	536.5	526.7	517.9	509.2	496.1	476.9	451.8
27.5°	609.8	596.1	575.9	556.8	544.7	534.3	525.0	516.3	501.5	478.0	449.0
30°	600.5	592.9	578.6	563.9	554.0	544.2	533.2	520.1	496.6	469.3	442.5
32.5°	589.6	585.8	579.2	570.4	564.4	554.6	539.3	517.9	485.1	458.3	429.3
35°	577.5	575.9	573.7	569.9	566.1	556.8	537.6	506.4	473.6	443.0	415.1
37.5°	565.0	563.3	565.0	564.4	561.1	549.1	520.1	491.1	457.2	426.1	371.9
40°	549.7	548.6	551.3	554.0	550.2	534.3	503.2	468.2	438.1	376.8	358.2
42.5°	531.6	531.1	536.0	538.2	532.7	509.2	472.5	446.8	383.4	363.7	319.9
45°	499.3	500.4	502.6	505.4	502.1	476.4	443.0	396.0	368.1	319.4	182.1
47.5°	391.0	392.1	403.1	426.1	441.9	433.2	404.7	369.7	329.2	182.7	57.4
50°	337.5	336.4	336.9	342.4	355.0	367.0	358.2	339.1	196.3	53.6	7.1
52.5°	148.2	164.6	182.1	231.3	263.1	296.4	303.0	212.2	64.0	7.1	7.1
55°	24.1	25.2	31.7	46.5	83.7	126.3	153.1	71.1	6.6	6.6	6.6
57.5°	4.9	4.9	4.9	5.5	8.2	17.5	20.2	6.0	6.0	6.0	6.6
60°	4.4	4.4	4.4	4.4	4.9	4.9	4.9	5.5	5.5	6.0	6.0
62.5°	4.4	4.4	4.4	4.4	4.4	4.4	4.9	4.9	5.5	5.5	6.0
65°	3.8	3.8	3.8	3.8	4.4	4.4	4.4	4.4	4.9	4.9	5.5
67.5°	3.3	3.3	3.3	3.3	3.8	3.8	3.8	4.4	4.4	4.4	4.9
70°	2.7	2.7	2.7	2.7	3.3	3.3	3.3	3.3	3.8	3.8	3.8
72.5°	2.2	2.2	2.2	2.2	2.7	2.7	2.7	2.7	3.3	3.3	3.3
75°	1.6	1.6	2.2	2.2	2.2	2.2	2.2	2.2	2.7	2.7	2.7
77.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.2	2.2	2.2	2.2
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.6	1.6	1.6	1.6	1.6
82.5°	0.5	0.5	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.1	1.1
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



TEST NUMBER: P1312322

CATALOG NUMBER: LDSQA3D05R709050DE010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (continued):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	253.8	253.8	253.8	253.8	253.8	253.8	253.8	253.8
2.5°	306.8	299.2	288.8	254.9	223.7	195.3	181.0	179.4
5°	345.7	338.5	321.0	253.8	194.2	151.5	125.8	118.7
7.5°	360.4	354.4	339.1	251.6	166.3	108.8	79.9	68.9
10°	364.2	360.4	347.3	247.8	137.3	71.6	37.7	29.0
12.5°	365.9	363.2	350.6	241.7	108.3	37.2	25.7	25.7
15°	368.6	365.9	353.9	234.1	79.9	25.2	24.6	24.6
17.5°	380.7	371.9	358.2	222.6	52.5	24.1	24.1	24.1
20°	400.3	381.2	360.4	207.3	32.8	23.5	23.5	24.1
22.5°	416.8	391.0	359.9	184.3	24.1	22.4	23.0	23.5
25°	423.9	395.4	355.0	157.0	20.8	21.9	23.0	23.0
27.5°	422.8	397.1	350.6	125.8	19.7	21.3	22.4	23.5
30°	416.8	392.7	340.7	93.0	18.6	20.8	22.4	23.5
32.5°	406.4	375.7	321.0	60.2	18.0	20.8	22.4	23.5
35°	372.5	348.4	292.6	29.0	17.5	20.2	23.0	23.5
37.5°	352.8	319.4	223.1	14.2	17.0	20.2	23.0	23.5
40°	321.0	238.5	100.6	13.1	17.0	20.2	23.0	24.1
42.5°	201.8	97.9	16.4	12.6	16.4	20.2	23.0	24.1
45°	73.8	13.1	8.8	12.6	16.4	19.7	23.0	24.1
47.5°	7.7	7.7	8.2	12.0	15.9	19.7	23.0	24.1
50°	7.1	7.7	8.2	11.5	15.3	19.7	22.4	24.1
52.5°	7.1	7.7	8.2	11.5	14.8	19.1	22.4	24.1
55°	7.1	7.7	7.7	10.9	14.2	18.6	21.9	23.0
57.5°	6.6	7.1	7.7	10.4	13.7	17.5	21.3	22.4
60°	6.6	7.1	7.7	9.3	13.1	16.4	20.2	20.8
62.5°	6.0	6.6	7.1	8.8	12.0	15.3	18.6	19.7
65°	6.0	6.0	6.6	7.7	10.9	13.7	17.0	18.0
67.5°	4.9	5.5	5.5	6.6	9.3	12.0	15.3	16.4
70°	4.4	4.4	4.9	6.0	8.2	10.4	13.1	14.2
72.5°	3.8	3.8	3.8	4.9	7.1	9.3	11.5	12.6
75°	3.3	3.3	3.3	3.8	6.0	7.7	9.8	10.4
77.5°	2.7	2.7	2.7	3.3	4.9	6.6	7.7	8.8
80°	2.2	2.2	2.2	2.7	3.8	4.9	6.0	6.6
82.5°	1.6	1.6	1.6	2.2	2.7	3.3	4.4	4.4
85°	1.1	1.1	1.1	1.6	1.6	2.2	2.7	2.7
87.5°	0.5	0.5	0.5	1.1	1.1	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)