

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: P1315530

Luminaire Tested: LDSQA3D09R709735DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

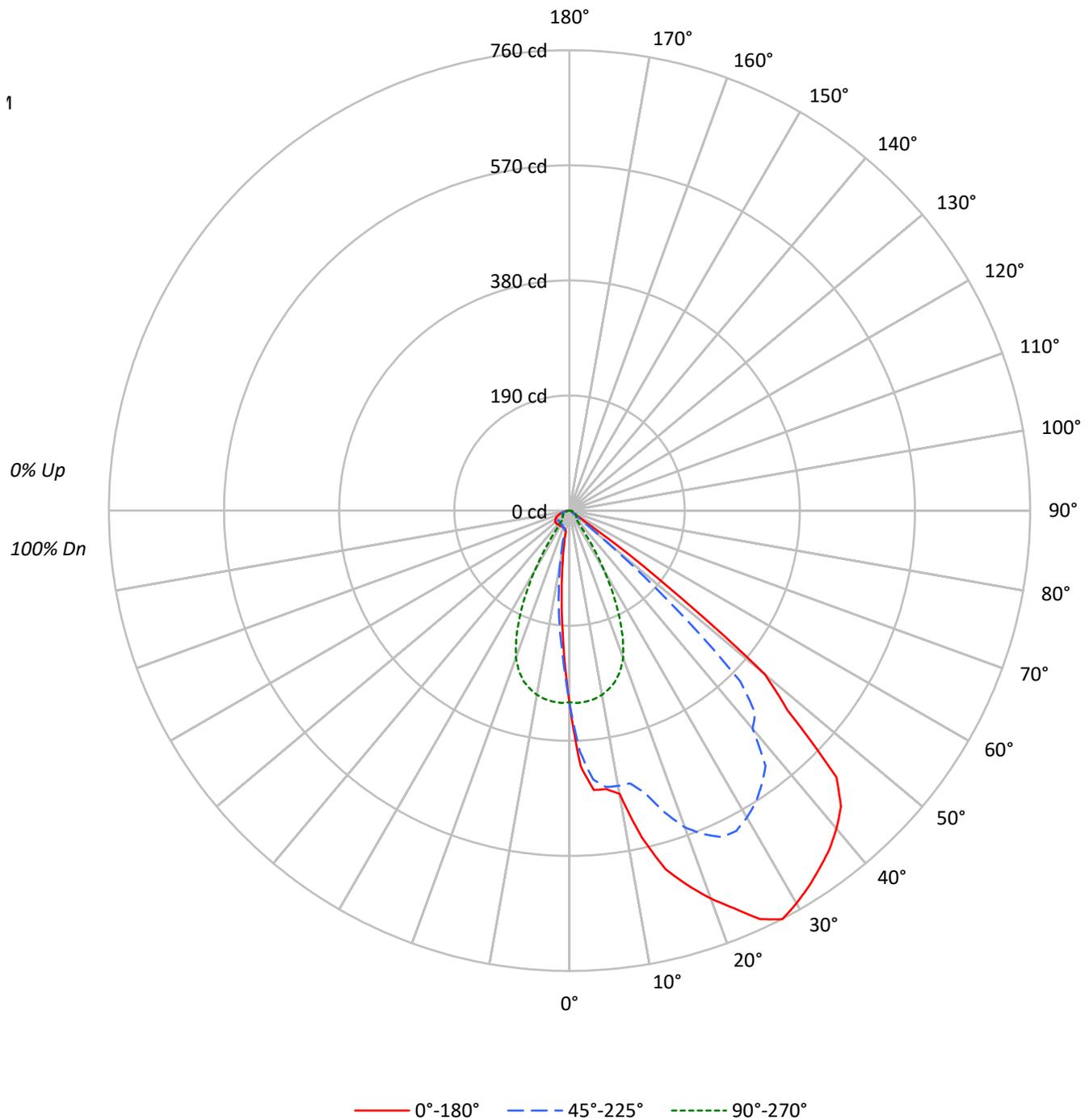
Test Method: LM-79-2019  
Report Number: P1315530  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R709735DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 601.0 lumens  
Efficiency: N/A  
Efficacy: 54.1 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): 11.1  
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: P1315530  
CATALOG NUMBER: LDSQA3D09R709735DE010 3LSQCA30R 1MW

### Luminous Intensity Polar Plot





TEST NUMBER: P1315530

CATALOG NUMBER: LDSQA3D09R709735DE010 3LSQCA30R 1MW

**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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	92	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	82	82	80
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	73	73	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	65	65	64
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	62	59	59	59	57
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	53	53	51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	48	48	46
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	43	43	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	36	36	35

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

	0°	45°	90°	135°	180°
0°	54491	54491	54491	54491	54491
5°	80044	76984	54699	32657	25586
10°	82998	80742	54020	15617	6313
15°	109315	86082	52045	5599	5474
20°	124866	101993	47377	5370	5498
25°	141380	113009	37188	5188	5435
30°	148911	116356	23049	5151	5827
35°	151397	116139	7590	5298	6160
40°	154092	105643	3687	5665	6745
45°	151640	97010	3824	5992	7307
50°	112745	17898	3831	6591	8038
55°	9008	2462	4084	6966	8587
60°	1894	2583	3996	7061	8921
65°	1956	2486	3871	6928	9169
70°	1712	2417	3777	6546	8913
75°	1331	2262	3194	6321	8650
80°	1389	1984	3372	6050	8133
85°	1383	2766	3952	5335	6719

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 45°  
 Luminance: 153467 cd/sqm



TEST NUMBER: P1315530

CATALOG NUMBER: LDSQA3D09R709735DE010 3LSQCA30R 1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.8	4.8
10°-20°	81.0	13.5
20°-30°	136.0	22.6
30°-40°	163.5	27.2
40°-50°	129.6	21.6
50°-60°	41.5	6.9
60°-70°	11.6	1.9
70°-80°	6.9	1.1
80°-90°	2.2	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°	245.7	40.9
0°-40°	409.2	68.1
0°-60°	580.3	96.6
0°-90°	601.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	601.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	316	316	316	316	316	
5°	463	445	316	189	148	44
15°	613	483	292	31	31	172
25°	744	595	196	27	29	340
35°	720	552	36	25	29	451
45°	623	398	16	25	30	447
55°	30	8	14	23	29	94
65°	5	6	10	17	22	5
75°	2	3	5	10	13	2
85°	1	1	2	3	3	1
90°	0	0	0	0	0	



TEST NUMBER: P1315530

CATALOG NUMBER: LDSQA3D09R709735DE010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	316.4	316.4	316.4	316.4	316.4	316.4	316.4	316.4	316.4	316.4	316.4
2.5°	422.1	424.9	424.9	421.4	422.8	417.4	413.3	407.1	405.8	398.3	388.7
5°	463.0	461.7	461.7	459.0	460.3	458.3	456.2	454.9	450.8	445.3	439.9
7.5°	463.7	465.1	465.8	465.1	467.8	465.8	465.8	465.8	463.0	460.3	454.9
10°	474.6	472.6	470.5	465.8	463.0	461.0	461.0	461.7	463.0	461.7	458.3
12.5°	553.1	545.6	542.1	530.6	521.7	506.7	489.6	476.7	465.1	461.0	458.3
15°	613.1	611.7	604.9	594.0	583.1	565.3	545.6	525.8	504.6	482.8	467.1
17.5°	648.5	645.8	639.0	627.4	614.4	598.1	582.4	567.4	546.9	522.4	497.1
20°	681.3	675.1	666.3	652.6	639.7	624.0	606.9	592.6	575.6	556.5	527.1
22.5°	710.6	705.1	690.8	672.4	659.4	644.4	629.4	615.8	600.1	578.3	551.7
25°	744.0	731.7	708.5	684.7	669.0	656.7	645.8	634.9	618.5	594.7	563.3
27.5°	760.4	743.3	718.1	694.2	679.2	666.3	654.7	643.8	625.3	596.0	559.9
30°	748.8	739.2	721.5	703.1	690.8	678.5	664.9	648.5	619.2	585.1	551.7
32.5°	735.1	730.4	722.2	711.3	703.8	691.5	672.4	645.8	604.9	571.5	535.3
35°	720.1	718.1	715.4	710.6	705.8	694.2	670.4	631.5	590.6	552.4	517.6
37.5°	704.5	702.4	704.5	703.8	699.7	684.7	648.5	612.4	570.1	531.2	463.7
40°	685.4	684.0	687.4	690.8	686.0	666.3	627.4	583.7	546.2	469.9	446.7
42.5°	662.9	662.2	668.3	671.0	664.2	634.9	589.2	557.2	478.0	453.5	398.9
45°	622.6	624.0	626.7	630.1	626.0	594.0	552.4	493.7	459.0	398.3	227.1
47.5°	487.6	489.0	502.6	531.2	551.0	540.1	504.6	461.0	410.5	227.8	71.6
50°	420.8	419.4	420.1	426.9	442.6	457.6	446.7	422.8	244.8	66.8	8.9
52.5°	184.8	205.3	227.1	288.5	328.0	369.6	377.8	264.6	79.8	8.9	8.9
55°	30.0	31.4	39.6	58.0	104.3	157.5	190.9	88.7	8.2	8.2	8.2
57.5°	6.1	6.1	6.1	6.8	10.2	21.8	25.2	7.5	7.5	7.5	8.2
60°	5.5	5.5	5.5	5.5	6.1	6.1	6.1	6.8	6.8	7.5	7.5
62.5°	5.5	5.5	5.5	5.5	5.5	5.5	6.1	6.1	6.8	6.8	7.5
65°	4.8	4.8	4.8	4.8	5.5	5.5	5.5	5.5	6.1	6.1	6.8
67.5°	4.1	4.1	4.1	4.1	4.8	4.8	4.8	5.5	5.5	5.5	6.1
70°	3.4	3.4	3.4	3.4	4.1	4.1	4.1	4.1	4.8	4.8	4.8
72.5°	2.7	2.7	2.7	2.7	3.4	3.4	3.4	3.4	4.1	4.1	4.1
75°	2.0	2.0	2.7	2.7	2.7	2.7	2.7	2.7	3.4	3.4	3.4
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.7	2.7	2.7	2.7
80°	1.4	1.4	1.4	1.4	1.4	1.4	2.0	2.0	2.0	2.0	2.0
82.5°	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0



TEST NUMBER: P1315530

CATALOG NUMBER: LDSQA3D09R709735DE010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (continued):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	316.4	316.4	316.4	316.4	316.4	316.4	316.4	316.4
2.5°	382.6	373.0	360.1	317.8	278.9	243.5	225.7	223.7
5°	431.0	422.1	400.3	316.4	242.1	188.9	156.8	148.0
7.5°	449.4	441.9	422.8	313.7	207.3	135.7	99.6	85.9
10°	454.2	449.4	433.0	308.9	171.2	89.3	47.1	36.1
12.5°	456.2	452.8	437.1	301.4	135.0	46.4	32.1	32.1
15°	459.6	456.2	441.2	291.9	99.6	31.4	30.7	30.7
17.5°	474.6	463.7	446.7	277.6	65.5	30.0	30.0	30.0
20°	499.2	475.3	449.4	258.5	40.9	29.3	29.3	30.0
22.5°	519.6	487.6	448.7	229.8	30.0	28.0	28.6	29.3
25°	528.5	493.0	442.6	195.7	25.9	27.3	28.6	28.6
27.5°	527.1	495.1	437.1	156.8	24.6	26.6	28.0	29.3
30°	519.6	489.6	424.9	115.9	23.2	25.9	28.0	29.3
32.5°	506.7	468.5	400.3	75.0	22.5	25.9	28.0	29.3
35°	464.4	434.4	364.8	36.1	21.8	25.2	28.6	29.3
37.5°	439.9	398.3	278.2	17.7	21.1	25.2	28.6	29.3
40°	400.3	297.3	125.5	16.4	21.1	25.2	28.6	30.0
42.5°	251.6	122.1	20.5	15.7	20.5	25.2	28.6	30.0
45°	92.1	16.4	10.9	15.7	20.5	24.6	28.6	30.0
47.5°	9.5	9.5	10.2	15.0	19.8	24.6	28.6	30.0
50°	8.9	9.5	10.2	14.3	19.1	24.6	28.0	30.0
52.5°	8.9	9.5	10.2	14.3	18.4	23.9	28.0	30.0
55°	8.9	9.5	9.5	13.6	17.7	23.2	27.3	28.6
57.5°	8.2	8.9	9.5	13.0	17.0	21.8	26.6	28.0
60°	8.2	8.9	9.5	11.6	16.4	20.5	25.2	25.9
62.5°	7.5	8.2	8.9	10.9	15.0	19.1	23.2	24.6
65°	7.5	7.5	8.2	9.5	13.6	17.0	21.1	22.5
67.5°	6.1	6.8	6.8	8.2	11.6	15.0	19.1	20.5
70°	5.5	5.5	6.1	7.5	10.2	13.0	16.4	17.7
72.5°	4.8	4.8	4.8	6.1	8.9	11.6	14.3	15.7
75°	4.1	4.1	4.1	4.8	7.5	9.5	12.3	13.0
77.5°	3.4	3.4	3.4	4.1	6.1	8.2	9.5	10.9
80°	2.7	2.7	2.7	3.4	4.8	6.1	7.5	8.2
82.5°	2.0	2.0	2.0	2.7	3.4	4.1	5.5	5.5
85°	1.4	1.4	1.4	2.0	2.0	2.7	3.4	3.4
87.5°	0.7	0.7	0.7	1.4	1.4	1.4	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)