

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: P1308205

Luminaire Tested: LDSQA3D13R709027DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308205  
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: LDSQA3D13R709027DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

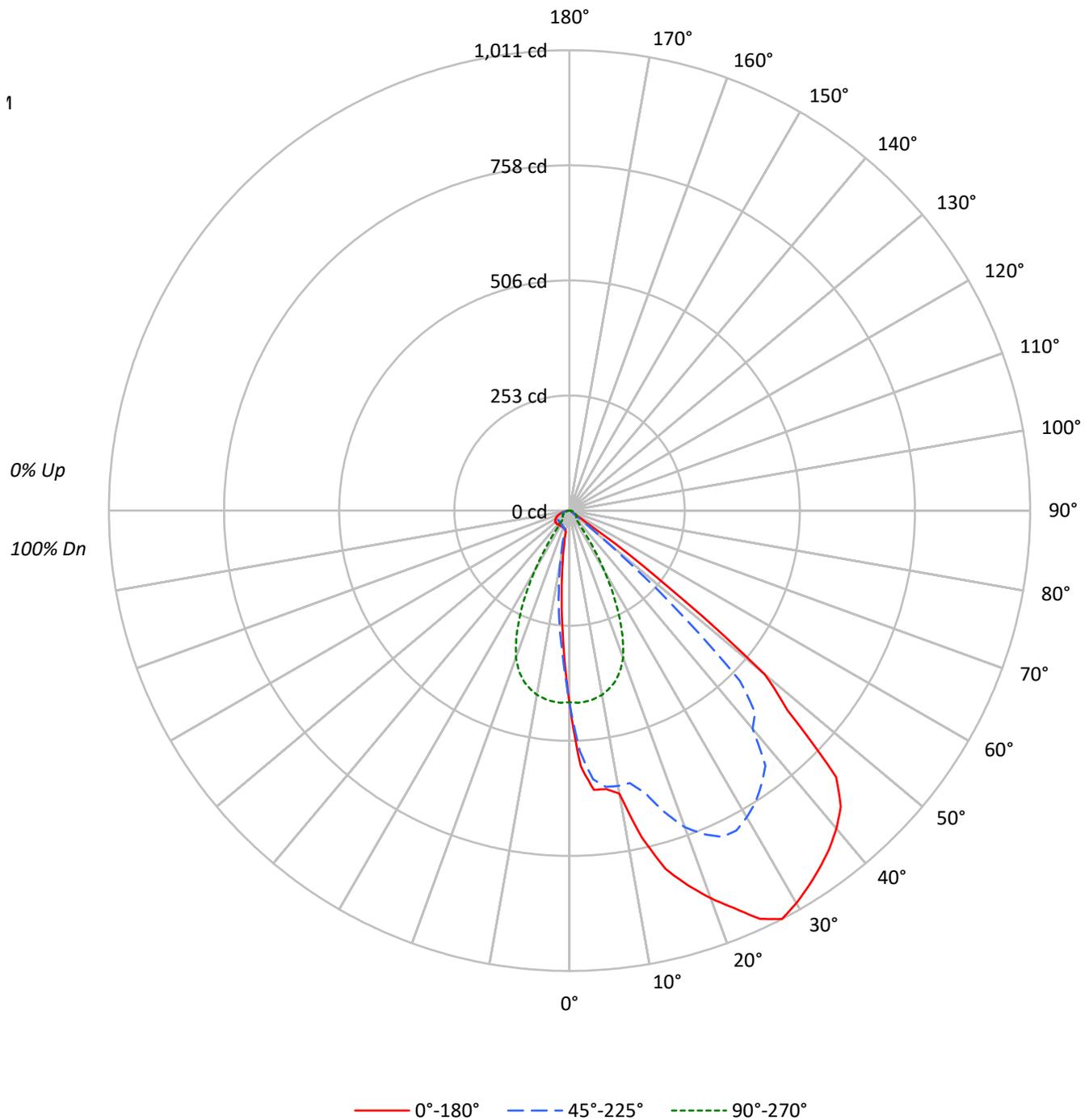
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 799.0 lumens  
Efficiency: N/A  
Efficacy: 54.7 lumens/watt  
Spacing Criteria (0/90/45): 1.69 / 0.89 / 1.39  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.6  
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: P1308205  
CATALOG NUMBER: LDSQA3D13R709027DE010 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	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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	92	92	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	82	82	82	80
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	73	73	73	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	65	65	65	64
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	62	59	59	59	59	57
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	53	53	53	51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	48	48	48	46
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	43	43	43	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	40	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	36	36	36	35

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

	0°	45°	90°	135°	180°
0°	72454	72454	72454	72454	72454
5°	106425	102345	72731	43410	34006
10°	110349	107341	71823	20776	8412
15°	145313	114449	69180	7435	7275
20°	165993	135587	62973	7148	7313
25°	187955	150235	49445	6898	7240
30°	197971	154698	30645	6861	7756
35°	201289	154404	10113	7043	8200
40°	204857	140445	4901	7531	8970
45°	201594	128965	5090	7940	9718
50°	149881	23792	5091	8735	10690
55°	11980	3273	5435	9248	11440
60°	2514	3444	5304	9369	11883
65°	2567	3342	5175	9251	12185
70°	2266	3172	5035	8661	11884
75°	1797	2994	4192	8451	11445
80°	1785	2678	4463	8133	10811
85°	1778	3557	5335	7114	8892

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 45°  
 Luminance: 204030 cd/sqm



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CATALOG NUMBER: LDSQA3D13R709027DE010 3LSQCA30R 1MW

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.3	4.8
10°-20°	107.7	13.5
20°-30°	180.8	22.6
30°-40°	217.4	27.2
40°-50°	172.3	21.6
50°-60°	55.1	6.9
60°-70°	15.4	1.9
70°-80°	9.2	1.1
80°-90°	2.9	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°	326.7	40.9
0°-40°	544.1	68.1
0°-60°	771.5	96.6
0°-90°	799.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	799.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	421	421	421	421	421	
5°	616	592	421	251	197	58
15°	815	642	388	42	41	229
25°	989	791	260	36	38	452
35°	957	734	48	34	39	600
45°	828	530	21	33	40	595
55°	40	11	18	31	38	125
65°	6	8	13	23	30	6
75°	3	4	6	13	17	3
85°	1	2	3	4	4	1
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°	420.7	420.7	420.7	420.7	420.7	420.7	420.7	420.7	420.7	420.7	420.7
2.5°	561.2	564.8	564.8	560.3	562.1	554.9	549.4	541.3	539.4	529.5	516.8
5°	615.6	613.8	613.8	610.2	612.0	609.2	606.5	604.7	599.3	592.0	584.8
7.5°	616.5	618.3	619.2	618.3	621.9	619.2	619.2	619.2	615.6	612.0	604.7
10°	631.0	628.3	625.6	619.2	615.6	612.9	612.9	613.8	615.6	613.8	609.2
12.5°	735.3	725.3	720.8	705.3	693.6	673.6	651.0	633.7	618.3	612.9	609.2
15°	815.0	813.2	804.2	789.7	775.2	751.6	725.3	699.0	670.9	641.9	621.0
17.5°	862.2	858.6	849.5	834.1	816.9	795.1	774.3	754.3	727.1	694.5	660.9
20°	905.7	897.6	885.8	867.6	850.4	829.6	806.9	787.9	765.2	739.8	700.8
22.5°	944.7	937.4	918.4	893.9	876.7	856.8	836.8	818.7	797.8	768.8	733.5
25°	989.1	972.8	942.0	910.2	889.4	873.1	858.6	844.1	822.3	790.6	748.9
27.5°	1010.9	988.2	954.7	922.9	903.0	885.8	870.4	855.8	831.4	792.4	744.3
30°	995.5	982.8	959.2	934.7	918.4	902.1	884.0	862.2	823.2	777.9	733.5
32.5°	977.3	971.0	960.1	945.6	935.6	919.3	893.9	858.6	804.2	759.7	711.7
35°	957.4	954.7	951.0	944.7	938.3	922.9	891.2	839.5	785.1	734.4	688.1
37.5°	936.5	933.8	936.5	935.6	930.2	910.2	862.2	814.1	757.9	706.3	616.5
40°	911.2	909.3	913.9	918.4	912.1	885.8	834.1	776.1	726.2	624.7	593.8
42.5°	881.2	880.3	888.5	892.1	883.0	844.1	783.3	740.7	635.5	602.9	530.4
45°	827.7	829.6	833.2	837.7	832.3	789.7	734.4	656.4	610.2	529.5	301.9
47.5°	648.2	650.0	668.2	706.3	732.5	718.0	670.9	612.9	545.8	302.8	95.2
50°	559.4	557.6	558.5	567.5	588.4	608.3	593.8	562.1	325.5	88.8	11.8
52.5°	245.7	272.9	301.9	383.5	436.1	491.4	502.3	351.8	106.1	11.8	11.8
55°	39.9	41.7	52.6	77.1	138.7	209.4	253.9	117.9	10.9	10.9	10.9
57.5°	8.2	8.2	8.2	9.1	13.6	29.0	33.5	10.0	10.0	10.0	10.9
60°	7.3	7.3	7.3	7.3	8.2	8.2	8.2	9.1	9.1	10.0	10.0
62.5°	7.3	7.3	7.3	7.3	7.3	7.3	8.2	8.2	9.1	9.1	10.0
65°	6.3	6.3	6.3	6.3	7.3	7.3	7.3	7.3	8.2	8.2	9.1
67.5°	5.4	5.4	5.4	5.4	6.3	6.3	6.3	7.3	7.3	7.3	8.2
70°	4.5	4.5	4.5	4.5	5.4	5.4	5.4	5.4	6.3	6.3	6.3
72.5°	3.6	3.6	3.6	3.6	4.5	4.5	4.5	4.5	5.4	5.4	5.4
75°	2.7	2.7	3.6	3.6	3.6	3.6	3.6	3.6	4.5	4.5	4.5
77.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.6	3.6	3.6	3.6
80°	1.8	1.8	1.8	1.8	1.8	1.8	2.7	2.7	2.7	2.7	2.7
82.5°	0.9	0.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8	1.8
87.5°	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0



TEST NUMBER: P1308205

CATALOG NUMBER: LDSQA3D13R709027DE010 3LSQCA30R 1MW

**CANDELA DISTRIBUTION (continued):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	420.7	420.7	420.7	420.7	420.7	420.7	420.7	420.7
2.5°	508.6	495.9	478.7	422.5	370.8	323.7	300.1	297.4
5°	573.0	561.2	532.2	420.7	321.8	251.1	208.5	196.7
7.5°	597.5	587.5	562.1	417.0	275.6	180.4	132.4	114.2
10°	603.8	597.5	575.7	410.7	227.6	118.8	62.6	48.1
12.5°	606.5	602.0	581.1	400.7	179.5	61.7	42.6	42.6
15°	611.1	606.5	586.6	388.0	132.4	41.7	40.8	40.8
17.5°	631.0	616.5	593.8	369.0	87.0	39.9	39.9	39.9
20°	663.6	631.9	597.5	343.6	54.4	39.0	39.0	39.9
22.5°	690.8	648.2	596.6	305.5	39.9	37.2	38.1	39.0
25°	702.6	655.5	588.4	260.2	34.5	36.3	38.1	38.1
27.5°	700.8	658.2	581.1	208.5	32.6	35.4	37.2	39.0
30°	690.8	651.0	564.8	154.1	30.8	34.5	37.2	39.0
32.5°	673.6	622.8	532.2	99.7	29.9	34.5	37.2	39.0
35°	617.4	577.5	485.0	48.1	29.0	33.5	38.1	39.0
37.5°	584.8	529.5	369.9	23.6	28.1	33.5	38.1	39.0
40°	532.2	395.3	166.8	21.8	28.1	33.5	38.1	39.9
42.5°	334.5	162.3	27.2	20.9	27.2	33.5	38.1	39.9
45°	122.4	21.8	14.5	20.9	27.2	32.6	38.1	39.9
47.5°	12.7	12.7	13.6	19.9	26.3	32.6	38.1	39.9
50°	11.8	12.7	13.6	19.0	25.4	32.6	37.2	39.9
52.5°	11.8	12.7	13.6	19.0	24.5	31.7	37.2	39.9
55°	11.8	12.7	12.7	18.1	23.6	30.8	36.3	38.1
57.5°	10.9	11.8	12.7	17.2	22.7	29.0	35.4	37.2
60°	10.9	11.8	12.7	15.4	21.8	27.2	33.5	34.5
62.5°	10.0	10.9	11.8	14.5	19.9	25.4	30.8	32.6
65°	10.0	10.0	10.9	12.7	18.1	22.7	28.1	29.9
67.5°	8.2	9.1	9.1	10.9	15.4	19.9	25.4	27.2
70°	7.3	7.3	8.2	10.0	13.6	17.2	21.8	23.6
72.5°	6.3	6.3	6.3	8.2	11.8	15.4	19.0	20.9
75°	5.4	5.4	5.4	6.3	10.0	12.7	16.3	17.2
77.5°	4.5	4.5	4.5	5.4	8.2	10.9	12.7	14.5
80°	3.6	3.6	3.6	4.5	6.3	8.2	10.0	10.9
82.5°	2.7	2.7	2.7	3.6	4.5	5.4	7.3	7.3
85°	1.8	1.8	1.8	2.7	2.7	3.6	4.5	4.5
87.5°	0.9	0.9	0.9	1.8	1.8	1.8	1.8	1.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)