

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: P1318431

Luminaire Tested: LDSQA3D13R709830DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1318431  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-57)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R709830DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 98CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

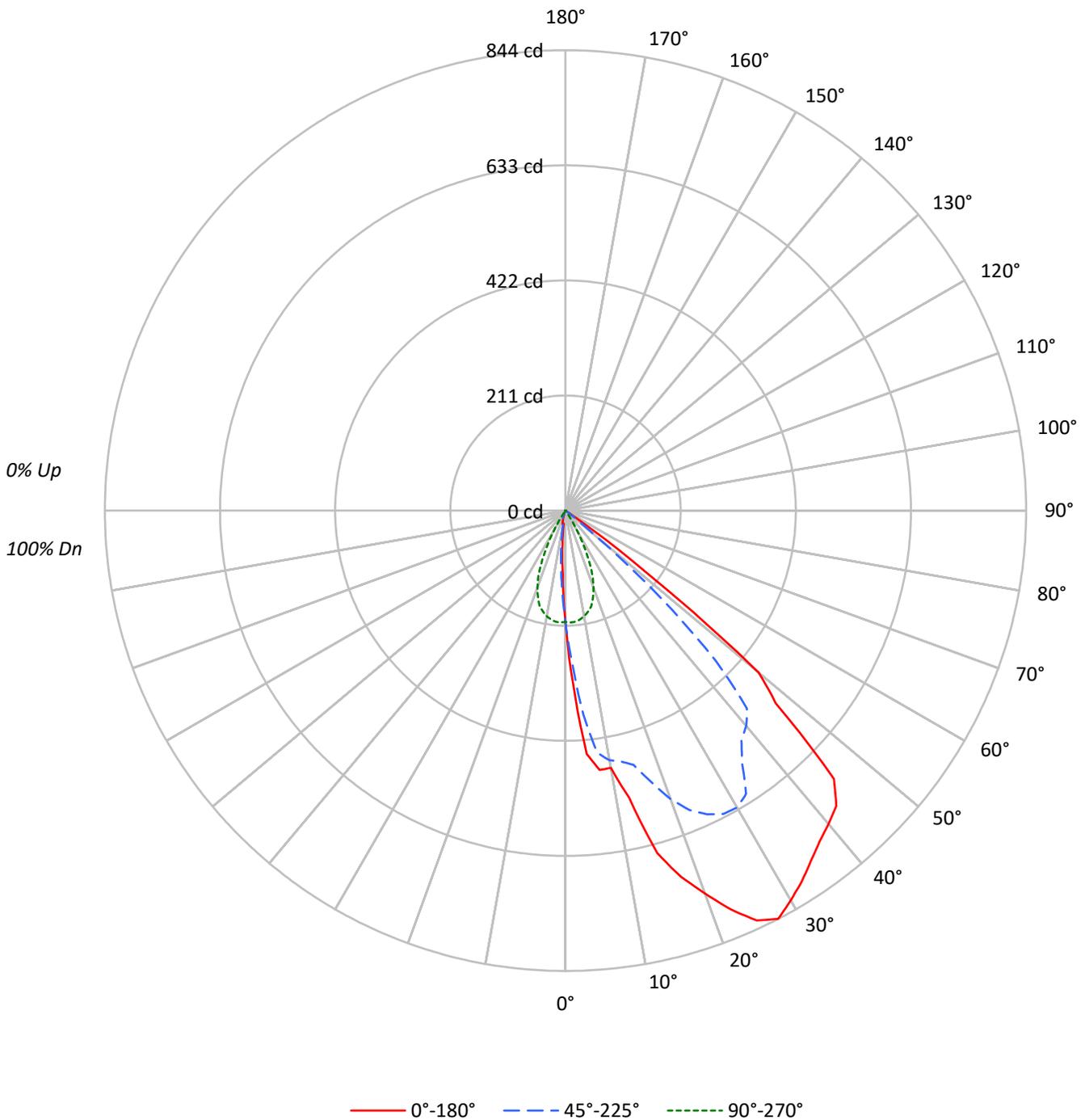
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 549.0 lumens  
Efficiency: N/A  
Efficacy: 37.9 lumens/watt  
Spacing Criteria (0/90/45): 2.08 / 0.83 / 1.48  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 14.5  
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				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	102	103	101	99	99	97	96	96	94	93	96	94	93	91
2	105	99	94	90	103	98	93	89	94	90	87	91	88	85	88	86	84	88	86	84	82
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	81	78	75	73
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	75	71	67	66
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	69	64	61	59
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	63	58	55	53
7	74	63	56	50	73	62	55	50	61	55	50	59	54	50	58	53	49	58	53	49	48
8	69	58	51	46	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	45	41	51	45	41	50	45	41	50	45	41	39
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	46	41	37	36

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

	0°	45°	90°	135°	180°
0°	35099	35099	35099	35099	35099
5°	77416	64951	35354	16078	10580
10°	83732	81284	34416	4477	4599
15°	115894	86064	32468	4564	3316
20°	136870	103092	27546	2694	990
25°	157532	116752	19440	437	0
30°	164084	124947	8929	0	0
35°	164832	118410	484	0	0
40°	168593	115828	0	0	0
45°	169444	94915	0	0	0
50°	123704	19720	0	0	0
55°	6966	0	0	0	0
60°	0	276	276	0	0
65°	0	0	326	0	0
70°	0	403	403	0	0
75°	0	532	532	0	0
80°	0	793	793	793	0
85°	0	1581	1581	1581	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°  
 Vertical Angle: 45°  
 Luminance: 172659 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.3	4.1
10°-20°	74.4	13.6
20°-30°	133.8	24.4
30°-40°	162.7	29.6
40°-50°	125.6	22.9
50°-60°	29.2	5.3
60°-70°	0.2	0.0
70°-80°	0.4	0.1
80°-90°	0.4	0.1
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°	230.5	42.0
0°-40°	393.2	71.6
0°-60°	548.0	99.8
0°-90°	549.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	549.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	204	204	204	204	204	
5°	448	376	204	93	61	42
15°	650	483	182	26	19	182
25°	829	614	102	2	0	377
35°	784	563	2	0	0	492
45°	696	390	0	0	0	492
55°	23	0	0	0	0	96
65°	0	0	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	1	1	0	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°	203.8	203.8	203.8	203.8	203.8	203.8	203.8	203.8	203.8	203.8	203.8
2.5°	317.6	317.6	319.2	318.4	311.4	308.3	298.3	292.8	291.3	278.9	274.3
5°	447.8	448.6	444.7	443.9	436.2	430.7	422.2	409.1	395.9	375.7	357.9
7.5°	479.6	478.8	478.0	478.0	476.5	473.4	469.5	465.6	460.2	447.8	433.8
10°	478.8	478.8	478.0	478.0	477.2	478.0	477.2	474.9	472.6	464.8	457.1
12.5°	539.2	534.6	528.4	519.1	503.6	492.0	478.8	474.9	473.4	471.0	466.4
15°	650.0	646.1	633.0	616.7	601.2	574.8	553.9	525.3	502.8	482.7	472.6
17.5°	703.5	705.8	691.1	681.0	666.3	645.3	620.6	591.1	559.4	521.4	491.2
20°	746.8	749.2	736.8	726.7	709.6	688.0	666.3	634.5	604.3	562.5	522.9
22.5°	791.0	792.5	780.9	766.2	746.8	724.4	696.5	663.9	631.4	594.2	552.4
25°	829.0	827.4	808.0	787.1	768.5	744.5	717.4	685.6	654.6	614.4	574.8
27.5°	843.7	842.9	821.2	801.1	779.4	746.8	722.8	694.9	662.4	626.8	586.5
30°	825.1	837.5	823.5	808.8	782.5	749.9	726.7	693.4	663.2	628.3	582.6
32.5°	805.7	821.2	816.6	809.6	778.6	753.0	722.8	691.8	656.2	615.9	546.2
35°	784.0	800.3	801.1	793.3	765.4	739.9	712.0	679.4	639.1	563.2	512.1
37.5°	764.7	780.1	784.8	768.5	746.8	712.7	687.2	653.1	580.3	529.1	502.8
40°	749.9	761.6	768.5	743.0	721.3	688.0	658.5	598.9	533.0	515.2	478.0
42.5°	734.4	745.3	748.4	720.5	687.2	655.4	612.8	537.7	518.3	492.0	392.0
45°	695.7	708.9	701.1	674.0	649.2	615.9	552.4	519.8	498.9	389.7	240.9
47.5°	522.2	536.9	557.8	565.6	574.1	550.1	515.2	503.6	409.8	236.3	75.1
50°	461.7	459.4	459.4	463.3	470.3	478.0	488.1	424.6	246.4	73.6	0.0
52.5°	188.3	197.6	243.3	284.3	331.6	378.8	393.6	260.3	96.1	1.5	0.0
55°	23.2	23.2	32.5	55.8	92.2	148.7	167.3	83.7	7.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.8	6.2	17.0	11.6	3.1	0.8	0.8	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
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°	203.8	203.8	203.8	203.8	203.8	203.8	203.8	203.8
2.5°	266.5	257.2	244.0	205.3	172.0	142.5	125.5	117.0
5°	340.9	318.4	288.2	204.5	139.5	93.0	69.7	61.2
7.5°	412.2	386.6	335.5	201.4	106.9	54.2	30.2	24.0
10°	443.1	424.6	378.8	196.8	77.5	25.6	25.6	26.3
12.5°	455.5	441.6	404.4	189.8	51.1	24.8	26.3	24.8
15°	464.1	450.9	416.8	182.1	29.4	25.6	20.9	18.6
17.5°	468.7	453.2	420.7	167.3	19.4	21.7	13.2	10.8
20°	483.4	458.6	423.8	150.3	18.6	14.7	7.0	5.4
22.5°	508.2	469.5	424.6	129.4	14.7	8.5	2.3	0.0
25°	530.7	484.2	426.9	102.3	4.6	2.3	0.0	0.0
27.5°	541.5	488.9	426.1	72.0	0.0	0.0	0.0	0.0
30°	528.4	477.2	419.1	44.9	0.0	0.0	0.0	0.0
32.5°	497.4	468.7	397.4	19.4	0.0	0.0	0.0	0.0
35°	487.3	450.1	347.9	2.3	0.0	0.0	0.0	0.0
37.5°	464.8	396.7	255.7	0.0	0.0	0.0	0.0	0.0
40°	399.8	286.6	121.6	0.0	0.0	0.0	0.0	0.0
42.5°	264.2	122.4	7.0	0.0	0.0	0.0	0.0	0.0
45°	93.0	7.7	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.0
67.5°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
70°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0
72.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0
75°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0
77.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.0
87.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)