

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: P1307232

Luminaire Tested: LDSQA3D13R709024DE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1307232  
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: LDSQA3D13R709024DE010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R70 optic, 2400K CCT AND, 90CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

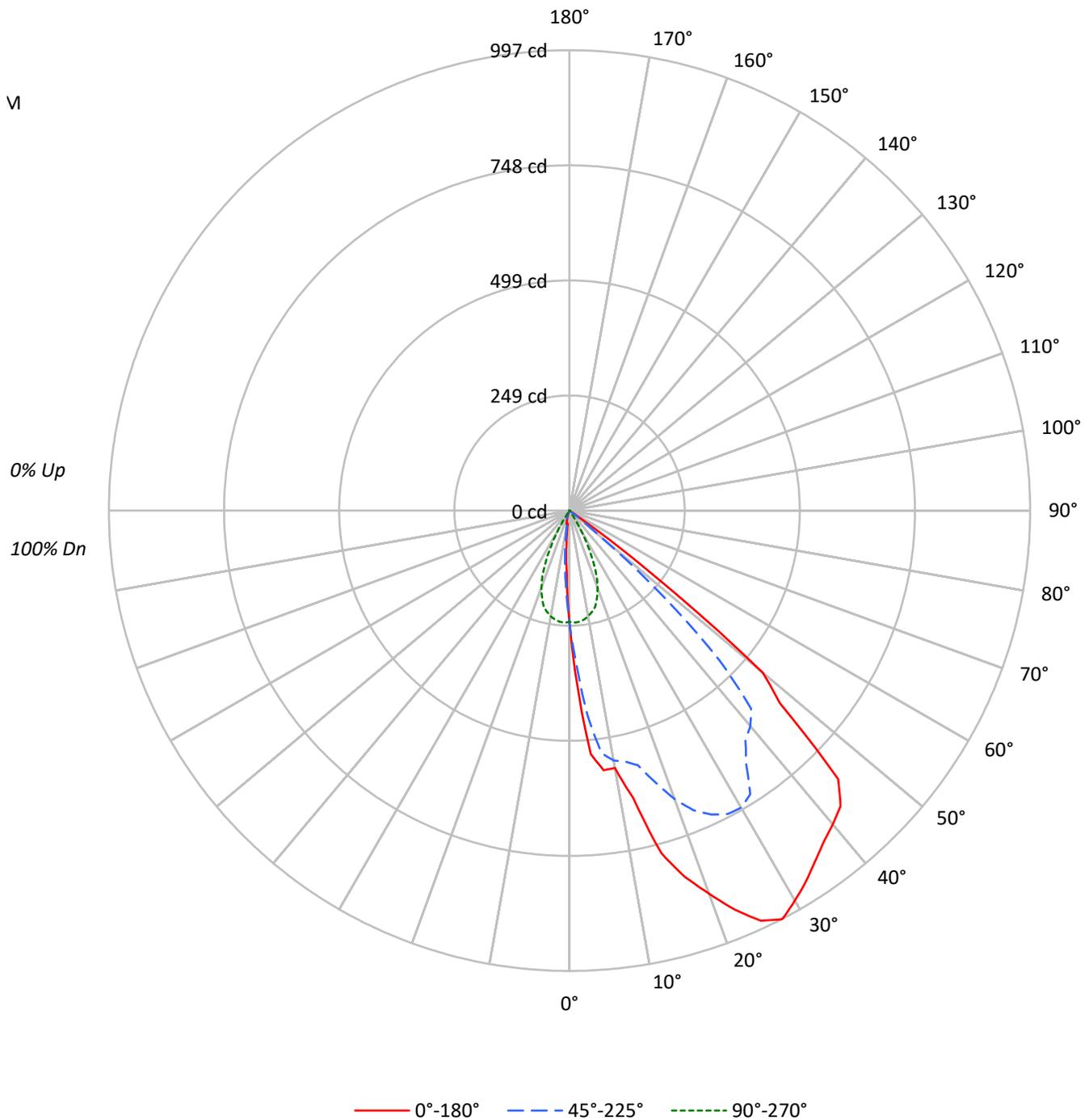
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 649.0 lumens  
Efficiency: N/A  
Efficacy: 44.5 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): 14.6  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	100				
1	112	109	106	103	110	107	104	102	103	101	99	99	97	96	96	94	93	91				
2	105	99	94	90	103	98	93	89	94	91	87	91	88	85	88	86	84	82				
3	98	90	84	79	96	89	83	79	86	81	77	84	80	76	81	78	75	73				
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66				
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59				
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53				
7	74	63	56	50	73	62	55	50	61	55	50	59	54	50	58	53	49	48				
8	69	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	43				
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	45	41	39				
10	61	49	42	38	60	49	42	38	48	42	37	47	41	37	46	41	37	36				

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

	0°	45°	90°	135°	180°
0°	41488	41488	41488	41488	41488
5°	91523	76794	41803	19000	12517
10°	98982	96096	40677	5281	5439
15°	137004	101737	38370	5385	3923
20°	161814	121860	32568	3189	1173
25°	186226	138016	22974	513	0
30°	193973	147697	10560	0	0
35°	194855	139981	568	0	0
40°	199304	136916	0	0	0
45°	200303	112208	0	0	0
50°	146237	23310	0	0	0
55°	8257	0	0	0	0
60°	0	310	310	0	0
65°	0	0	367	0	0
70°	0	453	453	0	0
75°	0	599	599	0	0
80°	0	893	893	893	0
85°	0	1778	1778	1778	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°  
 Vertical Angle: 45°  
 Luminance: 204103 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.3	4.1
10°-20°	88.0	13.6
20°-30°	158.2	24.4
30°-40°	192.3	29.6
40°-50°	148.5	22.9
50°-60°	34.5	5.3
60°-70°	0.2	0.0
70°-80°	0.5	0.1
80°-90°	0.5	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°	272.5	42.0
0°-40°	464.8	71.6
0°-60°	647.8	99.8
0°-90°	649.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	649.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	241	241	241	241	241	
5°	529	444	242	110	72	50
15°	768	571	215	30	22	215
25°	980	726	121	3	0	446
35°	927	666	3	0	0	582
45°	822	461	0	0	0	581
55°	28	0	0	0	0	113
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°	240.9	240.9	240.9	240.9	240.9	240.9	240.9	240.9	240.9	240.9	240.9
2.5°	375.5	375.5	377.3	376.4	368.2	364.5	352.6	346.2	344.4	329.7	324.2
5°	529.4	530.3	525.7	524.8	515.6	509.2	499.1	483.6	468.0	444.2	423.1
7.5°	566.9	566.0	565.1	565.1	563.2	559.6	555.0	550.4	544.0	529.4	512.9
10°	566.0	566.0	565.1	565.1	564.2	565.1	564.2	561.4	558.7	549.5	540.3
12.5°	637.4	631.9	624.6	613.6	595.3	581.6	566.0	561.4	559.6	556.8	551.3
15°	768.4	763.8	748.2	729.0	710.7	679.6	654.8	620.9	594.4	570.6	558.7
17.5°	831.6	834.3	816.9	805.0	787.6	762.9	733.6	698.8	661.2	616.4	580.6
20°	882.9	885.6	871.0	859.1	838.9	813.3	787.6	750.1	714.4	664.9	618.2
22.5°	935.1	936.9	923.2	905.8	882.9	856.3	823.3	784.9	746.4	702.5	653.0
25°	980.0	978.1	955.2	930.5	908.5	880.1	848.1	810.5	773.9	726.3	679.6
27.5°	997.4	996.4	970.8	947.0	921.3	882.9	854.5	821.5	783.0	740.9	693.3
30°	975.4	990.0	973.5	956.1	925.0	886.5	859.1	819.7	784.0	742.7	688.7
32.5°	952.5	970.8	965.3	957.1	920.4	890.2	854.5	817.8	775.7	728.1	645.7
35°	926.8	946.1	947.0	937.8	904.9	874.6	841.7	803.2	755.6	665.8	605.4
37.5°	903.9	922.3	927.7	908.5	882.9	842.6	812.4	772.1	686.0	625.5	594.4
40°	886.5	900.3	908.5	878.3	852.6	813.3	778.5	707.9	630.1	609.0	565.1
42.5°	868.2	881.0	884.7	851.7	812.4	774.8	724.4	635.6	612.7	581.6	463.4
45°	822.4	838.0	828.8	796.8	767.5	728.1	653.0	614.5	589.8	460.7	284.8
47.5°	617.3	634.7	659.4	668.6	678.6	650.2	609.0	595.3	484.5	279.3	88.8
50°	545.8	543.1	543.1	547.7	555.9	565.1	577.0	501.9	291.2	87.0	0.0
52.5°	222.5	233.5	287.6	336.1	392.0	447.8	465.2	307.7	113.6	1.8	0.0
55°	27.5	27.5	38.5	65.9	109.0	175.8	197.8	98.9	8.2	0.0	0.0
57.5°	0.0	0.0	0.0	0.9	7.3	20.1	13.7	3.7	0.9	0.9	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
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	0.9	0.9
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	240.9	240.9	240.9	240.9	240.9	240.9	240.9	240.9
2.5°	315.0	304.1	288.5	242.7	203.3	168.5	148.4	138.3
5°	403.0	376.4	340.7	241.8	164.9	109.9	82.4	72.4
7.5°	487.2	457.0	396.6	238.1	126.4	64.1	35.7	28.4
10°	523.9	501.9	447.8	232.6	91.6	30.2	30.2	31.1
12.5°	538.5	522.0	478.1	224.4	60.4	29.3	31.1	29.3
15°	548.6	533.0	492.7	215.2	34.8	30.2	24.7	22.0
17.5°	554.1	535.8	497.3	197.8	22.9	25.6	15.6	12.8
20°	571.5	542.2	501.0	177.7	22.0	17.4	8.2	6.4
22.5°	600.8	555.0	501.9	152.9	17.4	10.1	2.7	0.0
25°	627.4	572.4	504.6	120.9	5.5	2.7	0.0	0.0
27.5°	640.2	577.9	503.7	85.2	0.0	0.0	0.0	0.0
30°	624.6	564.2	495.5	53.1	0.0	0.0	0.0	0.0
32.5°	588.0	554.1	469.8	22.9	0.0	0.0	0.0	0.0
35°	576.1	532.1	411.2	2.7	0.0	0.0	0.0	0.0
37.5°	549.5	468.9	302.2	0.0	0.0	0.0	0.0	0.0
40°	472.6	338.9	143.8	0.0	0.0	0.0	0.0	0.0
42.5°	312.3	144.7	8.2	0.0	0.0	0.0	0.0	0.0
45°	109.9	9.2	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.8	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°	0.9	0.9	0.9	0.9	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	0.9	0.9	0.0	0.0	0.0	0.0
67.5°	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0
70°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0
72.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0
75°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0
77.5°	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0
87.5°	0.9	0.9	0.9	0.9	0.9	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)