

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: P1317555

Luminaire Tested: LDSQA3D13R709827DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

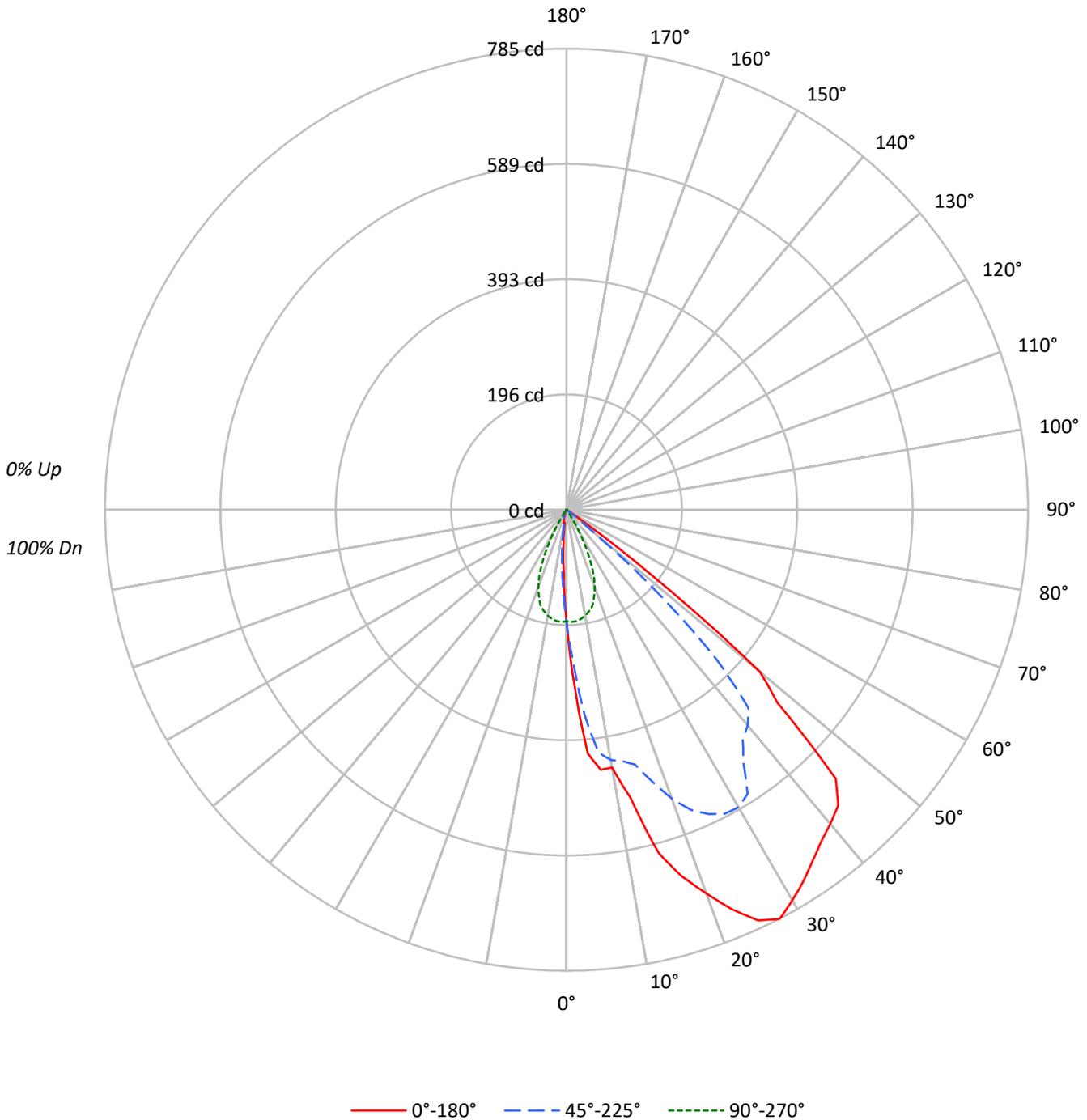
Test Method: LM-79-2019  
Report Number: P1317555  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-57)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R709827DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 98CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 511.0 lumens  
Efficiency: N/A  
Efficacy: 35.2 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 (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
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°	32653	32653	32653	32653	32653
5°	72057	60456	32916	14954	9854
10°	77926	75670	32038	4162	4285
15°	107870	80091	30222	4243	3085
20°	127395	95945	25640	2511	916
25°	146625	108657	18091	418	0
30°	152729	116297	8313	0	0
35°	153437	110210	463	0	0
40°	156925	107802	0	0	0
45°	157729	88339	0	0	0
50°	115157	18353	0	0	0
55°	6486	0	0	0	0
60°	0	241	241	0	0
65°	0	0	285	0	0
70°	0	352	352	0	0
75°	0	466	466	0	0
80°	0	694	694	694	0
85°	0	1383	1383	1383	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°  
 Vertical Angle: 45°  
 Luminance: 160701 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	20.7	4.1
10°-20°	69.3	13.6
20°-30°	124.5	24.4
30°-40°	151.4	29.6
40°-50°	116.9	22.9
50°-60°	27.2	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°	214.6	42.0
0°-40°	366.0	71.6
0°-60°	510.0	99.8
0°-90°	511.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	511.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	190	190	190	190	190	
5°	417	350	190	86	57	39
15°	605	449	170	24	17	169
25°	772	572	95	2	0	351
35°	730	524	2	0	0	458
45°	648	363	0	0	0	458
55°	22	0	0	0	0	89
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°	189.6	189.6	189.6	189.6	189.6	189.6	189.6	189.6	189.6	189.6	189.6
2.5°	295.7	295.7	297.1	296.4	289.9	287.0	277.6	272.6	271.1	259.6	255.3
5°	416.8	417.5	413.9	413.2	406.0	400.9	393.0	380.7	368.5	349.7	333.1
7.5°	446.4	445.6	444.9	444.9	443.5	440.6	437.0	433.4	428.3	416.8	403.8
10°	445.6	445.6	444.9	444.9	444.2	444.9	444.2	442.0	439.9	432.7	425.5
12.5°	501.9	497.6	491.8	483.1	468.7	457.9	445.6	442.0	440.6	438.4	434.1
15°	605.0	601.4	589.1	574.0	559.6	535.1	515.6	488.9	468.0	449.2	439.9
17.5°	654.8	656.9	643.2	633.8	620.1	600.7	577.6	550.2	520.6	485.3	457.2
20°	695.1	697.3	685.8	676.4	660.5	640.3	620.1	590.6	562.5	523.5	486.7
22.5°	736.2	737.7	726.9	713.2	695.1	674.2	648.3	618.0	587.7	553.1	514.1
25°	771.6	770.1	752.1	732.6	715.3	693.0	667.7	638.2	609.3	571.8	535.1
27.5°	785.3	784.6	764.4	745.6	725.4	695.1	672.8	646.8	616.5	583.4	545.9
30°	768.0	779.5	766.5	752.8	728.3	698.0	676.4	645.4	617.3	584.8	542.3
32.5°	749.9	764.4	760.0	753.6	724.7	700.9	672.8	643.9	610.8	573.3	508.4
35°	729.8	744.9	745.6	738.4	712.4	688.7	662.7	632.4	594.9	524.2	476.6
37.5°	711.7	726.2	730.5	715.3	695.1	663.4	639.6	607.9	540.1	492.5	468.0
40°	698.0	708.8	715.3	691.5	671.3	640.3	612.9	557.4	496.1	479.5	444.9
42.5°	683.6	693.7	696.6	670.6	639.6	610.1	570.4	500.4	482.4	457.9	364.9
45°	647.6	659.8	652.6	627.4	604.3	573.3	514.1	483.9	464.4	362.7	224.3
47.5°	486.0	499.7	519.2	526.4	534.3	512.0	479.5	468.7	381.5	219.9	69.9
50°	429.8	427.6	427.6	431.2	437.7	444.9	454.3	395.2	229.3	68.5	0.0
52.5°	175.2	183.9	226.4	264.6	308.6	352.6	366.3	242.3	89.4	1.4	0.0
55°	21.6	21.6	30.3	51.9	85.8	138.5	155.8	77.9	6.5	0.0	0.0
57.5°	0.0	0.0	0.0	0.7	5.8	15.9	10.8	2.9	0.7	0.7	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
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	0.7	0.7
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	189.6	189.6	189.6	189.6	189.6	189.6	189.6	189.6
2.5°	248.1	239.4	227.1	191.1	160.1	132.7	116.8	108.9
5°	317.3	296.4	268.3	190.4	129.8	86.5	64.9	57.0
7.5°	383.6	359.8	312.2	187.5	99.5	50.5	28.1	22.4
10°	412.5	395.2	352.6	183.2	72.1	23.8	23.8	24.5
12.5°	424.0	411.0	376.4	176.7	47.6	23.1	24.5	23.1
15°	431.9	419.7	388.0	169.5	27.4	23.8	19.5	17.3
17.5°	436.3	421.8	391.6	155.8	18.0	20.2	12.3	10.1
20°	450.0	426.9	394.4	139.9	17.3	13.7	6.5	5.0
22.5°	473.0	437.0	395.2	120.4	13.7	7.9	2.2	0.0
25°	494.0	450.7	397.3	95.2	4.3	2.2	0.0	0.0
27.5°	504.1	455.0	396.6	67.1	0.0	0.0	0.0	0.0
30°	491.8	444.2	390.1	41.8	0.0	0.0	0.0	0.0
32.5°	462.9	436.3	369.9	18.0	0.0	0.0	0.0	0.0
35°	453.6	419.0	323.8	2.2	0.0	0.0	0.0	0.0
37.5°	432.7	369.2	238.0	0.0	0.0	0.0	0.0	0.0
40°	372.1	266.8	113.2	0.0	0.0	0.0	0.0	0.0
42.5°	245.9	113.9	6.5	0.0	0.0	0.0	0.0	0.0
45°	86.5	7.2	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.4	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°	0.7	0.7	0.7	0.7	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	0.7	0.7	0.0	0.0	0.0	0.0
67.5°	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0
70°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0
72.5°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0
75°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0
77.5°	0.7	0.7	0.7	0.7	0.7	0.0	0.0	0.0
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.0	0.0
87.5°	0.7	0.7	0.7	0.7	0.7	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)