

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: P1311232

Luminaire Tested: LDSQA3D05R709040DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311232  
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: LDSQA3D05R709040DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

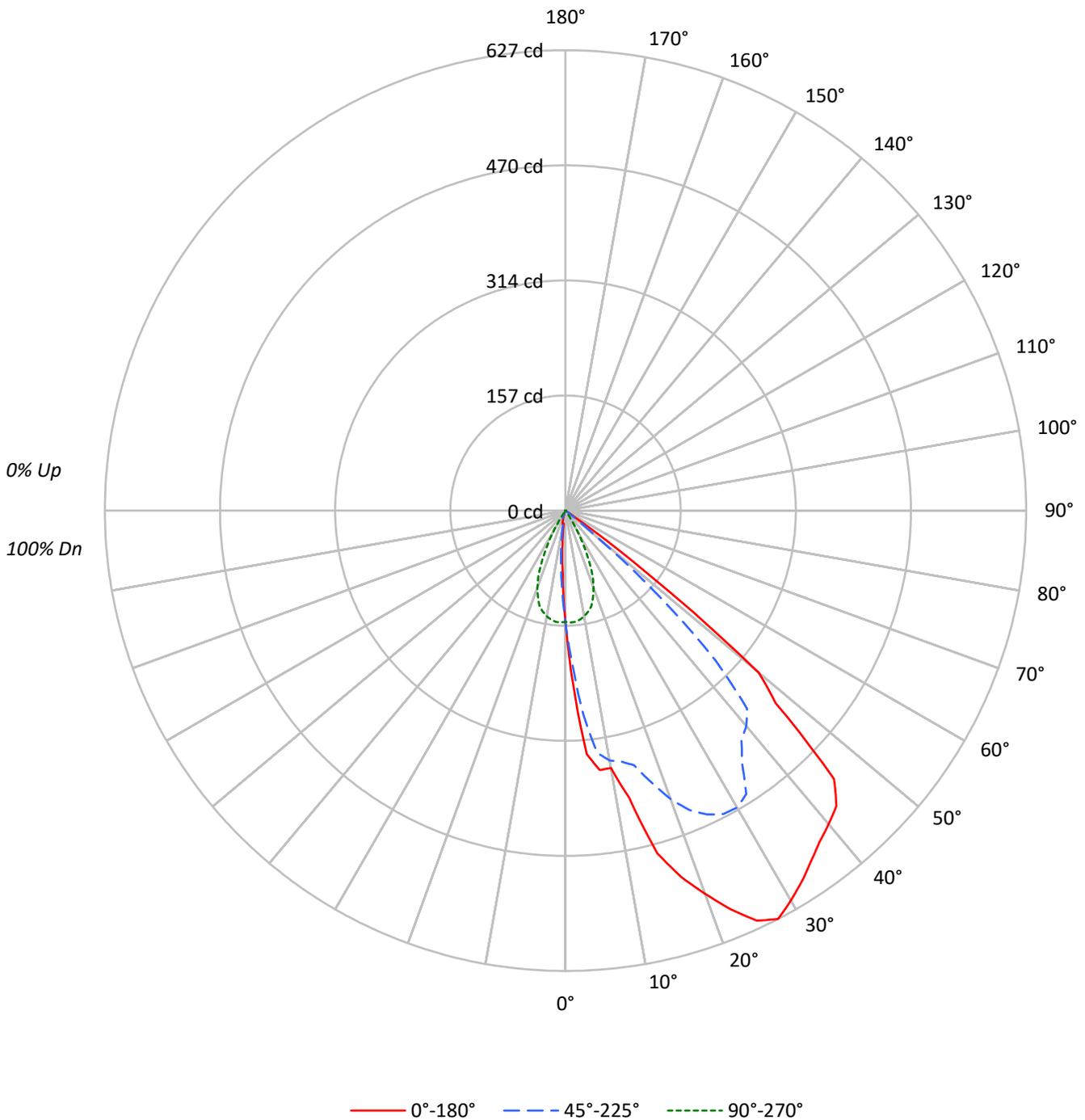
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 408.0 lumens  
Efficiency: N/A  
Efficacy: 56.7 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): 7.2  
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			
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	90	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°	26075	26075	26075	26075	26075
5°	57535	48268	26278	11946	7866
10°	62222	60421	25567	3323	3428
15°	86136	63955	24124	3388	2461
20°	101718	76609	20472	1998	733
25°	117075	86766	14442	323	0
30°	121944	92850	6642	0	0
35°	122510	88009	357	0	0
40°	125293	86084	0	0	0
45°	125920	70535	0	0	0
50°	91927	14656	0	0	0
55°	5195	0	0	0	0
60°	0	207	207	0	0
65°	0	0	245	0	0
70°	0	302	302	0	0
75°	0	399	399	0	0
80°	0	595	595	595	0
85°	0	1186	1186	1186	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°  
 Vertical Angle: 45°  
 Luminance: 128307 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16.6	4.1
10°-20°	55.3	13.6
20°-30°	99.4	24.4
30°-40°	120.9	29.6
40°-50°	93.3	22.9
50°-60°	21.7	5.3
60°-70°	0.1	0.0
70°-80°	0.3	0.1
80°-90°	0.3	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°	171.3	42.0
0°-40°	292.2	71.6
0°-60°	407.2	99.8
0°-90°	408.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	408.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	151	151	151	151	151	
5°	333	279	152	69	46	31
15°	483	359	135	19	14	135
25°	616	457	76	2	0	280
35°	583	419	2	0	0	366
45°	517	290	0	0	0	365
55°	17	0	0	0	0	71
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°	151.4	151.4	151.4	151.4	151.4	151.4	151.4	151.4	151.4	151.4	151.4
2.5°	236.1	236.1	237.2	236.6	231.5	229.1	221.7	217.6	216.5	207.3	203.8
5°	332.8	333.4	330.5	329.9	324.1	320.1	313.8	304.0	294.2	279.2	266.0
7.5°	356.4	355.8	355.2	355.2	354.1	351.8	348.9	346.0	342.0	332.8	322.4
10°	355.8	355.8	355.2	355.2	354.7	355.2	354.7	352.9	351.2	345.5	339.7
12.5°	400.7	397.3	392.7	385.8	374.2	365.6	355.8	352.9	351.8	350.1	346.6
15°	483.1	480.2	470.4	458.3	446.8	427.2	411.7	390.4	373.7	358.7	351.2
17.5°	522.8	524.5	513.6	506.1	495.1	479.6	461.2	439.3	415.7	387.5	365.0
20°	555.0	556.8	547.5	540.1	527.4	511.3	495.1	471.5	449.1	418.0	388.6
22.5°	587.8	589.0	580.4	569.4	555.0	538.3	517.6	493.4	469.2	441.6	410.5
25°	616.1	614.9	600.5	585.0	571.1	553.3	533.1	509.5	486.5	456.6	427.2
27.5°	627.0	626.4	610.3	595.3	579.2	555.0	537.2	516.5	492.3	465.8	435.8
30°	613.2	622.4	612.0	601.1	581.5	557.3	540.1	515.3	492.8	466.9	433.0
32.5°	598.8	610.3	606.8	601.7	578.6	559.6	537.2	514.1	487.7	457.7	405.9
35°	582.7	594.8	595.3	589.6	568.8	549.8	529.1	504.9	475.0	418.6	380.6
37.5°	568.3	579.8	583.2	571.1	555.0	529.7	510.7	485.4	431.2	393.2	373.7
40°	557.3	566.0	571.1	552.1	536.0	511.3	489.4	445.1	396.1	382.9	355.2
42.5°	545.8	553.9	556.2	535.5	510.7	487.1	455.4	399.6	385.2	365.6	291.3
45°	517.0	526.8	521.1	500.9	482.5	457.7	410.5	386.3	370.8	289.6	179.1
47.5°	388.1	399.0	414.5	420.3	426.6	408.8	382.9	374.2	304.6	175.6	55.8
50°	343.1	341.4	341.4	344.3	349.5	355.2	362.7	315.5	183.1	54.7	0.0
52.5°	139.9	146.8	180.8	211.3	246.4	281.5	292.5	193.5	71.4	1.2	0.0
55°	17.3	17.3	24.2	41.5	68.5	110.5	124.4	62.2	5.2	0.0	0.0
57.5°	0.0	0.0	0.0	0.6	4.6	12.7	8.6	2.3	0.6	0.6	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
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	0.6	0.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
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°	151.4	151.4	151.4	151.4	151.4	151.4	151.4	151.4
2.5°	198.1	191.2	181.4	152.6	127.8	105.9	93.3	86.9
5°	253.3	236.6	214.2	152.0	103.6	69.1	51.8	45.5
7.5°	306.3	287.3	249.3	149.7	79.5	40.3	22.5	17.8
10°	329.3	315.5	281.5	146.2	57.6	19.0	19.0	19.6
12.5°	338.5	328.2	300.5	141.1	38.0	18.4	19.6	18.4
15°	344.9	335.1	309.8	135.3	21.9	19.0	15.5	13.8
17.5°	348.3	336.8	312.6	124.4	14.4	16.1	9.8	8.1
20°	359.3	340.8	314.9	111.7	13.8	10.9	5.2	4.0
22.5°	377.7	348.9	315.5	96.2	10.9	6.3	1.7	0.0
25°	394.4	359.8	317.2	76.0	3.5	1.7	0.0	0.0
27.5°	402.5	363.3	316.7	53.5	0.0	0.0	0.0	0.0
30°	392.7	354.7	311.5	33.4	0.0	0.0	0.0	0.0
32.5°	369.6	348.3	295.4	14.4	0.0	0.0	0.0	0.0
35°	362.1	334.5	258.5	1.7	0.0	0.0	0.0	0.0
37.5°	345.5	294.8	190.0	0.0	0.0	0.0	0.0	0.0
40°	297.1	213.0	90.4	0.0	0.0	0.0	0.0	0.0
42.5°	196.3	91.0	5.2	0.0	0.0	0.0	0.0	0.0
45°	69.1	5.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.2	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°	0.6	0.6	0.6	0.6	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	0.6	0.6	0.0	0.0	0.0	0.0
67.5°	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0
70°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
72.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
75°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
77.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0
87.5°	0.6	0.6	0.6	0.6	0.6	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)