

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: P1306718

Luminaire Tested: LDSQA3D02R559024DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1306718  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-66)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R559024DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R55 optic, 2400K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

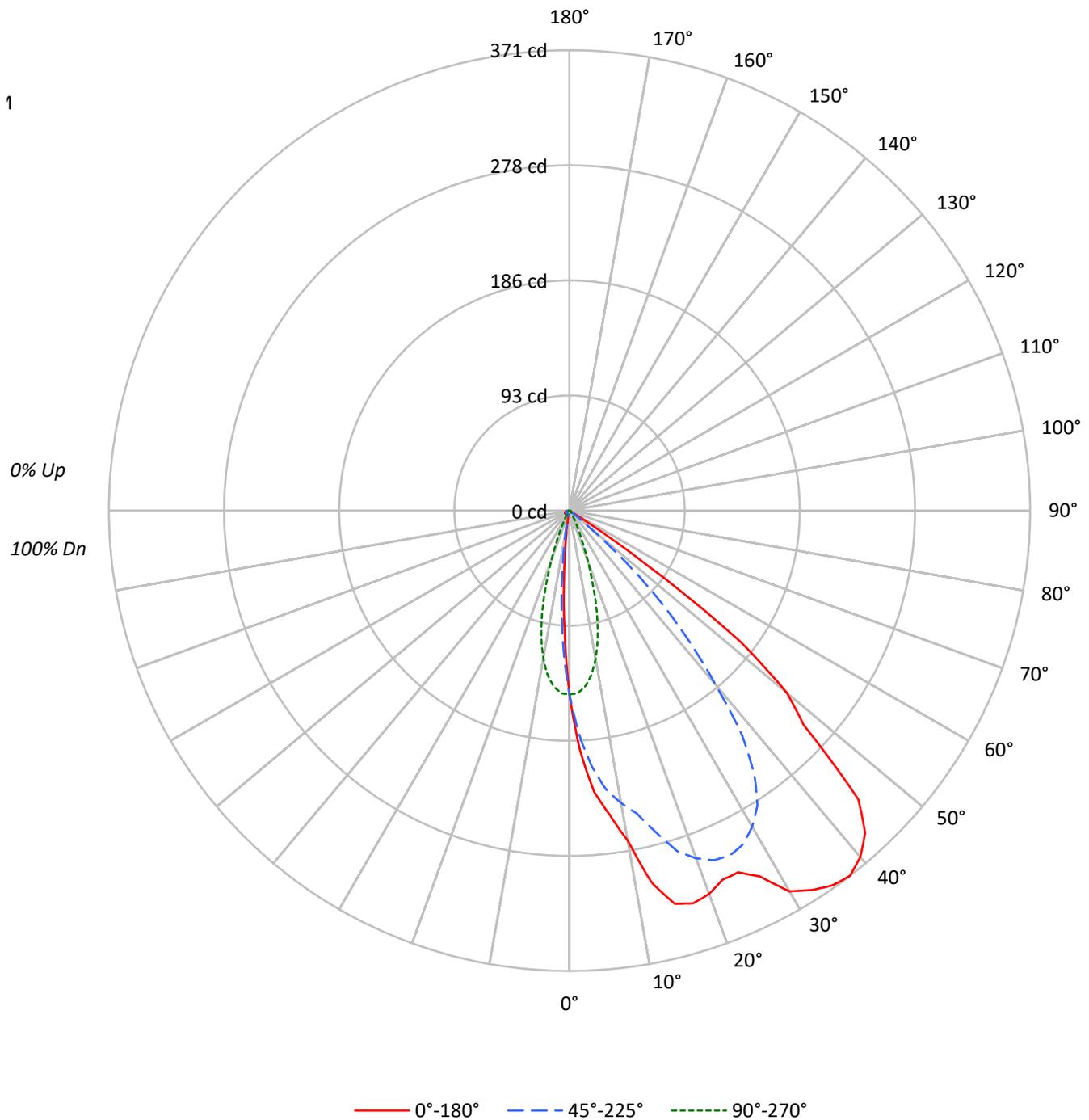
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 246.9 lumens  
Efficiency: N/A  
Efficacy: 68.6 lumens/watt  
Spacing Criteria (0/90/45): 1.79 / 0.55 / 1.22  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 3.6  
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

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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	102	102	102	100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	88	86	83	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	81	78	75	73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	75	71	67	65
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	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	59	54	50	48
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	54	49	45	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	50	45	41	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	47	42	38	37

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

	0°	45°	90°	135°	180°
0°	25489	25489	25489	25489	25489
5°	39313	35786	24635	12655	8316
10°	47235	41831	21195	3183	1277
15°	58500	47784	15155	874	695
20°	60243	54653	7826	586	586
25°	61113	58224	3135	532	608
30°	70438	58506	1372	557	636
35°	77538	54538	589	589	715
40°	81902	41052	337	674	764
45°	80107	25087	317	731	950
50°	61276	5359	348	857	1099
55°	22490	180	390	961	1231
60°	207	207	448	1102	1412
65°	245	245	530	1141	1467
70°	201	302	554	1309	1712
75°	133	266	599	1397	1996
80°	198	397	595	1488	2083
85°	0	395	790	1778	2174

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 80107 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13.0	5.3
10°-20°	37.3	15.1
20°-30°	57.3	23.2
30°-40°	66.7	27.0
40°-50°	53.3	21.6
50°-60°	15.8	6.4
60°-70°	1.7	0.7
70°-80°	1.3	0.5
80°-90°	0.6	0.2
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°	107.6	43.6
0°-40°	174.3	70.6
0°-60°	243.4	98.6
0°-90°	246.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	246.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	148	148	148	148	148	
5°	227	207	142	73	48	23
15°	328	268	85	5	4	91
25°	322	306	16	3	3	153
35°	369	259	3	3	3	230
45°	329	103	1	3	4	237
55°	75	1	1	3	4	79
65°	1	1	1	3	4	1
75°	0	0	1	2	3	0
85°	0	0	0	1	1	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°	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0
2.5°	193.1	193.1	192.5	192.7	192.2	189.9	189.5	186.4	183.9	181.1	178.7
5°	227.4	227.9	227.2	225.9	224.2	222.5	218.8	216.1	212.4	207.0	202.1
7.5°	247.0	246.5	245.5	245.0	243.9	242.0	239.4	236.4	232.1	226.8	221.0
10°	270.1	266.5	265.4	263.7	260.3	256.4	251.9	247.8	244.2	239.2	233.0
12.5°	307.5	306.8	302.5	299.3	294.6	286.0	278.3	269.3	258.5	250.0	241.8
15°	328.1	328.5	326.6	324.0	321.0	313.9	306.2	295.7	283.0	268.0	254.7
17.5°	331.7	332.3	331.3	330.2	329.3	325.3	320.5	313.0	301.5	287.5	267.8
20°	328.7	330.0	330.2	331.5	333.2	331.5	327.6	322.5	312.8	298.2	279.4
22.5°	322.0	324.4	326.1	330.6	335.1	335.1	332.8	328.7	319.3	304.9	285.6
25°	321.6	322.0	322.7	330.0	337.1	338.6	336.4	332.1	321.8	306.4	285.4
27.5°	332.3	329.6	325.3	332.6	340.9	342.2	339.2	333.4	321.2	303.0	278.1
30°	354.2	348.0	339.0	344.4	350.2	348.7	342.6	333.4	316.9	294.2	264.3
32.5°	362.6	359.2	355.9	361.7	362.8	356.6	345.9	332.1	310.0	281.7	241.8
35°	368.8	369.0	367.7	368.8	363.7	354.9	343.1	325.1	297.2	259.4	212.0
37.5°	371.0	371.4	368.6	364.7	357.0	346.9	332.8	312.2	275.7	228.7	166.9
40°	364.3	363.0	358.5	353.2	344.8	334.5	319.0	288.4	243.7	182.6	130.2
42.5°	352.5	350.4	345.0	338.6	329.8	316.7	292.0	254.9	198.0	142.5	91.2
45°	328.9	327.4	320.8	316.0	305.5	288.6	256.8	210.0	153.2	103.0	52.8
47.5°	255.5	255.8	260.9	263.3	259.6	246.1	208.8	159.6	111.8	61.4	17.8
50°	228.7	227.6	222.5	215.4	203.6	183.4	153.2	112.9	66.1	20.0	2.6
52.5°	173.6	173.6	171.0	167.4	154.9	135.4	103.6	62.4	23.2	3.4	0.6
55°	74.9	71.0	73.2	77.2	74.0	64.4	48.5	18.7	4.1	0.6	0.6
57.5°	1.1	2.6	3.9	6.2	8.4	10.1	5.4	1.9	0.6	0.6	0.6
60°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
62.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
65°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
67.5°	0.4	0.4	0.4	0.6	0.4	0.6	0.6	0.6	0.6	0.6	0.6
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.6
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
75°	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2
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°	148.0	148.0	148.0	148.0	148.0	148.0	148.0	148.0
2.5°	175.3	171.6	165.6	147.4	128.5	111.1	98.7	94.0
5°	196.5	189.9	179.8	142.5	104.9	73.2	55.1	48.1
7.5°	213.3	204.7	190.1	133.9	77.0	39.0	23.4	18.5
10°	224.4	215.0	195.9	121.2	51.1	18.2	8.8	7.3
12.5°	232.6	220.8	198.0	104.9	30.0	8.4	4.7	4.3
15°	238.6	223.4	195.5	85.0	16.5	4.9	3.9	3.9
17.5°	247.0	224.6	189.2	62.7	9.4	3.6	3.6	3.6
20°	253.4	224.6	177.4	42.7	5.8	3.2	3.2	3.2
22.5°	256.6	221.2	163.1	27.0	4.1	3.0	3.2	3.2
25°	253.4	212.8	144.6	16.5	3.2	2.8	3.0	3.2
27.5°	241.6	196.1	119.9	10.5	2.6	2.8	3.0	3.2
30°	221.9	171.9	92.0	6.9	2.4	2.8	3.0	3.2
32.5°	194.0	135.8	59.6	4.5	2.1	2.8	3.0	3.2
35°	151.5	96.1	36.0	2.8	2.1	2.8	3.2	3.4
37.5°	113.5	64.2	19.5	1.7	2.1	2.8	3.2	3.4
40°	78.7	37.3	8.4	1.5	2.1	3.0	3.4	3.4
42.5°	45.7	14.8	2.1	1.3	2.1	3.0	3.4	3.6
45°	16.7	3.0	0.6	1.3	2.4	3.0	3.4	3.9
47.5°	2.4	0.6	0.6	1.3	2.4	3.0	3.6	3.9
50°	0.6	0.6	0.6	1.3	2.4	3.2	3.9	4.1
52.5°	0.6	0.6	0.6	1.3	2.4	3.2	3.9	4.1
55°	0.6	0.6	0.6	1.3	2.4	3.2	3.9	4.1
57.5°	0.6	0.6	0.6	1.3	2.4	3.2	3.9	4.1
60°	0.6	0.6	0.6	1.3	2.1	3.2	3.9	4.1
62.5°	0.6	0.6	0.6	1.3	2.1	3.0	3.6	3.9
65°	0.6	0.6	0.6	1.3	1.9	2.8	3.6	3.6
67.5°	0.6	0.6	0.6	1.1	1.9	2.8	3.4	3.6
70°	0.6	0.6	0.6	1.1	1.7	2.6	3.2	3.4
72.5°	0.6	0.6	0.6	0.9	1.5	2.4	3.0	3.2
75°	0.4	0.6	0.6	0.9	1.5	2.1	2.8	3.0
77.5°	0.4	0.6	0.6	0.6	1.3	1.7	2.4	2.6
80°	0.4	0.4	0.6	0.6	1.1	1.5	1.9	2.1
82.5°	0.4	0.4	0.4	0.6	0.9	1.1	1.5	1.5
85°	0.4	0.4	0.4	0.4	0.6	0.9	1.1	1.1
87.5°	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)