

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: P1312143

Luminaire Tested: LDSQA3D02R559050DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1312143  
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: LDSQA3D02R559050DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R55 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

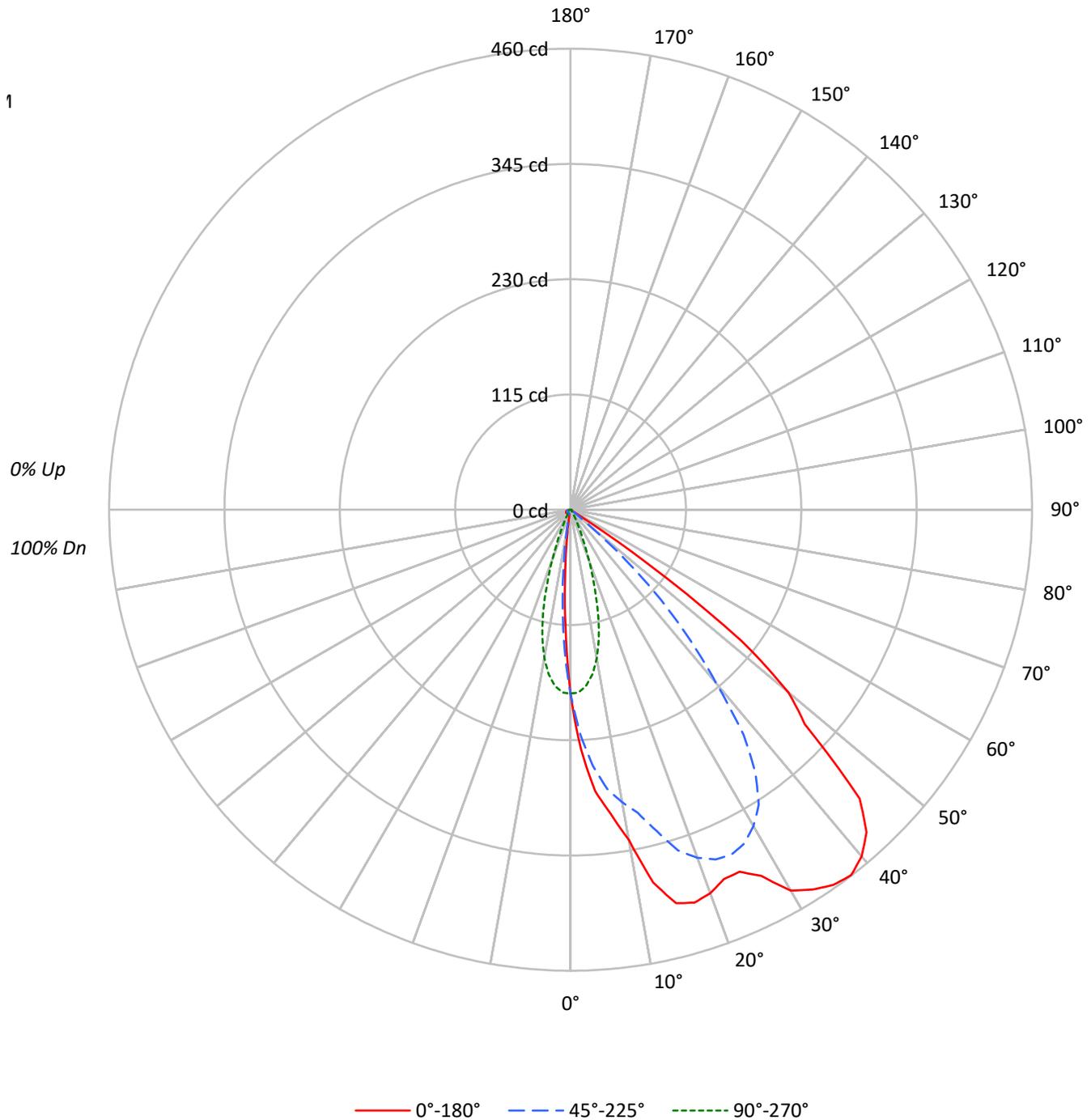
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 306.0 lumens  
Efficiency: N/A  
Efficacy: 85.0 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 (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	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	91	82	75	70	89	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°	31586	31586	31586	31586	31586
5°	48718	44344	30513	15663	10286
10°	58515	51834	26267	3952	1574
15°	72460	59195	18775	1088	856
20°	74630	67720	9695	733	733
25°	75707	72134	3896	665	760
30°	87262	72467	1690	696	795
35°	96061	67573	736	736	904
40°	101462	50854	427	832	967
45°	99251	31078	390	901	1169
50°	75905	6618	429	1072	1366
55°	27864	240	480	1201	1531
60°	276	276	551	1378	1757
65°	326	326	652	1426	1834
70°	252	403	655	1611	2165
75°	200	333	732	1797	2462
80°	298	496	793	1884	2678
85°	0	593	988	2174	2569

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 99251 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16.1	5.3
10°-20°	46.2	15.1
20°-30°	70.9	23.2
30°-40°	82.7	27.0
40°-50°	66.0	21.6
50°-60°	19.6	6.4
60°-70°	2.1	0.7
70°-80°	1.6	0.5
80°-90°	0.7	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°	133.3	43.6
0°-40°	216.0	70.6
0°-60°	301.6	98.5
0°-90°	306.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	306.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	183	183	183	183	183	
5°	282	256	176	91	60	28
15°	406	332	105	6	5	112
25°	398	380	20	4	4	189
35°	457	321	4	4	4	285
45°	408	128	2	4	5	294
55°	93	1	2	4	5	98
65°	1	1	2	4	4	1
75°	0	0	1	3	4	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°	183.4	183.4	183.4	183.4	183.4	183.4	183.4	183.4	183.4	183.4	183.4
2.5°	239.2	239.2	238.4	238.7	238.2	235.2	234.7	231.0	227.8	224.3	221.4
5°	281.8	282.3	281.5	279.9	277.8	275.6	271.1	267.7	263.1	256.5	250.4
7.5°	305.9	305.4	304.1	303.6	302.2	299.8	296.6	292.9	287.6	281.0	273.8
10°	334.6	330.1	328.8	326.7	322.4	317.6	312.1	307.0	302.5	296.4	288.7
12.5°	380.9	380.1	374.8	370.8	365.0	354.3	344.7	333.6	320.3	309.7	299.6
15°	406.4	406.9	404.6	401.4	397.6	388.9	379.3	366.3	350.6	332.0	315.5
17.5°	410.9	411.7	410.4	409.1	408.0	403.0	397.1	387.8	373.5	356.2	331.7
20°	407.2	408.8	409.1	410.7	412.8	410.7	405.9	399.5	387.5	369.5	346.1
22.5°	399.0	401.9	404.0	409.6	415.2	415.2	412.3	407.2	395.5	377.7	353.8
25°	398.4	399.0	399.8	408.8	417.6	419.4	416.8	411.5	398.7	379.6	353.5
27.5°	411.7	408.3	403.0	412.0	422.4	424.0	420.2	413.1	397.9	375.3	344.5
30°	438.8	431.1	420.0	426.6	433.8	431.9	424.5	413.1	392.6	364.4	327.5
32.5°	449.2	445.0	441.0	448.1	449.5	441.8	428.5	411.5	384.1	349.0	299.6
35°	456.9	457.2	455.6	456.9	450.5	439.6	425.0	402.7	368.1	321.4	262.6
37.5°	459.6	460.1	456.7	451.9	442.3	429.8	412.3	386.7	341.6	283.3	206.8
40°	451.3	449.7	444.2	437.5	427.1	414.4	395.3	357.2	302.0	226.2	161.3
42.5°	436.7	434.1	427.4	419.4	408.5	392.3	361.8	315.8	245.3	176.5	113.0
45°	407.5	405.6	397.4	391.5	378.5	357.5	318.2	260.2	189.8	127.6	65.4
47.5°	316.6	316.8	323.2	326.1	321.6	304.9	258.6	197.8	138.5	76.0	22.1
50°	283.3	282.0	275.6	266.9	252.2	227.3	189.8	139.8	81.9	24.7	3.2
52.5°	215.0	215.0	211.8	207.3	191.9	167.7	128.4	77.3	28.7	4.3	0.8
55°	92.8	88.0	90.6	95.7	91.7	79.7	60.1	23.1	5.1	0.8	0.8
57.5°	1.3	3.2	4.8	7.7	10.4	12.5	6.6	2.4	0.8	0.8	0.8
60°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
62.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
65°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
67.5°	0.5	0.5	0.5	0.8	0.5	0.8	0.8	0.8	0.8	0.8	0.8
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.8	0.8
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5
82.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3
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°	183.4	183.4	183.4	183.4	183.4	183.4	183.4	183.4
2.5°	217.2	212.6	205.2	182.6	159.2	137.7	122.3	116.4
5°	243.5	235.2	222.7	176.5	130.0	90.6	68.3	59.5
7.5°	264.2	253.6	235.5	165.9	95.4	48.4	29.0	22.9
10°	278.0	266.3	242.7	150.2	63.3	22.6	10.9	9.0
12.5°	288.1	273.5	245.3	130.0	37.2	10.4	5.8	5.3
15°	295.6	276.7	242.1	105.3	20.5	6.1	4.8	4.8
17.5°	305.9	278.3	234.4	77.6	11.7	4.5	4.5	4.5
20°	313.9	278.3	219.8	52.9	7.2	4.0	4.0	4.0
22.5°	317.9	274.0	202.0	33.5	5.1	3.7	4.0	4.0
25°	313.9	263.7	179.2	20.5	4.0	3.5	3.7	4.0
27.5°	299.3	242.9	148.6	13.0	3.2	3.5	3.7	4.0
30°	274.8	212.9	114.0	8.5	2.9	3.5	3.7	4.0
32.5°	240.3	168.3	73.9	5.6	2.7	3.5	3.7	4.0
35°	187.7	119.1	44.7	3.5	2.7	3.5	4.0	4.3
37.5°	140.6	79.5	24.2	2.1	2.7	3.5	4.0	4.3
40°	97.6	46.3	10.4	1.9	2.7	3.7	4.3	4.3
42.5°	56.6	18.3	2.7	1.6	2.7	3.7	4.3	4.5
45°	20.7	3.7	0.8	1.6	2.9	3.7	4.3	4.8
47.5°	2.9	0.8	0.8	1.6	2.9	3.7	4.5	4.8
50°	0.8	0.8	0.8	1.6	2.9	4.0	4.8	5.1
52.5°	0.8	0.8	0.8	1.6	2.9	4.0	4.8	5.1
55°	0.8	0.8	0.8	1.6	2.9	4.0	4.8	5.1
57.5°	0.8	0.8	0.8	1.6	2.9	4.0	4.8	5.1
60°	0.8	0.8	0.8	1.6	2.7	4.0	4.8	5.1
62.5°	0.8	0.8	0.8	1.6	2.7	3.7	4.5	4.8
65°	0.8	0.8	0.8	1.6	2.4	3.5	4.5	4.5
67.5°	0.8	0.8	0.8	1.3	2.4	3.5	4.3	4.5
70°	0.8	0.8	0.8	1.3	2.1	3.2	4.0	4.3
72.5°	0.8	0.8	0.8	1.1	1.9	2.9	3.7	4.0
75°	0.5	0.8	0.8	1.1	1.9	2.7	3.5	3.7
77.5°	0.5	0.8	0.8	0.8	1.6	2.1	2.9	3.2
80°	0.5	0.5	0.8	0.8	1.3	1.9	2.4	2.7
82.5°	0.5	0.5	0.5	0.8	1.1	1.3	1.9	1.9
85°	0.5	0.5	0.5	0.5	0.8	1.1	1.3	1.3
87.5°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)