

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: P1311044

Luminaire Tested: LDSQA3D02R559040DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311044  
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: LDSQA3D02R559040DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

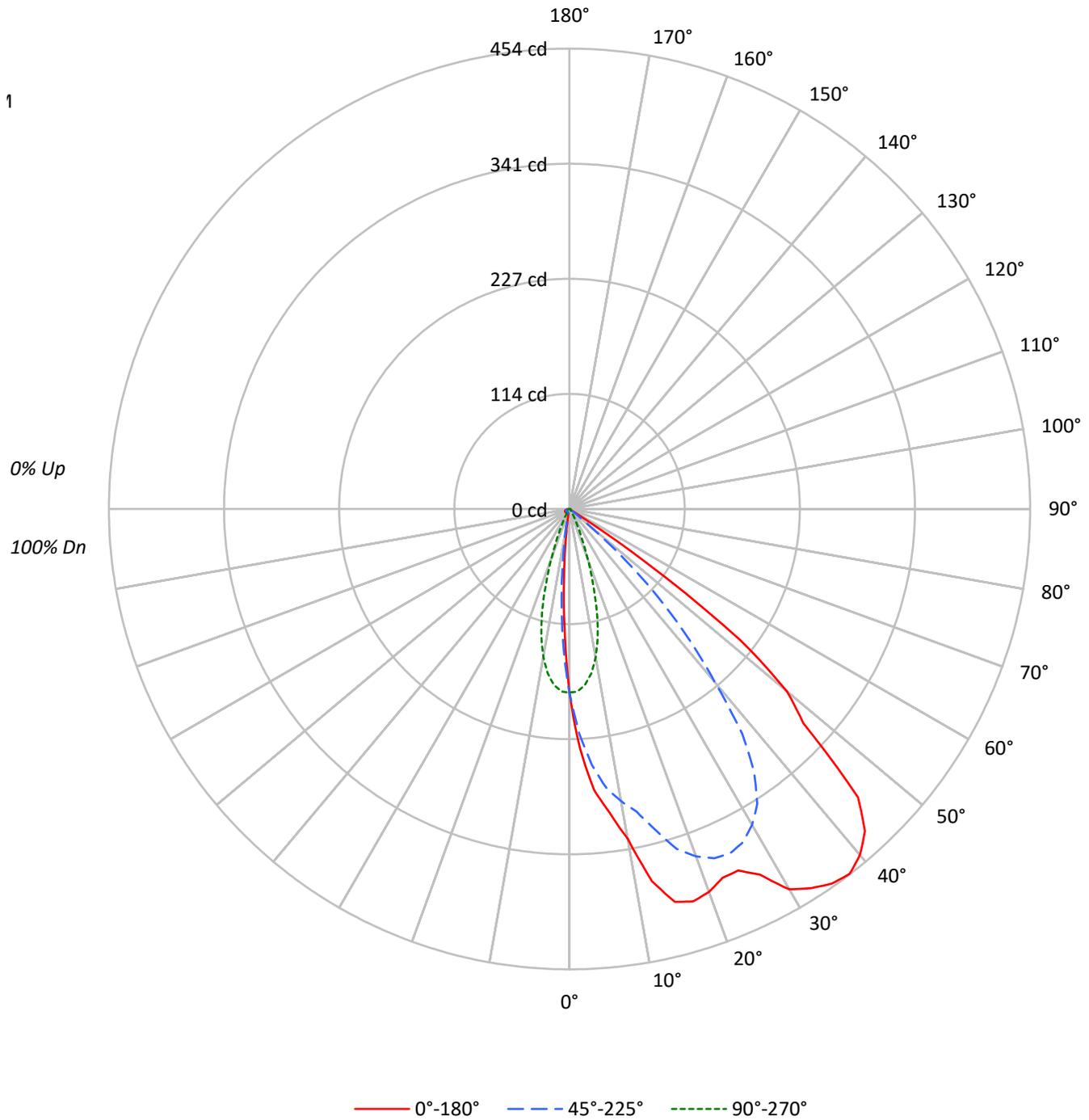
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 302.0 lumens  
Efficiency: N/A  
Efficacy: 83.9 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°	31172	31172	31172	31172	31172
5°	48078	43756	30116	15473	10165
10°	57763	51152	25917	3900	1556
15°	71515	58428	18525	1070	838
20°	73658	66822	9567	715	715
25°	74718	71184	3839	646	741
30°	86129	71532	1670	676	776
35°	94799	66690	715	715	883
40°	100135	50180	405	832	944
45°	97960	30664	390	901	1145
50°	74913	6538	429	1045	1340
55°	27504	240	480	1171	1501
60°	276	276	551	1343	1722
65°	326	326	652	1386	1834
70°	252	403	655	1561	2115
75°	200	333	665	1730	2462
80°	298	496	793	1785	2579
85°	0	593	988	1976	2569

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 97960 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.9	5.3
10°-20°	45.6	15.1
20°-30°	70.0	23.2
30°-40°	81.6	27.0
40°-50°	65.2	21.6
50°-60°	19.3	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°	131.6	43.6
0°-40°	213.1	70.6
0°-60°	297.6	98.6
0°-90°	302.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	302.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	181	181	181	181	181	
5°	278	253	174	90	59	28
15°	401	328	104	6	5	111
25°	393	375	20	3	4	187
35°	451	317	3	3	4	281
45°	402	126	2	4	5	290
55°	92	1	2	4	5	97
65°	1	1	2	3	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°	181.0	181.0	181.0	181.0	181.0	181.0	181.0	181.0	181.0	181.0	181.0
2.5°	236.1	236.1	235.3	235.6	235.0	232.2	231.6	228.0	224.8	221.4	218.5
5°	278.1	278.6	277.8	276.2	274.1	272.0	267.6	264.2	259.7	253.1	247.1
7.5°	301.9	301.4	300.1	299.6	298.3	295.9	292.8	289.1	283.8	277.3	270.2
10°	330.3	325.8	324.5	322.4	318.2	313.5	308.0	303.0	298.5	292.5	284.9
12.5°	375.9	375.1	369.9	366.0	360.2	349.7	340.2	329.2	316.1	305.6	295.6
15°	401.1	401.6	399.3	396.1	392.4	383.8	374.3	361.5	346.0	327.7	311.4
17.5°	405.6	406.4	405.0	403.7	402.7	397.7	391.9	382.7	368.6	351.5	327.4
20°	401.9	403.5	403.7	405.3	407.4	405.3	400.6	394.3	382.5	364.6	341.6
22.5°	393.8	396.6	398.7	404.3	409.8	409.8	406.9	401.9	390.3	372.8	349.2
25°	393.2	393.8	394.5	403.5	412.1	414.0	411.3	406.1	393.5	374.6	348.9
27.5°	406.4	402.9	397.7	406.6	416.8	418.4	414.7	407.7	392.7	370.4	340.0
30°	433.1	425.5	414.5	421.0	428.1	426.3	418.9	407.7	387.5	359.7	323.2
32.5°	443.3	439.1	435.2	442.3	443.6	436.0	422.9	406.1	379.1	344.4	295.6
35°	450.9	451.2	449.6	450.9	444.7	433.9	419.5	397.4	363.3	317.2	259.2
37.5°	453.6	454.1	450.7	446.0	436.5	424.2	406.9	381.7	337.1	279.6	204.1
40°	445.4	443.9	438.4	431.8	421.6	409.0	390.1	352.6	298.0	223.2	159.2
42.5°	431.0	428.4	421.8	414.0	403.2	387.2	357.0	311.6	242.1	174.2	111.5
45°	402.2	400.3	392.2	386.4	373.6	352.8	314.0	256.8	187.3	125.9	64.5
47.5°	312.4	312.7	319.0	321.9	317.4	300.9	255.2	195.2	136.7	75.0	21.8
50°	279.6	278.3	272.0	263.4	249.0	224.3	187.3	138.0	80.8	24.4	3.1
52.5°	212.2	212.2	209.1	204.6	189.4	165.5	126.7	76.3	28.3	4.2	0.8
55°	91.6	86.8	89.5	94.4	90.5	78.7	59.3	22.8	5.0	0.8	0.8
57.5°	1.3	3.1	4.7	7.6	10.2	12.3	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°	181.0	181.0	181.0	181.0	181.0	181.0	181.0	181.0
2.5°	214.3	209.9	202.5	180.2	157.1	135.9	120.7	114.9
5°	240.3	232.2	219.8	174.2	128.3	89.5	67.4	58.8
7.5°	260.8	250.3	232.4	163.7	94.2	47.7	28.6	22.6
10°	274.4	262.9	239.5	148.2	62.4	22.3	10.8	8.9
12.5°	284.4	269.9	242.1	128.3	36.7	10.2	5.8	5.2
15°	291.7	273.1	239.0	103.9	20.2	6.0	4.7	4.7
17.5°	301.9	274.7	231.4	76.6	11.5	4.5	4.5	4.5
20°	309.8	274.7	216.9	52.2	7.1	3.9	3.9	3.9
22.5°	313.7	270.5	199.4	33.1	5.0	3.7	3.9	3.9
25°	309.8	260.2	176.8	20.2	3.9	3.4	3.7	3.9
27.5°	295.4	239.8	146.6	12.9	3.1	3.4	3.7	3.9
30°	271.3	210.1	112.5	8.4	2.9	3.4	3.7	3.9
32.5°	237.1	166.1	72.9	5.5	2.6	3.4	3.7	3.9
35°	185.2	117.5	44.1	3.4	2.6	3.4	3.9	4.2
37.5°	138.8	78.4	23.9	2.1	2.6	3.4	3.9	4.2
40°	96.3	45.6	10.2	1.8	2.6	3.7	4.2	4.2
42.5°	55.9	18.1	2.6	1.6	2.6	3.7	4.2	4.5
45°	20.5	3.7	0.8	1.6	2.9	3.7	4.2	4.7
47.5°	2.9	0.8	0.8	1.6	2.9	3.7	4.5	4.7
50°	0.8	0.8	0.8	1.6	2.9	3.9	4.7	5.0
52.5°	0.8	0.8	0.8	1.6	2.9	3.9	4.7	5.0
55°	0.8	0.8	0.8	1.6	2.9	3.9	4.7	5.0
57.5°	0.8	0.8	0.8	1.6	2.9	3.9	4.7	5.0
60°	0.8	0.8	0.8	1.6	2.6	3.9	4.7	5.0
62.5°	0.8	0.8	0.8	1.6	2.6	3.7	4.5	4.7
65°	0.8	0.8	0.8	1.6	2.4	3.4	4.5	4.5
67.5°	0.8	0.8	0.8	1.3	2.4	3.4	4.2	4.5
70°	0.8	0.8	0.8	1.3	2.1	3.1	3.9	4.2
72.5°	0.8	0.8	0.8	1.0	1.8	2.9	3.7	3.9
75°	0.5	0.8	0.8	1.0	1.8	2.6	3.4	3.7
77.5°	0.5	0.8	0.8	0.8	1.6	2.1	2.9	3.1
80°	0.5	0.5	0.8	0.8	1.3	1.8	2.4	2.6
82.5°	0.5	0.5	0.5	0.8	1.0	1.3	1.8	1.8
85°	0.5	0.5	0.5	0.5	0.8	1.0	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)