

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: P1317088

Luminaire Tested: LDSQA3D02R509827DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1317088  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R509827DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 2700K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

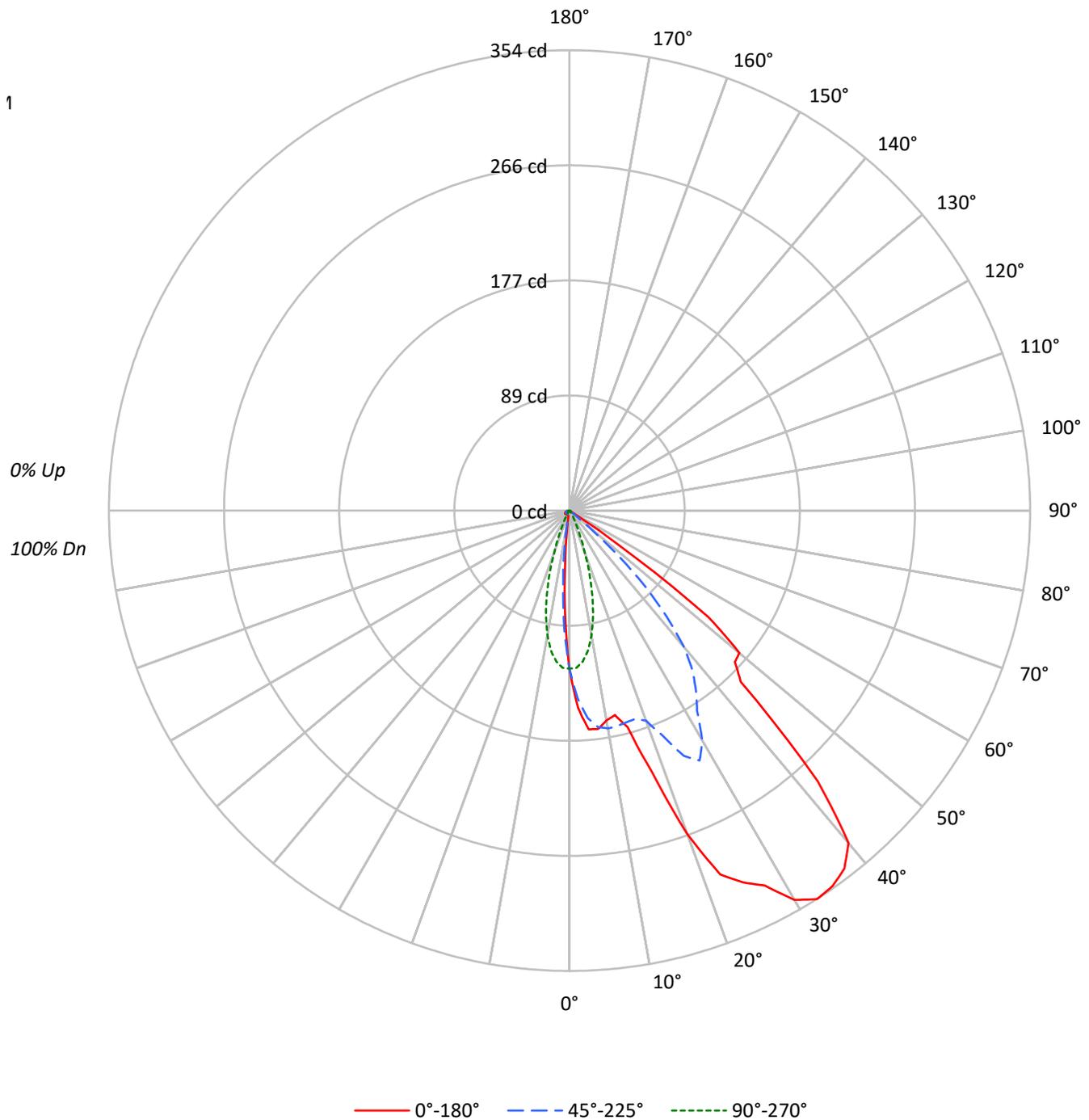
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 189.0 lumens  
Efficiency: N/A  
Efficacy: 52.5 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2  
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	101	102	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	85	83	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	60	58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	63	58	54	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	50	45	41	39
10	61	50	42	38	60	49	42	38	48	42	38	47	42	37	46	41	37	46	41	37	36

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

	0°	45°	90°	135°	180°
0°	20925	20925	20925	20925	20925
5°	29182	27678	20123	9664	6276
10°	28645	29747	16998	2046	874
15°	30721	30061	12017	713	678
20°	48513	31487	6341	605	641
25°	59934	39545	2527	570	627
30°	68728	40549	1034	557	656
35°	74090	35594	463	589	736
40°	75000	30643	337	674	832
45°	45326	19874	317	731	926
50°	45655	3430	348	857	1072
55°	13482	210	390	961	1201
60°	241	241	413	1033	1309
65°	204	204	408	1100	1426
70°	252	252	403	1158	1611
75°	200	200	466	1198	1664
80°	198	298	496	1190	1785
85°	395	593	593	1383	1581

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 51781 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9.8	5.2
10°-20°	24.4	12.9
20°-30°	45.7	24.2
30°-40°	54.6	28.9
40°-50°	39.2	20.7
50°-60°	12.1	6.4
60°-70°	1.6	0.8
70°-80°	1.1	0.6
80°-90°	0.5	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
<b>0°-30°</b>	<b>79.9</b>	<b>42.3</b>
<b>0°-40°</b>	<b>134.6</b>	<b>71.2</b>
<b>0°-60°</b>	<b>185.8</b>	<b>98.3</b>
<b>0°-90°</b>	<b>189.0</b>	<b>100.0</b>
90°-120°	0.0	0.0
90°-150°	0.0	0.0
<b>90°-180°</b>	<b>0.0</b>	<b>0.0</b>
<b>0°-180°</b>	<b>189.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	122	122	122	122	122	
5°	169	160	116	56	36	16
15°	172	169	67	4	4	55
25°	315	208	13	3	3	145
35°	352	169	2	3	4	219
45°	186	82	1	3	4	171
55°	45	1	1	3	4	58
65°	0	0	1	3	4	1
75°	0	0	1	2	2	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°	121.5	121.5	121.5	121.5	121.5	121.5	121.5	121.5	121.5	121.5	121.5
2.5°	152.0	152.3	152.8	151.5	150.6	150.0	148.8	148.5	145.6	144.5	143.3
5°	168.8	168.5	168.8	168.3	168.0	167.0	166.0	164.3	162.5	160.1	157.5
7.5°	169.3	169.0	169.6	169.6	170.3	170.3	170.3	170.4	169.4	167.8	165.5
10°	163.8	163.8	164.5	164.1	165.3	165.8	167.0	169.0	169.9	170.1	169.4
12.5°	161.0	161.0	161.1	160.5	160.8	161.3	162.6	165.0	167.3	169.6	170.9
15°	172.3	172.6	170.3	167.0	164.5	161.8	161.0	162.5	165.0	168.6	171.6
17.5°	210.7	211.2	208.7	200.7	193.1	182.1	172.3	167.5	164.8	167.8	171.8
20°	264.7	262.8	258.5	250.0	238.9	221.9	206.6	191.1	176.3	171.8	173.1
22.5°	302.8	302.1	298.6	289.1	279.5	263.7	244.2	222.5	201.1	187.4	180.3
25°	315.4	314.9	311.8	306.1	300.8	288.8	271.3	249.5	227.0	208.1	190.1
27.5°	324.9	324.3	319.3	312.9	307.4	295.3	279.3	262.8	242.2	216.6	188.9
30°	345.6	343.7	336.7	325.4	314.9	298.1	280.5	260.0	232.0	203.9	176.9
32.5°	354.2	353.2	347.2	338.1	326.6	304.6	277.8	243.5	206.7	182.4	162.8
35°	352.4	350.9	344.7	334.2	320.3	299.1	263.3	216.2	186.3	169.3	147.1
37.5°	346.9	344.7	337.4	325.1	308.1	280.5	233.7	194.1	174.8	155.6	125.8
40°	333.6	330.1	321.6	308.8	291.8	255.5	206.7	180.8	162.8	136.3	102.0
42.5°	282.6	280.8	285.0	282.8	267.8	225.0	187.6	168.6	143.8	110.2	73.9
45°	186.1	189.3	196.7	209.6	212.6	193.6	171.9	148.6	118.3	81.6	42.6
47.5°	172.3	171.6	173.4	175.9	176.4	168.5	148.8	122.8	87.9	46.6	11.8
50°	170.4	169.4	168.0	165.0	158.6	143.1	120.8	89.6	50.8	12.8	0.8
52.5°	134.7	133.7	133.7	129.3	121.2	106.2	83.4	49.3	14.1	0.8	0.7
55°	44.9	47.9	47.4	47.3	50.9	46.9	36.0	12.7	1.2	0.7	0.7
57.5°	0.8	0.8	0.8	1.5	2.3	3.3	2.0	1.0	0.7	0.7	0.7
60°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
62.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5
75°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5
77.5°	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3
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°	121.5	121.5	121.5	121.5	121.5	121.5	121.5	121.5
2.5°	140.7	138.3	133.8	121.0	106.9	90.7	79.7	78.4
5°	153.3	149.8	142.5	116.4	84.1	55.9	41.6	36.3
7.5°	161.6	157.0	148.0	108.7	61.3	29.5	15.8	12.7
10°	166.6	162.3	150.8	97.2	39.0	11.7	5.3	5.0
12.5°	169.3	165.1	151.8	83.4	22.0	5.3	4.2	4.2
15°	171.1	166.6	150.3	67.4	11.0	4.0	3.8	3.8
17.5°	171.9	166.5	146.0	50.8	5.8	3.7	3.7	3.7
20°	172.4	164.6	138.0	34.6	4.0	3.3	3.5	3.5
22.5°	172.9	160.1	127.5	22.0	3.2	3.2	3.3	3.3
25°	171.9	152.3	112.7	13.3	2.8	3.0	3.2	3.3
27.5°	164.8	140.5	94.7	8.2	2.5	2.8	3.2	3.3
30°	152.5	123.2	73.9	5.2	2.3	2.8	3.2	3.3
32.5°	136.5	103.4	52.8	3.2	2.3	2.8	3.2	3.3
35°	115.0	79.1	34.3	2.2	2.3	2.8	3.3	3.5
37.5°	90.9	55.3	18.5	1.7	2.3	2.8	3.3	3.5
40°	65.4	33.1	6.7	1.5	2.2	3.0	3.5	3.7
42.5°	38.3	12.3	1.2	1.3	2.2	3.0	3.5	3.7
45°	11.0	1.3	0.7	1.3	2.2	3.0	3.7	3.8
47.5°	0.8	0.5	0.7	1.3	2.2	3.0	3.7	4.0
50°	0.5	0.5	0.5	1.3	2.2	3.2	3.8	4.0
52.5°	0.7	0.7	0.7	1.3	2.2	3.2	3.8	4.0
55°	0.7	0.7	0.7	1.3	2.2	3.2	3.8	4.0
57.5°	0.7	0.7	0.7	1.3	2.2	3.0	3.8	4.0
60°	0.7	0.7	0.7	1.2	2.0	3.0	3.7	3.8
62.5°	0.7	0.7	0.7	1.2	2.0	2.8	3.7	3.7
65°	0.7	0.7	0.7	1.0	1.8	2.7	3.3	3.5
67.5°	0.7	0.7	0.7	1.0	1.7	2.5	3.2	3.3
70°	0.5	0.7	0.7	0.8	1.5	2.3	3.0	3.2
72.5°	0.5	0.5	0.7	0.8	1.3	2.0	2.7	2.8
75°	0.5	0.5	0.5	0.7	1.2	1.8	2.3	2.5
77.5°	0.5	0.5	0.5	0.7	1.0	1.5	2.2	2.2
80°	0.3	0.5	0.5	0.5	0.8	1.2	1.7	1.8
82.5°	0.3	0.3	0.3	0.5	0.7	1.0	1.3	1.3
85°	0.3	0.3	0.3	0.3	0.5	0.7	0.8	0.8
87.5°	0.2	0.3	0.3	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

(END OF REPORT)