

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: P1323524

Luminaire Tested: LDSQA3D02R559030D2WDE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

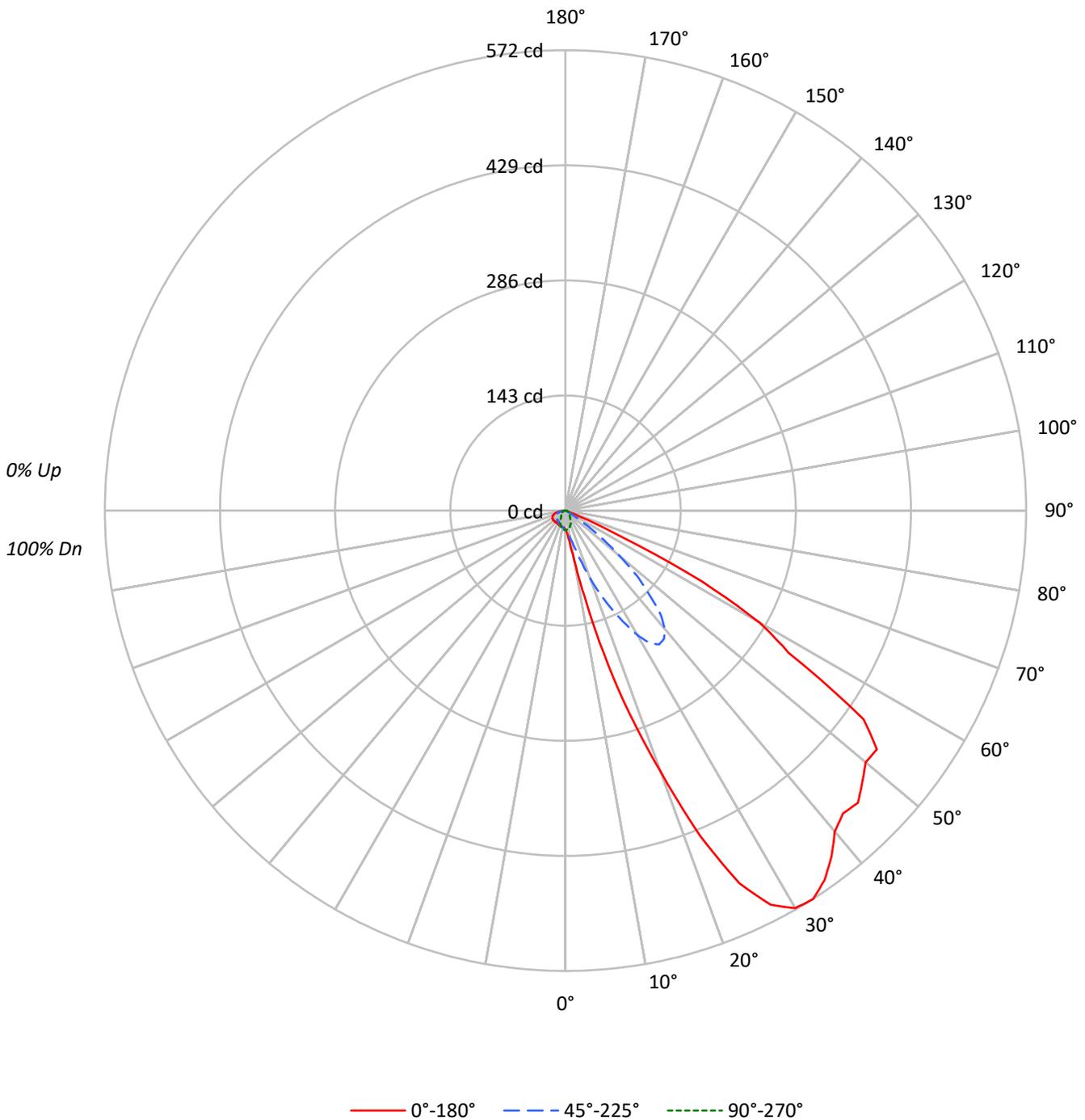
Test Method: LM-79-2019  
Report Number: P1323524  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R559030D2WDE010 3LSQCA45R 1MW  
Description: 3in Adjustable Dim to Warm LED luminaire with, R55 optic, 3000K CCT AND, 90CRI ,  
3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 368.1 lumens  
Efficiency: N/A  
Efficacy: 51.1 lumens/watt  
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	110	106	102	99	107	104	100	97	99	96	94	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29	27
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26	24
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	21

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

	0°	45°	90°	135°	180°
0°	4082	4082	4082	4082	4082
5°	5221	4772	4097	3821	3717
10°	10633	6086	3987	3637	3637
15°	32646	9325	3709	3530	3655
20°	63102	16330	3336	3464	3629
25°	97123	25388	2907	3344	3649
30°	113413	35498	2386	3301	3759
35°	117863	42659	1976	3280	3890
40°	116952	43053	1821	3440	4249
45°	125043	35633	1754	3726	4603
50°	130322	23524	1742	4019	5144
55°	135718	10239	1772	4384	5675
60°	95859	2342	1791	4822	6372
65°	31256	815	1712	5175	7172
70°	1007	806	1813	5589	8208
75°	865	865	1530	5856	9116
80°	694	992	1587	5852	9720
85°	593	1383	1976	5730	9683

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 137889 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.5	0.7
10°-20°	15.6	4.2
20°-30°	52.4	14.2
30°-40°	86.0	23.4
40°-50°	96.0	26.1
50°-60°	80.8	21.9
60°-70°	27.4	7.4
70°-80°	5.4	1.5
80°-90°	2.0	0.6
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°	70.5	19.2
0°-40°	156.5	42.5
0°-60°	333.3	90.5
0°-90°	368.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	368.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	24	24	24	24	24	
5°	30	28	24	22	22	4
15°	183	52	21	20	20	58
25°	511	134	15	18	19	230
35°	561	203	9	16	18	348
45°	513	146	7	15	19	392
55°	452	34	6	15	19	368
65°	77	2	4	13	18	104
75°	1	1	2	9	14	1
85°	0	1	1	3	5	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7	23.7
2.5°	26.0	26.0	26.0	26.0	26.0	26.0	25.7	24.7	24.1	23.1	22.8
5°	30.2	30.2	30.2	29.9	29.9	29.3	27.6	25.4	23.7	22.4	22.1
7.5°	39.0	38.7	38.0	37.7	36.7	36.4	30.6	26.0	23.4	21.8	21.5
10°	60.8	60.2	59.2	55.6	52.3	50.1	34.8	26.3	22.8	21.1	20.8
12.5°	109.6	108.3	103.4	95.9	86.8	82.3	41.6	26.7	21.8	20.5	20.5
15°	183.1	181.4	172.3	161.9	145.3	136.2	52.3	26.3	20.8	19.5	19.8
17.5°	264.3	259.8	250.4	236.7	214.3	203.5	68.3	25.7	19.5	18.9	19.5
20°	344.3	343.0	327.4	308.9	281.3	266.9	89.1	24.7	18.2	17.9	18.9
22.5°	438.0	432.4	415.9	396.0	358.0	339.1	111.5	23.4	16.9	16.9	18.2
25°	511.1	504.6	491.6	468.5	432.4	412.3	133.6	21.8	15.3	15.9	17.6
27.5°	552.1	544.6	534.9	515.0	487.1	469.2	155.7	19.8	13.7	15.0	16.9
30°	570.3	568.4	561.2	546.6	520.9	505.0	178.5	17.6	12.0	14.0	16.6
32.5°	572.3	573.2	570.3	560.9	541.4	527.7	195.4	15.6	10.7	13.3	15.9
35°	560.6	564.1	566.1	562.2	549.5	538.4	202.9	13.3	9.4	12.7	15.6
37.5°	542.4	548.9	555.4	556.3	548.5	541.4	200.9	11.4	8.8	12.4	15.6
40°	520.2	526.1	539.4	547.9	545.3	540.1	191.5	9.4	8.1	11.7	15.3
42.5°	510.2	511.5	525.8	540.1	539.4	535.2	174.9	7.5	7.5	11.7	15.3
45°	513.4	507.6	517.0	533.6	532.6	527.1	146.3	5.9	7.2	11.4	15.3
47.5°	499.8	491.6	507.6	527.1	523.5	515.4	121.0	4.2	6.8	11.1	15.0
50°	486.4	485.1	497.5	507.2	502.4	497.8	87.8	3.3	6.5	10.7	15.0
52.5°	487.4	485.1	486.4	486.1	476.3	471.5	60.2	2.6	6.2	10.4	15.0
55°	452.0	444.8	438.0	439.9	440.6	437.3	34.1	2.3	5.9	10.4	14.6
57.5°	328.4	326.5	333.9	355.1	371.6	373.6	16.6	2.3	5.5	10.1	14.3
60°	278.3	277.0	277.4	283.5	292.3	286.8	6.8	2.3	5.2	9.8	14.0
62.5°	191.8	204.5	209.7	224.0	218.2	210.4	2.6	2.6	4.9	9.1	13.7
65°	76.7	76.4	83.6	90.4	88.4	82.6	2.0	2.3	4.2	8.5	12.7
67.5°	17.9	16.3	14.0	12.0	10.1	8.1	2.0	2.3	3.9	7.8	12.0
70°	2.0	2.0	2.0	2.0	2.0	1.6	1.6	2.3	3.6	7.2	11.1
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.0	2.9	6.2	10.1
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.6	2.3	5.2	8.8
77.5°	1.0	1.0	1.0	1.3	1.0	1.3	1.3	1.6	2.0	4.2	7.5
80°	0.7	0.7	1.0	1.0	1.0	1.0	1.0	1.3	1.6	3.6	5.9
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.0	1.3	2.6	4.2
85°	0.3	0.3	0.3	0.3	0.3	0.7	0.7	1.0	1.0	2.0	2.9
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7	1.0	1.0	1.3
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):**

	157.5°	180°
0°	23.7	23.7
2.5°	22.4	22.4
5°	21.8	21.5
7.5°	21.1	21.1
10°	20.8	20.8
12.5°	20.5	20.8
15°	20.5	20.5
17.5°	19.8	20.2
20°	19.5	19.8
22.5°	19.2	19.5
25°	18.9	19.2
27.5°	18.5	18.9
30°	18.2	18.9
32.5°	17.9	18.5
35°	17.9	18.5
37.5°	17.9	18.9
40°	17.9	18.9
42.5°	17.9	18.9
45°	17.9	18.9
47.5°	17.9	18.9
50°	17.9	19.2
52.5°	17.9	19.2
55°	17.9	18.9
57.5°	17.6	18.9
60°	17.6	18.5
62.5°	17.2	18.2
65°	16.6	17.6
67.5°	15.9	17.2
70°	15.0	16.3
72.5°	14.0	15.0
75°	12.7	13.7
77.5°	11.1	11.7
80°	8.8	9.8
82.5°	6.8	7.5
85°	4.6	4.9
87.5°	2.0	2.3
90°	0.0	0.0

(END OF REPORT)