

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: P1323545

Luminaire Tested: LDSQA3D02R709030D2WDE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

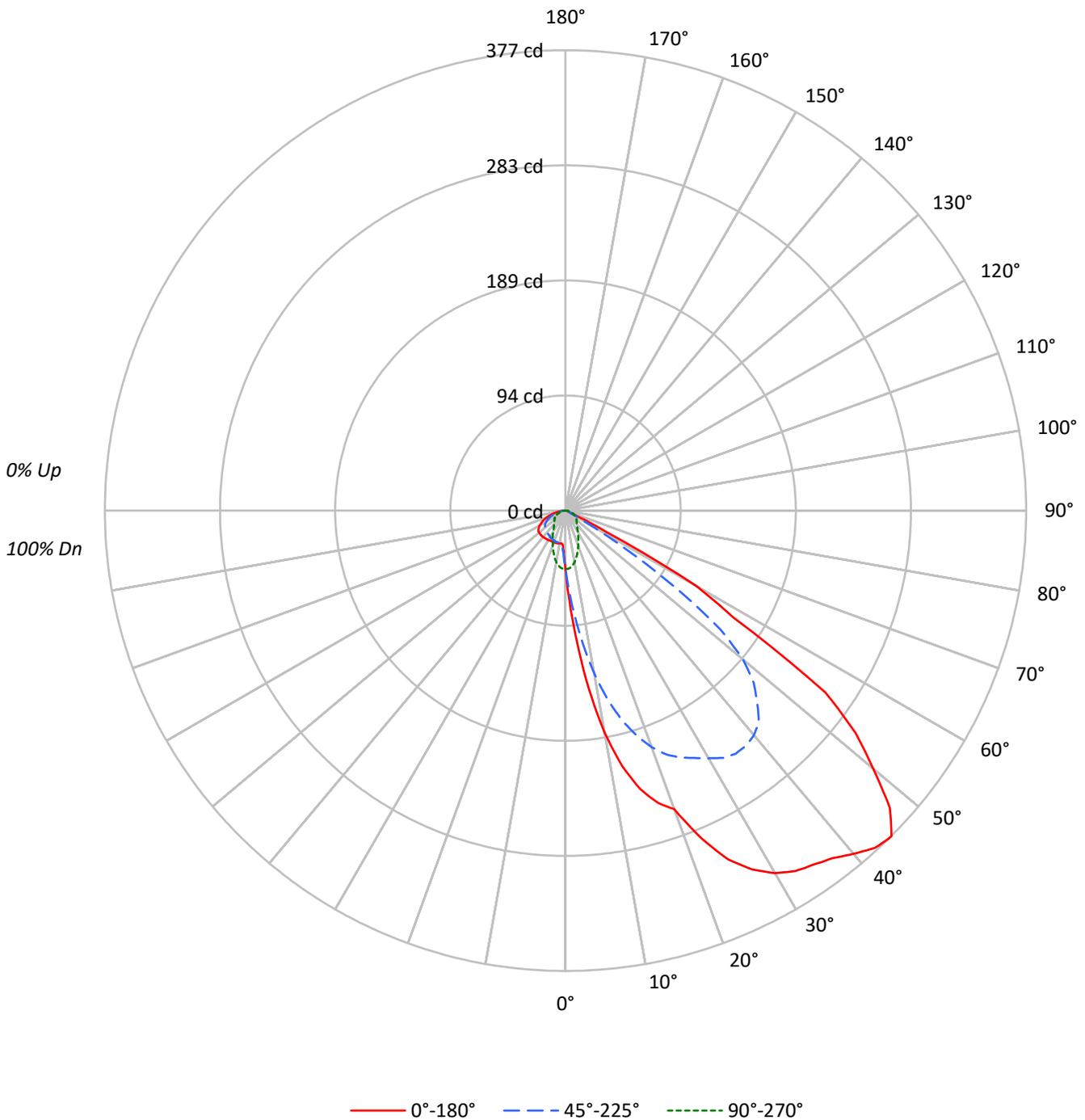
Test Method: LM-79-2019  
Report Number: P1323545  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R709030D2WDE010 3LSQCA45R 1MMS  
Description: 3in Adjustable Dim to Warm LED luminaire with, R70 optic, 3000K CCT AND, 90CRI ,  
3LSQCA45R 1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 326.0 lumens  
Efficiency: N/A  
Efficacy: 45.3 lumens/watt  
Spacing Criteria (0/90/45): 2.92 / 0.77 / 2.03  
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	50	30	10	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			100	
1	110	106	103	99	108	104	101	98	100	97	95	96	94	92	93	91	89	87			87	
2	101	94	88	83	99	92	87	82	89	84	80	86	82	78	83	79	77	75			75	
3	93	83	76	70	90	82	75	69	79	73	68	76	71	67	74	69	66	64			64	
4	85	74	66	59	83	72	65	59	70	63	58	68	62	57	66	61	57	54			54	
5	78	66	57	51	76	65	57	51	63	55	50	61	54	49	59	53	49	47			47	
6	72	59	50	44	70	58	50	44	56	49	43	54	48	43	53	47	43	41			41	
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	35			35	
8	61	48	40	34	60	47	39	34	46	39	33	45	38	33	44	38	33	31			31	
9	57	44	35	30	56	43	35	30	42	35	30	41	34	30	40	34	29	28			28	
10	53	40	32	27	52	39	32	27	38	31	27	37	31	26	37	31	26	25			25	

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

	0°	45°	90°	135°	180°
0°	8181	8181	8181	8181	8181
5°	18619	14902	8091	5117	4772
10°	32248	23661	7502	4669	4774
15°	42096	31612	6561	4761	4921
20°	47688	37791	5608	4820	5132
25°	59896	42395	4694	4884	5245
30°	68171	46574	4017	4972	5568
35°	74406	51090	3490	5067	5887
40°	82487	53957	3215	5261	6362
45°	91895	54022	3166	5553	6893
50°	88015	50800	3135	5841	7502
55°	77948	32909	3213	6155	8107
60°	42677	7061	3238	6269	8404
65°	3056	1712	3179	6235	8476
70°	1460	1662	2971	5891	8208
75°	1331	1730	2795	5656	7586
80°	1289	1587	2579	5157	7141
85°	1383	1976	2569	4545	6521

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 91895 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.2	1.9
10°-20°	26.5	8.1
20°-30°	50.8	15.6
30°-40°	71.9	22.0
40°-50°	81.3	24.9
50°-60°	64.4	19.8
60°-70°	17.4	5.3
70°-80°	5.8	1.8
80°-90°	1.8	0.5
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°	83.5	25.6
0°-40°	155.4	47.7
0°-60°	301.1	92.4
0°-90°	326.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	326.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	48	48	48	48	48	
5°	108	86	47	30	28	13
15°	236	177	37	27	28	67
25°	315	223	25	26	28	144
35°	354	243	17	24	28	223
45°	377	222	13	23	28	282
55°	260	110	11	20	27	211
65°	8	4	8	15	21	27
75°	2	3	4	8	11	2
85°	1	1	1	2	3	1
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	45°	67.5°	90°	112.5°
0°	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5	47.5
2.5°	73.8	73.8	73.5	72.2	71.6	69.9	68.6	65.1	56.3	47.8	41.0
5°	107.7	109.3	107.0	106.7	104.7	101.8	99.9	86.2	65.1	46.8	35.1
7.5°	147.7	148.3	147.7	144.4	141.5	136.6	132.1	110.6	73.8	45.2	30.9
10°	184.4	183.4	181.5	179.2	175.0	169.8	162.0	135.3	82.3	42.9	28.3
12.5°	214.3	214.0	211.7	209.5	204.3	197.4	189.6	157.7	89.4	40.0	27.0
15°	236.1	236.1	233.9	231.3	226.4	220.8	212.1	177.3	95.3	36.8	25.7
17.5°	250.8	250.1	248.5	246.5	242.6	237.1	230.3	192.9	99.2	33.5	25.4
20°	260.2	259.9	258.6	255.6	252.4	248.2	242.0	206.2	100.8	30.6	25.0
22.5°	290.4	287.8	283.0	276.8	269.0	258.9	250.4	216.3	100.2	27.3	24.4
25°	315.2	314.2	309.0	301.5	291.1	278.1	264.1	223.1	96.9	24.7	23.7
27.5°	331.4	329.8	324.9	316.8	305.7	293.1	280.0	228.3	92.4	22.4	22.8
30°	342.8	341.8	337.0	327.9	316.5	302.5	289.1	234.2	86.2	20.2	21.8
32.5°	350.0	349.0	344.1	336.0	324.9	310.3	295.0	240.0	78.7	18.2	20.8
35°	353.9	352.9	347.4	340.2	329.8	315.5	299.2	243.0	69.6	16.6	19.8
37.5°	358.8	356.8	349.3	340.5	330.1	316.8	300.5	242.6	60.5	15.3	19.2
40°	366.9	361.7	350.9	339.2	328.5	315.2	299.6	240.0	50.4	14.3	18.5
42.5°	374.7	367.2	351.3	337.3	325.3	312.2	296.0	234.2	39.4	13.7	18.2
45°	377.3	366.2	346.7	332.7	321.3	308.0	291.1	221.8	26.7	13.0	17.6
47.5°	360.1	351.9	335.7	325.3	314.5	301.5	283.9	208.8	15.3	12.4	16.9
50°	328.5	323.3	314.2	307.7	301.8	292.7	275.5	189.6	9.1	11.7	16.3
52.5°	299.2	297.6	291.1	285.9	282.6	278.4	262.8	160.0	7.5	11.4	15.6
55°	259.6	254.3	252.7	250.8	257.6	257.3	236.1	109.6	7.2	10.7	15.0
57.5°	163.0	165.2	173.7	189.3	207.8	218.6	217.9	58.5	6.8	10.1	14.0
60°	123.9	123.6	126.2	132.7	146.4	161.6	176.0	20.5	6.5	9.4	13.3
62.5°	37.1	38.1	45.9	67.3	80.7	99.5	90.7	4.9	6.2	8.5	12.0
65°	7.5	7.8	7.8	8.8	10.7	16.3	19.8	4.2	5.9	7.8	11.1
67.5°	3.3	3.3	3.3	3.6	3.6	4.2	3.6	3.9	5.2	6.8	9.8
70°	2.9	2.9	2.9	2.9	2.9	2.9	3.3	3.3	4.6	5.9	8.5
72.5°	2.3	2.3	2.3	2.6	2.6	2.6	2.6	2.9	3.9	4.9	7.2
75°	2.0	2.0	2.0	2.0	2.3	2.3	2.3	2.6	3.3	4.2	5.9
77.5°	1.6	1.6	1.6	1.6	1.6	2.0	2.0	2.0	2.6	3.3	4.9
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.6	2.0	2.6	3.6
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.6	2.0	2.6
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.0	1.3	1.6
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7	0.7	1.0
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):**

	135°	157.5°	180°
0°	47.5	47.5	47.5
2.5°	36.1	34.2	33.2
5°	29.6	28.0	27.6
7.5°	27.3	27.0	27.0
10°	26.7	27.0	27.3
12.5°	26.7	27.3	27.6
15°	26.7	27.3	27.6
17.5°	26.7	27.3	27.6
20°	26.3	27.3	28.0
22.5°	26.0	27.3	27.6
25°	25.7	27.3	27.6
27.5°	25.4	27.0	27.6
30°	25.0	27.0	28.0
32.5°	24.4	27.0	28.0
35°	24.1	27.0	28.0
37.5°	23.7	27.0	28.3
40°	23.4	27.0	28.3
42.5°	23.1	27.0	28.3
45°	22.8	26.7	28.3
47.5°	22.1	26.7	28.3
50°	21.8	26.3	28.0
52.5°	21.1	26.0	28.0
55°	20.5	25.4	27.0
57.5°	19.5	24.4	25.7
60°	18.2	23.1	24.4
62.5°	16.6	21.5	22.4
65°	15.3	19.5	20.8
67.5°	13.3	17.2	18.5
70°	11.7	15.0	16.3
72.5°	10.1	12.7	14.0
75°	8.5	10.4	11.4
77.5°	6.5	8.5	9.1
80°	5.2	6.5	7.2
82.5°	3.6	4.6	4.9
85°	2.3	2.9	3.3
87.5°	1.0	1.3	1.3
90°	0.0	0.0	0.0

(END OF REPORT)