

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: P1323691

Luminaire Tested: LDSQA3D05R709030D2WDE010 3LSQCA45R 1MMS

Issue Date: 1/29/2026

**Test Information**

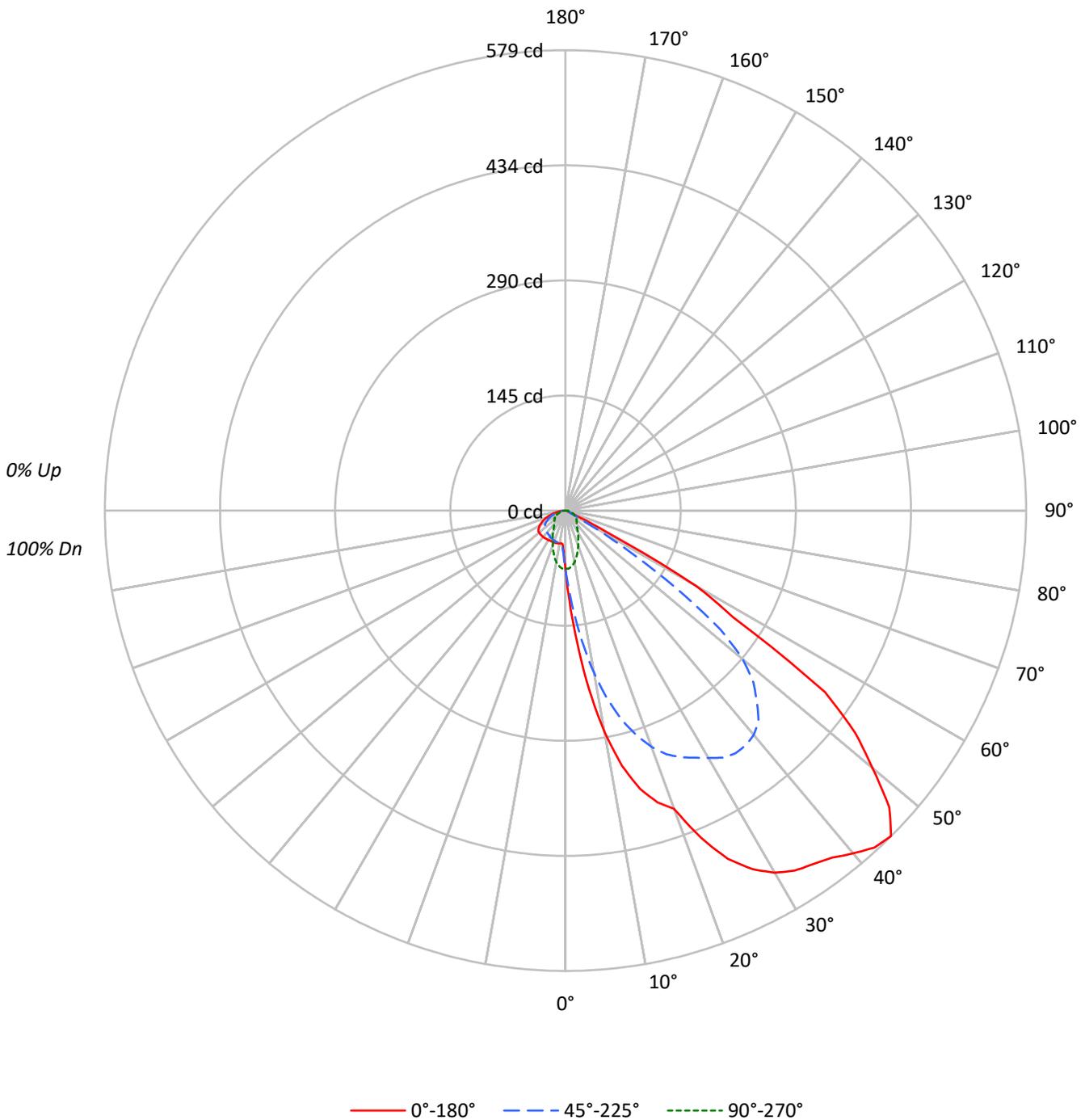
Test Method: LM-79-2019  
Report Number: P1323691  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-83)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R709030D2WDE010 3LSQCA45R 1MMS  
Description: 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: 500.0 lumens  
Efficiency: N/A  
Efficacy: 45.0 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): 11.1  
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°	12538	12538	12538	12538	12538
5°	28543	22855	12413	7849	7330
10°	49456	36287	11507	7153	7327
15°	64580	48479	10056	7292	7560
20°	73145	57970	8596	7404	7863
25°	91859	65027	7202	7487	8057
30°	104564	71433	6145	7636	8531
35°	114100	78337	5340	7758	9020
40°	126507	82779	4924	8071	9757
45°	140948	82859	4871	8500	10570
50°	134984	77914	4823	8949	11494
55°	119534	50474	4954	9428	12431
60°	65479	10816	4994	9610	12882
65°	4686	2649	4890	9536	13000
70°	2266	2518	4532	9064	12538
75°	1996	2662	4325	8650	11645
80°	1984	2479	3967	7934	10910
85°	1976	2964	3952	6916	9880

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 140948 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	9.5	1.9
10°-20°	40.6	8.1
20°-30°	78.0	15.6
30°-40°	110.2	22.0
40°-50°	124.7	24.9
50°-60°	98.8	19.8
60°-70°	26.6	5.3
70°-80°	8.9	1.8
80°-90°	2.7	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°	128.1	25.6
0°-40°	238.3	47.7
0°-60°	461.8	92.4
0°-90°	500.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	500.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	73	73	73	73	73	
5°	165	132	72	45	42	20
15°	362	272	56	41	42	102
25°	483	342	38	39	42	222
35°	543	373	25	37	43	342
45°	579	340	20	35	43	433
55°	398	168	16	31	41	323
65°	12	6	12	23	32	41
75°	3	4	6	13	18	3
85°	1	2	2	4	5	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°	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8	72.8
2.5°	113.2	113.2	112.7	110.7	109.7	107.3	105.3	99.8	86.3	73.3	62.9
5°	165.1	167.6	164.1	163.6	160.6	156.1	153.1	132.2	99.8	71.8	53.9
7.5°	226.5	227.5	226.5	221.5	217.0	209.5	202.5	169.6	113.2	69.3	47.4
10°	282.8	281.4	278.4	274.9	268.4	260.4	248.4	207.5	126.2	65.8	43.4
12.5°	328.7	328.2	324.8	321.3	313.3	302.8	290.8	241.9	137.2	61.4	41.4
15°	362.2	362.2	358.7	354.7	347.2	338.7	325.3	271.9	146.2	56.4	39.4
17.5°	384.6	383.6	381.1	378.1	372.1	363.7	353.2	295.8	152.1	51.4	38.9
20°	399.1	398.6	396.6	392.1	387.1	380.6	371.1	316.3	154.6	46.9	38.4
22.5°	445.5	441.5	434.0	424.5	412.5	397.1	384.1	331.7	153.6	41.9	37.4
25°	483.4	481.9	473.9	462.4	446.5	426.5	405.1	342.2	148.7	37.9	36.4
27.5°	508.3	505.8	498.4	485.9	468.9	449.5	429.5	350.2	141.7	34.4	34.9
30°	525.8	524.3	516.8	502.8	485.4	463.9	443.5	359.2	132.2	30.9	33.4
32.5°	536.8	535.3	527.8	515.3	498.4	475.9	452.5	368.2	120.7	27.9	31.9
35°	542.7	541.3	532.8	521.8	505.8	483.9	458.9	372.6	106.8	25.4	30.4
37.5°	550.2	547.2	535.8	522.3	506.3	485.9	460.9	372.1	92.8	23.4	29.4
40°	562.7	554.7	538.3	520.3	503.8	483.4	459.4	368.2	77.3	21.9	28.4
42.5°	574.7	563.2	538.8	517.3	498.9	478.9	454.0	359.2	60.4	21.0	27.9
45°	578.7	561.7	531.8	510.3	492.9	472.4	446.5	340.2	40.9	20.0	26.9
47.5°	552.2	539.8	514.8	498.9	482.4	462.4	435.5	320.3	23.4	19.0	25.9
50°	503.8	495.9	481.9	471.9	462.9	449.0	422.5	290.8	14.0	18.0	24.9
52.5°	458.9	456.4	446.5	438.5	433.5	427.0	403.1	245.4	11.5	17.5	23.9
55°	398.1	390.1	387.6	384.6	395.1	394.6	362.2	168.1	11.0	16.5	22.9
57.5°	249.9	253.4	266.4	290.3	318.8	335.2	334.2	89.8	10.5	15.5	21.5
60°	190.1	189.6	193.6	203.5	224.5	247.9	269.9	31.4	10.0	14.5	20.5
62.5°	56.9	58.4	70.3	103.3	123.7	152.6	139.2	7.5	9.5	13.0	18.5
65°	11.5	12.0	12.0	13.5	16.5	24.9	30.4	6.5	9.0	12.0	17.0
67.5°	5.0	5.0	5.0	5.5	5.5	6.5	5.5	6.0	8.0	10.5	15.0
70°	4.5	4.5	4.5	4.5	4.5	4.5	5.0	5.0	7.0	9.0	13.0
72.5°	3.5	3.5	3.5	4.0	4.0	4.0	4.0	4.5	6.0	7.5	11.0
75°	3.0	3.0	3.0	3.0	3.5	3.5	3.5	4.0	5.0	6.5	9.0
77.5°	2.5	2.5	2.5	2.5	2.5	3.0	3.0	3.0	4.0	5.0	7.5
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.5	3.0	4.0	5.5
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.5	3.0	4.0
85°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	2.0	2.5
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.5
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°	72.8	72.8	72.8
2.5°	55.4	52.4	50.9
5°	45.4	42.9	42.4
7.5°	41.9	41.4	41.4
10°	40.9	41.4	41.9
12.5°	40.9	41.9	42.4
15°	40.9	41.9	42.4
17.5°	40.9	41.9	42.4
20°	40.4	41.9	42.9
22.5°	39.9	41.9	42.4
25°	39.4	41.9	42.4
27.5°	38.9	41.4	42.4
30°	38.4	41.4	42.9
32.5°	37.4	41.4	42.9
35°	36.9	41.4	42.9
37.5°	36.4	41.4	43.4
40°	35.9	41.4	43.4
42.5°	35.4	41.4	43.4
45°	34.9	40.9	43.4
47.5°	33.9	40.9	43.4
50°	33.4	40.4	42.9
52.5°	32.4	39.9	42.9
55°	31.4	38.9	41.4
57.5°	29.9	37.4	39.4
60°	27.9	35.4	37.4
62.5°	25.4	32.9	34.4
65°	23.4	29.9	31.9
67.5°	20.5	26.4	28.4
70°	18.0	22.9	24.9
72.5°	15.5	19.5	21.5
75°	13.0	16.0	17.5
77.5°	10.0	13.0	14.0
80°	8.0	10.0	11.0
82.5°	5.5	7.0	7.5
85°	3.5	4.5	5.0
87.5°	1.5	2.0	2.0
90°	0.0	0.0	0.0

(END OF REPORT)