

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: P1323816

Luminaire Tested: LDSQA3D09R559030D2WDE010 3LSQCA45R 1MW

Issue Date: 1/29/2026

**Test Information**

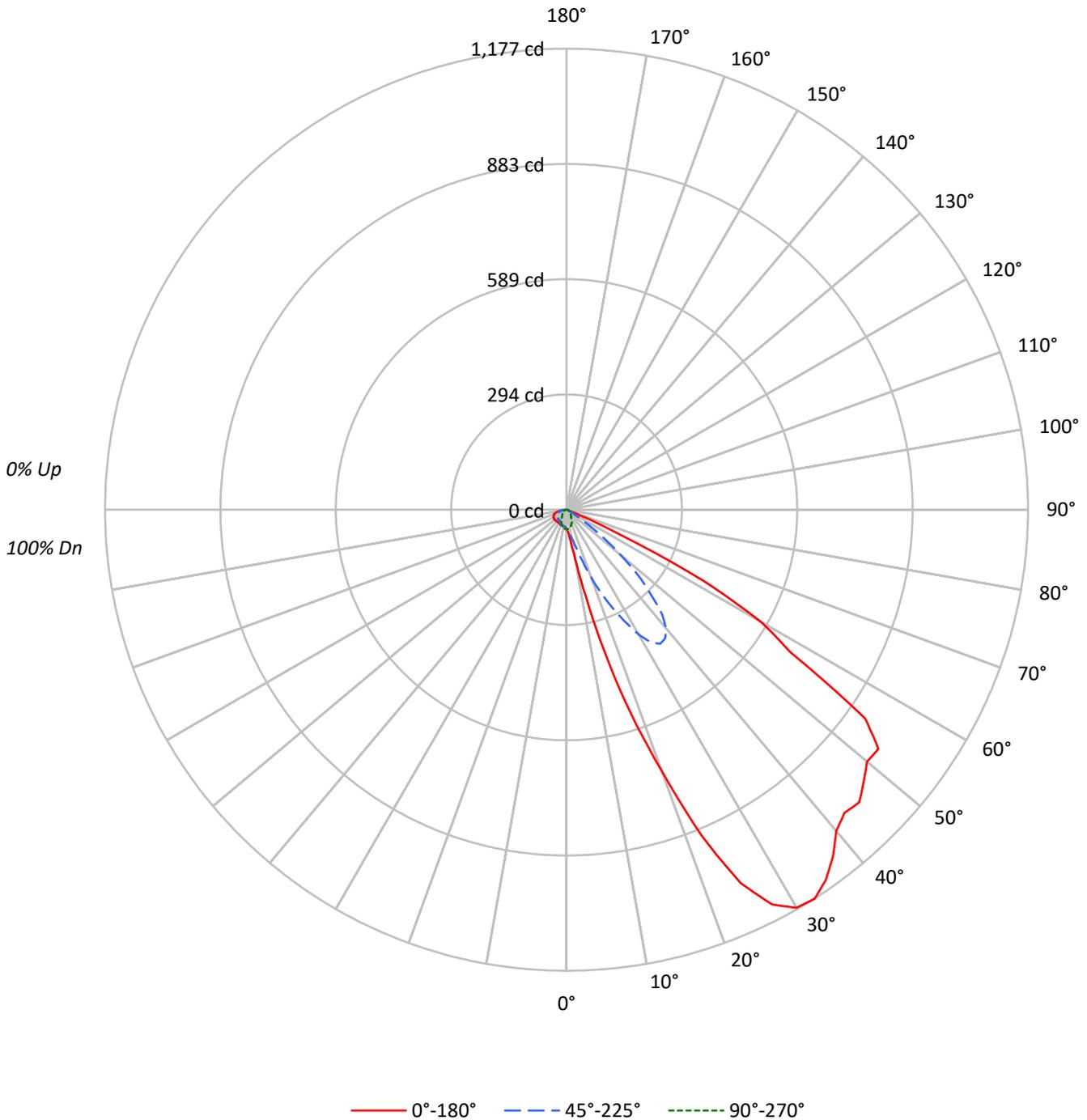
Test Method: LM-79-2019  
Report Number: P1323816  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R559030D2WDE010 3LSQCA45R 1MW  
Description: 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: 757.0 lumens  
Efficiency: N/A  
Efficacy: 51.5 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): 14.7  
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	100	100
1	110	106	102	99	107	104	100	97	99	97	94	95	93	91	92	90	88	86	86	86	86
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73	73	73	73
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61	61	61	61
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51	51	51	51
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43	43	43	43
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37	37	37	37
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32	32	32	32
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29	27	27	27	27
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26	24	24	24	24
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	21	21	21	21

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

	0°	45°	90°	135°	180°
0°	8404	8404	8404	8404	8404
5°	10753	9837	8437	7866	7624
10°	21877	12521	8184	7485	7485
15°	67147	19203	7631	7275	7506
20°	129814	33594	6873	7111	7478
25°	199794	52238	5967	6860	7506
30°	233309	73023	4912	6781	7716
35°	242434	87756	4079	6749	8010
40°	240603	88579	3755	7059	8723
45°	257223	73311	3580	7648	9450
50°	268092	48388	3590	8252	10583
55°	279153	21078	3603	9038	11650
60°	197195	4822	3686	9920	13123
65°	64306	1630	3545	10636	14711
70°	2014	1662	3726	11430	16818
75°	1797	1797	3127	12044	18698
80°	1289	1984	3273	11901	19935
85°	1383	2569	3952	11856	19760

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 52.5°  
 Luminance: 283642 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.2	0.7
10°-20°	32.1	4.2
20°-30°	107.7	14.2
30°-40°	176.9	23.4
40°-50°	197.4	26.1
50°-60°	166.1	21.9
60°-70°	56.4	7.4
70°-80°	11.0	1.5
80°-90°	4.1	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°	145.1	19.2
0°-40°	322.0	42.5
0°-60°	685.5	90.6
0°-90°	757.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	757.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	49	49	49	49	49	
5°	62	57	49	46	44	8
15°	377	108	43	41	42	119
25°	1051	275	31	36	40	473
35°	1153	417	19	32	38	716
45°	1056	301	15	31	39	807
55°	930	70	12	30	39	757
65°	158	4	9	26	36	214
75°	3	3	5	18	28	3
85°	1	1	2	6	10	1
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°	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8	48.8
2.5°	53.5	53.5	53.5	53.5	53.5	53.5	52.8	50.8	49.5	47.5	46.8
5°	62.2	62.2	62.2	61.5	61.5	60.2	56.9	52.2	48.8	46.2	45.5
7.5°	80.3	79.6	78.3	77.6	75.6	74.9	62.9	53.5	48.2	44.8	44.1
10°	125.1	123.7	121.7	114.4	107.7	103.0	71.6	54.2	46.8	43.5	42.8
12.5°	225.4	222.7	212.7	197.3	178.6	169.2	85.6	54.8	44.8	42.1	42.1
15°	376.6	373.2	354.5	333.1	299.0	280.3	107.7	54.2	42.8	40.1	40.8
17.5°	543.8	534.4	515.0	486.9	440.8	418.7	140.5	52.8	40.1	38.8	40.1
20°	708.3	705.6	673.5	635.4	578.6	549.1	183.3	50.8	37.5	36.8	38.8
22.5°	900.9	889.6	855.5	814.7	736.4	697.6	229.4	48.2	34.8	34.8	37.5
25°	1051.4	1038.1	1011.3	963.8	889.6	848.1	274.9	44.8	31.4	32.8	36.1
27.5°	1135.7	1120.3	1100.3	1059.5	1001.9	965.2	320.4	40.8	28.1	30.8	34.8
30°	1173.2	1169.2	1154.4	1124.3	1071.5	1038.7	367.2	36.1	24.7	28.8	34.1
32.5°	1177.2	1179.2	1173.2	1153.8	1113.6	1085.6	402.0	32.1	22.1	27.4	32.8
35°	1153.1	1160.5	1164.5	1156.4	1130.4	1107.6	417.4	27.4	19.4	26.1	32.1
37.5°	1115.6	1129.0	1142.4	1144.4	1128.4	1113.6	413.4	23.4	18.1	25.4	32.1
40°	1070.2	1082.2	1109.6	1127.0	1121.7	1111.0	394.0	19.4	16.7	24.1	31.4
42.5°	1049.4	1052.1	1081.5	1111.0	1109.6	1100.9	359.8	15.4	15.4	24.1	31.4
45°	1056.1	1044.1	1063.5	1097.6	1095.6	1084.2	301.0	12.0	14.7	23.4	31.4
47.5°	1028.0	1011.3	1044.1	1084.2	1076.9	1060.1	248.8	8.7	14.0	22.7	30.8
50°	1000.6	997.9	1023.3	1043.4	1033.4	1024.0	180.6	6.7	13.4	22.1	30.8
52.5°	1002.6	997.9	1000.6	999.9	979.9	969.8	123.7	5.4	12.7	21.4	30.8
55°	929.7	915.0	900.9	905.0	906.3	899.6	70.2	4.7	12.0	21.4	30.1
57.5°	675.5	671.5	686.9	730.4	764.5	768.5	34.1	4.7	11.4	20.7	29.4
60°	572.5	569.9	570.5	583.2	601.3	589.9	14.0	4.7	10.7	20.1	28.8
62.5°	394.6	420.7	431.4	460.8	448.8	432.7	5.4	5.4	10.0	18.7	28.1
65°	157.8	157.2	171.9	185.9	181.9	169.9	4.0	4.7	8.7	17.4	26.1
67.5°	36.8	33.4	28.8	24.7	20.7	16.7	4.0	4.7	8.0	16.1	24.7
70°	4.0	4.0	4.0	4.0	4.0	3.3	3.3	4.7	7.4	14.7	22.7
72.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.0	6.0	12.7	20.7
75°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.3	4.7	10.7	18.1
77.5°	2.0	2.0	2.0	2.7	2.0	2.7	2.7	3.3	4.0	8.7	15.4
80°	1.3	1.3	2.0	2.0	2.0	2.0	2.0	2.7	3.3	7.4	12.0
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	2.0	2.0	2.7	5.4	8.7
85°	0.7	0.7	0.7	0.7	0.7	1.3	1.3	2.0	2.0	4.0	6.0
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	1.3	1.3	2.0	2.0	2.7
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°	48.8	48.8
2.5°	46.2	46.2
5°	44.8	44.1
7.5°	43.5	43.5
10°	42.8	42.8
12.5°	42.1	42.8
15°	42.1	42.1
17.5°	40.8	41.5
20°	40.1	40.8
22.5°	39.5	40.1
25°	38.8	39.5
27.5°	38.1	38.8
30°	37.5	38.8
32.5°	36.8	38.1
35°	36.8	38.1
37.5°	36.8	38.8
40°	36.8	38.8
42.5°	36.8	38.8
45°	36.8	38.8
47.5°	36.8	38.8
50°	36.8	39.5
52.5°	36.8	39.5
55°	36.8	38.8
57.5°	36.1	38.8
60°	36.1	38.1
62.5°	35.4	37.5
65°	34.1	36.1
67.5°	32.8	35.4
70°	30.8	33.4
72.5°	28.8	30.8
75°	26.1	28.1
77.5°	22.7	24.1
80°	18.1	20.1
82.5°	14.0	15.4
85°	9.4	10.0
87.5°	4.0	4.7
90°	0.0	0.0

(END OF REPORT)