

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: P1326753

Luminaire Tested: LDSQA3D09R45W2N902750DE010 3LSQCA30R 1MMS\_3000K

Issue Date: 1/29/2026

**Test Information**

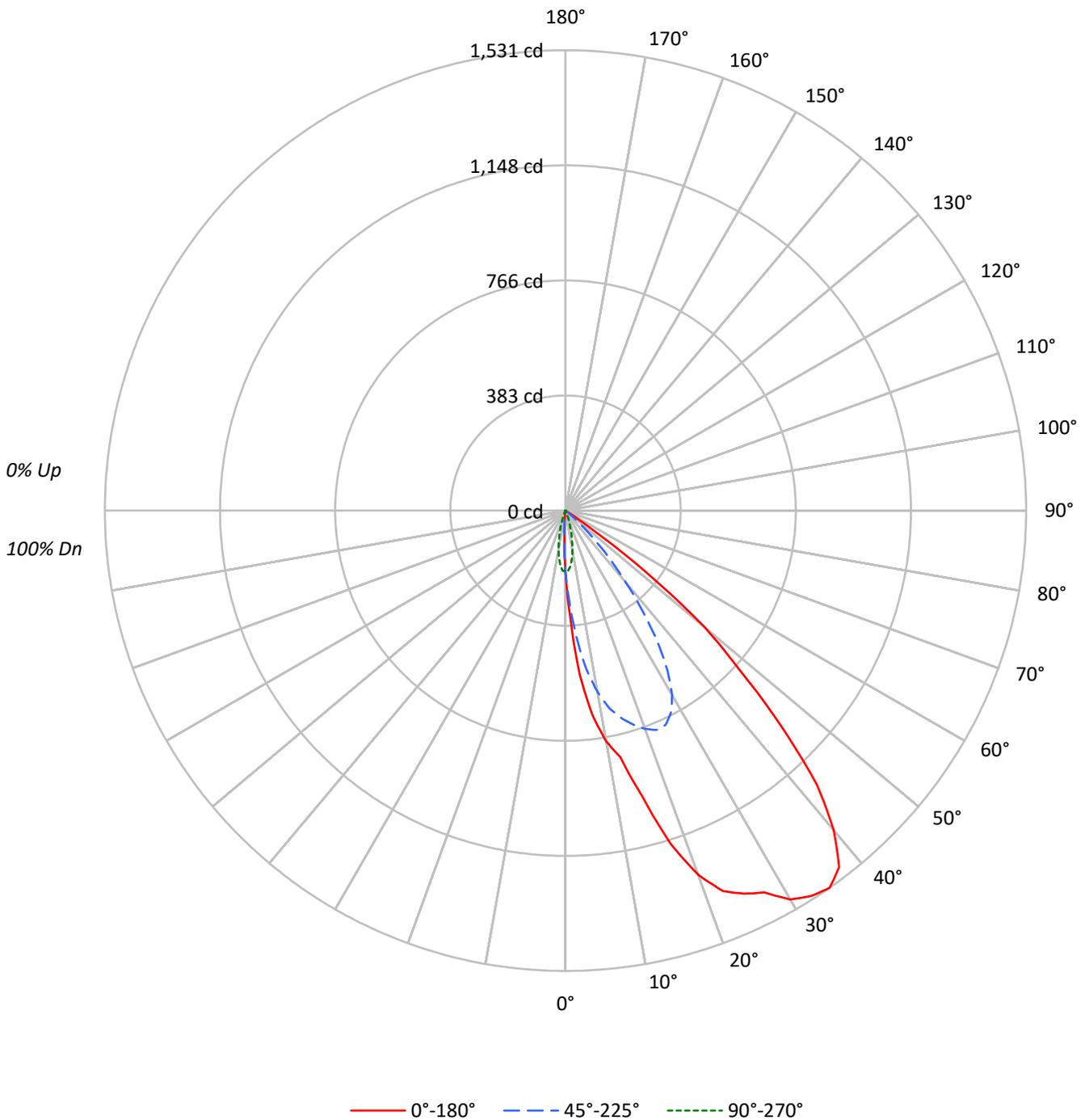
Test Method: LM-79-2019  
Report Number: P1326753  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R45W2N902750DE010 3LSQCA30R 1MMS\_3000K  
Description: 3in Adjustable Tunable White LED luminaire with, R45 optic, 3000K CCT AND, 90CRI ,  
3LSQCA30R 1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 649.0 lumens  
Efficiency: N/A  
Efficacy: 72.1 lumens/watt  
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.26  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 9  
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	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	96	94	93	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	82	79	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	76	72	68	67
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	70	65	62	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	64	59	56	54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	59	54	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	55	50	46	44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	47	42	38	37

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

	0°	45°	90°	135°	180°
0°	34720	34720	34720	34720	34720
5°	94773	72921	32121	6448	2420
10°	136109	106974	23224	612	507
15°	175231	127233	12356	214	0
20°	236169	141580	4692	0	0
25°	267120	149551	1216	0	0
30°	296926	140996	119	0	0
35°	321864	112439	0	0	0
40°	311961	70594	0	0	0
45°	247310	33636	0	0	0
50°	161857	4207	0	0	0
55°	27804	0	0	0	0
60°	0	0	207	0	0
65°	0	245	245	0	0
70°	0	302	604	0	0
75°	0	399	799	0	0
80°	0	595	1190	595	0
85°	0	1186	2371	1186	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 247310 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	24.0	3.7
10°-20°	92.5	14.2
20°-30°	173.1	26.7
30°-40°	202.0	31.1
40°-50°	131.7	20.3
50°-60°	24.5	3.8
60°-70°	0.2	0.0
70°-80°	0.5	0.1
80°-90°	0.6	0.1
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°	289.5	44.6
0°-40°	491.6	75.7
0°-60°	647.8	99.8
0°-90°	649.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	649.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	202	202	202	202	202	
5°	548	422	186	37	14	59
15°	983	714	69	1	0	293
25°	1406	787	6	0	0	650
35°	1531	535	0	0	0	939
45°	1015	138	0	0	0	772
55°	93	0	0	0	0	161
65°	0	1	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	1	1	0	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°	201.6	201.6	201.6	201.6	201.6	201.6	201.6	201.6	201.6	201.6	201.6
2.5°	355.4	358.3	352.4	350.1	342.5	344.3	331.5	326.2	318.1	304.7	298.3
5°	548.2	542.9	538.3	528.4	522.5	506.8	489.3	469.5	445.7	421.8	394.4
7.5°	685.7	681.6	679.8	671.7	660.0	643.7	621.0	595.9	565.1	533.0	491.7
10°	778.3	774.2	767.2	759.1	749.7	736.3	714.2	686.8	653.0	611.7	563.3
12.5°	838.9	838.3	826.6	817.3	805.7	794.0	771.3	749.2	716.0	673.4	618.7
15°	982.8	973.4	958.3	932.1	899.5	869.2	832.5	797.5	761.4	713.6	652.5
17.5°	1162.2	1151.7	1126.1	1092.9	1040.4	982.8	919.8	864.5	810.3	745.7	673.4
20°	1288.6	1284.5	1263.0	1224.5	1168.6	1092.3	1009.6	931.5	855.2	772.5	683.3
22.5°	1369.6	1367.2	1358.5	1332.3	1275.2	1189.6	1083.0	978.1	886.1	789.4	680.4
25°	1405.7	1408.6	1409.8	1397.0	1350.9	1263.6	1137.1	1013.6	903.5	787.0	658.3
27.5°	1431.3	1431.3	1436.0	1430.2	1383.6	1291.5	1158.1	1025.9	897.7	758.5	611.7
30°	1493.1	1491.9	1494.8	1479.1	1414.4	1300.3	1148.8	1006.1	864.5	709.0	544.7
32.5°	1519.9	1521.0	1520.5	1495.4	1420.3	1294.4	1126.1	968.2	803.3	631.5	456.1
35°	1530.9	1525.7	1504.1	1447.1	1352.1	1216.9	1062.0	904.1	717.7	534.8	360.0
37.5°	1494.2	1479.1	1431.3	1353.3	1237.3	1107.4	956.0	789.4	604.1	419.4	270.9
40°	1387.6	1367.8	1307.8	1213.5	1107.4	990.3	830.7	654.8	472.4	314.0	189.9
42.5°	1236.8	1214.0	1149.4	1067.2	970.5	847.6	688.6	512.6	346.0	216.7	120.6
45°	1015.4	1002.6	965.3	896.0	801.0	673.4	527.8	374.0	239.4	138.1	61.8
47.5°	785.3	769.0	742.2	694.4	615.2	494.0	369.3	254.0	153.8	68.2	12.8
50°	604.1	584.9	552.3	499.2	416.5	329.7	239.4	158.5	78.1	15.7	0.6
52.5°	347.8	351.9	336.1	302.3	256.3	197.5	138.6	79.8	17.5	0.6	0.0
55°	92.6	100.2	97.9	105.4	92.6	78.1	57.7	15.1	1.2	0.0	0.0
57.5°	0.0	0.0	0.6	1.2	3.5	5.2	1.7	0.6	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
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°	201.6	201.6	201.6	201.6	201.6	201.6	201.6	201.6
2.5°	283.7	271.5	256.3	200.4	150.9	108.4	84.5	78.1
5°	368.2	338.5	300.0	185.8	93.2	37.3	16.9	14.0
7.5°	448.0	404.3	335.0	162.5	47.2	9.3	4.7	4.1
10°	509.7	450.9	360.6	132.8	17.5	3.5	2.9	2.9
12.5°	552.3	480.6	369.9	100.8	6.4	1.7	1.7	1.2
15°	576.7	492.3	361.2	69.3	2.3	1.2	0.0	0.0
17.5°	584.3	487.6	337.9	43.7	0.6	0.0	0.0	0.0
20°	577.9	464.9	301.2	25.6	0.0	0.0	0.0	0.0
22.5°	556.9	429.3	256.9	14.0	0.0	0.0	0.0	0.0
25°	517.9	379.2	205.1	6.4	0.0	0.0	0.0	0.0
27.5°	454.4	314.6	154.4	2.3	0.0	0.0	0.0	0.0
30°	382.2	245.3	109.5	0.6	0.0	0.0	0.0	0.0
32.5°	298.3	180.6	70.5	0.0	0.0	0.0	0.0	0.0
35°	224.3	126.4	41.9	0.0	0.0	0.0	0.0	0.0
37.5°	156.1	79.8	22.1	0.0	0.0	0.0	0.0	0.0
40°	97.3	43.1	7.6	0.0	0.0	0.0	0.0	0.0
42.5°	54.2	15.1	0.6	0.0	0.0	0.0	0.0	0.0
45°	12.8	1.2	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0
60°	0.0	0.6	0.6	0.6	0.0	0.0	0.0	0.0
62.5°	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0
65°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
67.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
70°	0.6	0.6	0.6	1.2	0.6	0.0	0.0	0.0
72.5°	0.6	0.6	1.2	1.2	0.6	0.0	0.0	0.0
75°	0.6	0.6	1.2	1.2	0.6	0.0	0.0	0.0
77.5°	0.6	1.2	1.2	1.2	0.6	0.6	0.0	0.0
80°	0.6	1.2	1.2	1.2	1.2	0.6	0.0	0.0
82.5°	0.6	1.2	1.2	1.2	1.2	0.6	0.0	0.0
85°	0.6	1.2	1.2	1.2	0.6	0.6	0.0	0.0
87.5°	0.6	1.2	1.2	1.2	1.2	0.6	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)