

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: P1326801

Luminaire Tested: LDSQA3D09R45W2N902765DE010 3LSQCA30R 1MMS_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1326801
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: LDSQA3D09R45W2N902765DE010 3LSQCA30R 1MMS_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R45 optic, 4000K CCT AND, 90CRI ,
3LSQCA30R 1MMS TRIM
Light Source: -
Ballast/Driver: -

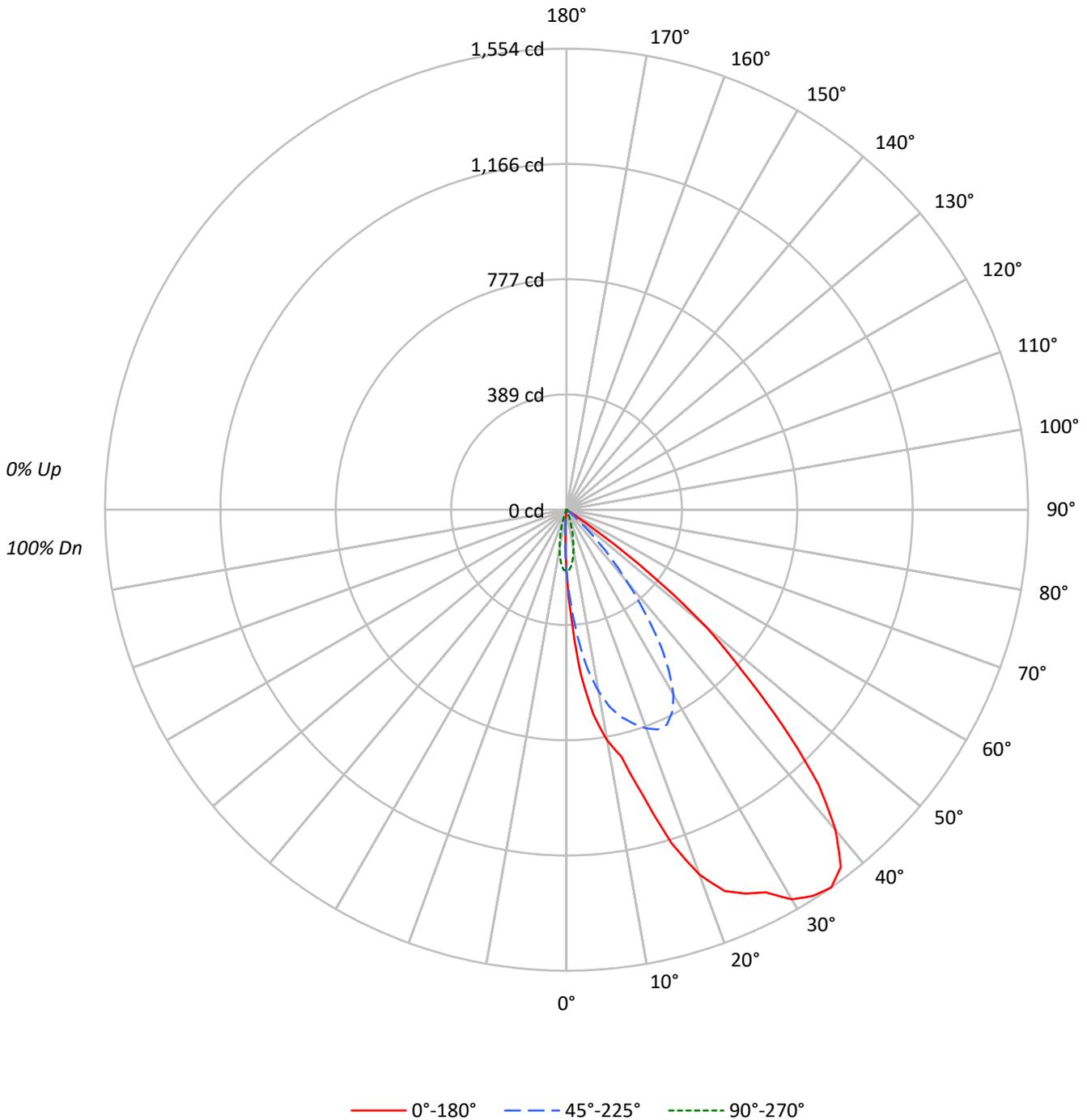
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 659.0 lumens
Efficiency: N/A
Efficacy: 73.2 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	100				
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91				
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82				
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74				
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67				
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60				
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54				
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	49				
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44				
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40				
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	35254	35254	35254	35254	35254
5°	96225	74045	32623	6552	2455
10°	138207	108618	23591	612	525
15°	177924	129195	12552	214	0
20°	239816	143761	4765	0	0
25°	271244	151869	1235	0	0
30°	301500	143163	119	0	0
35°	326826	114163	0	0	0
40°	316772	71673	0	0	0
45°	251110	34147	0	0	0
50°	164349	4287	0	0	0
55°	28255	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: 251110 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.4	3.7
10°-20°	93.9	14.2
20°-30°	175.7	26.7
30°-40°	205.1	31.1
40°-50°	133.8	20.3
50°-60°	24.8	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°	294.0	44.6
0°-40°	499.1	75.7
0°-60°	657.7	99.8
0°-90°	659.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	659.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	205	205	205	205	205	
5°	557	428	189	38	14	60
15°	998	725	70	1	0	297
25°	1427	799	6	0	0	660
35°	1554	543	0	0	0	953
45°	1031	140	0	0	0	784
55°	94	0	0	0	0	163
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°	204.7	204.7	204.7	204.7	204.7	204.7	204.7	204.7	204.7	204.7	204.7
2.5°	360.8	363.8	357.9	355.5	347.8	349.6	336.6	331.3	323.0	309.4	302.9
5°	556.6	551.3	546.6	536.5	530.6	514.6	496.9	476.8	452.5	428.3	400.5
7.5°	696.2	692.1	690.3	682.0	670.2	653.6	630.6	605.1	573.8	541.2	499.2
10°	790.3	786.1	779.0	770.8	761.3	747.7	725.2	697.4	663.1	621.1	572.0
12.5°	851.8	851.2	839.4	829.9	818.1	806.2	783.2	760.7	727.0	683.8	628.2
15°	997.9	988.4	973.1	946.4	913.3	882.6	845.3	809.8	773.1	724.6	662.5
17.5°	1180.1	1169.4	1143.4	1109.7	1056.5	997.9	934.0	877.8	822.8	757.2	683.8
20°	1308.5	1304.3	1282.4	1243.4	1186.6	1109.1	1025.1	945.8	868.4	784.4	693.9
22.5°	1390.7	1388.3	1379.4	1352.8	1294.8	1207.9	1099.6	993.2	899.7	801.5	690.9
25°	1427.4	1430.3	1431.5	1418.5	1371.7	1283.0	1154.7	1029.3	917.5	799.2	668.4
27.5°	1453.4	1453.4	1458.1	1452.2	1404.9	1311.4	1176.0	1041.7	911.5	770.2	621.1
30°	1516.1	1514.9	1517.9	1501.9	1436.2	1320.3	1166.5	1021.6	877.8	719.9	553.1
32.5°	1543.3	1544.5	1543.9	1518.4	1442.1	1314.4	1143.4	983.1	815.7	641.2	463.2
35°	1554.5	1549.2	1527.3	1469.3	1372.9	1235.7	1078.4	918.0	728.8	543.0	365.6
37.5°	1517.3	1501.9	1453.4	1374.1	1256.4	1124.5	970.7	801.5	613.4	425.9	275.1
40°	1409.0	1388.9	1328.0	1232.1	1124.5	1005.6	843.5	664.9	479.7	318.8	192.8
42.5°	1255.8	1232.7	1167.1	1083.7	985.5	860.7	699.2	520.5	351.4	220.0	122.4
45°	1031.0	1018.0	980.2	909.8	813.3	683.8	535.9	379.8	243.1	140.2	62.7
47.5°	797.4	780.8	753.6	705.1	624.7	501.6	375.0	257.9	156.2	69.2	13.0
50°	613.4	593.9	560.8	506.9	422.9	334.8	243.1	160.9	79.3	16.0	0.6
52.5°	353.1	357.3	341.3	307.0	260.3	200.5	140.8	81.0	17.7	0.6	0.0
55°	94.1	101.7	99.4	107.1	94.1	79.3	58.6	15.4	1.2	0.0	0.0
57.5°	0.0	0.0	0.6	1.2	3.5	5.3	1.8	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°	204.7	204.7	204.7	204.7	204.7	204.7	204.7	204.7
2.5°	288.1	275.7	260.3	203.5	153.2	110.0	85.8	79.3
5°	373.8	343.7	304.6	188.7	94.6	37.9	17.2	14.2
7.5°	454.9	410.5	340.1	165.0	47.9	9.5	4.7	4.1
10°	517.6	457.8	366.2	134.9	17.7	3.5	3.0	3.0
12.5°	560.8	488.0	375.6	102.3	6.5	1.8	1.8	1.2
15°	585.6	499.8	366.7	70.4	2.4	1.2	0.0	0.0
17.5°	593.3	495.1	343.1	44.4	0.6	0.0	0.0	0.0
20°	586.8	472.0	305.8	26.0	0.0	0.0	0.0	0.0
22.5°	565.5	436.0	260.9	14.2	0.0	0.0	0.0	0.0
25°	525.9	385.1	208.2	6.5	0.0	0.0	0.0	0.0
27.5°	461.4	319.4	156.8	2.4	0.0	0.0	0.0	0.0
30°	388.0	249.0	111.2	0.6	0.0	0.0	0.0	0.0
32.5°	302.9	183.4	71.6	0.0	0.0	0.0	0.0	0.0
35°	227.7	128.4	42.6	0.0	0.0	0.0	0.0	0.0
37.5°	158.5	81.0	22.5	0.0	0.0	0.0	0.0	0.0
40°	98.8	43.8	7.7	0.0	0.0	0.0	0.0	0.0
42.5°	55.0	15.4	0.6	0.0	0.0	0.0	0.0	0.0
45°	13.0	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)