

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: P1326798

Luminaire Tested: LDSQA3D09R45W2N902765DE010 3LSQCA30R 1MMS_2700K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1326798
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_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R45 optic, 2700K CCT AND, 90CRI ,
3LSQCA30R 1MMS TRIM
Light Source: -
Ballast/Driver: -

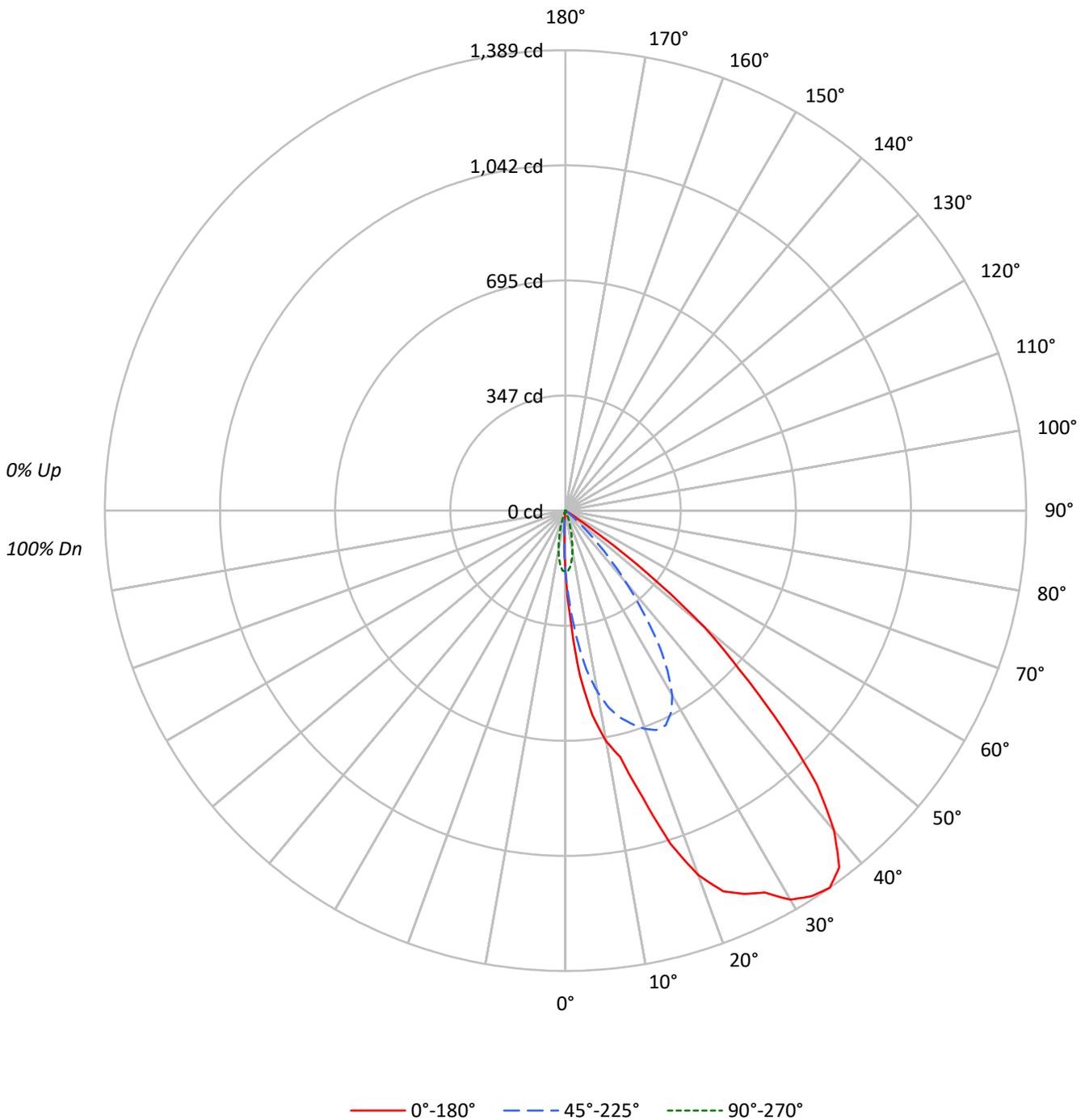
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 589.0 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91	91	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82	82	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74	74	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67	67	67
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60	60	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54	54	54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	49	49	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44	44	44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40	40	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	31500	31500	31500	31500	31500
5°	86008	66179	29165	5843	2196
10°	123517	97076	21073	560	455
15°	159024	115466	11215	196	0
20°	214341	128476	4270	0	0
25°	242417	135736	1102	0	0
30°	269463	127950	99	0	0
35°	292114	102032	0	0	0
40°	283117	64074	0	0	0
45°	224440	30518	0	0	0
50°	146906	3831	0	0	0
55°	25252	0	0	0	0
60°	0	0	172	0	0
65°	0	204	204	0	0
70°	0	252	554	0	0
75°	0	333	732	0	0
80°	0	496	1091	496	0
85°	0	988	2174	988	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 224440 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.8	3.7
10°-20°	83.9	14.2
20°-30°	157.1	26.7
30°-40°	183.3	31.1
40°-50°	119.6	20.3
50°-60°	22.2	3.8
60°-70°	0.2	0.0
70°-80°	0.4	0.1
80°-90°	0.5	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°	262.8	44.6
0°-40°	446.1	75.7
0°-60°	587.9	99.8
0°-90°	589.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	589.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	183	183	183	183	183	
5°	498	383	169	34	13	53
15°	892	648	63	1	0	266
25°	1276	714	6	0	0	590
35°	1389	485	0	0	0	852
45°	922	125	0	0	0	701
55°	84	0	0	0	0	146
65°	0	0	0	0	0	0
75°	0	0	1	0	0	0
85°	0	0	1	0	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°	182.9	182.9	182.9	182.9	182.9	182.9	182.9	182.9	182.9	182.9	182.9
2.5°	322.5	325.1	319.9	317.7	310.9	312.5	300.8	296.1	288.7	276.5	270.7
5°	497.5	492.7	488.5	479.5	474.2	460.0	444.1	426.1	404.5	382.8	357.9
7.5°	622.3	618.6	617.0	609.6	599.0	584.2	563.6	540.9	512.8	483.8	446.2
10°	706.3	702.6	696.3	688.9	680.4	668.3	648.2	623.3	592.7	555.1	511.2
12.5°	761.3	760.8	750.2	741.8	731.2	720.6	700.0	679.9	649.8	611.2	561.5
15°	891.9	883.4	869.7	845.9	816.3	788.8	755.5	723.8	691.0	647.6	592.1
17.5°	1054.7	1045.2	1022.0	991.8	944.2	891.9	834.8	784.6	735.4	676.7	611.2
20°	1169.5	1165.8	1146.2	1111.3	1060.6	991.3	916.2	845.4	776.1	701.0	620.2
22.5°	1243.0	1240.8	1232.9	1209.1	1157.3	1079.6	982.8	887.7	804.1	716.4	617.5
25°	1275.7	1278.4	1279.4	1267.8	1226.0	1146.7	1032.0	919.9	820.0	714.3	597.4
27.5°	1299.0	1299.0	1303.2	1297.9	1255.6	1172.1	1051.0	931.0	814.7	688.4	555.1
30°	1355.0	1354.0	1356.6	1342.4	1283.7	1180.0	1042.6	913.1	784.6	643.4	494.3
32.5°	1379.4	1380.4	1379.9	1357.2	1289.0	1174.8	1022.0	878.7	729.1	573.1	414.0
35°	1389.4	1384.6	1365.1	1313.3	1227.1	1104.4	963.8	820.5	651.3	485.3	326.7
37.5°	1356.1	1342.4	1299.0	1228.2	1122.9	1005.0	867.6	716.4	548.3	380.7	245.8
40°	1259.3	1241.4	1186.9	1101.3	1005.0	898.8	753.9	594.3	428.8	285.0	172.4
42.5°	1122.4	1101.8	1043.1	968.6	880.8	769.2	624.9	465.2	314.0	196.7	109.4
45°	921.5	909.9	876.0	813.1	727.0	611.2	479.0	339.4	217.3	125.3	56.0
47.5°	712.7	697.9	673.6	630.2	558.3	448.3	335.2	230.5	139.6	61.9	11.6
50°	548.3	530.8	501.2	453.1	378.0	299.2	217.3	143.8	70.8	14.3	0.5
52.5°	315.6	319.3	305.1	274.4	232.6	179.2	125.8	72.4	15.9	0.5	0.0
55°	84.1	90.9	88.8	95.7	84.1	70.8	52.3	13.7	1.1	0.0	0.0
57.5°	0.0	0.0	0.5	1.1	3.2	4.8	1.6	0.5	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	0.5	0.5
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5
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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	182.9	182.9	182.9	182.9	182.9	182.9	182.9	182.9
2.5°	257.5	246.4	232.6	181.9	136.9	98.3	76.7	70.8
5°	334.1	307.2	272.3	168.7	84.6	33.8	15.3	12.7
7.5°	406.6	366.9	304.0	147.5	42.8	8.5	4.2	3.7
10°	462.6	409.2	327.3	120.5	15.9	3.2	2.6	2.6
12.5°	501.2	436.2	335.7	91.5	5.8	1.6	1.6	1.1
15°	523.4	446.7	327.8	62.9	2.1	1.1	0.0	0.0
17.5°	530.3	442.5	306.6	39.7	0.5	0.0	0.0	0.0
20°	524.5	421.9	273.3	23.3	0.0	0.0	0.0	0.0
22.5°	505.4	389.6	233.2	12.7	0.0	0.0	0.0	0.0
25°	470.0	344.2	186.1	5.8	0.0	0.0	0.0	0.0
27.5°	412.4	285.5	140.1	2.1	0.0	0.0	0.0	0.0
30°	346.8	222.6	99.4	0.5	0.0	0.0	0.0	0.0
32.5°	270.7	163.9	64.0	0.0	0.0	0.0	0.0	0.0
35°	203.5	114.7	38.1	0.0	0.0	0.0	0.0	0.0
37.5°	141.7	72.4	20.1	0.0	0.0	0.0	0.0	0.0
40°	88.3	39.1	6.9	0.0	0.0	0.0	0.0	0.0
42.5°	49.2	13.7	0.5	0.0	0.0	0.0	0.0	0.0
45°	11.6	1.1	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.5	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	0.5	0.0	0.0	0.0	0.0
60°	0.0	0.5	0.5	0.5	0.0	0.0	0.0	0.0
62.5°	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
65°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0
67.5°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0
70°	0.5	0.5	0.5	1.1	0.5	0.0	0.0	0.0
72.5°	0.5	0.5	1.1	1.1	0.5	0.0	0.0	0.0
75°	0.5	0.5	1.1	1.1	0.5	0.0	0.0	0.0
77.5°	0.5	1.1	1.1	1.1	0.5	0.5	0.0	0.0
80°	0.5	1.1	1.1	1.1	1.1	0.5	0.0	0.0
82.5°	0.5	1.1	1.1	1.1	1.1	0.5	0.0	0.0
85°	0.5	1.1	1.1	1.1	0.5	0.5	0.0	0.0
87.5°	0.5	1.1	1.1	1.1	1.1	0.5	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)