

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: P1325853

Luminaire Tested: LDSQA3D09R15W2N902765DE010 3LSQCA45R 1MMS_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325853
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-73)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R15W2N902765DE010 3LSQCA45R 1MMS_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R15 optic, 4000K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

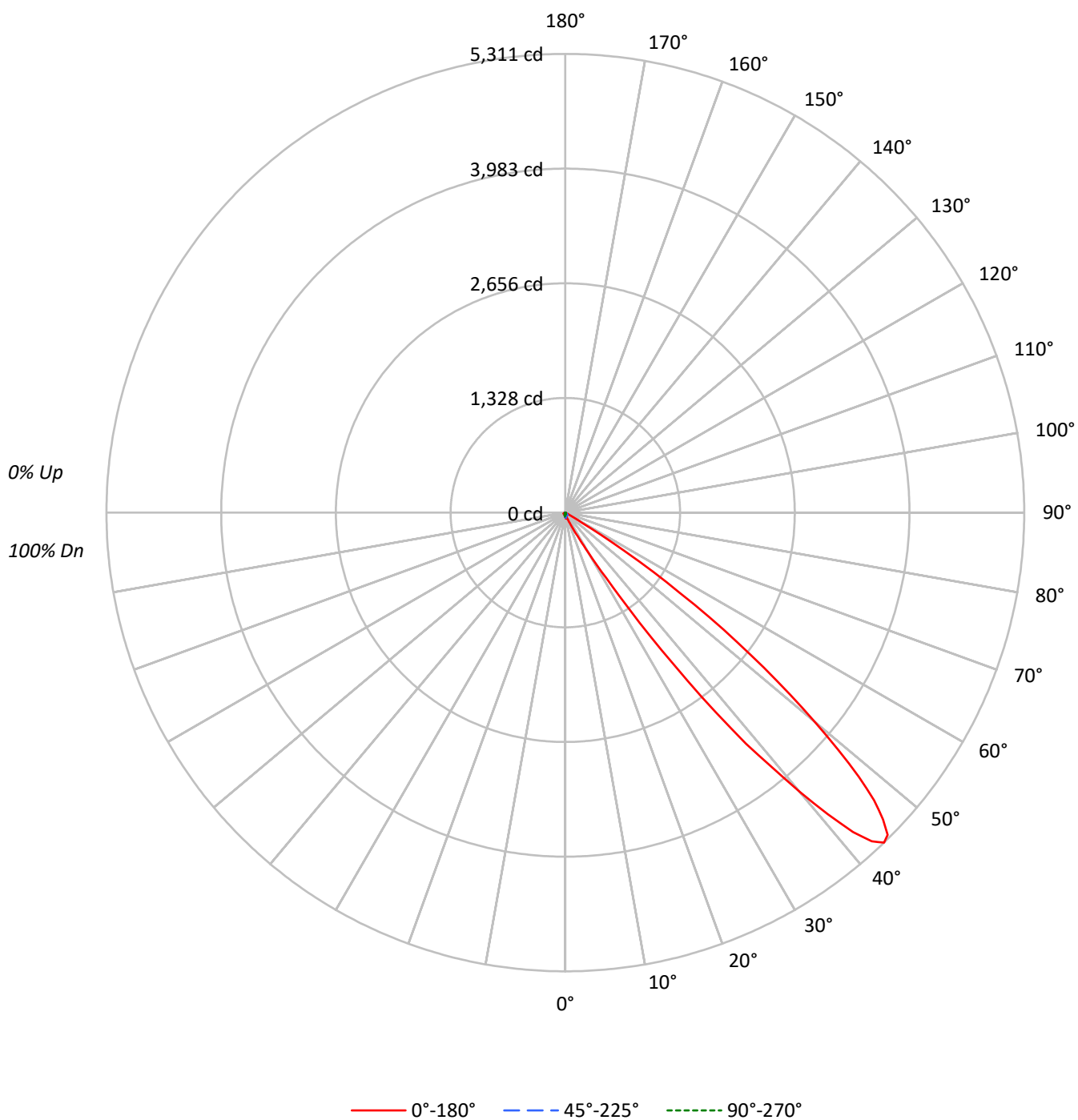
Lumens per Lamp: N/A
Luminaire Lumens: 593.0 lumens
Efficiency: N/A
Efficacy: 65.9 lumens/watt
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.08
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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		
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87		
2	101	93	87	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	53	50		
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42		
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35		
7	62	47	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29		
8	56	42	33	27	55	41	33	27	40	32	26	39	31	26	37	31	26	24		
9	52	37	28	22	50	37	28	22	35	28	22	34	27	22	33	27	22	20		
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	23	19	17		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9059	9059	9059	9059	9059
5°	11237	10010	8177	7157	7054
10°	11070	8587	6313	5579	5684
15°	9165	6116	4529	4636	4957
20°	15927	4875	3464	4014	4545
25°	35497	5834	2812	3706	4276
30°	106174	7179	2466	3639	4474
35°	408737	8073	2229	3721	4731
40°	948721	7037	2136	3844	5058
45°	1285020	5334	1875	4165	5480
50°	1007554	3162	1902	4448	6028
55°	483600	1411	1772	4804	6576
60°	44192	207	1619	5098	7337
65°	4809	0	1426	5298	7947
70°	1209	0	1762	5640	8611
75°	1198	399	2329	6321	9848
80°	1190	1190	2975	6447	10513
85°	1186	1186	4742	5928	11659

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1285020 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.5	0.8
10°-20°	9.4	1.6
20°-30°	22.4	3.8
30°-40°	122.7	20.7
40°-50°	297.0	50.1
50°-60°	118.5	20.0
60°-70°	10.2	1.7
70°-80°	5.8	1.0
80°-90°	2.6	0.4
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°	36.3	6.1
0°-40°	158.9	26.8
0°-60°	574.4	96.9
0°-90°	593.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	593.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	53	53	53	53	53	
5°	65	58	47	41	41	6
15°	51	34	25	26	28	18
25°	187	31	15	20	22	113
35°	1944	38	11	18	22	1374
45°	5276	22	8	17	22	3722
55°	1611	5	6	16	22	1500
65°	12	0	4	13	20	30
75°	2	1	4	10	15	2
85°	1	1	2	3	6	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6	52.6
2.5°	59.1	59.1	59.7	59.1	59.1	59.1	59.1	58.5	58.5	58.5	56.8
5°	65.0	65.0	65.0	65.0	64.4	64.4	64.4	63.9	63.9	63.3	57.9
7.5°	67.4	67.4	66.8	66.8	66.2	66.2	65.6	65.0	64.4	63.9	55.6
10°	63.3	63.3	63.3	62.7	62.7	62.1	61.5	60.9	60.3	59.1	49.1
12.5°	56.2	56.2	56.8	56.2	55.6	55.0	53.8	53.2	52.6	51.4	40.8
15°	51.4	51.4	51.4	50.8	50.3	49.1	48.5	47.3	46.7	44.9	34.3
17.5°	65.6	65.6	65.0	63.9	61.5	59.7	56.8	54.4	51.4	47.9	29.6
20°	86.9	86.9	85.7	84.6	81.6	78.6	73.9	69.8	65.0	60.9	26.6
22.5°	125.9	127.7	124.2	120.0	115.9	108.8	102.3	95.8	87.5	80.4	27.2
25°	186.8	188.6	186.8	177.4	169.7	160.2	147.8	134.8	120.6	107.6	30.7
27.5°	302.7	303.9	301.0	277.9	265.5	240.6	218.8	197.5	173.8	150.2	33.7
30°	533.9	534.5	515.6	469.5	428.7	374.3	328.2	283.8	246.6	208.7	36.1
31°	703.0	686.5	646.3	590.7	525.6	452.3	389.1	331.7	276.1	235.3	36.7
32°	892.8	890.5	823.6	727.3	640.4	548.7	453.5	380.2	316.3	260.8	37.3
33°	1144.1	1145.3	1040.1	926.5	784.0	661.0	536.3	435.8	358.9	290.9	38.4
34°	1536.7	1444.5	1320.9	1167.2	973.2	788.2	626.2	500.2	397.3	319.9	38.4
35°	1944.1	1851.3	1715.3	1482.3	1216.3	957.3	733.2	569.4	443.5	351.2	38.4
36°	2400.6	2321.9	2116.2	1818.8	1479.4	1116.9	846.7	649.2	489.0	379.6	37.8
37°	2893.7	2778.4	2550.2	2225.6	1771.5	1341.6	985.1	728.5	534.5	410.3	36.7
38°	3394.5	3290.5	3002.5	2609.3	2120.3	1578.7	1123.4	804.7	576.5	433.4	34.9
39°	3774.1	3717.4	3431.8	2992.5	2398.8	1803.4	1265.9	886.3	620.8	456.5	33.1
40°	4219.9	4128.3	3857.5	3314.1	2728.2	2032.2	1405.5	958.5	657.5	474.8	31.3
41°	4626.7	4510.9	4169.1	3644.0	2991.9	2238.0	1537.9	1033.0	687.1	485.4	30.2
42°	4975.6	4840.8	4483.7	3926.7	3212.4	2402.4	1643.7	1086.2	714.9	494.3	28.4
43°	5201.5	5085.0	4733.8	4138.9	3401.0	2553.1	1742.5	1141.8	732.0	500.2	26.0
44°	5311.4	5193.8	4853.8	4272.0	3516.9	2643.6	1806.4	1180.2	750.9	507.9	24.2
45°	5276.0	5156.5	4827.8	4274.3	3553.0	2676.1	1833.5	1197.3	761.0	515.0	21.9
46°	5113.4	5029.4	4698.3	4163.2	3484.4	2641.2	1818.2	1184.3	757.4	515.0	19.5
47°	4885.1	4789.3	4474.2	3972.2	3318.2	2551.4	1756.1	1144.7	735.5	503.2	17.1
48°	4574.1	4492.5	4161.4	3668.9	3063.4	2355.6	1616.0	1080.3	701.3	480.1	14.8
49°	4183.9	4070.3	3762.3	3281.0	2731.1	2077.7	1432.1	971.5	646.3	447.6	13.0
50°	3760.5	3620.4	3382.7	2892.5	2387.6	1781.5	1190.2	821.3	568.8	405.0	11.8
51°	3346.0	3203.5	2977.1	2560.2	2021.0	1478.2	960.2	655.7	468.3	346.5	10.1
52°	2916.2	2796.7	2543.1	2215.5	1730.1	1197.9	800.0	554.6	389.1	290.9	8.3
53°	2488.1	2406.5	2165.3	1833.5	1390.1	978.6	653.4	474.8	339.4	248.9	6.5
54°	2059.4	1970.1	1786.8	1491.2	1120.5	772.2	554.0	397.3	294.5	217.0	5.9
55°	1610.6	1564.5	1395.4	1137.0	849.1	616.1	449.4	341.8	246.6	181.5	4.7
56°	1240.5	1188.5	1034.1	824.8	630.9	482.5	363.6	279.1	208.7	152.0	3.5
57°	812.4	759.2	656.9	575.9	459.4	351.8	277.9	220.0	169.7	125.9	3.0
58°	480.1	431.6	415.7	354.8	306.3	238.9	205.2	163.8	125.4	99.3	1.8
59°	220.5	224.1	199.3	186.8	169.7	152.0	124.8	109.4	85.7	71.5	1.2
60°	128.3	121.2	118.3	105.8	94.0	83.4	75.1	66.2	53.8	46.1	0.6
62.5°	43.8	42.0	43.2	39.0	36.7	35.5	32.5	27.8	23.1	18.9	0.0
65°	11.8	11.8	11.2	10.6	10.1	9.5	8.9	7.7	7.1	5.9	0.0



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
67.5°	4.1	4.1	3.5	3.5	3.0	3.0	2.4	2.4	1.8	1.8	0.0
70°	2.4	2.4	2.4	1.8	1.8	1.8	1.2	1.2	1.2	0.6	0.0
72.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.2	1.2	1.2	0.6	0.6
75°	1.8	1.8	1.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.6
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.6	1.2
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	52.6	52.6	52.6	52.6	52.6	52.6
2.5°	54.4	52.0	49.1	47.3	46.7	46.1
5°	52.0	47.3	43.8	41.4	40.8	40.8
7.5°	46.7	41.4	37.8	36.7	36.1	36.1
10°	40.8	36.1	33.1	31.9	32.5	32.5
12.5°	34.3	30.2	29.0	29.0	29.6	30.2
15°	27.8	25.4	25.4	26.0	27.2	27.8
17.5°	23.1	21.9	22.5	23.7	24.8	26.0
20°	18.9	18.9	20.1	21.9	23.7	24.8
22.5°	16.0	16.6	18.3	20.1	22.5	23.7
25°	13.6	14.8	16.6	19.5	21.9	22.5
27.5°	11.8	13.6	16.0	18.9	21.3	22.5
30°	10.1	12.4	15.4	18.3	21.3	22.5
31°	9.5	11.8	14.8	18.3	21.3	22.5
32°	8.9	11.8	14.8	18.3	21.3	22.5
33°	8.3	11.2	14.8	17.7	21.3	22.5
34°	7.7	11.2	14.8	18.3	21.3	22.5
35°	7.1	10.6	14.2	17.7	20.7	22.5
36°	6.5	10.6	14.2	17.7	21.3	22.5
37°	5.9	10.6	14.2	17.7	20.7	22.5
38°	5.9	10.1	13.6	17.7	20.7	22.5
39°	5.3	9.5	13.6	17.7	20.7	22.5
40°	4.7	9.5	13.0	17.1	20.7	22.5
41°	4.1	8.9	13.0	17.1	20.7	22.5
42°	3.5	8.9	13.0	17.1	20.7	22.5
43°	3.0	8.3	12.4	17.1	20.7	22.5
44°	3.0	8.3	12.4	17.1	20.7	22.5
45°	2.4	7.7	11.8	17.1	20.7	22.5
46°	2.4	7.7	11.8	16.6	20.7	22.5
47°	1.8	7.7	11.8	16.6	20.7	22.5
48°	1.8	7.1	11.8	16.6	20.7	22.5
49°	1.2	7.1	11.8	16.6	20.7	22.5
50°	1.2	7.1	11.2	16.6	20.7	22.5
51°	1.2	7.1	11.2	16.6	20.7	22.5
52°	1.2	6.5	11.2	16.6	20.7	22.5
53°	1.2	6.5	11.2	16.6	20.7	22.5
54°	1.2	6.5	10.6	16.6	20.7	22.5
55°	1.2	5.9	10.6	16.0	20.7	21.9
56°	1.2	5.9	10.6	16.0	20.7	21.9
57°	1.2	5.9	10.1	16.0	20.7	21.9
58°	1.2	5.3	10.1	15.4	20.1	21.9
59°	1.2	5.3	9.5	15.4	20.1	21.3
60°	1.2	4.7	9.5	14.8	19.5	21.3
62.5°	1.2	4.1	8.3	14.2	18.9	20.1
65°	1.2	3.5	7.7	13.0	18.3	19.5



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	1.2	3.5	7.1	12.4	17.1	18.9
70°	1.2	3.5	6.5	11.2	16.6	17.1
72.5°	1.8	3.5	5.9	10.6	15.4	16.0
75°	2.4	3.5	5.3	9.5	14.2	14.8
77.5°	2.4	3.5	4.7	8.3	12.4	13.0
80°	2.4	3.0	4.1	6.5	10.1	10.6
82.5°	2.4	3.0	3.0	5.3	7.7	8.3
85°	1.8	2.4	2.4	3.0	5.3	5.9
87.5°	1.8	2.4	1.2	1.8	2.4	2.4
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)