

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: P1325855

Luminaire Tested: LDSQA3D09R15W2N902765DE010 3LSQCA45R 1MMS_6500K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325855
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_6500K
Description: 3in Adjustable Tunable White LED luminaire with, R15 optic, 6500K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

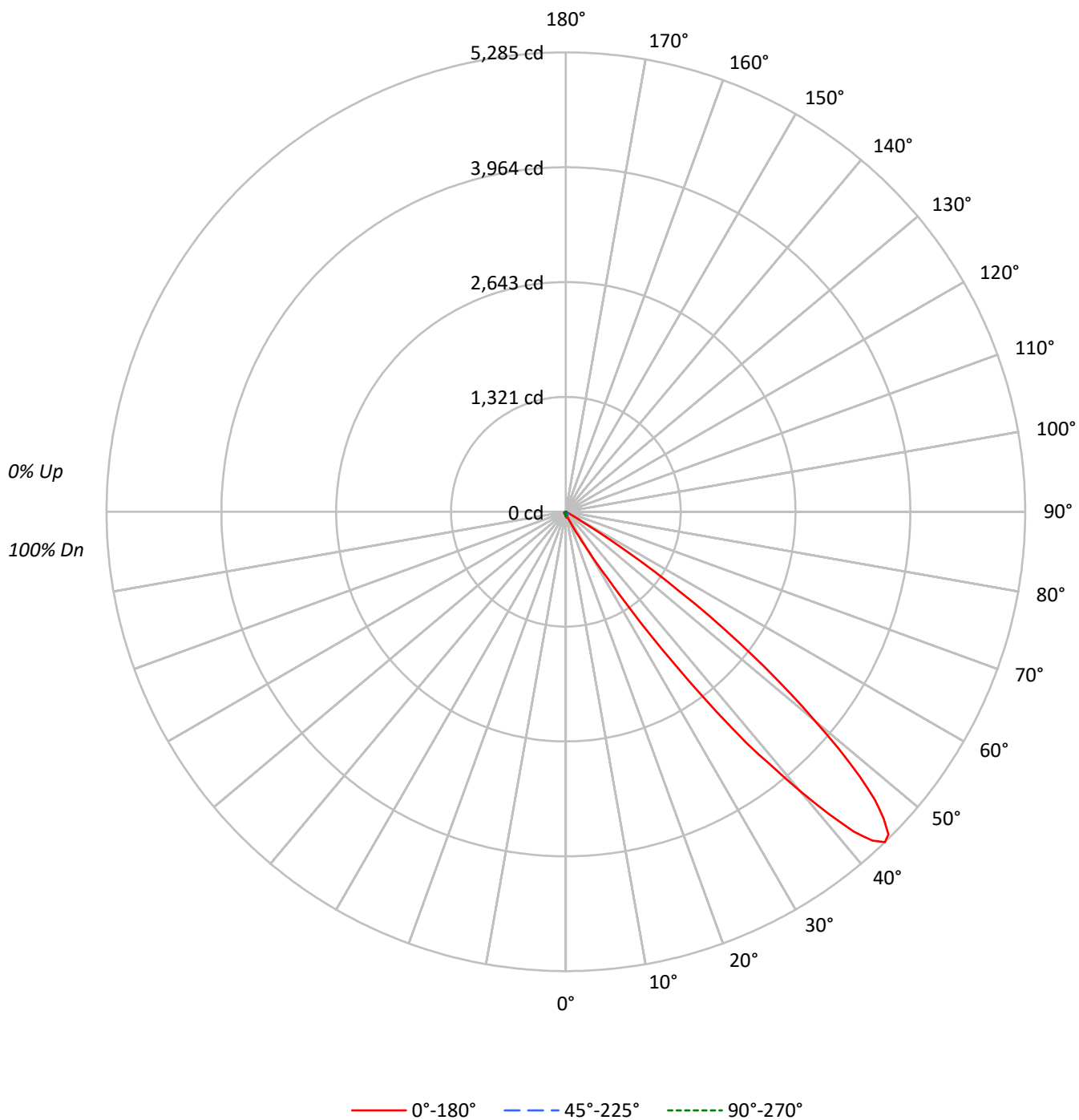
Lumens per Lamp: N/A
Luminaire Lumens: 590.0 lumens
Efficiency: N/A
Efficacy: 65.6 lumens/watt
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.08
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
RCR																			
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100
1	110	106	102	99	107	104	100	97	100	97	94	96	93	91	92	90	89	87	87
2	101	93	87	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73	73
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61	61
4	83	71	62	55	80	69	61	55	67	60	54	64	58	53	62	57	53	50	50
5	75	62	52	46	73	61	52	45	58	51	45	56	50	44	55	49	44	42	42
6	68	54	45	38	66	53	44	38	51	43	37	49	42	37	48	42	37	35	35
7	62	47	38	32	60	47	38	32	45	37	31	44	36	31	42	36	31	29	29
8	56	42	33	27	55	41	33	27	40	32	26	39	31	26	37	31	26	24	24
9	52	37	28	22	50	37	28	22	35	28	22	34	27	22	33	27	22	20	20
10	48	33	25	19	46	33	25	19	32	24	19	31	24	19	30	23	19	17	17

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9024	9024	9024	9024	9024
5°	11185	9975	8143	7123	7019
10°	11000	8534	6278	5561	5666
15°	9129	6080	4511	4618	4921
20°	15853	4857	3446	3995	4527
25°	35326	5815	2793	3687	4257
30°	105637	7139	2466	3619	4455
35°	406677	8031	2229	3700	4709
40°	943932	7014	2113	3844	5036
45°	1278517	5310	1851	4165	5456
50°	1002463	3162	1902	4421	6002
55°	481168	1411	1772	4774	6546
60°	43986	207	1619	5063	7302
65°	4809	0	1426	5257	7906
70°	1209	0	1762	5640	8611
75°	1198	399	2329	6255	9782
80°	1190	1190	2876	6447	10513
85°	1186	1186	4742	5730	11659

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1278517 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.5	0.8
10°-20°	9.3	1.6
20°-30°	22.3	3.8
30°-40°	122.0	20.7
40°-50°	295.5	50.1
50°-60°	117.9	20.0
60°-70°	10.2	1.7
70°-80°	5.8	1.0
80°-90°	2.5	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°	36.1	6.1
0°-40°	158.1	26.8
0°-60°	571.5	96.9
0°-90°	590.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	590.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	52	52	52	52	52	
5°	65	58	47	41	41	6
15°	51	34	25	26	28	18
25°	186	31	15	19	22	112
35°	1934	38	11	18	22	1367
45°	5249	22	8	17	22	3703
55°	1602	5	6	16	22	1493
65°	12	0	4	13	19	30
75°	2	1	4	9	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°	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4	52.4
2.5°	58.8	58.8	59.4	58.8	58.8	58.8	58.8	58.2	58.2	58.2	56.5
5°	64.7	64.7	64.7	64.7	64.1	64.1	64.1	63.5	63.5	62.9	57.7
7.5°	67.1	67.1	66.5	66.5	65.9	65.9	65.3	64.7	64.1	63.5	55.3
10°	62.9	62.9	62.9	62.4	62.4	61.8	61.2	60.6	60.0	58.8	48.8
12.5°	55.9	55.9	56.5	55.9	55.3	54.7	53.5	52.9	52.4	51.2	40.6
15°	51.2	51.2	51.2	50.6	50.0	48.8	48.2	47.1	46.5	44.7	34.1
17.5°	65.3	65.3	64.7	63.5	61.2	59.4	56.5	54.1	51.2	47.7	29.4
20°	86.5	86.5	85.3	84.1	81.2	78.2	73.5	69.4	64.7	60.6	26.5
22.5°	125.3	127.1	123.5	119.4	115.3	108.2	101.8	95.3	87.1	80.0	27.1
25°	185.9	187.7	185.9	176.5	168.8	159.4	147.1	134.1	120.0	107.1	30.6
27.5°	301.2	302.4	299.4	276.5	264.1	239.4	217.7	196.5	173.0	149.4	33.5
30°	531.2	531.8	513.0	467.1	426.5	372.4	326.5	282.4	245.3	207.7	35.9
31°	699.5	683.0	643.0	587.7	523.0	450.0	387.1	330.0	274.7	234.1	36.5
32°	888.3	886.0	819.5	723.6	637.1	545.9	451.2	378.3	314.7	259.4	37.1
33°	1138.3	1139.5	1034.8	921.8	780.1	657.7	533.6	433.6	357.1	289.4	38.2
34°	1529.0	1437.2	1314.2	1161.3	968.3	784.2	623.0	497.7	395.3	318.3	38.2
35°	1934.3	1841.9	1706.6	1474.8	1210.1	952.4	729.5	566.5	441.2	349.4	38.2
36°	2388.4	2310.2	2105.5	1809.6	1471.9	1111.3	842.4	645.9	486.5	377.7	37.7
37°	2879.1	2764.4	2537.3	2214.3	1762.5	1334.8	980.1	724.8	531.8	408.3	36.5
38°	3377.3	3273.8	2987.3	2596.1	2109.6	1570.7	1117.7	800.7	573.6	431.2	34.7
39°	3755.0	3698.6	3414.4	2977.3	2386.7	1794.3	1259.5	881.8	617.7	454.2	32.9
40°	4198.6	4107.4	3838.0	3297.3	2714.3	2021.9	1398.4	953.6	654.2	472.4	31.2
41°	4603.3	4488.0	4148.0	3625.6	2976.7	2226.7	1530.1	1027.7	683.6	483.0	30.0
42°	4950.4	4816.3	4461.0	3906.8	3196.2	2390.2	1635.4	1080.7	711.2	491.8	28.2
43°	5175.1	5059.3	4709.8	4118.0	3383.8	2540.2	1733.7	1136.0	728.3	497.7	25.9
44°	5284.6	5167.5	4829.2	4250.4	3499.1	2630.2	1797.2	1174.2	747.1	505.3	24.1
45°	5249.3	5130.4	4803.4	4252.7	3535.0	2662.6	1824.3	1191.3	757.1	512.4	21.8
46°	5087.5	5004.0	4674.5	4142.1	3466.8	2627.9	1809.0	1178.3	753.6	512.4	19.4
47°	4860.4	4765.1	4451.6	3952.1	3301.5	2538.5	1747.2	1138.9	731.8	500.6	17.1
48°	4551.0	4469.8	4140.4	3650.3	3047.9	2343.7	1607.8	1074.8	697.7	477.7	14.7
49°	4162.7	4049.8	3743.3	3264.4	2717.3	2067.2	1424.8	966.6	643.0	445.3	12.9
50°	3741.5	3602.1	3365.6	2877.9	2375.5	1772.5	1184.2	817.1	565.9	403.0	11.8
51°	3329.1	3187.3	2962.0	2547.3	2010.8	1470.7	955.4	652.4	465.9	344.7	10.0
52°	2901.4	2782.6	2530.2	2204.3	1721.3	1191.9	796.0	551.8	387.1	289.4	8.2
53°	2475.5	2394.3	2154.3	1824.3	1383.1	973.6	650.1	472.4	337.7	247.7	6.5
54°	2049.0	1960.2	1777.8	1483.7	1114.8	768.3	551.2	395.3	293.0	215.9	5.9
55°	1602.5	1556.6	1388.4	1131.3	844.8	613.0	447.1	340.0	245.3	180.6	4.7
56°	1234.2	1182.5	1028.9	820.7	627.7	480.0	361.8	277.7	207.7	151.2	3.5
57°	808.3	755.4	653.6	573.0	457.1	350.0	276.5	218.8	168.8	125.3	2.9
58°	477.7	429.4	413.6	353.0	304.7	237.7	204.1	163.0	124.7	98.8	1.8
59°	219.4	223.0	198.3	185.9	168.8	151.2	124.1	108.8	85.3	71.2	1.2
60°	127.7	120.6	117.7	105.3	93.5	82.9	74.7	65.9	53.5	45.9	0.6
62.5°	43.5	41.8	42.9	38.8	36.5	35.3	32.4	27.6	22.9	18.8	0.0
65°	11.8	11.8	11.2	10.6	10.0	9.4	8.8	7.6	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	2.9	2.9	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°	52.4	52.4	52.4	52.4	52.4	52.4
2.5°	54.1	51.8	48.8	47.1	46.5	45.9
5°	51.8	47.1	43.5	41.2	40.6	40.6
7.5°	46.5	41.2	37.7	36.5	35.9	35.9
10°	40.6	35.9	32.9	31.8	32.4	32.4
12.5°	34.1	30.0	28.8	28.8	29.4	30.0
15°	27.6	25.3	25.3	25.9	27.1	27.6
17.5°	22.9	21.8	22.4	23.5	24.7	25.9
20°	18.8	18.8	20.0	21.8	23.5	24.7
22.5°	15.9	16.5	18.2	20.0	22.4	23.5
25°	13.5	14.7	16.5	19.4	21.8	22.4
27.5°	11.8	13.5	15.9	18.8	21.2	22.4
30°	10.0	12.4	15.3	18.2	21.2	22.4
31°	9.4	11.8	14.7	18.2	21.2	22.4
32°	8.8	11.8	14.7	18.2	21.2	22.4
33°	8.2	11.2	14.7	17.6	21.2	22.4
34°	7.6	11.2	14.7	18.2	21.2	22.4
35°	7.1	10.6	14.1	17.6	20.6	22.4
36°	6.5	10.6	14.1	17.6	21.2	22.4
37°	5.9	10.6	14.1	17.6	20.6	22.4
38°	5.9	10.0	13.5	17.6	20.6	22.4
39°	5.3	9.4	13.5	17.6	20.6	22.4
40°	4.7	9.4	12.9	17.1	20.6	22.4
41°	4.1	8.8	12.9	17.1	20.6	22.4
42°	3.5	8.8	12.9	17.1	20.6	22.4
43°	2.9	8.2	12.4	17.1	20.6	22.4
44°	2.9	8.2	12.4	17.1	20.6	22.4
45°	2.4	7.6	11.8	17.1	20.6	22.4
46°	2.4	7.6	11.8	16.5	20.6	22.4
47°	1.8	7.6	11.8	16.5	20.6	22.4
48°	1.8	7.1	11.8	16.5	20.6	22.4
49°	1.2	7.1	11.8	16.5	20.6	22.4
50°	1.2	7.1	11.2	16.5	20.6	22.4
51°	1.2	7.1	11.2	16.5	20.6	22.4
52°	1.2	6.5	11.2	16.5	20.6	22.4
53°	1.2	6.5	11.2	16.5	20.6	22.4
54°	1.2	6.5	10.6	16.5	20.6	22.4
55°	1.2	5.9	10.6	15.9	20.6	21.8
56°	1.2	5.9	10.6	15.9	20.6	21.8
57°	1.2	5.9	10.0	15.9	20.6	21.8
58°	1.2	5.3	10.0	15.3	20.0	21.8
59°	1.2	5.3	9.4	15.3	20.0	21.2
60°	1.2	4.7	9.4	14.7	19.4	21.2
62.5°	1.2	4.1	8.2	14.1	18.8	20.0
65°	1.2	3.5	7.6	12.9	18.2	19.4



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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	18.8
70°	1.2	3.5	6.5	11.2	16.5	17.1
72.5°	1.8	3.5	5.9	10.6	15.3	15.9
75°	2.4	3.5	5.3	9.4	14.1	14.7
77.5°	2.4	3.5	4.7	8.2	12.4	12.9
80°	2.4	2.9	4.1	6.5	10.0	10.6
82.5°	2.4	2.9	2.9	5.3	7.6	8.2
85°	1.8	2.4	2.4	2.9	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)