

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: P1325851

Luminaire Tested: LDSQA3D09R15W2N902765DE010 3LSQCA45R 1MMS_3000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325851
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_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R15 optic, 3000K CCT AND, 90CRI ,
3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

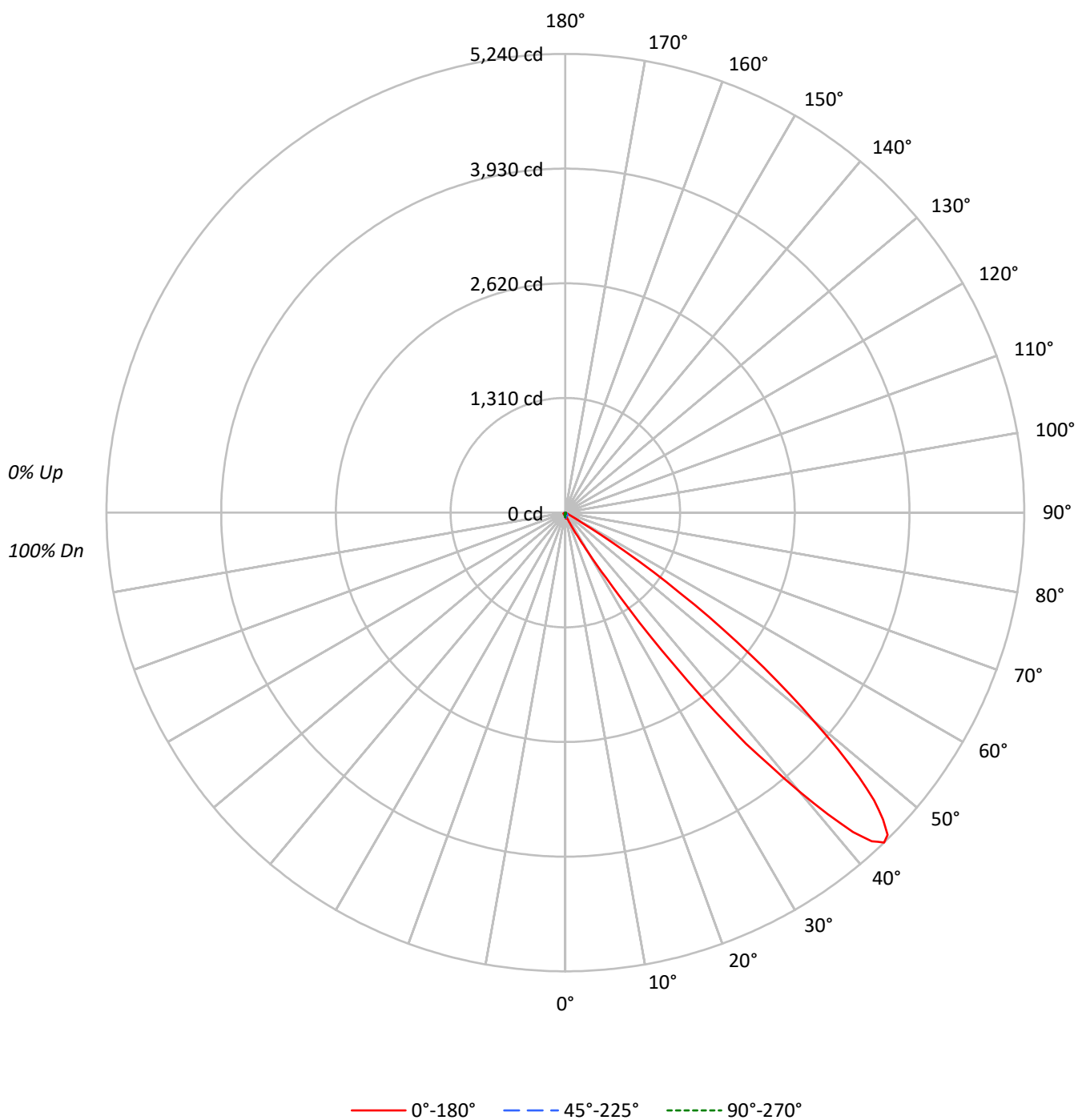
Lumens per Lamp: N/A
Luminaire Lumens: 585.0 lumens
Efficiency: N/A
Efficacy: 65.0 lumens/watt
Spacing Criteria (0/90/45): 3.26 / 0.47 / 1.08
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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			0
RW	70	50	30	10	70	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	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°	8938	8938	8938	8938	8938
5°	11099	9889	8074	7054	6950
10°	10912	8464	6226	5509	5614
15°	9040	6026	4475	4582	4885
20°	15707	4802	3427	3959	4490
25°	35022	5758	2774	3649	4219
30°	104742	7080	2426	3599	4415
35°	403229	7968	2208	3679	4667
40°	935929	6947	2091	3799	4991
45°	1267679	5261	1851	4116	5407
50°	993970	3135	1876	4367	5948
55°	477085	1411	1742	4714	6486
60°	43607	207	1619	5029	7233
65°	4768	0	1426	5216	7824
70°	1158	0	1762	5589	8510
75°	1131	399	2329	6188	9715
80°	1190	1190	2876	6347	10414
85°	1186	1186	4545	5730	11461

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 1267679 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.4	0.8
10°-20°	9.2	1.6
20°-30°	22.1	3.8
30°-40°	121.0	20.7
40°-50°	293.0	50.1
50°-60°	116.9	20.0
60°-70°	10.1	1.7
70°-80°	5.7	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°	35.8	6.1
0°-40°	156.8	26.8
0°-60°	566.7	96.9
0°-90°	585.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	585.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	52	52	52	52	52	
5°	64	57	47	41	40	6
15°	51	34	25	26	27	18
25°	184	30	15	19	22	111
35°	1918	38	10	18	22	1355
45°	5205	22	8	17	22	3672
55°	1589	5	6	16	22	1480
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°	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9	51.9
2.5°	58.3	58.3	58.9	58.3	58.3	58.3	58.3	57.7	57.7	57.7	56.0
5°	64.2	64.2	64.2	64.2	63.6	63.6	63.6	63.0	63.0	62.4	57.2
7.5°	66.5	66.5	65.9	65.9	65.3	65.3	64.7	64.2	63.6	63.0	54.8
10°	62.4	62.4	62.4	61.8	61.8	61.2	60.7	60.1	59.5	58.3	48.4
12.5°	55.4	55.4	56.0	55.4	54.8	54.2	53.1	52.5	51.9	50.7	40.2
15°	50.7	50.7	50.7	50.2	49.6	48.4	47.8	46.7	46.1	44.3	33.8
17.5°	64.7	64.7	64.2	63.0	60.7	58.9	56.0	53.7	50.7	47.2	29.2
20°	85.7	85.7	84.6	83.4	80.5	77.6	72.9	68.8	64.2	60.1	26.2
22.5°	124.2	126.0	122.5	118.4	114.3	107.3	100.9	94.5	86.3	79.3	26.8
25°	184.3	186.1	184.3	175.0	167.4	158.1	145.8	133.0	119.0	106.2	30.3
27.5°	298.6	299.8	296.9	274.2	261.9	237.4	215.8	194.8	171.5	148.2	33.2
30°	526.7	527.3	508.6	463.1	422.9	369.2	323.7	280.0	243.2	205.9	35.6
31°	693.5	677.2	637.5	582.7	518.6	446.2	383.8	327.2	272.4	232.2	36.2
32°	880.8	878.4	812.5	717.5	631.7	541.3	447.4	375.1	312.1	257.2	36.7
33°	1128.7	1129.9	1026.0	914.0	773.5	652.1	529.1	429.9	354.1	287.0	37.9
34°	1516.0	1425.0	1303.1	1151.4	960.1	777.5	617.7	493.5	392.0	315.6	37.9
35°	1917.9	1826.3	1692.2	1462.3	1199.8	944.4	723.3	561.7	437.5	346.5	37.9
36°	2368.2	2290.6	2087.6	1794.2	1459.4	1101.9	835.3	640.5	482.4	374.5	37.3
37°	2854.7	2740.9	2515.8	2195.5	1747.6	1323.5	971.8	718.6	527.3	404.8	36.2
38°	3348.7	3246.1	2962.0	2574.1	2091.7	1557.4	1108.3	793.9	568.7	427.6	34.4
39°	3723.2	3667.2	3385.5	2952.1	2366.4	1779.1	1248.8	874.4	612.5	450.3	32.7
40°	4163.0	4072.6	3805.4	3269.4	2691.3	2004.8	1386.5	945.5	648.6	468.4	30.9
41°	4564.3	4450.0	4112.8	3594.9	2951.5	2207.8	1517.2	1019.0	677.8	478.9	29.7
42°	4908.5	4775.5	4423.2	3873.7	3169.1	2369.9	1621.6	1071.5	705.2	487.6	28.0
43°	5131.3	5016.4	4669.9	4083.1	3355.1	2518.7	1719.0	1126.4	722.1	493.5	25.7
44°	5239.8	5123.7	4788.3	4214.3	3469.5	2607.9	1782.0	1164.3	740.8	501.1	23.9
45°	5204.8	5087.0	4762.6	4216.7	3505.0	2640.0	1808.8	1181.2	750.7	508.1	21.6
46°	5044.4	4961.6	4634.9	4107.0	3437.4	2605.6	1793.6	1168.3	747.2	508.1	19.2
47°	4819.2	4724.7	4413.8	3918.6	3273.5	2516.9	1732.4	1129.3	725.6	496.4	16.9
48°	4512.4	4431.9	4105.3	3619.4	3022.1	2323.9	1594.2	1065.7	691.8	473.6	14.6
49°	4127.4	4015.4	3711.5	3236.7	2694.3	2049.7	1412.8	958.4	637.5	441.6	12.8
50°	3709.8	3571.5	3337.1	2853.5	2355.4	1757.5	1174.2	810.2	561.1	399.6	11.7
51°	3300.9	3160.3	2936.9	2525.7	1993.7	1458.3	947.3	646.9	462.0	341.8	9.9
52°	2876.8	2759.0	2508.8	2185.6	1706.7	1181.8	789.2	547.1	383.8	287.0	8.2
53°	2454.5	2374.0	2136.0	1808.8	1371.3	965.4	644.5	468.4	334.8	245.6	6.4
54°	2031.6	1943.6	1762.7	1471.1	1105.4	761.8	546.6	392.0	290.5	214.1	5.8
55°	1588.9	1543.4	1376.6	1121.7	837.6	607.8	443.3	337.1	243.2	179.1	4.7
56°	1223.8	1172.4	1020.2	813.7	622.4	476.0	358.7	275.3	205.9	149.9	3.5
57°	801.5	749.0	648.0	568.1	453.2	347.1	274.2	217.0	167.4	124.2	2.9
58°	473.6	425.8	410.1	350.0	302.1	235.7	202.4	161.6	123.7	98.0	1.7
59°	217.6	221.1	196.6	184.3	167.4	149.9	123.1	107.9	84.6	70.6	1.2
60°	126.6	119.6	116.7	104.4	92.7	82.2	74.1	65.3	53.1	45.5	0.6
62.5°	43.2	41.4	42.6	38.5	36.2	35.0	32.1	27.4	22.7	18.7	0.0
65°	11.7	11.7	11.1	10.5	9.9	9.3	8.7	7.6	7.0	5.8	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	2.3	2.3	1.7	1.7	0.0
70°	2.3	2.3	2.3	1.7	1.7	1.7	1.2	1.2	1.2	0.6	0.0
72.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.2	1.2	1.2	0.6	0.6
75°	1.7	1.7	1.7	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°	51.9	51.9	51.9	51.9	51.9	51.9
2.5°	53.7	51.3	48.4	46.7	46.1	45.5
5°	51.3	46.7	43.2	40.8	40.2	40.2
7.5°	46.1	40.8	37.3	36.2	35.6	35.6
10°	40.2	35.6	32.7	31.5	32.1	32.1
12.5°	33.8	29.7	28.6	28.6	29.2	29.7
15°	27.4	25.1	25.1	25.7	26.8	27.4
17.5°	22.7	21.6	22.2	23.3	24.5	25.7
20°	18.7	18.7	19.8	21.6	23.3	24.5
22.5°	15.7	16.3	18.1	19.8	22.2	23.3
25°	13.4	14.6	16.3	19.2	21.6	22.2
27.5°	11.7	13.4	15.7	18.7	21.0	22.2
30°	9.9	12.2	15.2	18.1	21.0	22.2
31°	9.3	11.7	14.6	18.1	21.0	22.2
32°	8.7	11.7	14.6	18.1	21.0	22.2
33°	8.2	11.1	14.6	17.5	21.0	22.2
34°	7.6	11.1	14.6	18.1	21.0	22.2
35°	7.0	10.5	14.0	17.5	20.4	22.2
36°	6.4	10.5	14.0	17.5	21.0	22.2
37°	5.8	10.5	14.0	17.5	20.4	22.2
38°	5.8	9.9	13.4	17.5	20.4	22.2
39°	5.2	9.3	13.4	17.5	20.4	22.2
40°	4.7	9.3	12.8	16.9	20.4	22.2
41°	4.1	8.7	12.8	16.9	20.4	22.2
42°	3.5	8.7	12.8	16.9	20.4	22.2
43°	2.9	8.2	12.2	16.9	20.4	22.2
44°	2.9	8.2	12.2	16.9	20.4	22.2
45°	2.3	7.6	11.7	16.9	20.4	22.2
46°	2.3	7.6	11.7	16.3	20.4	22.2
47°	1.7	7.6	11.7	16.3	20.4	22.2
48°	1.7	7.0	11.7	16.3	20.4	22.2
49°	1.2	7.0	11.7	16.3	20.4	22.2
50°	1.2	7.0	11.1	16.3	20.4	22.2
51°	1.2	7.0	11.1	16.3	20.4	22.2
52°	1.2	6.4	11.1	16.3	20.4	22.2
53°	1.2	6.4	11.1	16.3	20.4	22.2
54°	1.2	6.4	10.5	16.3	20.4	22.2
55°	1.2	5.8	10.5	15.7	20.4	21.6
56°	1.2	5.8	10.5	15.7	20.4	21.6
57°	1.2	5.8	9.9	15.7	20.4	21.6
58°	1.2	5.2	9.9	15.2	19.8	21.6
59°	1.2	5.2	9.3	15.2	19.8	21.0
60°	1.2	4.7	9.3	14.6	19.2	21.0
62.5°	1.2	4.1	8.2	14.0	18.7	19.8
65°	1.2	3.5	7.6	12.8	18.1	19.2



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
67.5°	1.2	3.5	7.0	12.2	16.9	18.7
70°	1.2	3.5	6.4	11.1	16.3	16.9
72.5°	1.7	3.5	5.8	10.5	15.2	15.7
75°	2.3	3.5	5.2	9.3	14.0	14.6
77.5°	2.3	3.5	4.7	8.2	12.2	12.8
80°	2.3	2.9	4.1	6.4	9.9	10.5
82.5°	2.3	2.9	2.9	5.2	7.6	8.2
85°	1.7	2.3	2.3	2.9	5.2	5.8
87.5°	1.7	2.3	1.2	1.7	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)