

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: P1326804

Luminaire Tested: LDSQA3D09R45W2N902765DE010 3LSQCA30R 1MW_2700K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1326804
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R45W2N902765DE010 3LSQCA30R 1MW_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R45 optic, 2700K CCT AND, 90CRI ,
3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

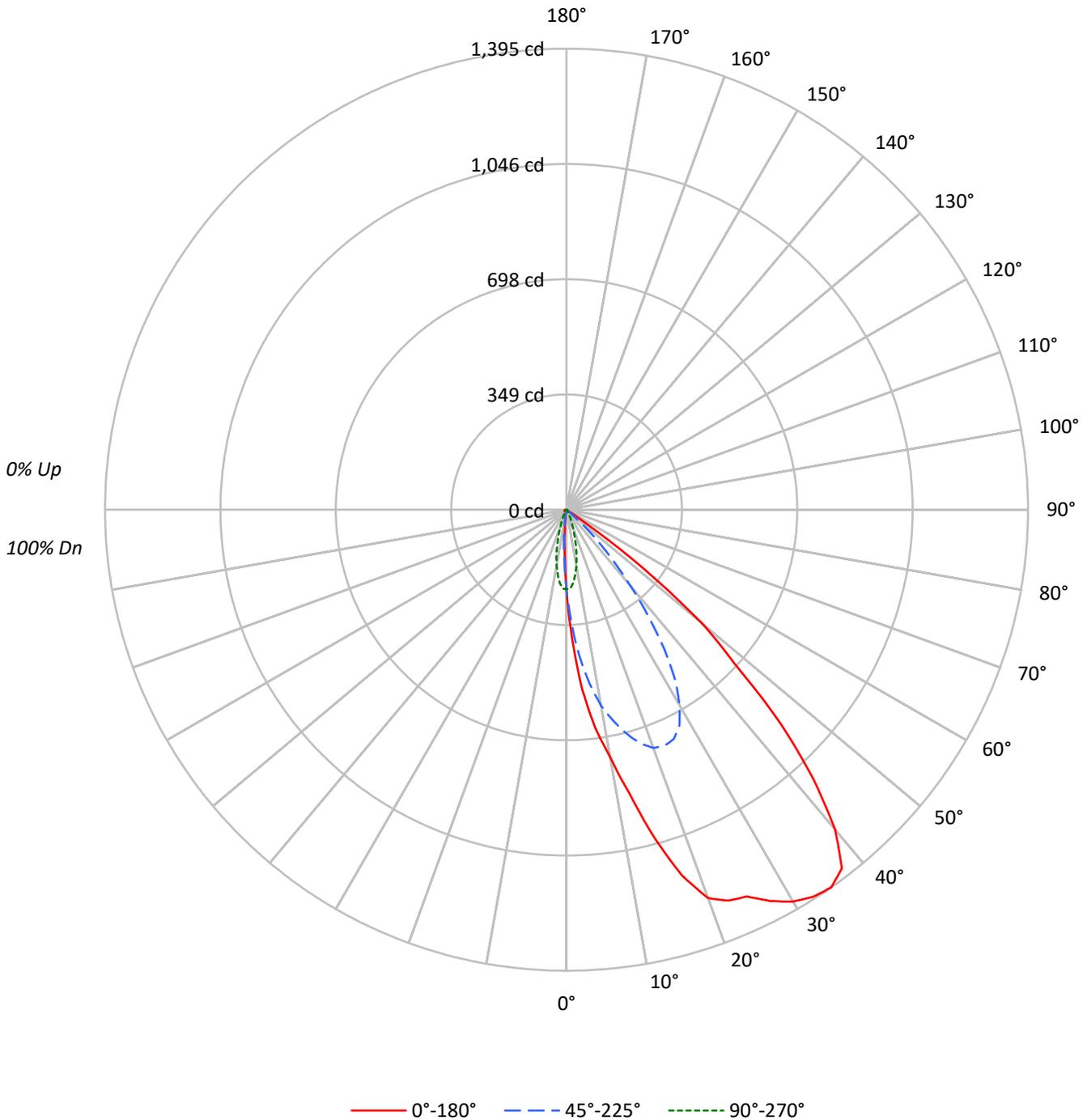
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 632.0 lumens
Efficiency: N/A
Efficacy: 70.2 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82
3	99	91	85	80	96	89	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	64	73	67	63	71	66	62	70	65	62	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	41420	41420	41420	41420	41420
5°	94393	76569	38743	15542	10598
10°	133013	105190	29939	3428	1574
15°	183290	125147	19131	1123	945
20°	229186	140554	9970	770	770
25°	245267	145541	4618	608	703
30°	272227	135905	2108	636	736
35°	293250	108339	673	673	883
40°	283769	67131	360	832	1079
45°	222833	31663	390	1023	1291
50°	143182	3671	563	1286	1688
55°	21739	330	631	1591	2072
60°	379	379	723	1826	2170
65°	448	448	856	1956	2567
70°	554	554	1057	2115	2921
75°	333	732	1397	2462	3194
80°	496	1091	1587	2579	3670
85°	0	988	2174	3162	3162

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 222833 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.3	4.2
10°-20°	95.2	15.1
20°-30°	167.2	26.5
30°-40°	189.8	30.0
40°-50°	122.9	19.4
50°-60°	24.1	3.8
60°-70°	2.9	0.5
70°-80°	2.4	0.4
80°-90°	1.1	0.2
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°	288.6	45.7
0°-40°	478.5	75.7
0°-60°	625.5	99.0
0°-90°	632.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	632.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	240	240	240	240	240	
5°	546	443	224	90	61	58
15°	1028	702	107	6	5	296
25°	1291	766	24	3	4	605
35°	1395	515	3	3	4	857
45°	915	130	2	4	5	690
55°	72	1	2	5	7	138
65°	1	1	2	5	6	1
75°	0	1	2	4	5	1
85°	0	0	1	2	2	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°	240.5	240.5	240.5	240.5	240.5	240.5	240.5	240.5	240.5	240.5	240.5
2.5°	390.6	389.5	391.1	380.6	380.0	372.1	370.0	361.0	348.8	343.0	329.3
5°	546.0	540.7	540.7	528.0	523.8	514.8	499.5	480.4	464.6	442.9	419.7
7.5°	666.0	664.9	664.9	653.8	643.2	630.6	609.9	588.3	562.9	529.6	495.8
10°	760.6	762.2	757.4	747.4	732.0	718.3	694.0	667.6	636.4	601.5	556.6
12.5°	880.0	868.4	864.7	842.0	822.4	796.0	766.9	736.8	698.2	654.3	603.6
15°	1028.0	1013.2	998.4	968.3	935.5	894.8	849.4	805.0	755.3	701.9	638.5
17.5°	1160.2	1160.2	1140.6	1093.0	1050.8	990.5	929.2	870.0	811.3	741.0	661.7
20°	1250.5	1245.8	1231.0	1196.1	1148.0	1079.8	1000.0	917.0	846.2	766.9	675.0
22.5°	1280.1	1279.1	1279.6	1259.0	1220.4	1149.6	1051.8	954.0	865.2	773.3	668.6
25°	1290.7	1292.8	1298.1	1290.2	1261.1	1190.3	1083.5	971.5	871.0	765.9	644.3
27.5°	1334.6	1330.4	1336.2	1330.9	1298.1	1213.5	1089.9	967.2	858.4	738.9	601.0
30°	1368.9	1367.9	1377.9	1373.2	1330.4	1228.3	1084.0	951.4	827.2	683.4	532.8
32.5°	1388.5	1389.0	1391.7	1372.1	1308.7	1196.1	1055.5	919.1	768.5	611.0	444.0
35°	1394.8	1391.7	1376.9	1328.8	1242.1	1121.6	985.2	842.5	688.7	515.3	351.0
37.5°	1367.3	1351.0	1312.9	1241.0	1140.6	1028.0	895.4	745.8	579.3	407.0	261.6
40°	1262.2	1240.5	1192.4	1118.9	1025.4	916.5	780.7	624.2	449.3	298.6	183.9
42.5°	1104.7	1093.6	1043.4	979.4	900.1	790.2	650.1	491.5	332.5	206.1	117.3
45°	914.9	900.6	868.9	812.4	750.0	634.8	504.2	352.0	226.7	130.0	58.1
47.5°	686.1	687.1	665.4	622.6	561.3	465.1	345.1	236.3	142.2	67.1	13.2
50°	534.4	527.0	496.3	452.4	381.1	309.7	223.0	149.1	75.1	13.7	1.1
52.5°	296.0	300.7	284.4	270.1	233.1	185.0	131.6	75.6	15.9	1.6	1.1
55°	72.4	76.6	73.5	75.1	77.7	69.2	53.4	14.8	1.6	1.1	1.1
57.5°	1.6	1.6	1.6	1.6	2.6	3.7	3.7	1.1	1.1	1.1	1.1
60°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
62.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
65°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
67.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
70°	1.1	1.1	1.1	0.5	1.1	1.1	1.1	1.1	1.1	1.1	1.1
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.1
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1	1.1
77.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.1	1.1
82.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	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°	240.5	240.5	240.5	240.5	240.5	240.5	240.5	240.5
2.5°	322.4	312.4	293.9	238.9	191.9	154.9	132.7	130.6
5°	399.1	372.1	333.0	224.1	141.7	89.9	65.0	61.3
7.5°	459.8	421.8	361.5	199.8	96.7	46.0	25.4	21.1
10°	510.0	456.1	376.3	171.2	60.8	19.6	10.6	9.0
12.5°	544.4	479.4	379.0	139.5	34.9	9.5	6.9	6.3
15°	566.6	486.8	366.3	107.3	19.6	6.3	5.8	5.3
17.5°	575.6	480.4	342.0	77.7	10.6	4.8	4.8	4.8
20°	571.4	459.8	306.0	54.4	6.9	4.2	4.2	4.2
22.5°	551.3	424.4	261.1	36.5	4.8	3.7	3.7	3.7
25°	511.6	376.3	213.5	24.3	3.2	3.2	3.7	3.7
27.5°	452.4	317.1	163.3	16.4	2.6	3.2	3.7	3.7
30°	377.9	251.1	117.3	10.6	2.6	3.2	3.2	3.7
32.5°	300.2	182.9	77.2	6.3	2.1	3.2	3.7	4.2
35°	217.8	124.7	49.2	3.2	2.6	3.2	3.7	4.2
37.5°	152.7	81.4	28.5	2.1	2.6	3.2	4.2	4.2
40°	99.4	45.5	10.6	1.6	2.6	3.7	4.2	4.8
42.5°	51.8	15.9	2.1	1.6	2.6	3.7	4.8	5.3
45°	13.2	2.1	0.5	1.6	3.2	4.2	5.3	5.3
47.5°	1.6	0.5	0.5	2.1	3.2	4.8	5.3	5.8
50°	0.5	1.1	1.1	2.1	3.2	4.8	5.8	6.3
52.5°	1.1	1.1	1.1	2.1	3.7	4.8	6.3	6.9
55°	1.1	1.1	1.1	2.1	3.7	5.3	6.3	6.9
57.5°	1.1	1.1	1.1	2.1	3.7	5.3	6.3	6.3
60°	1.1	1.1	1.1	2.1	3.7	5.3	6.3	6.3
62.5°	1.1	1.1	1.6	2.1	3.7	4.8	6.3	6.3
65°	1.1	1.6	1.6	2.1	3.7	4.8	5.8	6.3
67.5°	1.1	1.1	1.6	2.1	3.7	4.8	5.8	6.3
70°	1.1	1.1	1.6	2.1	3.2	4.2	5.3	5.8
72.5°	1.1	1.1	1.6	2.1	3.2	4.2	4.8	5.3
75°	1.1	1.1	1.6	2.1	2.6	3.7	4.8	4.8
77.5°	1.1	1.1	1.6	1.6	2.6	3.2	4.2	4.2
80°	1.1	1.1	1.6	1.6	2.1	2.6	3.2	3.7
82.5°	1.1	1.1	1.1	1.6	1.6	2.1	2.6	2.6
85°	1.1	1.1	1.1	1.1	1.1	1.6	1.6	1.6
87.5°	0.5	1.1	1.1	1.1	1.1	1.1	1.1	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)