

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: P1326805

Luminaire Tested: LDSQA3D09R45W2N902765DE010 3LSQCA30R 1MW_3000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1326805
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_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R45 optic, 3000K CCT AND, 90CRI ,
3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

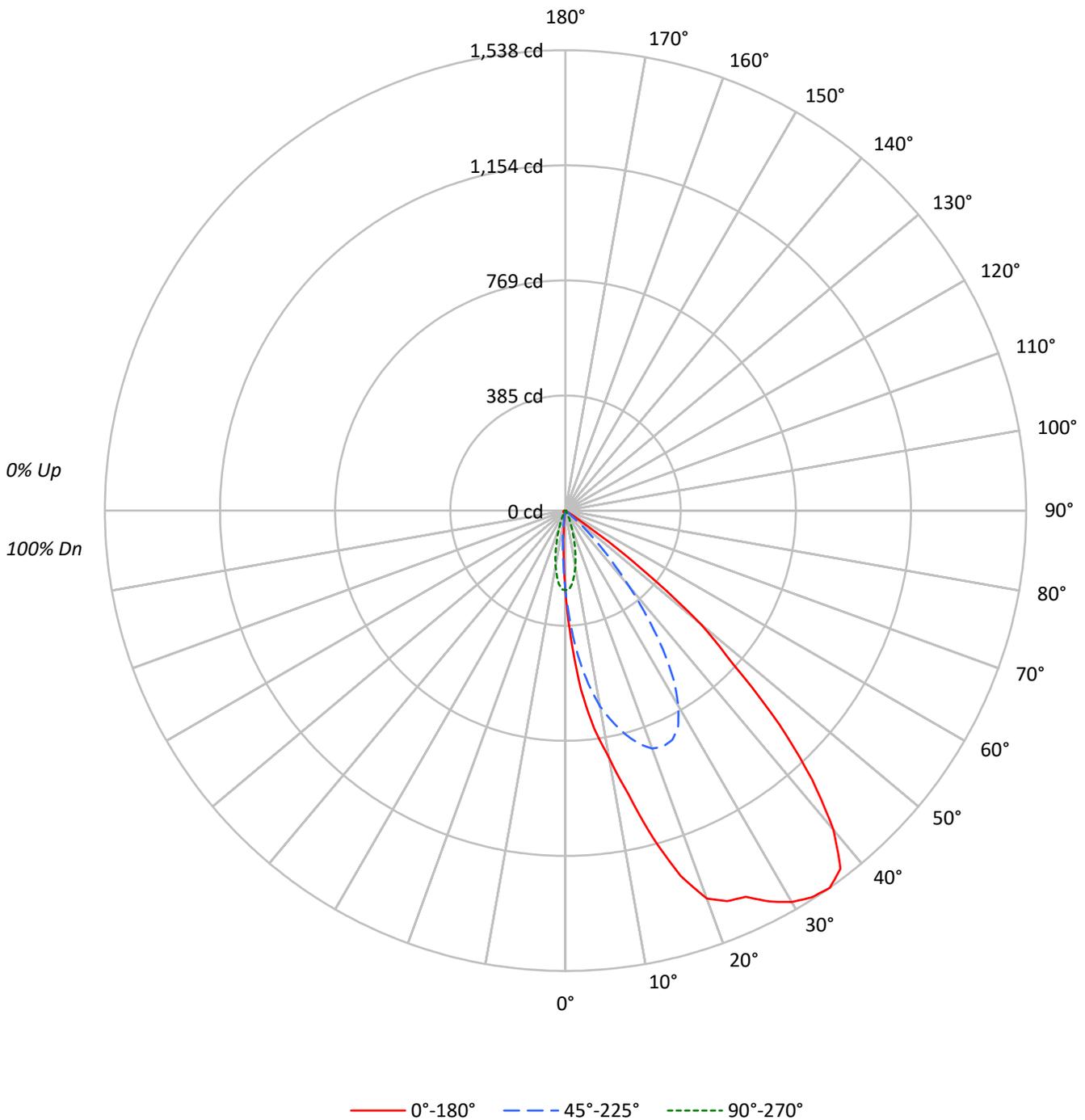
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 697.0 lumens
Efficiency: N/A
Efficacy: 77.4 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°	45673	45673	45673	45673	45673
5°	104091	84452	42736	17132	11687
10°	146689	115998	33035	3777	1731
15°	202154	138020	21093	1248	1034
20°	252774	155014	10997	861	861
25°	270503	160497	5093	665	779
30°	300227	149885	2327	696	815
35°	323420	119482	736	736	988
40°	312950	74033	382	922	1169
45°	245752	34926	414	1145	1413
50°	157892	4073	616	1393	1876
55°	23991	360	691	1742	2282
60°	413	413	792	1998	2411
65°	489	489	937	2119	2853
70°	604	604	1158	2367	3223
75°	399	799	1530	2728	3460
80°	595	1190	1686	2876	4066
85°	0	1186	2371	3359	3359

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 245752 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.0	4.2
10°-20°	104.9	15.1
20°-30°	184.4	26.5
30°-40°	209.4	30.0
40°-50°	135.6	19.4
50°-60°	26.6	3.8
60°-70°	3.2	0.5
70°-80°	2.7	0.4
80°-90°	1.2	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°	318.3	45.7
0°-40°	527.7	75.7
0°-60°	689.9	99.0
0°-90°	697.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	697.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	265	265	265	265	265	
5°	602	488	247	99	68	64
15°	1134	774	118	7	6	327
25°	1424	845	27	4	4	667
35°	1538	568	4	4	5	946
45°	1009	143	2	5	6	761
55°	80	1	2	6	8	152
65°	1	1	2	5	7	1
75°	1	1	2	4	5	1
85°	0	1	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°	265.2	265.2	265.2	265.2	265.2	265.2	265.2	265.2	265.2	265.2	265.2
2.5°	430.8	429.6	431.4	419.7	419.1	410.4	408.0	398.1	384.7	378.3	363.2
5°	602.1	596.3	596.3	582.3	577.7	567.8	550.8	529.9	512.4	488.5	462.8
7.5°	734.5	733.3	733.3	721.1	709.4	695.4	672.7	648.8	620.8	584.1	546.8
10°	838.8	840.6	835.3	824.2	807.3	792.2	765.4	736.2	701.8	663.3	613.8
12.5°	970.5	957.7	953.6	928.6	907.0	877.9	845.8	812.6	770.0	721.6	665.7
15°	1133.8	1117.4	1101.1	1067.9	1031.7	986.9	936.7	887.8	833.0	774.1	704.2
17.5°	1279.5	1279.5	1257.9	1205.5	1158.8	1092.4	1024.7	959.5	894.8	817.2	729.8
20°	1379.2	1373.9	1357.6	1319.1	1266.1	1190.9	1102.9	1011.3	933.2	845.8	744.4
22.5°	1411.8	1410.6	1411.2	1388.5	1345.9	1267.8	1160.0	1052.1	954.2	852.8	737.4
25°	1423.5	1425.8	1431.6	1422.9	1390.8	1312.7	1195.0	1071.4	960.6	844.6	710.6
27.5°	1471.8	1467.2	1473.6	1467.8	1431.6	1338.4	1202.0	1066.7	946.6	814.9	662.8
30°	1509.7	1508.6	1519.6	1514.4	1467.2	1354.7	1195.5	1049.2	912.2	753.7	587.6
32.5°	1531.3	1531.9	1534.8	1513.2	1443.3	1319.1	1164.1	1013.7	847.5	673.8	489.6
35°	1538.3	1534.8	1518.5	1465.4	1369.8	1236.9	1086.5	929.2	759.5	568.3	387.0
37.5°	1508.0	1489.9	1447.9	1368.7	1257.9	1133.8	987.4	822.5	638.9	448.8	288.5
40°	1392.0	1368.1	1315.0	1234.0	1130.8	1010.8	861.0	688.4	495.5	329.3	202.9
42.5°	1218.3	1206.0	1150.7	1080.1	992.7	871.4	717.0	542.1	366.6	227.3	129.4
45°	1009.0	993.3	958.3	895.9	827.1	700.1	556.1	388.2	250.1	143.4	64.1
47.5°	756.6	757.8	733.9	686.7	619.0	513.0	380.6	260.6	156.8	74.0	14.6
50°	589.3	581.2	547.3	499.0	420.3	341.6	246.0	164.4	82.8	15.2	1.2
52.5°	326.4	331.7	313.6	297.9	257.1	204.0	145.1	83.4	17.5	1.7	1.2
55°	79.9	84.5	81.0	82.8	85.7	76.4	58.9	16.3	1.7	1.2	1.2
57.5°	1.7	1.7	1.7	1.7	2.9	4.1	4.1	1.2	1.2	1.2	1.2
60°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
62.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
65°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
67.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
70°	1.2	1.2	1.2	0.6	1.2	1.2	1.2	1.2	1.2	1.2	1.2
72.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2
75°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2
82.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	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	0.6	0.6	0.6	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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	265.2	265.2	265.2	265.2	265.2	265.2	265.2	265.2
2.5°	355.6	344.5	324.1	263.5	211.6	170.8	146.3	144.0
5°	440.1	410.4	367.2	247.2	156.2	99.1	71.7	67.6
7.5°	507.1	465.2	398.7	220.3	106.7	50.7	28.0	23.3
10°	562.5	503.0	415.0	188.9	67.0	21.6	11.7	9.9
12.5°	600.4	528.7	417.9	153.9	38.5	10.5	7.6	7.0
15°	624.9	536.9	404.0	118.3	21.6	7.0	6.4	5.8
17.5°	634.8	529.9	377.1	85.7	11.7	5.2	5.2	5.2
20°	630.1	507.1	337.5	60.0	7.6	4.7	4.7	4.7
22.5°	608.0	468.1	288.0	40.2	5.2	4.1	4.1	4.1
25°	564.3	415.0	235.5	26.8	3.5	3.5	4.1	4.1
27.5°	499.0	349.7	180.1	18.1	2.9	3.5	4.1	4.1
30°	416.8	276.9	129.4	11.7	2.9	3.5	3.5	4.1
32.5°	331.1	201.7	85.1	7.0	2.3	3.5	4.1	4.7
35°	240.2	137.6	54.2	3.5	2.9	3.5	4.1	4.7
37.5°	168.5	89.8	31.5	2.3	2.9	3.5	4.7	4.7
40°	109.6	50.1	11.7	1.7	2.9	4.1	4.7	5.2
42.5°	57.1	17.5	2.3	1.7	2.9	4.1	5.2	5.8
45°	14.6	2.3	0.6	1.7	3.5	4.7	5.8	5.8
47.5°	1.7	0.6	0.6	2.3	3.5	5.2	5.8	6.4
50°	0.6	1.2	1.2	2.3	3.5	5.2	6.4	7.0
52.5°	1.2	1.2	1.2	2.3	4.1	5.2	7.0	7.6
55°	1.2	1.2	1.2	2.3	4.1	5.8	7.0	7.6
57.5°	1.2	1.2	1.2	2.3	4.1	5.8	7.0	7.0
60°	1.2	1.2	1.2	2.3	4.1	5.8	7.0	7.0
62.5°	1.2	1.2	1.7	2.3	4.1	5.2	7.0	7.0
65°	1.2	1.7	1.7	2.3	4.1	5.2	6.4	7.0
67.5°	1.2	1.2	1.7	2.3	4.1	5.2	6.4	7.0
70°	1.2	1.2	1.7	2.3	3.5	4.7	5.8	6.4
72.5°	1.2	1.2	1.7	2.3	3.5	4.7	5.2	5.8
75°	1.2	1.2	1.7	2.3	2.9	4.1	5.2	5.2
77.5°	1.2	1.2	1.7	1.7	2.9	3.5	4.7	4.7
80°	1.2	1.2	1.7	1.7	2.3	2.9	3.5	4.1
82.5°	1.2	1.2	1.2	1.7	1.7	2.3	2.9	2.9
85°	1.2	1.2	1.2	1.2	1.2	1.7	1.7	1.7
87.5°	0.6	1.2	1.2	1.2	1.2	1.2	1.2	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)