

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: P1326809

Luminaire Tested: LDSQA3D09R45W2N902765DE010 3LSQCA30R 1MW_6500K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1326809
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_6500K
Description: 3in Adjustable Tunable White LED luminaire with, R45 optic, 6500K CCT AND, 90CRI ,
3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

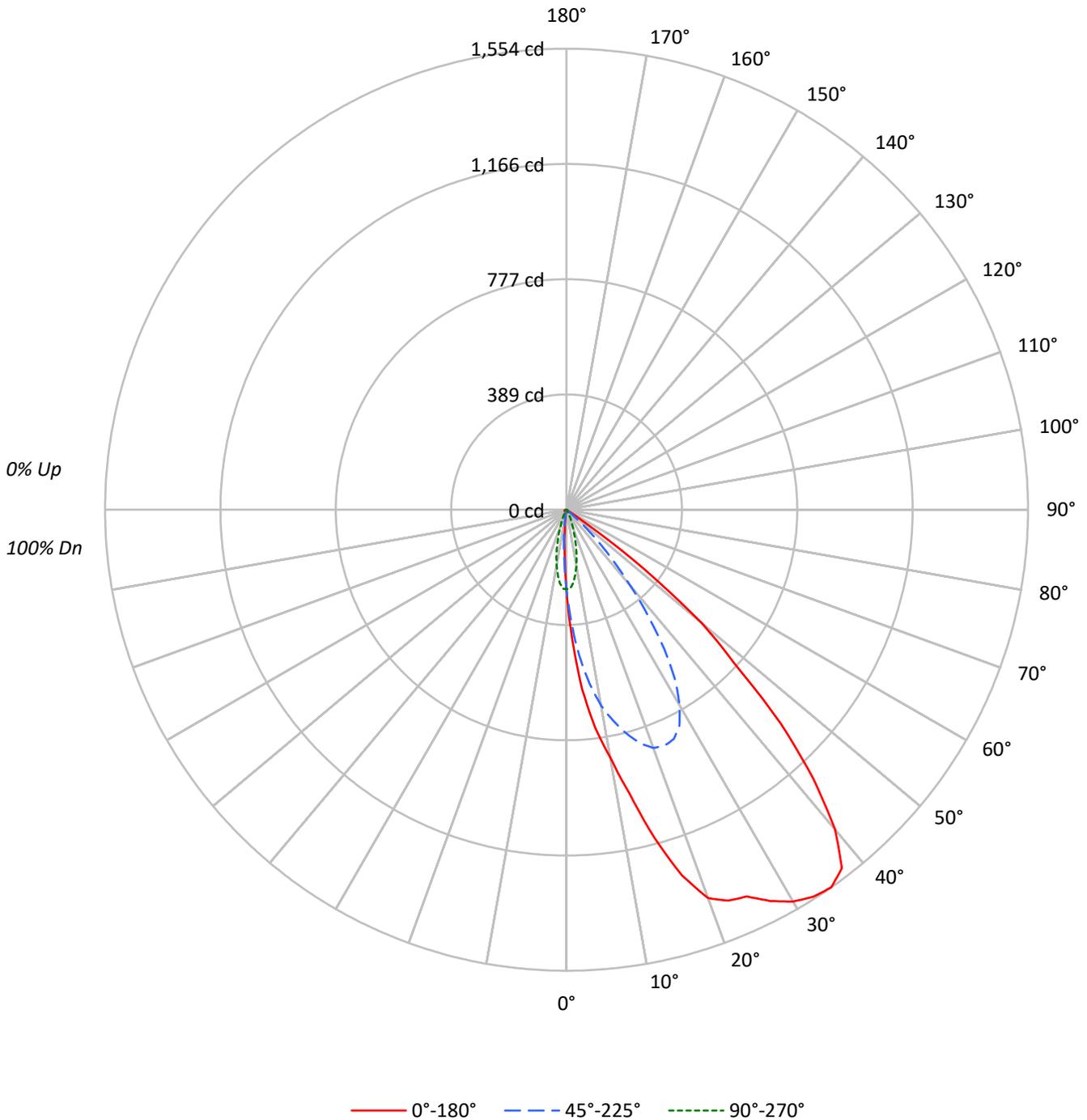
Lumens per Lamp: N/A
Luminaire Lumens: 704.1 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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°	46138	46138	46138	46138	46138
5°	105146	85299	43151	17305	11808
10°	148158	117169	33367	3812	1749
15°	204169	139411	21307	1266	1052
20°	255303	156572	11106	861	861
25°	273220	162112	5150	665	779
30°	303250	151396	2347	696	815
35°	326658	120681	736	736	988
40°	316098	74775	405	922	1192
45°	248212	35267	438	1145	1437
50°	159472	4099	643	1420	1902
55°	24231	360	721	1772	2312
60°	413	413	827	2032	2446
65°	489	489	978	2160	2893
70°	604	604	1209	2367	3273
75°	399	799	1597	2728	3527
80°	595	1190	1785	2876	4066
85°	0	1186	2371	3557	3557

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 248212 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.3	4.2
10°-20°	106.0	15.1
20°-30°	186.2	26.4
30°-40°	211.5	30.0
40°-50°	136.9	19.4
50°-60°	26.9	3.8
60°-70°	3.3	0.5
70°-80°	2.7	0.4
80°-90°	1.3	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°	321.5	45.7
0°-40°	533.0	75.7
0°-60°	696.8	99.0
0°-90°	704.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	704.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	268	268	268	268	268	
5°	608	493	250	100	68	65
15°	1145	782	120	7	6	330
25°	1438	853	27	4	4	674
35°	1554	574	4	4	5	955
45°	1019	145	2	5	6	768
55°	81	1	2	6	8	154
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°	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9
2.5°	435.1	433.9	435.7	423.9	423.3	414.5	412.1	402.1	388.6	382.1	366.8
5°	608.2	602.3	602.3	588.2	583.5	573.5	556.4	535.2	517.5	493.4	467.5
7.5°	741.8	740.7	740.7	728.3	716.5	702.4	679.4	655.3	627.0	589.9	552.3
10°	847.2	849.0	843.7	832.5	815.4	800.1	773.0	743.6	708.9	670.0	620.0
12.5°	980.3	967.3	963.2	937.9	916.1	886.7	854.3	820.7	777.8	728.9	672.4
15°	1145.1	1128.7	1112.2	1078.6	1042.1	996.8	946.1	896.7	841.3	781.9	711.2
17.5°	1292.3	1292.3	1270.5	1217.6	1170.5	1103.3	1035.0	969.1	903.7	825.4	737.1
20°	1393.0	1387.7	1371.2	1332.4	1278.8	1202.8	1113.9	1021.5	942.6	854.3	751.8
22.5°	1426.0	1424.8	1425.4	1402.4	1359.4	1280.6	1171.6	1062.7	963.8	861.4	744.8
25°	1437.8	1440.1	1446.0	1437.2	1404.8	1325.9	1207.0	1082.1	970.3	853.1	717.7
27.5°	1486.6	1481.9	1488.4	1482.5	1446.0	1351.8	1214.0	1077.4	956.1	823.1	669.4
30°	1524.9	1523.7	1534.9	1529.6	1481.9	1368.3	1207.5	1059.8	921.4	761.3	593.5
32.5°	1546.7	1547.3	1550.2	1528.4	1457.8	1332.4	1175.8	1023.9	856.1	680.6	494.6
35°	1553.7	1550.2	1533.7	1480.1	1383.6	1249.4	1097.4	938.5	767.2	574.0	390.9
37.5°	1523.1	1504.9	1462.5	1382.4	1270.5	1145.1	997.4	830.7	645.3	453.3	291.4
40°	1406.0	1381.8	1328.2	1246.4	1142.2	1020.9	869.6	695.3	500.4	332.6	204.9
42.5°	1230.5	1218.1	1162.2	1091.0	1002.7	880.2	724.2	547.5	370.3	229.6	130.7
45°	1019.1	1003.2	967.9	904.9	835.5	707.1	561.7	392.1	252.6	144.8	64.8
47.5°	764.2	765.4	741.2	693.6	625.3	518.1	384.5	263.2	158.4	74.8	14.7
50°	595.2	587.0	552.8	504.0	424.5	345.0	248.5	166.0	83.6	15.3	1.2
52.5°	329.7	335.0	316.8	300.9	259.6	206.1	146.6	84.2	17.7	1.8	1.2
55°	80.7	85.4	81.8	83.6	86.5	77.1	59.5	16.5	1.8	1.2	1.2
57.5°	1.8	1.8	1.8	1.8	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°	267.9	267.9	267.9	267.9	267.9	267.9	267.9	267.9
2.5°	359.1	348.0	327.4	266.1	213.7	172.5	147.8	145.4
5°	444.5	414.5	370.9	249.6	157.8	100.1	72.4	68.3
7.5°	512.2	469.8	402.7	222.6	107.7	51.2	28.3	23.6
10°	568.2	508.1	419.2	190.8	67.7	21.8	11.8	10.0
12.5°	606.4	534.0	422.1	155.4	38.9	10.6	7.7	7.1
15°	631.2	542.2	408.0	119.5	21.8	7.1	6.5	5.9
17.5°	641.2	535.2	380.9	86.5	11.8	5.3	5.3	5.3
20°	636.5	512.2	340.9	60.6	7.7	4.7	4.7	4.7
22.5°	614.1	472.8	290.8	40.6	5.3	4.1	4.1	4.1
25°	569.9	419.2	237.9	27.1	3.5	3.5	4.1	4.1
27.5°	504.0	353.3	181.9	18.3	2.9	3.5	4.1	4.1
30°	421.0	279.7	130.7	11.8	2.9	3.5	3.5	4.1
32.5°	334.4	203.7	86.0	7.1	2.4	3.5	4.1	4.7
35°	242.6	138.9	54.8	3.5	2.9	3.5	4.1	4.7
37.5°	170.2	90.7	31.8	2.4	2.9	3.5	4.7	4.7
40°	110.7	50.6	11.8	1.8	2.9	4.1	4.7	5.3
42.5°	57.7	17.7	2.4	1.8	2.9	4.1	5.3	5.9
45°	14.7	2.4	0.6	1.8	3.5	4.7	5.9	5.9
47.5°	1.8	0.6	0.6	2.4	3.5	5.3	5.9	6.5
50°	0.6	1.2	1.2	2.4	3.5	5.3	6.5	7.1
52.5°	1.2	1.2	1.2	2.4	4.1	5.3	7.1	7.7
55°	1.2	1.2	1.2	2.4	4.1	5.9	7.1	7.7
57.5°	1.2	1.2	1.2	2.4	4.1	5.9	7.1	7.1
60°	1.2	1.2	1.2	2.4	4.1	5.9	7.1	7.1
62.5°	1.2	1.2	1.8	2.4	4.1	5.3	7.1	7.1
65°	1.2	1.8	1.8	2.4	4.1	5.3	6.5	7.1
67.5°	1.2	1.2	1.8	2.4	4.1	5.3	6.5	7.1
70°	1.2	1.2	1.8	2.4	3.5	4.7	5.9	6.5
72.5°	1.2	1.2	1.8	2.4	3.5	4.7	5.3	5.9
75°	1.2	1.2	1.8	2.4	2.9	4.1	5.3	5.3
77.5°	1.2	1.2	1.8	1.8	2.9	3.5	4.7	4.7
80°	1.2	1.2	1.8	1.8	2.4	2.9	3.5	4.1
82.5°	1.2	1.2	1.2	1.8	1.8	2.4	2.9	2.9
85°	1.2	1.2	1.2	1.2	1.2	1.8	1.8	1.8
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)