

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: P1312446

Luminaire Tested: LDSQA3D09R559050DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1312446  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-66)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R559050DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R55 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

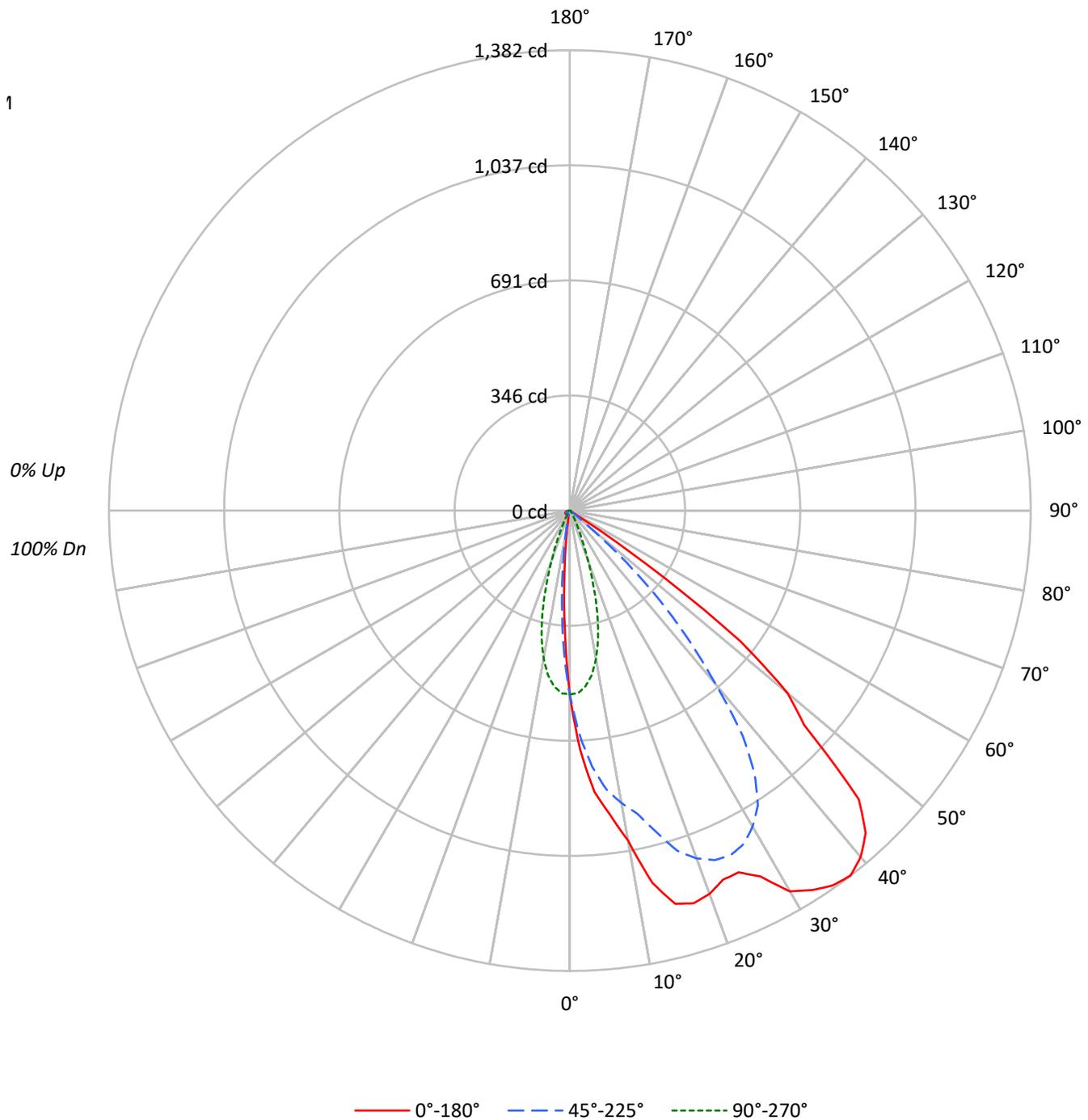
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 920.0 lumens  
Efficiency: N/A  
Efficacy: 82.9 lumens/watt  
Spacing Criteria (0/90/45): 1.79 / 0.55 / 1.22  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.1  
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

TEST NUMBER: P1312446  
CATALOG NUMBER: LDSQA3D09R559050DE010 3LSQCA30R 1MW

### 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	50	30	10	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	88	86	83	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	75	71	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	59	54	50	48
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	54	49	45	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	50	45	41	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	47	42	38	37

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	94964	94964	94964	94964	94964
5°	146447	133325	91730	47110	30946
10°	175946	155835	78958	11874	4757
15°	217862	177959	56431	3281	2567
20°	224384	203582	29141	2199	2199
25°	227633	216858	11687	1976	2280
30°	262383	217877	5091	2068	2386
35°	288814	203139	2187	2187	2691
40°	305082	152901	1259	2518	2878
45°	298385	93429	1169	2728	3507
50°	228250	19907	1286	3215	4073
55°	83743	721	1441	3603	4564
60°	827	827	1653	4133	5236
65°	978	978	1956	4238	5542
70°	806	1209	2014	4834	6445
75°	532	1065	2129	5323	7453
80°	793	1587	2380	5554	7934
85°	0	1581	3162	6323	7904

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 298385 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.5	5.3
10°-20°	139.0	15.1
20°-30°	213.3	23.2
30°-40°	248.5	27.0
40°-50°	198.6	21.6
50°-60°	58.8	6.4
60°-70°	6.3	0.7
70°-80°	4.9	0.5
80°-90°	2.1	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°	400.8	43.6
0°-40°	649.3	70.6
0°-60°	906.7	98.5
0°-90°	920.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	920.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	551	551	551	551	551	
5°	847	771	531	272	179	84
15°	1222	998	316	18	14	337
25°	1198	1141	62	10	12	569
35°	1374	966	10	10	13	856
45°	1225	384	5	11	14	883
55°	279	2	5	12	15	295
65°	2	2	5	10	14	2
75°	1	2	3	8	11	1
85°	0	1	2	3	4	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°	551.4	551.4	551.4	551.4	551.4	551.4	551.4	551.4	551.4	551.4	551.4
2.5°	719.2	719.2	716.8	717.6	716.0	707.3	705.7	694.5	684.9	674.5	665.7
5°	847.1	848.7	846.3	841.5	835.1	828.7	815.1	804.7	791.2	771.2	752.8
7.5°	919.8	918.2	914.2	912.6	908.6	901.4	891.9	880.7	864.7	844.7	823.1
10°	1006.1	992.5	988.6	982.2	969.4	955.0	938.2	923.0	909.4	891.1	867.9
12.5°	1145.2	1142.8	1126.8	1114.8	1097.2	1065.3	1036.5	1002.9	963.0	931.0	900.6
15°	1221.9	1223.5	1216.3	1206.7	1195.5	1169.2	1140.4	1101.2	1054.1	998.1	948.6
17.5°	1235.5	1237.9	1233.9	1229.9	1226.7	1211.5	1193.9	1166.0	1122.8	1070.9	997.3
20°	1224.3	1229.1	1229.9	1234.7	1241.1	1234.7	1220.3	1201.1	1165.2	1110.8	1040.5
22.5°	1199.5	1208.3	1214.7	1231.5	1248.3	1248.3	1239.5	1224.3	1189.1	1135.6	1063.7
25°	1197.9	1199.5	1201.9	1229.1	1255.5	1261.1	1253.1	1237.1	1198.7	1141.2	1062.9
27.5°	1237.9	1227.5	1211.5	1238.7	1269.9	1274.7	1263.5	1241.9	1196.3	1128.4	1035.7
30°	1319.4	1296.2	1262.7	1282.6	1304.2	1298.6	1276.2	1241.9	1180.4	1095.6	984.6
32.5°	1350.6	1337.8	1325.8	1347.4	1351.4	1328.2	1288.2	1237.1	1154.8	1049.3	900.6
35°	1373.7	1374.5	1369.8	1373.7	1354.6	1321.8	1277.8	1210.7	1106.8	966.2	789.6
37.5°	1381.7	1383.3	1372.9	1358.6	1329.8	1292.2	1239.5	1162.8	1026.9	851.9	621.7
40°	1357.0	1352.2	1335.4	1315.4	1284.2	1245.9	1188.3	1074.1	907.8	680.1	485.1
42.5°	1313.0	1305.0	1285.0	1261.1	1228.3	1179.6	1087.6	949.4	737.6	530.6	339.6
45°	1225.1	1219.5	1194.7	1177.2	1138.0	1074.9	956.6	782.4	570.6	383.6	196.6
47.5°	951.8	952.6	971.8	980.6	967.0	916.6	777.6	594.6	416.4	228.6	66.3
50°	851.9	847.9	828.7	802.4	758.4	683.3	570.6	420.4	246.1	74.3	9.6
52.5°	646.5	646.5	636.9	623.3	577.0	504.3	386.0	232.6	86.3	12.8	2.4
55°	278.9	264.5	272.5	287.7	275.7	239.7	180.6	69.5	15.2	2.4	2.4
57.5°	4.0	9.6	14.4	23.2	31.2	37.6	20.0	7.2	2.4	2.4	2.4
60°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
62.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
65°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
67.5°	1.6	1.6	1.6	2.4	1.6	2.4	2.4	2.4	2.4	2.4	2.4
70°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	2.4	2.4
72.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
75°	0.8	0.8	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.6
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8
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°	551.4	551.4	551.4	551.4	551.4	551.4	551.4	551.4
2.5°	652.9	639.3	616.9	549.0	478.7	414.0	367.6	350.0
5°	732.0	707.3	669.7	530.6	390.8	272.5	205.4	179.0
7.5°	794.4	762.4	708.1	498.7	286.9	145.4	87.1	68.7
10°	835.9	800.8	729.6	451.5	190.2	67.9	32.8	27.2
12.5°	866.3	822.3	737.6	390.8	111.9	31.2	17.6	16.0
15°	888.7	831.9	728.0	316.5	61.5	18.4	14.4	14.4
17.5°	919.8	836.7	704.9	233.4	35.2	13.6	13.6	13.6
20°	943.8	836.7	660.9	159.0	21.6	12.0	12.0	12.0
22.5°	955.8	823.9	607.4	100.7	15.2	11.2	12.0	12.0
25°	943.8	792.8	538.6	61.5	12.0	10.4	11.2	12.0
27.5°	899.8	730.4	446.7	39.2	9.6	10.4	11.2	12.0
30°	826.3	640.1	342.8	25.6	8.8	10.4	11.2	12.0
32.5°	722.4	505.9	222.2	16.8	8.0	10.4	11.2	12.0
35°	564.2	358.0	134.3	10.4	8.0	10.4	12.0	12.8
37.5°	422.8	238.9	72.7	6.4	8.0	10.4	12.0	12.8
40°	293.3	139.1	31.2	5.6	8.0	11.2	12.8	12.8
42.5°	170.2	55.1	8.0	4.8	8.0	11.2	12.8	13.6
45°	62.3	11.2	2.4	4.8	8.8	11.2	12.8	14.4
47.5°	8.8	2.4	2.4	4.8	8.8	11.2	13.6	14.4
50°	2.4	2.4	2.4	4.8	8.8	12.0	14.4	15.2
52.5°	2.4	2.4	2.4	4.8	8.8	12.0	14.4	15.2
55°	2.4	2.4	2.4	4.8	8.8	12.0	14.4	15.2
57.5°	2.4	2.4	2.4	4.8	8.8	12.0	14.4	15.2
60°	2.4	2.4	2.4	4.8	8.0	12.0	14.4	15.2
62.5°	2.4	2.4	2.4	4.8	8.0	11.2	13.6	14.4
65°	2.4	2.4	2.4	4.8	7.2	10.4	13.6	13.6
67.5°	2.4	2.4	2.4	4.0	7.2	10.4	12.8	13.6
70°	2.4	2.4	2.4	4.0	6.4	9.6	12.0	12.8
72.5°	2.4	2.4	2.4	3.2	5.6	8.8	11.2	12.0
75°	1.6	2.4	2.4	3.2	5.6	8.0	10.4	11.2
77.5°	1.6	2.4	2.4	2.4	4.8	6.4	8.8	9.6
80°	1.6	1.6	2.4	2.4	4.0	5.6	7.2	8.0
82.5°	1.6	1.6	1.6	2.4	3.2	4.0	5.6	5.6
85°	1.6	1.6	1.6	1.6	2.4	3.2	4.0	4.0
87.5°	0.8	0.8	1.6	1.6	1.6	1.6	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)