

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: P1319424

Luminaire Tested: LDSQA3D17R509835DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319424
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R509835DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

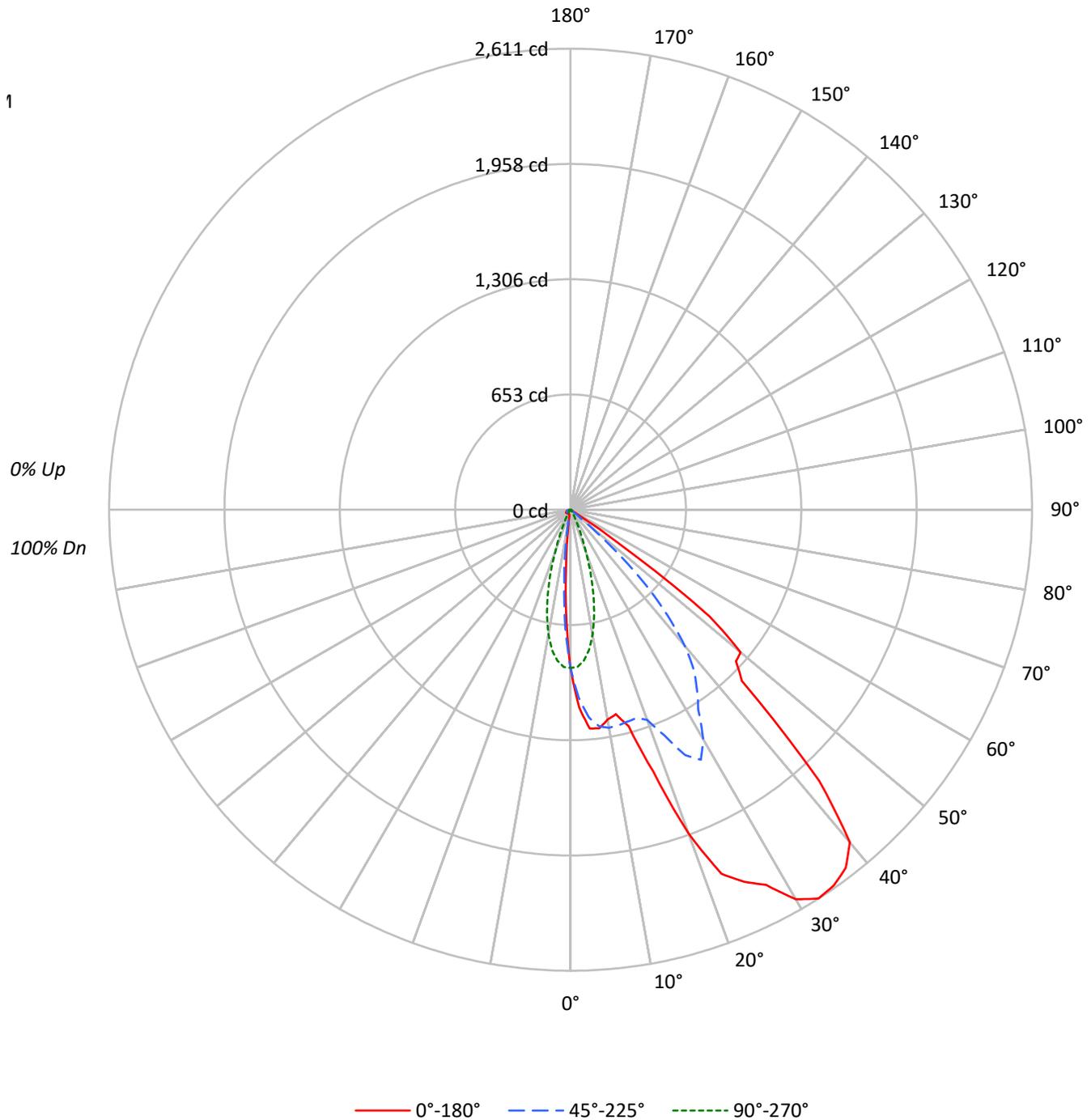
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1393.0 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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: P1319424
CATALOG NUMBER: LDSQA3D17R509835DE010 3LSQCA30R 1MW

Luminous Intensity Polar Plot





TEST NUMBER: P1319424

CATALOG NUMBER: LDSQA3D17R509835DE010 3LSQCA30R 1MW

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	101	102	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	85	83	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	60	58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	63	58	54	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	50	45	41	39
10	61	50	42	38	60	49	42	38	48	42	38	47	42	37	46	41	37	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	154243	154243	154243	154243	154243
5°	215063	204034	148245	71261	46228
10°	211114	219264	125301	15022	6436
15°	226403	221589	88596	5242	5028
20°	357497	232045	46772	4490	4729
25°	441774	291406	18642	4200	4656
30°	506491	298875	7557	4156	4872
35°	546048	262323	3343	4394	5424
40°	552744	225900	2473	4969	6070
45°	334066	146404	2387	5383	6868
50°	336602	25319	2626	6243	7877
55°	99446	1471	2943	6996	8828
60°	1688	1688	2962	7612	9713
65°	1508	1508	3016	7987	10514
70°	1863	1863	3072	8661	11733
75°	1664	1664	3261	8983	12244
80°	1190	2479	3670	8529	13389
85°	2371	4940	4940	9683	12054

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 381585 cd/sqm



TEST NUMBER: P1319424

CATALOG NUMBER: LDSQA3D17R509835DE010 3LSQCA30R 1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	72.4	5.2
10°-20°	179.8	12.9
20°-30°	336.9	24.2
30°-40°	402.8	28.9
40°-50°	288.6	20.7
50°-60°	88.9	6.4
60°-70°	11.6	0.8
70°-80°	8.5	0.6
80°-90°	3.5	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°	589.1	42.3
0°-40°	991.9	71.2
0°-60°	1369.5	98.3
0°-90°	1393.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1393.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	896	896	896	896	896	
5°	1244	1180	858	412	267	116
15°	1270	1243	497	29	28	407
25°	2325	1534	98	22	24	1071
35°	2597	1248	16	21	26	1611
45°	1372	601	10	22	28	1260
55°	331	5	10	23	29	426
65°	4	4	7	20	26	4
75°	2	2	5	14	18	2
85°	1	2	2	5	6	1
90°	0	0	0	0	0	



TEST NUMBER: P1319424

CATALOG NUMBER: LDSQA3D17R509835DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	895.6	895.6	895.6	895.6	895.6	895.6	895.6	895.6	895.6	895.6	895.6
2.5°	1120.1	1122.5	1126.2	1116.4	1110.3	1105.4	1096.8	1094.3	1073.5	1064.9	1056.3
5°	1244.0	1241.5	1244.0	1240.3	1237.9	1230.5	1223.1	1210.9	1197.4	1180.2	1160.6
7.5°	1247.7	1245.2	1250.1	1250.1	1255.0	1255.0	1255.0	1256.3	1248.9	1236.6	1219.5
10°	1207.2	1207.2	1212.1	1209.6	1218.2	1221.9	1230.5	1245.2	1252.6	1253.8	1248.9
12.5°	1186.3	1186.3	1187.6	1182.7	1185.1	1188.8	1198.6	1215.8	1233.0	1250.1	1259.9
15°	1269.8	1272.2	1255.0	1230.5	1212.1	1192.5	1186.3	1197.4	1215.8	1242.8	1264.9
17.5°	1553.2	1556.8	1538.4	1479.5	1423.1	1342.1	1269.8	1234.2	1214.6	1236.6	1266.1
20°	1950.6	1937.2	1905.3	1842.7	1760.5	1635.4	1522.5	1408.4	1299.2	1266.1	1275.9
22.5°	2231.6	2226.7	2200.9	2131.0	2059.8	1943.3	1799.7	1640.3	1482.0	1381.4	1328.6
25°	2324.8	2321.1	2297.8	2256.1	2216.9	2128.5	1999.7	1839.0	1673.4	1533.5	1401.0
27.5°	2394.8	2389.9	2353.0	2306.4	2265.9	2176.4	2058.6	1937.2	1785.0	1596.1	1392.4
30°	2546.9	2533.4	2481.9	2398.4	2321.1	2197.2	2067.2	1916.3	1710.2	1502.9	1304.1
32.5°	2610.7	2603.3	2559.2	2491.7	2407.0	2245.1	2047.6	1794.8	1523.7	1344.6	1199.8
35°	2597.2	2586.1	2540.7	2463.5	2360.4	2204.6	1940.8	1593.6	1372.8	1247.7	1084.5
37.5°	2556.7	2540.7	2486.8	2396.0	2270.8	2067.2	1722.5	1430.5	1288.2	1147.1	927.5
40°	2458.6	2432.8	2370.2	2275.8	2150.6	1883.2	1523.7	1332.3	1199.8	1004.8	752.0
42.5°	2083.1	2069.6	2100.3	2084.4	1974.0	1658.7	1382.6	1242.8	1060.0	812.2	544.7
45°	1371.6	1394.9	1450.1	1544.6	1566.7	1426.8	1267.3	1095.6	872.3	601.1	314.1
47.5°	1269.8	1264.9	1278.3	1296.8	1300.4	1241.5	1096.8	905.4	647.8	343.5	87.1
50°	1256.3	1248.9	1237.9	1215.8	1169.2	1055.1	890.7	660.0	374.2	94.5	6.1
52.5°	992.5	985.1	985.1	953.2	893.1	782.7	614.6	363.1	104.3	6.1	4.9
55°	331.2	353.3	349.6	348.4	375.4	346.0	265.0	93.2	8.6	4.9	4.9
57.5°	6.1	6.1	6.1	11.0	17.2	24.5	14.7	7.4	4.9	4.9	4.9
60°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
62.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
65°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	4.9
67.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
70°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
72.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.7	3.7	3.7
75°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.7
77.5°	1.2	1.2	1.2	1.2	2.5	2.5	2.5	2.5	2.5	2.5	2.5
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5	2.5
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1319424

CATALOG NUMBER: LDSQA3D17R509835DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	895.6	895.6	895.6	895.6	895.6	895.6	895.6	895.6
2.5°	1036.7	1019.5	986.4	891.9	787.6	668.6	587.6	577.8
5°	1129.9	1104.1	1050.2	857.5	619.5	412.2	306.7	267.4
7.5°	1191.2	1156.9	1090.6	801.1	451.5	217.1	116.5	93.2
10°	1228.0	1196.2	1111.5	716.5	287.1	85.9	39.3	36.8
12.5°	1247.7	1217.0	1118.9	614.6	161.9	39.3	30.7	30.7
15°	1261.2	1228.0	1107.8	496.9	81.0	29.4	28.2	28.2
17.5°	1267.3	1226.8	1075.9	374.2	42.9	27.0	27.0	27.0
20°	1271.0	1213.3	1017.0	255.2	29.4	24.5	25.8	25.8
22.5°	1274.7	1180.2	939.7	161.9	23.3	23.3	24.5	24.5
25°	1267.3	1122.5	830.6	98.1	20.9	22.1	23.3	24.5
27.5°	1214.6	1035.4	698.1	60.1	18.4	20.9	23.3	24.5
30°	1123.8	907.8	544.7	38.0	17.2	20.9	23.3	24.5
32.5°	1006.0	761.9	388.9	23.3	17.2	20.9	23.3	24.5
35°	847.7	582.7	252.7	15.9	17.2	20.9	24.5	25.8
37.5°	669.8	407.3	136.2	12.3	17.2	20.9	24.5	25.8
40°	482.1	244.1	49.1	11.0	15.9	22.1	25.8	27.0
42.5°	282.2	90.8	8.6	9.8	15.9	22.1	25.8	27.0
45°	81.0	9.8	4.9	9.8	15.9	22.1	27.0	28.2
47.5°	6.1	3.7	4.9	9.8	15.9	22.1	27.0	29.4
50°	3.7	3.7	3.7	9.8	15.9	23.3	28.2	29.4
52.5°	4.9	4.9	4.9	9.8	15.9	23.3	28.2	29.4
55°	4.9	4.9	4.9	9.8	15.9	23.3	28.2	29.4
57.5°	4.9	4.9	4.9	9.8	15.9	22.1	28.2	29.4
60°	4.9	4.9	4.9	8.6	14.7	22.1	27.0	28.2
62.5°	4.9	4.9	4.9	8.6	14.7	20.9	27.0	27.0
65°	4.9	4.9	4.9	7.4	13.5	19.6	24.5	25.8
67.5°	4.9	4.9	4.9	7.4	12.3	18.4	23.3	24.5
70°	3.7	4.9	4.9	6.1	11.0	17.2	22.1	23.3
72.5°	3.7	3.7	4.9	6.1	9.8	14.7	19.6	20.9
75°	3.7	3.7	3.7	4.9	8.6	13.5	17.2	18.4
77.5°	3.7	3.7	3.7	4.9	7.4	11.0	15.9	15.9
80°	2.5	3.7	3.7	3.7	6.1	8.6	12.3	13.5
82.5°	2.5	2.5	2.5	3.7	4.9	7.4	9.8	9.8
85°	2.5	2.5	2.5	2.5	3.7	4.9	6.1	6.1
87.5°	1.2	2.5	2.5	2.5	2.5	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)