

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: P1319455

Luminaire Tested: LDSQA3D17R709835DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

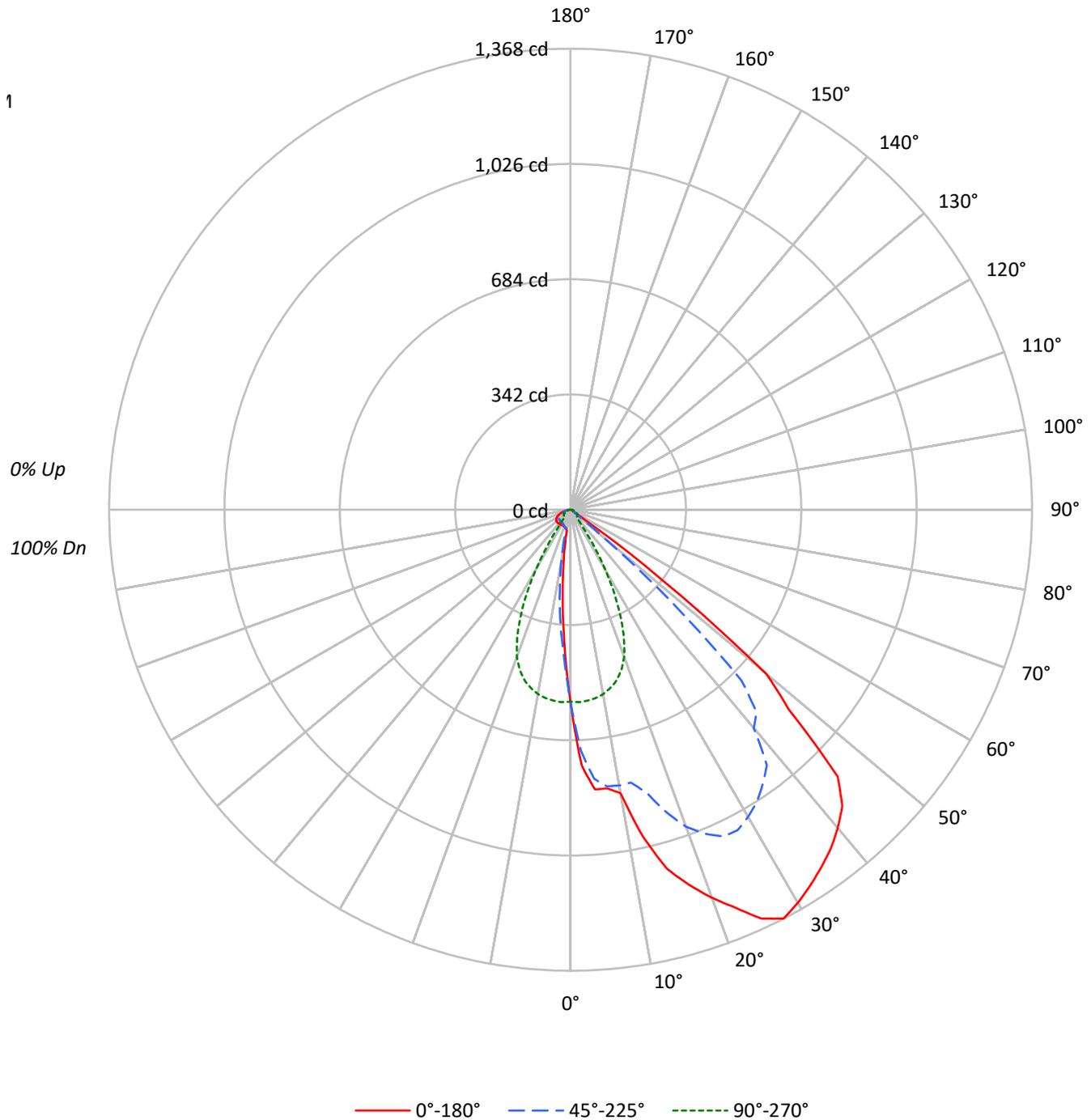
Test Method: LM-79-2019  
Report Number: P1319455  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R709835DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1081.0 lumens  
Efficiency: N/A  
Efficacy: 53.0 lumens/watt  
Spacing Criteria (0/90/45): 1.7 / 0.89 / 1.39  
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 (A<sub>in</sub>): 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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90	90	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80	80	80
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	71	71	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64	64	64
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	62	59	57	57	57
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51	51	51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46	46	46
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	42	42	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38	38	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	35	35	35

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

	0°	45°	90°	135°	180°
0°	98012	98012	98012	98012	98012
5°	143992	138477	98386	58745	46021
10°	149295	145220	97163	28103	11367
15°	196609	154834	93606	10056	9842
20°	224586	183440	85205	9659	9897
25°	254294	203253	66889	9330	9786
30°	267832	209286	41463	9267	10480
35°	272330	208878	13666	9545	11080
40°	277136	189996	6610	10207	12140
45°	272762	174462	6868	10765	13152
50°	202770	32205	6913	11843	14468
55°	16214	4414	7356	12521	15463
60°	3376	4650	7199	12676	16051
65°	3505	4483	7009	12511	16504
70°	3072	4330	6798	11733	16063
75°	2462	4059	5723	11445	15504
80°	2479	3670	6050	10910	14579
85°	2371	4940	7311	9683	12054

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 45°  
 Luminance: 276050 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.8	4.8
10°-20°	145.7	13.5
20°-30°	244.5	22.6
30°-40°	294.1	27.2
40°-50°	233.1	21.6
50°-60°	74.6	6.9
60°-70°	20.8	1.9
70°-80°	12.4	1.1
80°-90°	3.9	0.4
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°	442.0	40.9
0°-40°	736.1	68.1
0°-60°	1043.8	96.6
0°-90°	1081.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1081.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	569	569	569	569	569	
5°	833	801	569	340	266	78
15°	1103	868	525	56	55	310
25°	1338	1070	352	49	52	612
35°	1295	994	65	45	53	811
45°	1120	716	28	44	54	804
55°	54	15	24	42	52	169
65°	9	11	17	31	40	8
75°	4	6	9	17	23	4
85°	1	2	4	5	6	1
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°	569.1	569.1	569.1	569.1	569.1	569.1	569.1	569.1	569.1	569.1	569.1
2.5°	759.3	764.2	764.2	758.0	760.5	750.7	743.3	732.3	729.8	716.3	699.2
5°	832.9	830.4	830.4	825.5	828.0	824.3	820.6	818.1	810.8	801.0	791.2
7.5°	834.1	836.5	837.8	836.5	841.4	837.8	837.8	837.8	832.9	828.0	818.1
10°	853.7	850.0	846.4	837.8	832.9	829.2	829.2	830.4	832.9	830.4	824.3
12.5°	994.8	981.3	975.1	954.3	938.3	911.4	880.7	857.4	836.5	829.2	824.3
15°	1102.7	1100.3	1088.0	1068.4	1048.7	1016.9	981.3	945.7	907.7	868.4	840.2
17.5°	1166.5	1161.6	1149.3	1128.5	1105.2	1075.7	1047.5	1020.5	983.7	939.6	894.2
20°	1225.4	1214.3	1198.4	1173.9	1150.6	1122.3	1091.7	1065.9	1035.3	1000.9	948.2
22.5°	1278.1	1268.3	1242.5	1209.4	1186.1	1159.1	1132.2	1107.6	1079.4	1040.2	992.3
25°	1338.2	1316.1	1274.4	1231.5	1203.3	1181.2	1161.6	1142.0	1112.5	1069.6	1013.2
27.5°	1367.7	1337.0	1291.6	1248.7	1221.7	1198.4	1177.5	1157.9	1124.8	1072.0	1007.0
30°	1346.8	1329.6	1297.7	1264.6	1242.5	1220.5	1195.9	1166.5	1113.8	1052.4	992.3
32.5°	1322.3	1313.7	1299.0	1279.3	1265.9	1243.8	1209.4	1161.6	1088.0	1027.9	962.9
35°	1295.3	1291.6	1286.7	1278.1	1269.5	1248.7	1205.7	1135.8	1062.2	993.5	931.0
37.5°	1267.1	1263.4	1267.1	1265.9	1258.5	1231.5	1166.5	1101.5	1025.4	955.5	834.1
40°	1232.7	1230.3	1236.4	1242.5	1234.0	1198.4	1128.5	1050.0	982.5	845.1	803.4
42.5°	1192.3	1191.0	1202.1	1207.0	1194.7	1142.0	1059.8	1002.1	859.8	815.7	717.6
45°	1119.9	1122.3	1127.2	1133.4	1126.0	1068.4	993.5	888.1	825.5	716.3	408.5
47.5°	877.0	879.5	904.0	955.5	991.1	971.5	907.7	829.2	738.4	409.7	128.8
50°	756.8	754.4	755.6	767.9	796.1	823.0	803.4	760.5	440.3	120.2	15.9
52.5°	332.4	369.2	408.5	518.9	590.0	664.8	679.5	475.9	143.5	15.9	15.9
55°	54.0	56.4	71.1	104.3	187.7	283.3	343.4	159.5	14.7	14.7	14.7
57.5°	11.0	11.0	11.0	12.3	18.4	39.3	45.4	13.5	13.5	13.5	14.7
60°	9.8	9.8	9.8	9.8	11.0	11.0	11.0	12.3	12.3	13.5	13.5
62.5°	9.8	9.8	9.8	9.8	9.8	9.8	11.0	11.0	12.3	12.3	13.5
65°	8.6	8.6	8.6	8.6	9.8	9.8	9.8	9.8	11.0	11.0	12.3
67.5°	7.4	7.4	7.4	7.4	8.6	8.6	8.6	9.8	9.8	9.8	11.0
70°	6.1	6.1	6.1	6.1	7.4	7.4	7.4	7.4	8.6	8.6	8.6
72.5°	4.9	4.9	4.9	4.9	6.1	6.1	6.1	6.1	7.4	7.4	7.4
75°	3.7	3.7	4.9	4.9	4.9	4.9	4.9	4.9	6.1	6.1	6.1
77.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	4.9	4.9	4.9	4.9
80°	2.5	2.5	2.5	2.5	2.5	2.5	3.7	3.7	3.7	3.7	3.7
82.5°	1.2	1.2	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5	2.5
87.5°	0.0	0.0	0.0	0.0	1.2	1.2	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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	569.1	569.1	569.1	569.1	569.1	569.1	569.1	569.1
2.5°	688.1	671.0	647.6	571.6	501.7	437.9	406.0	402.3
5°	775.2	759.3	720.0	569.1	435.4	339.8	282.1	266.2
7.5°	808.3	794.8	760.5	564.2	372.9	244.1	179.1	154.6
10°	816.9	808.3	778.9	555.6	307.9	160.7	84.6	65.0
12.5°	820.6	814.5	786.3	542.2	242.9	83.4	57.7	57.7
15°	826.7	820.6	793.6	525.0	179.1	56.4	55.2	55.2
17.5°	853.7	834.1	803.4	499.2	117.8	54.0	54.0	54.0
20°	897.9	854.9	808.3	464.9	73.6	52.7	52.7	54.0
22.5°	934.7	877.0	807.1	413.4	54.0	50.3	51.5	52.7
25°	950.6	886.8	796.1	352.0	46.6	49.1	51.5	51.5
27.5°	948.2	890.5	786.3	282.1	44.2	47.8	50.3	52.7
30°	934.7	880.7	764.2	208.5	41.7	46.6	50.3	52.7
32.5°	911.4	842.7	720.0	134.9	40.5	46.6	50.3	52.7
35°	835.3	781.3	656.2	65.0	39.3	45.4	51.5	52.7
37.5°	791.2	716.3	500.5	31.9	38.0	45.4	51.5	52.7
40°	720.0	534.8	225.7	29.4	38.0	45.4	51.5	54.0
42.5°	452.6	219.6	36.8	28.2	36.8	45.4	51.5	54.0
45°	165.6	29.4	19.6	28.2	36.8	44.2	51.5	54.0
47.5°	17.2	17.2	18.4	27.0	35.6	44.2	51.5	54.0
50°	15.9	17.2	18.4	25.8	34.3	44.2	50.3	54.0
52.5°	15.9	17.2	18.4	25.8	33.1	42.9	50.3	54.0
55°	15.9	17.2	17.2	24.5	31.9	41.7	49.1	51.5
57.5°	14.7	15.9	17.2	23.3	30.7	39.3	47.8	50.3
60°	14.7	15.9	17.2	20.9	29.4	36.8	45.4	46.6
62.5°	13.5	14.7	15.9	19.6	27.0	34.3	41.7	44.2
65°	13.5	13.5	14.7	17.2	24.5	30.7	38.0	40.5
67.5°	11.0	12.3	12.3	14.7	20.9	27.0	34.3	36.8
70°	9.8	9.8	11.0	13.5	18.4	23.3	29.4	31.9
72.5°	8.6	8.6	8.6	11.0	15.9	20.9	25.8	28.2
75°	7.4	7.4	7.4	8.6	13.5	17.2	22.1	23.3
77.5°	6.1	6.1	6.1	7.4	11.0	14.7	17.2	19.6
80°	4.9	4.9	4.9	6.1	8.6	11.0	13.5	14.7
82.5°	3.7	3.7	3.7	4.9	6.1	7.4	9.8	9.8
85°	2.5	2.5	2.5	3.7	3.7	4.9	6.1	6.1
87.5°	1.2	1.2	1.2	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)