

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: P1319449

Luminaire Tested: LDSQA3D17R659835DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1319449  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-68)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R659835DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R65 optic, 3500K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

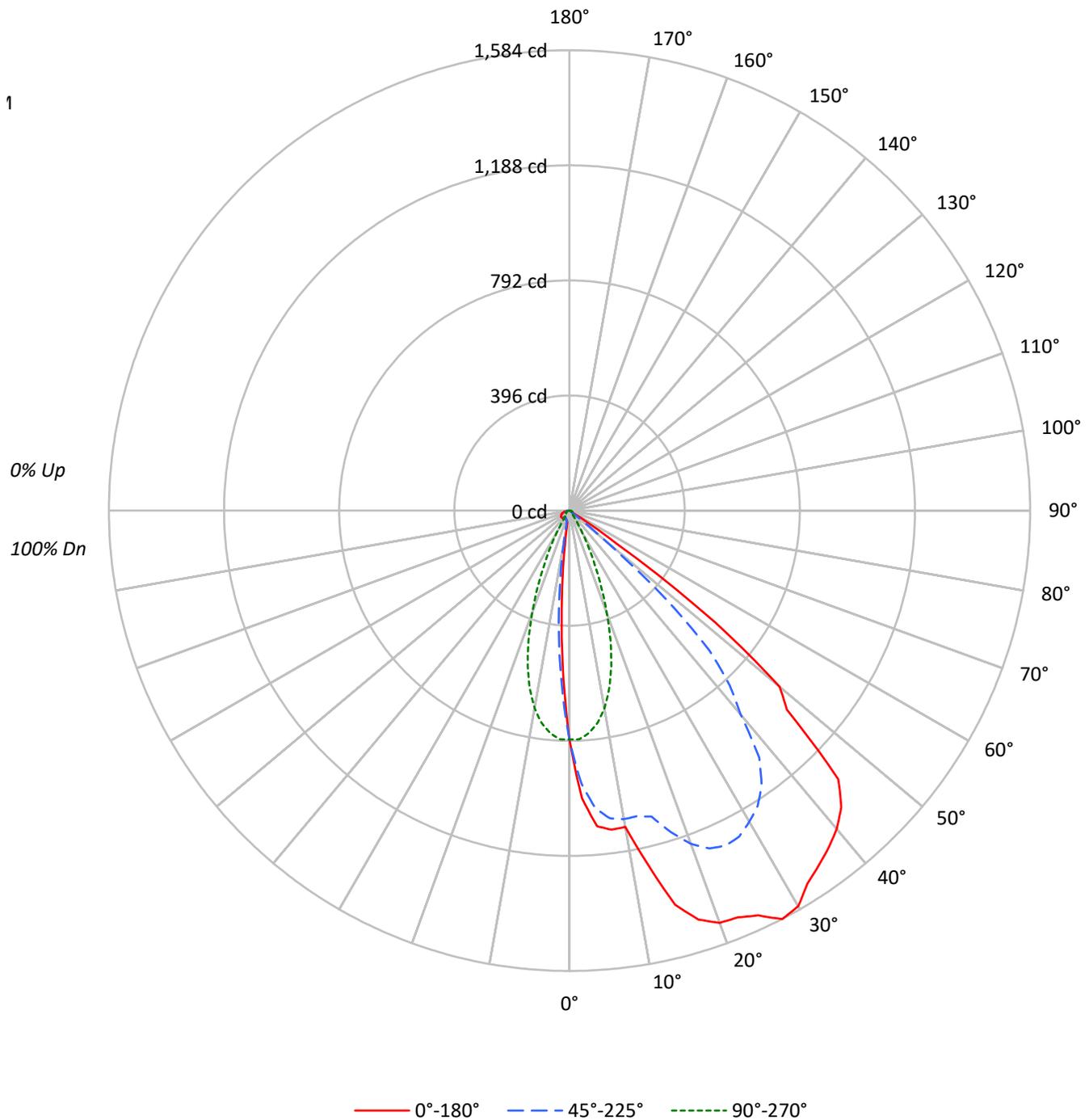
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1180.0 lumens  
Efficiency: N/A  
Efficacy: 57.8 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.64 / 1.22  
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	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	109	106	104	101	102	100	98	99	97	95	95	94	92	95	94	92	90
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	81	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	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	56	66	60	55	64	59	55	63	58	54	63	58	54	53
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	58	53	49	48
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	50	45	41	40
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	47	42	38	36

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

	0°	45°	90°	135°	180°
0°	135591	135591	135591	135591	135591
5°	188457	177859	132703	72921	51311
10°	193224	188503	120737	20373	7502
15°	250348	194363	98831	6561	6347
20°	276654	223614	68765	5846	6066
25°	291976	241638	38917	5587	6062
30°	312637	245818	17560	5608	6344
35°	313770	242097	5677	5929	6959
40°	321449	205666	3867	6340	7711
45°	318381	165767	3873	6868	8354
50°	252659	39091	3939	7556	9538
55°	60022	2222	4054	8467	10689
60°	2101	2549	4650	8887	11401
65°	2486	2486	4483	9495	12511
70°	1863	2467	4330	9265	12991
75°	1664	2462	4059	9782	13042
80°	1190	2479	4860	9720	13389
85°	2371	4940	4940	9683	12054

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 10°  
 Vertical Angle: 45°  
 Luminance: 318966 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.7	5.6
10°-20°	173.0	14.7
20°-30°	271.8	23.0
30°-40°	310.9	26.3
40°-50°	249.9	21.2
50°-60°	81.3	6.9
60°-70°	14.4	1.2
70°-80°	9.5	0.8
80°-90°	3.4	0.3
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°	510.5	43.3
0°-40°	821.4	69.6
0°-60°	1152.6	97.7
0°-90°	1180.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1180.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	787	787	787	787	787	
5°	1090	1029	768	422	297	103
15°	1404	1090	554	37	36	391
25°	1536	1272	205	29	32	716
35°	1492	1152	27	28	33	937
45°	1307	681	16	28	34	941
55°	200	7	14	28	36	286
65°	6	6	11	23	31	5
75°	2	4	6	15	20	3
85°	1	2	2	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°	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	990.8	987.1	992.0	983.5	982.2	973.7	968.7	966.3	955.3	940.5	927.1
5°	1090.1	1075.4	1079.1	1077.9	1071.8	1068.1	1063.2	1057.0	1042.3	1028.8	1011.7
7.5°	1107.3	1095.0	1097.5	1098.7	1095.0	1093.8	1092.6	1090.1	1080.3	1068.1	1053.4
10°	1104.9	1092.6	1091.4	1087.7	1084.0	1085.2	1085.2	1085.2	1082.8	1077.9	1073.0
12.5°	1247.1	1229.9	1226.3	1200.5	1177.2	1136.7	1111.0	1086.5	1075.4	1076.7	1073.0
15°	1404.1	1402.8	1390.6	1366.1	1326.8	1290.0	1231.2	1187.0	1130.6	1090.1	1073.0
17.5°	1475.2	1474.0	1462.9	1442.1	1413.9	1379.5	1336.6	1285.1	1222.6	1160.0	1108.5
20°	1509.5	1518.1	1505.8	1488.7	1461.7	1429.8	1389.4	1342.8	1283.9	1220.1	1158.8
22.5°	1514.4	1525.5	1514.4	1502.2	1482.5	1461.7	1427.4	1379.5	1319.5	1258.1	1198.1
25°	1536.5	1540.2	1516.9	1500.9	1482.5	1467.8	1440.9	1399.2	1337.8	1271.6	1212.8
27.5°	1584.3	1568.4	1519.3	1497.3	1480.1	1466.6	1440.9	1397.9	1331.7	1264.3	1203.0
30°	1572.1	1565.9	1523.0	1502.2	1487.5	1474.0	1442.1	1386.9	1307.2	1236.1	1172.3
32.5°	1521.8	1534.1	1519.3	1512.0	1504.6	1487.5	1440.9	1366.1	1276.5	1204.2	1118.3
35°	1492.4	1507.1	1508.3	1508.3	1499.7	1474.0	1418.8	1335.4	1245.9	1151.5	1036.2
37.5°	1462.9	1475.2	1482.5	1487.5	1475.2	1438.4	1368.5	1293.7	1195.6	1071.8	869.4
40°	1429.8	1438.4	1444.5	1447.0	1428.6	1380.8	1317.0	1232.4	1122.0	914.8	776.2
42.5°	1383.2	1388.1	1386.9	1385.7	1366.1	1313.3	1253.2	1164.9	946.7	815.5	647.5
45°	1307.2	1302.3	1309.6	1309.6	1283.9	1244.7	1164.9	993.3	847.3	680.6	416.9
47.5°	1012.9	1016.6	1052.1	1109.8	1145.3	1134.3	1026.4	869.4	712.5	446.4	138.6
50°	943.0	939.3	940.5	946.7	950.4	919.7	842.4	734.5	470.9	145.9	9.8
52.5°	632.8	636.4	664.6	729.6	750.5	728.4	654.8	490.5	171.7	9.8	8.6
55°	199.9	213.4	229.3	263.6	323.7	361.7	354.4	174.1	11.0	7.4	8.6
57.5°	7.4	7.4	9.8	17.2	33.1	54.0	56.4	11.0	8.6	8.6	8.6
60°	6.1	6.1	6.1	6.1	6.1	6.1	7.4	7.4	7.4	7.4	7.4
62.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	7.4	7.4	7.4	7.4
65°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	6.1	7.4
67.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.1	6.1	6.1	6.1
70°	3.7	3.7	3.7	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.1
72.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	4.9	4.9	4.9
75°	2.5	2.5	2.5	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
77.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.7	3.7	3.7
80°	1.2	1.2	1.2	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.7
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	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°	787.3	787.3	787.3	787.3	787.3	787.3	787.3	787.3
2.5°	919.7	905.0	875.5	787.3	695.3	603.3	545.7	531.0
5°	992.0	974.9	933.2	767.6	581.2	421.8	331.1	296.8
7.5°	1036.2	1015.3	966.3	737.0	452.5	245.3	147.2	117.7
10°	1055.8	1037.4	982.2	690.4	327.4	116.5	51.5	42.9
12.5°	1064.4	1049.7	988.4	629.1	213.4	51.5	38.0	36.8
15°	1068.1	1052.1	985.9	554.3	121.4	36.8	35.6	35.6
17.5°	1071.8	1053.4	971.2	468.4	67.4	34.3	33.1	34.3
20°	1101.2	1048.5	945.4	375.2	44.1	31.9	31.9	33.1
22.5°	1130.6	1047.2	900.1	286.9	34.3	30.7	31.9	31.9
25°	1140.4	1035.0	842.4	204.8	29.4	29.4	30.7	31.9
27.5°	1122.0	999.4	765.2	138.6	25.8	29.4	30.7	31.9
30°	1079.1	939.3	672.0	88.3	24.5	28.2	30.7	31.9
32.5°	999.4	820.4	567.8	52.7	23.3	28.2	31.9	31.9
35°	840.0	687.9	450.0	27.0	23.3	28.2	31.9	33.1
37.5°	734.5	573.9	313.9	18.4	23.3	28.2	31.9	33.1
40°	609.5	414.5	131.2	17.2	23.3	28.2	31.9	34.3
42.5°	421.8	180.3	20.8	15.9	22.1	28.2	33.1	34.3
45°	152.1	23.3	9.8	15.9	22.1	28.2	33.1	34.3
47.5°	13.5	8.6	9.8	15.9	22.1	28.2	33.1	35.6
50°	8.6	8.6	8.6	14.7	22.1	28.2	33.1	35.6
52.5°	8.6	8.6	8.6	14.7	20.8	28.2	34.3	35.6
55°	8.6	8.6	8.6	13.5	20.8	28.2	33.1	35.6
57.5°	8.6	8.6	9.8	13.5	20.8	27.0	33.1	34.3
60°	8.6	8.6	8.6	13.5	19.6	25.8	31.9	33.1
62.5°	7.4	8.6	8.6	12.3	18.4	24.5	30.7	31.9
65°	7.4	7.4	8.6	11.0	17.2	23.3	28.2	30.7
67.5°	6.1	7.4	7.4	9.8	14.7	20.8	25.8	28.2
70°	6.1	6.1	6.1	8.6	13.5	18.4	24.5	25.8
72.5°	4.9	6.1	6.1	7.4	11.0	15.9	20.8	23.3
75°	4.9	4.9	4.9	6.1	9.8	14.7	18.4	19.6
77.5°	3.7	3.7	4.9	4.9	8.6	11.0	15.9	17.2
80°	3.7	3.7	3.7	4.9	6.1	9.8	12.3	13.5
82.5°	2.5	2.5	2.5	3.7	4.9	6.1	8.6	9.8
85°	2.5	2.5	2.5	2.5	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)