

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: P1319601

Luminaire Tested: LDSQA3D20R709835D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1319601  
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: LDSQA3D20R709835D010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

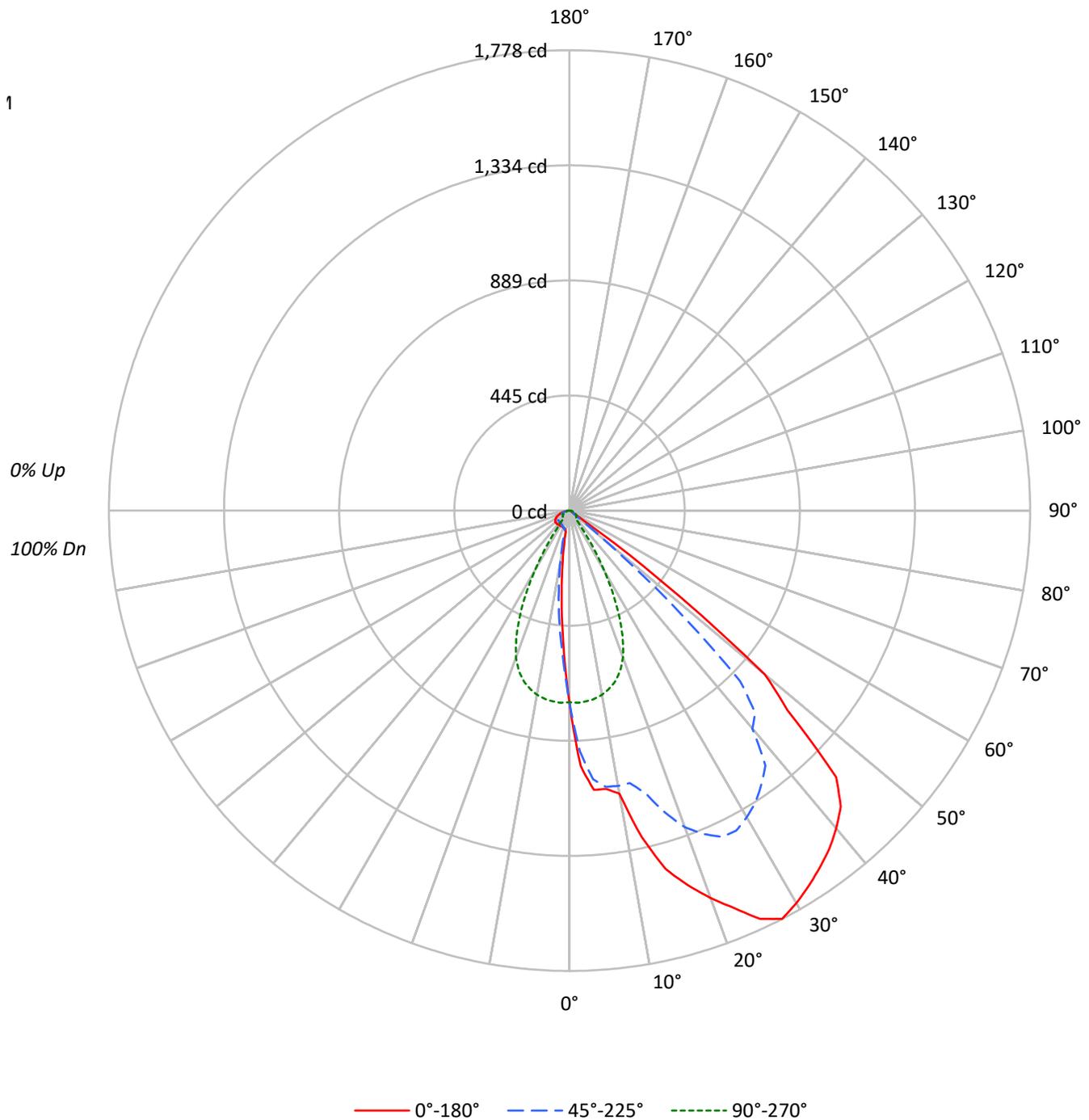
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1405.0 lumens  
Efficiency: N/A  
Efficacy: 51.3 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): 27.4  
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	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	92	92	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	82	82	82	80
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	73	73	73	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	65	65	65	64
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	62	59	59	59	59	57
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	53	53	53	51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	48	48	48	46
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	43	43	43	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	40	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	36	36	36	35

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

	0°	45°	90°	135°	180°
0°	127393	127393	127393	127393	127393
5°	187143	179969	127880	76344	59817
10°	194046	188747	126298	36515	14777
15°	255537	201245	121653	13069	12784
20°	291885	238423	110735	12573	12848
25°	330513	264175	86937	12124	12732
30°	348114	272028	53893	12051	13642
35°	353947	271489	17766	12404	14423
40°	360208	246943	8611	13264	15760
45°	354501	226754	8939	13980	17074
50°	263537	41851	8976	15379	18782
55°	21048	5735	9578	16274	20117
60°	4409	6028	9334	16464	20873
65°	4564	5827	9088	16260	21435
70°	4028	5640	8812	15257	20897
75°	3194	5323	7453	14839	20162
80°	3174	4761	7934	14183	18943
85°	3162	6323	9485	12647	15808

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 45°  
 Luminance: 358788 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.3	4.8
10°-20°	189.3	13.5
20°-30°	317.8	22.6
30°-40°	382.2	27.2
40°-50°	303.0	21.6
50°-60°	96.9	6.9
60°-70°	27.1	1.9
70°-80°	16.2	1.2
80°-90°	5.1	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°	574.5	40.9
0°-40°	956.7	68.1
0°-60°	1356.7	96.6
0°-90°	1405.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1405.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	740	740	740	740	740	
5°	1082	1041	740	442	346	102
15°	1433	1129	682	73	72	403
25°	1739	1390	458	64	67	795
35°	1684	1291	84	59	69	1054
45°	1456	931	37	57	70	1045
55°	70	19	32	54	67	220
65°	11	14	22	40	53	11
75°	5	8	11	22	30	6
85°	2	3	5	6	8	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°	739.7	739.7	739.7	739.7	739.7	739.7	739.7	739.7	739.7	739.7	739.7
2.5°	986.8	993.2	993.2	985.2	988.4	975.7	966.1	951.8	948.6	931.0	908.7
5°	1082.5	1079.3	1079.3	1072.9	1076.1	1071.3	1066.5	1063.4	1053.8	1041.0	1028.3
7.5°	1084.1	1087.3	1088.9	1087.3	1093.6	1088.9	1088.9	1088.9	1082.5	1076.1	1063.4
10°	1109.6	1104.8	1100.0	1088.9	1082.5	1077.7	1077.7	1079.3	1082.5	1079.3	1071.3
12.5°	1292.9	1275.4	1267.4	1240.3	1219.6	1184.5	1144.7	1114.4	1087.3	1077.7	1071.3
15°	1433.2	1430.0	1414.1	1388.6	1363.1	1321.6	1275.4	1229.2	1179.7	1128.7	1092.1
17.5°	1516.1	1509.7	1493.8	1466.7	1436.4	1398.1	1361.5	1326.4	1278.6	1221.2	1162.2
20°	1592.6	1578.3	1557.6	1525.7	1495.4	1458.7	1418.9	1385.4	1345.5	1300.9	1232.3
22.5°	1661.2	1648.4	1615.0	1571.9	1541.6	1506.6	1471.5	1439.6	1402.9	1351.9	1289.7
25°	1739.3	1710.6	1656.4	1600.6	1563.9	1535.3	1509.7	1484.2	1446.0	1390.2	1316.8
27.5°	1777.6	1737.7	1678.7	1622.9	1587.9	1557.6	1530.5	1505.0	1461.9	1393.4	1308.9
30°	1750.5	1728.2	1686.7	1643.7	1615.0	1586.3	1554.4	1516.1	1447.6	1367.9	1289.7
32.5°	1718.6	1707.4	1688.3	1662.8	1645.3	1616.6	1571.9	1509.7	1414.1	1336.0	1251.5
35°	1683.5	1678.7	1672.4	1661.2	1650.0	1622.9	1567.1	1476.3	1380.6	1291.3	1210.0
37.5°	1646.9	1642.1	1646.9	1645.3	1635.7	1600.6	1516.1	1431.6	1332.8	1241.9	1084.1
40°	1602.2	1599.0	1607.0	1615.0	1603.8	1557.6	1466.7	1364.7	1277.0	1098.4	1044.2
42.5°	1549.6	1548.0	1562.4	1568.7	1552.8	1484.2	1377.4	1302.5	1117.6	1060.2	932.6
45°	1455.5	1458.7	1465.1	1473.1	1463.5	1388.6	1291.3	1154.2	1072.9	931.0	530.9
47.5°	1139.9	1143.1	1175.0	1241.9	1288.1	1262.6	1179.7	1077.7	959.7	532.5	167.4
50°	983.6	980.5	982.1	998.0	1034.7	1069.7	1044.2	988.4	572.3	156.2	20.7
52.5°	432.0	479.9	530.9	674.4	766.8	864.1	883.2	618.6	186.5	20.7	20.7
55°	70.1	73.3	92.5	135.5	243.9	368.3	446.4	207.3	19.1	19.1	19.1
57.5°	14.3	14.3	14.3	15.9	23.9	51.0	59.0	17.5	17.5	17.5	19.1
60°	12.8	12.8	12.8	12.8	14.3	14.3	14.3	15.9	15.9	17.5	17.5
62.5°	12.8	12.8	12.8	12.8	12.8	12.8	14.3	14.3	15.9	15.9	17.5
65°	11.2	11.2	11.2	11.2	12.8	12.8	12.8	12.8	14.3	14.3	15.9
67.5°	9.6	9.6	9.6	9.6	11.2	11.2	11.2	12.8	12.8	12.8	14.3
70°	8.0	8.0	8.0	8.0	9.6	9.6	9.6	9.6	11.2	11.2	11.2
72.5°	6.4	6.4	6.4	6.4	8.0	8.0	8.0	8.0	9.6	9.6	9.6
75°	4.8	4.8	6.4	6.4	6.4	6.4	6.4	6.4	8.0	8.0	8.0
77.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	6.4	6.4	6.4	6.4
80°	3.2	3.2	3.2	3.2	3.2	3.2	4.8	4.8	4.8	4.8	4.8
82.5°	1.6	1.6	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	3.2	3.2
87.5°	0.0	0.0	0.0	0.0	1.6	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	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°	739.7	739.7	739.7	739.7	739.7	739.7	739.7	739.7
2.5°	894.4	872.0	841.8	742.9	652.0	569.1	527.7	522.9
5°	1007.6	986.8	935.8	739.7	566.0	441.6	366.7	346.0
7.5°	1050.6	1033.1	988.4	733.4	484.6	317.3	232.8	200.9
10°	1061.8	1050.6	1012.3	722.2	400.2	208.8	110.0	84.5
12.5°	1066.5	1058.6	1021.9	704.7	315.7	108.4	74.9	74.9
15°	1074.5	1066.5	1031.5	682.3	232.8	73.3	71.7	71.7
17.5°	1109.6	1084.1	1044.2	648.9	153.0	70.1	70.1	70.1
20°	1167.0	1111.2	1050.6	604.2	95.7	68.6	68.6	70.1
22.5°	1214.8	1139.9	1049.0	537.3	70.1	65.4	67.0	68.6
25°	1235.5	1152.6	1034.7	457.5	60.6	63.8	67.0	67.0
27.5°	1232.3	1157.4	1021.9	366.7	57.4	62.2	65.4	68.6
30°	1214.8	1144.7	993.2	271.0	54.2	60.6	65.4	68.6
32.5°	1184.5	1095.2	935.8	175.4	52.6	60.6	65.4	68.6
35°	1085.7	1015.5	852.9	84.5	51.0	59.0	67.0	68.6
37.5°	1028.3	931.0	650.4	41.5	49.4	59.0	67.0	68.6
40°	935.8	695.1	293.3	38.3	49.4	59.0	67.0	70.1
42.5°	588.3	285.4	47.8	36.7	47.8	59.0	67.0	70.1
45°	215.2	38.3	25.5	36.7	47.8	57.4	67.0	70.1
47.5°	22.3	22.3	23.9	35.1	46.2	57.4	67.0	70.1
50°	20.7	22.3	23.9	33.5	44.6	57.4	65.4	70.1
52.5°	20.7	22.3	23.9	33.5	43.0	55.8	65.4	70.1
55°	20.7	22.3	22.3	31.9	41.5	54.2	63.8	67.0
57.5°	19.1	20.7	22.3	30.3	39.9	51.0	62.2	65.4
60°	19.1	20.7	22.3	27.1	38.3	47.8	59.0	60.6
62.5°	17.5	19.1	20.7	25.5	35.1	44.6	54.2	57.4
65°	17.5	17.5	19.1	22.3	31.9	39.9	49.4	52.6
67.5°	14.3	15.9	15.9	19.1	27.1	35.1	44.6	47.8
70°	12.8	12.8	14.3	17.5	23.9	30.3	38.3	41.5
72.5°	11.2	11.2	11.2	14.3	20.7	27.1	33.5	36.7
75°	9.6	9.6	9.6	11.2	17.5	22.3	28.7	30.3
77.5°	8.0	8.0	8.0	9.6	14.3	19.1	22.3	25.5
80°	6.4	6.4	6.4	8.0	11.2	14.3	17.5	19.1
82.5°	4.8	4.8	4.8	6.4	8.0	9.6	12.8	12.8
85°	3.2	3.2	3.2	4.8	4.8	6.4	8.0	8.0
87.5°	1.6	1.6	1.6	3.2	3.2	3.2	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)