

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: P1311710

Luminaire Tested: LDSQA3D17R659040DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311710  
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: LDSQA3D17R659040DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R65 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

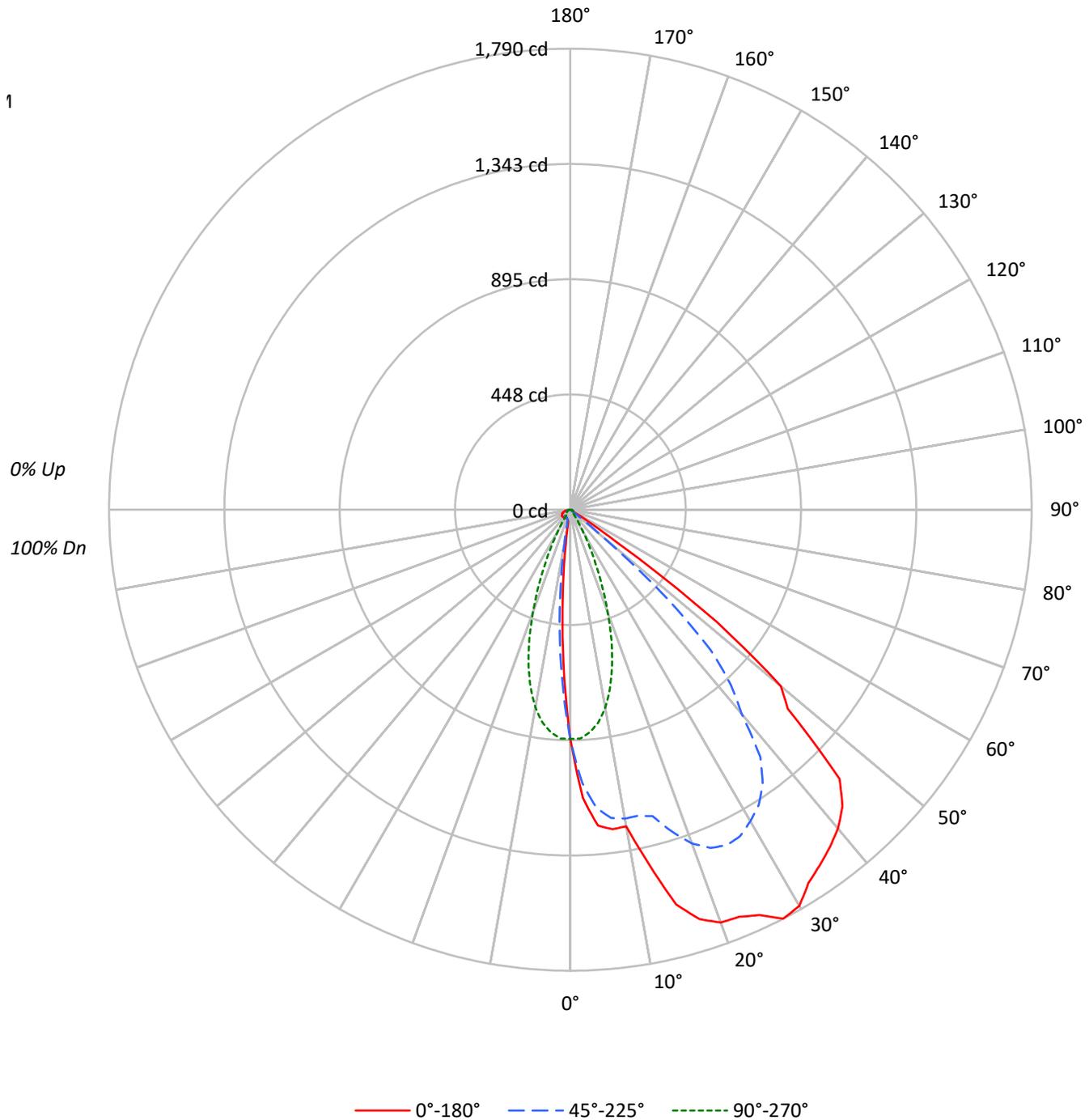
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1333.0 lumens  
Efficiency: N/A  
Efficacy: 62.9 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): 21.2  
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

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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	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90	90	90
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81	81	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72	72	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65	65	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53	53	53
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48	48	48
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43	43	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	40	40	40
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36	36	36

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

	0°	45°	90°	135°	180°
0°	153158	153158	153158	153158	153158
5°	212902	200922	149922	82378	57950
10°	218267	212933	136388	23014	8482
15°	282798	219574	111632	7417	7168
20°	312540	252609	77690	6598	6855
25°	329829	272973	43953	6309	6841
30°	353165	277676	19827	6344	7159
35°	354452	273487	6412	6707	7863
40°	363130	232330	4362	7172	8723
45°	359664	187249	4384	7770	9450
50°	285427	44155	4448	8547	10771
55°	67799	2492	4564	9578	12070
60°	2377	2859	5236	10023	12882
65°	2812	2812	5094	10718	14100
70°	2115	2769	4884	10474	14653
75°	1863	2795	4591	11046	14772
80°	1389	2777	5455	11009	15075
85°	2766	5533	5533	10868	13635

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 10°  
 Vertical Angle: 45°  
 Luminance: 360346 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.2	5.6
10°-20°	195.4	14.7
20°-30°	307.0	23.0
30°-40°	351.2	26.3
40°-50°	282.3	21.2
50°-60°	91.8	6.9
60°-70°	16.3	1.2
70°-80°	10.8	0.8
80°-90°	3.9	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°	576.7	43.3
0°-40°	927.9	69.6
0°-60°	1302.1	97.7
0°-90°	1333.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1333.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	889	889	889	889	889	
5°	1232	1162	867	476	335	116
15°	1586	1232	626	42	40	442
25°	1736	1436	231	33	36	809
35°	1686	1301	30	32	37	1059
45°	1477	769	18	32	39	1062
55°	226	8	15	32	40	323
65°	7	7	12	26	35	6
75°	3	4	7	17	22	3
85°	1	3	3	6	7	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°	889.3	889.3	889.3	889.3	889.3	889.3	889.3	889.3	889.3	889.3	889.3
2.5°	1119.3	1115.1	1120.7	1111.0	1109.6	1099.9	1094.4	1091.6	1079.1	1062.5	1047.3
5°	1231.5	1214.9	1219.0	1217.6	1210.7	1206.6	1201.0	1194.1	1177.5	1162.2	1142.8
7.5°	1250.9	1237.0	1239.8	1241.2	1237.0	1235.7	1234.3	1231.5	1220.4	1206.6	1189.9
10°	1248.1	1234.3	1232.9	1228.7	1224.6	1226.0	1226.0	1226.0	1223.2	1217.6	1212.1
12.5°	1408.8	1389.4	1385.3	1356.2	1329.8	1284.1	1255.0	1227.3	1214.9	1216.3	1212.1
15°	1586.1	1584.7	1570.9	1543.2	1498.8	1457.3	1390.8	1340.9	1277.2	1231.5	1212.1
17.5°	1666.5	1665.1	1652.6	1629.1	1597.2	1558.4	1509.9	1451.8	1381.1	1310.5	1252.3
20°	1705.3	1714.9	1701.1	1681.7	1651.2	1615.2	1569.5	1516.9	1450.4	1378.3	1309.1
22.5°	1710.8	1723.3	1710.8	1696.9	1674.8	1651.2	1612.4	1558.4	1490.5	1421.3	1353.4
25°	1735.7	1739.9	1713.6	1695.6	1674.8	1658.2	1627.7	1580.6	1511.3	1436.5	1370.0
27.5°	1789.8	1771.7	1716.3	1691.4	1672.0	1656.8	1627.7	1579.2	1504.4	1428.2	1358.9
30°	1775.9	1769.0	1720.5	1696.9	1680.3	1665.1	1629.1	1566.7	1476.7	1396.3	1324.3
32.5°	1719.1	1733.0	1716.3	1708.0	1699.7	1680.3	1627.7	1543.2	1442.1	1360.3	1263.4
35°	1685.9	1702.5	1703.9	1703.9	1694.2	1665.1	1602.7	1508.5	1407.4	1300.8	1170.5
37.5°	1652.6	1666.5	1674.8	1680.3	1666.5	1624.9	1545.9	1461.4	1350.6	1210.7	982.1
40°	1615.2	1624.9	1631.8	1634.6	1613.8	1559.8	1487.8	1392.2	1267.5	1033.4	876.9
42.5°	1562.6	1568.1	1566.7	1565.3	1543.2	1483.6	1415.7	1316.0	1069.4	921.2	731.4
45°	1476.7	1471.1	1479.5	1479.5	1450.4	1406.0	1316.0	1122.1	957.2	768.8	471.0
47.5°	1144.2	1148.4	1188.6	1253.7	1293.8	1281.4	1159.5	982.1	804.8	504.2	156.5
50°	1065.3	1061.1	1062.5	1069.4	1073.6	1038.9	951.7	829.8	531.9	164.8	11.1
52.5°	714.8	718.9	750.8	824.2	847.8	822.8	739.7	554.1	193.9	11.1	9.7
55°	225.8	241.0	259.0	297.8	365.7	408.7	400.3	196.7	12.5	8.3	9.7
57.5°	8.3	8.3	11.1	19.4	37.4	61.0	63.7	12.5	9.7	9.7	9.7
60°	6.9	6.9	6.9	6.9	6.9	6.9	8.3	8.3	8.3	8.3	8.3
62.5°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	8.3	8.3	8.3	8.3
65°	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	6.9	8.3
67.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	6.9	6.9	6.9	6.9
70°	4.2	4.2	4.2	5.5	5.5	5.5	5.5	5.5	5.5	5.5	6.9
72.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.5	5.5	5.5
75°	2.8	2.8	2.8	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
77.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.2	4.2	4.2
80°	1.4	1.4	1.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8	4.2
82.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8
87.5°	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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°	889.3	889.3	889.3	889.3	889.3	889.3	889.3	889.3
2.5°	1038.9	1022.3	989.1	889.3	785.4	681.5	616.4	599.8
5°	1120.7	1101.3	1054.2	867.2	656.6	476.5	374.0	335.2
7.5°	1170.5	1147.0	1091.6	832.5	511.2	277.1	166.2	133.0
10°	1192.7	1171.9	1109.6	779.9	369.9	131.6	58.2	48.5
12.5°	1202.4	1185.8	1116.5	710.6	241.0	58.2	42.9	41.6
15°	1206.6	1188.6	1113.7	626.1	137.1	41.6	40.2	40.2
17.5°	1210.7	1189.9	1097.1	529.2	76.2	38.8	37.4	38.8
20°	1244.0	1184.4	1068.0	423.9	49.9	36.0	36.0	37.4
22.5°	1277.2	1183.0	1016.8	324.2	38.8	34.6	36.0	36.0
25°	1288.3	1169.2	951.7	231.3	33.2	33.2	34.6	36.0
27.5°	1267.5	1129.0	864.4	156.5	29.1	33.2	34.6	36.0
30°	1219.0	1061.1	759.1	99.7	27.7	31.9	34.6	36.0
32.5°	1129.0	926.7	641.4	59.6	26.3	31.9	36.0	36.0
35°	948.9	777.1	508.4	30.5	26.3	31.9	36.0	37.4
37.5°	829.8	648.3	354.6	20.8	26.3	31.9	36.0	37.4
40°	688.5	468.2	148.2	19.4	26.3	31.9	36.0	38.8
42.5°	476.5	203.6	23.5	18.0	24.9	31.9	37.4	38.8
45°	171.8	26.3	11.1	18.0	24.9	31.9	37.4	38.8
47.5°	15.2	9.7	11.1	18.0	24.9	31.9	37.4	40.2
50°	9.7	9.7	9.7	16.6	24.9	31.9	37.4	40.2
52.5°	9.7	9.7	9.7	16.6	23.5	31.9	38.8	40.2
55°	9.7	9.7	9.7	15.2	23.5	31.9	37.4	40.2
57.5°	9.7	9.7	11.1	15.2	23.5	30.5	37.4	38.8
60°	9.7	9.7	9.7	15.2	22.2	29.1	36.0	37.4
62.5°	8.3	9.7	9.7	13.9	20.8	27.7	34.6	36.0
65°	8.3	8.3	9.7	12.5	19.4	26.3	31.9	34.6
67.5°	6.9	8.3	8.3	11.1	16.6	23.5	29.1	31.9
70°	6.9	6.9	6.9	9.7	15.2	20.8	27.7	29.1
72.5°	5.5	6.9	6.9	8.3	12.5	18.0	23.5	26.3
75°	5.5	5.5	5.5	6.9	11.1	16.6	20.8	22.2
77.5°	4.2	4.2	5.5	5.5	9.7	12.5	18.0	19.4
80°	4.2	4.2	4.2	5.5	6.9	11.1	13.9	15.2
82.5°	2.8	2.8	2.8	4.2	5.5	6.9	9.7	11.1
85°	2.8	2.8	2.8	2.8	4.2	5.5	6.9	6.9
87.5°	1.4	1.4	1.4	2.8	2.8	2.8	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)