

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: P1315023

Luminaire Tested: LDSQA3D20R659730D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1315023  
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: LDSQA3D20R659730D010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R65 optic, 3000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

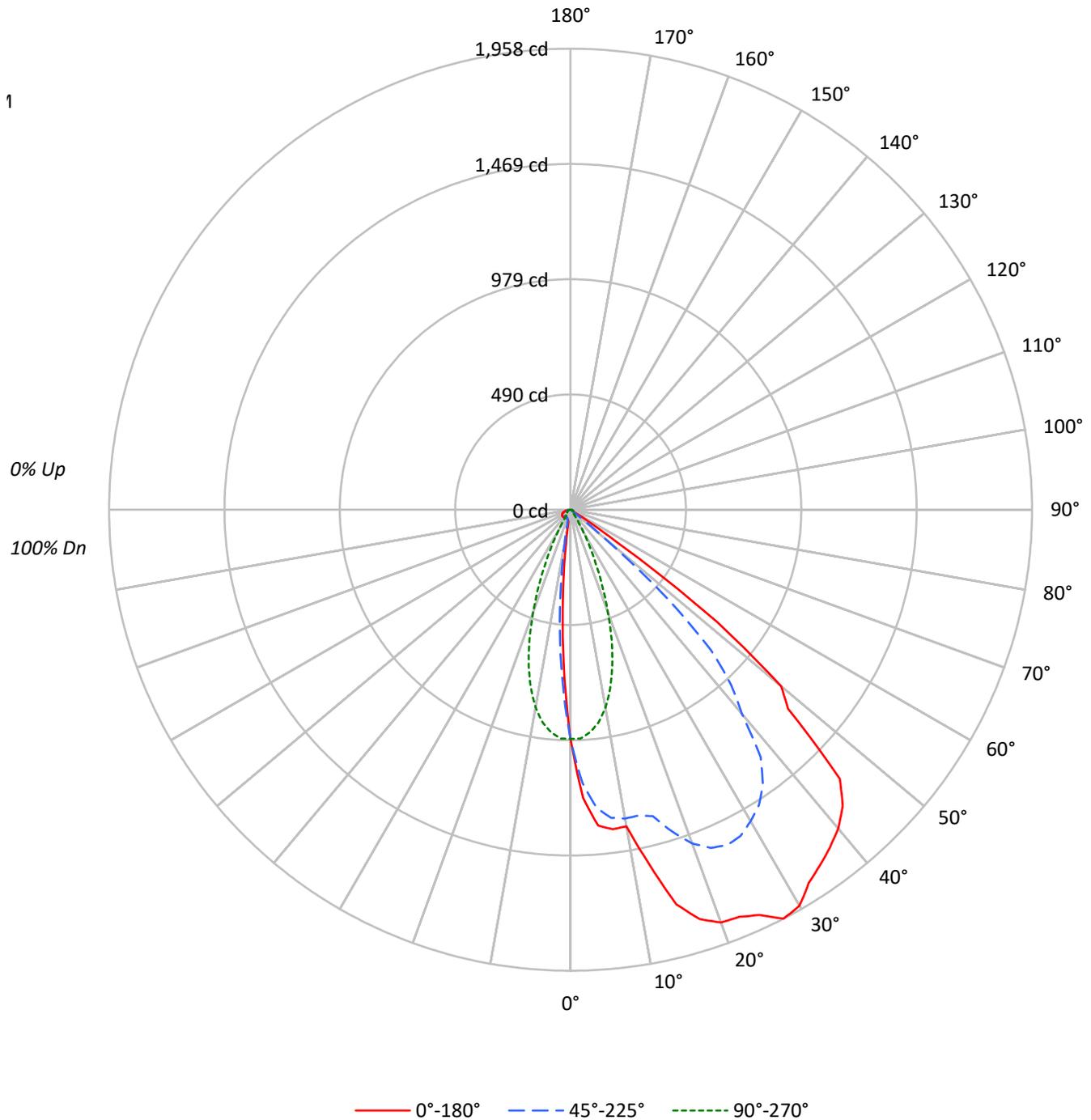
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1458.0 lumens  
Efficiency: N/A  
Efficacy: 50.6 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): 28.8  
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	0	
RCR																						
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100				
1	112	109	106	103	110	106	104	101	102	100	98	99	97	95	95	94	92	90				
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	81				
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	72				
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	65				
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58				
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53				
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	48				
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43				
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	40				
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	36				

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

	0°	45°	90°	135°	180°
0°	167521	167521	167521	167521	167521
5°	232870	219766	163977	90105	63395
10°	238745	232904	149172	25165	9269
15°	309329	240167	122116	8113	7827
20°	341845	276306	84967	7221	7496
25°	360766	298570	48077	6917	7487
30°	386276	303727	21696	6921	7835
35°	387671	299116	7001	7317	8599
40°	397191	254115	4766	7824	9532
45°	393397	204809	4798	8476	10327
50°	312193	48308	4876	9324	11762
55°	74164	2732	5014	10449	13181
60°	2618	3134	5752	10953	14088
65°	3097	3097	5542	11736	15445
70°	2266	3072	5338	11430	16013
75°	1996	2994	5057	12111	16103
80°	1488	2975	6050	12001	16563
85°	2964	5928	5928	12054	15018

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 10°  
 Vertical Angle: 45°  
 Luminance: 394128 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.2	5.6
10°-20°	213.8	14.7
20°-30°	335.8	23.0
30°-40°	384.2	26.3
40°-50°	308.8	21.2
50°-60°	100.4	6.9
60°-70°	17.8	1.2
70°-80°	11.8	0.8
80°-90°	4.2	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°	630.8	43.3
0°-40°	1014.9	69.6
0°-60°	1424.1	97.7
0°-90°	1458.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1458.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	973	973	973	973	973	
5°	1347	1271	948	521	367	127
15°	1735	1347	685	46	44	483
25°	1898	1571	253	36	39	885
35°	1844	1423	33	35	41	1158
45°	1615	841	20	35	42	1162
55°	247	9	17	35	44	353
65°	8	8	14	29	38	7
75°	3	4	8	18	24	4
85°	2	3	3	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°	972.7	972.7	972.7	972.7	972.7	972.7	972.7	972.7	972.7	972.7	972.7
2.5°	1224.2	1219.7	1225.8	1215.2	1213.6	1203.0	1197.0	1193.9	1180.3	1162.1	1145.5
5°	1347.0	1328.8	1333.3	1331.8	1324.2	1319.7	1313.6	1306.1	1287.9	1271.2	1250.0
7.5°	1368.2	1353.0	1356.1	1357.6	1353.0	1351.5	1350.0	1347.0	1334.9	1319.7	1301.5
10°	1365.2	1350.0	1348.5	1343.9	1339.4	1340.9	1340.9	1340.9	1337.9	1331.8	1325.8
12.5°	1540.9	1519.7	1515.2	1483.3	1454.6	1404.6	1372.7	1342.4	1328.8	1330.3	1325.8
15°	1734.9	1733.3	1718.2	1687.9	1639.4	1593.9	1521.2	1466.7	1397.0	1347.0	1325.8
17.5°	1822.7	1821.2	1807.6	1781.8	1747.0	1704.6	1651.5	1587.9	1510.6	1433.3	1369.7
20°	1865.2	1875.8	1860.6	1839.4	1806.1	1766.7	1716.7	1659.1	1586.4	1507.6	1431.8
22.5°	1871.2	1884.9	1871.2	1856.1	1831.8	1806.1	1763.6	1704.6	1630.3	1554.6	1480.3
25°	1898.5	1903.0	1874.3	1854.6	1831.8	1813.6	1780.3	1728.8	1653.0	1571.2	1498.5
27.5°	1957.6	1937.9	1877.3	1850.0	1828.8	1812.1	1780.3	1727.3	1645.5	1562.1	1486.4
30°	1942.4	1934.9	1881.8	1856.1	1837.9	1821.2	1781.8	1713.6	1615.2	1527.3	1448.5
32.5°	1880.3	1895.5	1877.3	1868.2	1859.1	1837.9	1780.3	1687.9	1577.3	1487.9	1381.8
35°	1843.9	1862.1	1863.6	1863.6	1853.0	1821.2	1753.0	1650.0	1539.4	1422.7	1280.3
37.5°	1807.6	1822.7	1831.8	1837.9	1822.7	1777.3	1690.9	1598.5	1477.3	1324.2	1074.2
40°	1766.7	1777.3	1784.9	1787.9	1765.2	1706.1	1627.3	1522.7	1386.4	1130.3	959.1
42.5°	1709.1	1715.2	1713.6	1712.1	1687.9	1622.7	1548.5	1439.4	1169.7	1007.6	800.0
45°	1615.2	1609.1	1618.2	1618.2	1586.4	1537.9	1439.4	1227.3	1047.0	840.9	515.2
47.5°	1251.5	1256.1	1300.0	1371.2	1415.2	1401.5	1268.2	1074.2	880.3	551.5	171.2
50°	1165.2	1160.6	1162.1	1169.7	1174.2	1136.4	1040.9	907.6	581.8	180.3	12.1
52.5°	781.8	786.4	821.2	901.5	927.3	900.0	809.1	606.1	212.1	12.1	10.6
55°	247.0	263.6	283.3	325.8	400.0	447.0	437.9	215.2	13.6	9.1	10.6
57.5°	9.1	9.1	12.1	21.2	40.9	66.7	69.7	13.6	10.6	10.6	10.6
60°	7.6	7.6	7.6	7.6	7.6	7.6	9.1	9.1	9.1	9.1	9.1
62.5°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	9.1	9.1	9.1	9.1
65°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	7.6	9.1
67.5°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	7.6	7.6	7.6	7.6
70°	4.5	4.5	4.5	6.1	6.1	6.1	6.1	6.1	6.1	6.1	7.6
72.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5	6.1	6.1	6.1
75°	3.0	3.0	3.0	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
77.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.5	4.5	4.5
80°	1.5	1.5	1.5	3.0	3.0	3.0	3.0	3.0	3.0	3.0	4.5
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0	3.0	3.0
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.0	3.0
87.5°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5
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°	972.7	972.7	972.7	972.7	972.7	972.7	972.7	972.7
2.5°	1136.4	1118.2	1081.8	972.7	859.1	745.5	674.2	656.1
5°	1225.8	1204.6	1153.0	948.5	718.2	521.2	409.1	366.7
7.5°	1280.3	1254.6	1193.9	910.6	559.1	303.0	181.8	145.5
10°	1304.6	1281.8	1213.6	853.0	404.5	143.9	63.6	53.0
12.5°	1315.2	1297.0	1221.2	777.3	263.6	63.6	47.0	45.5
15°	1319.7	1300.0	1218.2	684.9	150.0	45.5	43.9	43.9
17.5°	1324.2	1301.5	1200.0	578.8	83.3	42.4	40.9	42.4
20°	1360.6	1295.5	1168.2	463.6	54.5	39.4	39.4	40.9
22.5°	1397.0	1293.9	1112.1	354.5	42.4	37.9	39.4	39.4
25°	1409.1	1278.8	1040.9	253.0	36.4	36.4	37.9	39.4
27.5°	1386.4	1234.9	945.5	171.2	31.8	36.4	37.9	39.4
30°	1333.3	1160.6	830.3	109.1	30.3	34.8	37.9	39.4
32.5°	1234.9	1013.6	701.5	65.2	28.8	34.8	39.4	39.4
35°	1037.9	850.0	556.1	33.3	28.8	34.8	39.4	40.9
37.5°	907.6	709.1	387.9	22.7	28.8	34.8	39.4	40.9
40°	753.0	512.1	162.1	21.2	28.8	34.8	39.4	42.4
42.5°	521.2	222.7	25.8	19.7	27.3	34.8	40.9	42.4
45°	187.9	28.8	12.1	19.7	27.3	34.8	40.9	42.4
47.5°	16.7	10.6	12.1	19.7	27.3	34.8	40.9	43.9
50°	10.6	10.6	10.6	18.2	27.3	34.8	40.9	43.9
52.5°	10.6	10.6	10.6	18.2	25.8	34.8	42.4	43.9
55°	10.6	10.6	10.6	16.7	25.8	34.8	40.9	43.9
57.5°	10.6	10.6	12.1	16.7	25.8	33.3	40.9	42.4
60°	10.6	10.6	10.6	16.7	24.2	31.8	39.4	40.9
62.5°	9.1	10.6	10.6	15.2	22.7	30.3	37.9	39.4
65°	9.1	9.1	10.6	13.6	21.2	28.8	34.8	37.9
67.5°	7.6	9.1	9.1	12.1	18.2	25.8	31.8	34.8
70°	7.6	7.6	7.6	10.6	16.7	22.7	30.3	31.8
72.5°	6.1	7.6	7.6	9.1	13.6	19.7	25.8	28.8
75°	6.1	6.1	6.1	7.6	12.1	18.2	22.7	24.2
77.5°	4.5	4.5	6.1	6.1	10.6	13.6	19.7	21.2
80°	4.5	4.5	4.5	6.1	7.6	12.1	15.2	16.7
82.5°	3.0	3.0	3.0	4.5	6.1	7.6	10.6	12.1
85°	3.0	3.0	3.0	3.0	4.5	6.1	7.6	7.6
87.5°	1.5	1.5	1.5	3.0	3.0	3.0	3.0	3.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)