

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: P1312939

Luminaire Tested: LDSQA3D20R709050D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1312939  
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: LDSQA3D20R709050D010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

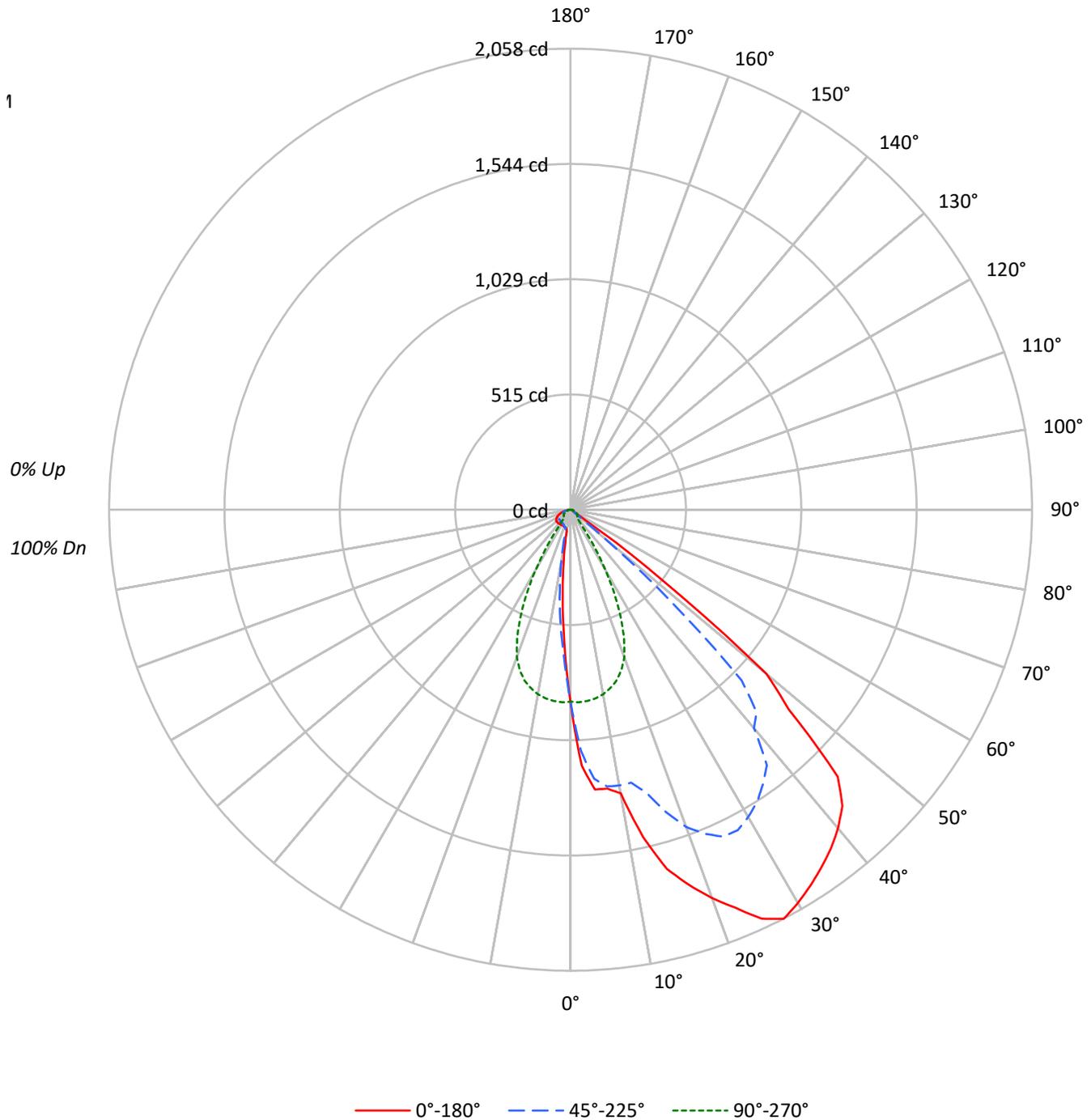
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1627.0 lumens  
Efficiency: N/A  
Efficacy: 56.5 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): 28.8  
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				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°	147526	147526	147526	147526	147526
5°	216706	208407	148089	88411	69256
10°	224703	218564	146252	42286	17103
15°	295921	233053	140873	15138	14817
20°	338015	276105	128238	14552	14882
25°	382733	305905	100676	14024	14727
30°	403120	315003	62404	13960	15790
35°	409873	314400	20562	14360	16693
40°	417132	285972	9960	15355	18255
45°	410520	262582	10351	16197	19777
50°	305200	48469	10396	17817	21756
55°	24381	6666	11080	18856	23270
60°	5098	6992	10816	19082	24180
65°	5257	6765	10514	18827	24818
70°	4633	6496	10222	17674	24170
75°	3660	6122	8584	17168	23356
80°	3670	5455	9124	16464	22018
85°	3557	7311	10868	14623	18180

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 45°  
 Luminance: 415464 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.0	4.8
10°-20°	219.2	13.5
20°-30°	368.1	22.6
30°-40°	442.6	27.2
40°-50°	350.9	21.6
50°-60°	112.2	6.9
60°-70°	31.4	1.9
70°-80°	18.7	1.1
80°-90°	5.9	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°	665.3	40.9
0°-40°	1107.9	68.1
0°-60°	1571.0	96.6
0°-90°	1627.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1627.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	857	857	857	857	857	
5°	1254	1206	857	511	401	118
15°	1660	1307	790	85	83	467
25°	2014	1610	530	74	78	921
35°	1950	1495	98	68	79	1221
45°	1686	1078	42	66	81	1211
55°	81	22	37	63	78	254
65°	13	17	26	46	61	13
75°	6	9	13	26	35	7
85°	2	4	6	7	9	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°	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6
2.5°	1142.8	1150.1	1150.1	1140.9	1144.6	1129.8	1118.8	1102.1	1098.5	1078.1	1052.3
5°	1253.5	1249.8	1249.8	1242.5	1246.1	1240.6	1235.1	1231.4	1220.3	1205.5	1190.8
7.5°	1255.4	1259.1	1260.9	1259.1	1266.5	1260.9	1260.9	1260.9	1253.5	1246.1	1231.4
10°	1284.9	1279.4	1273.8	1260.9	1253.5	1248.0	1248.0	1249.8	1253.5	1249.8	1240.6
12.5°	1497.2	1476.9	1467.7	1436.3	1412.3	1371.7	1325.5	1290.5	1259.1	1248.0	1240.6
15°	1659.7	1656.0	1637.5	1608.0	1578.5	1530.5	1476.9	1423.4	1366.1	1307.1	1264.6
17.5°	1755.7	1748.3	1729.8	1698.5	1663.4	1619.1	1576.6	1536.0	1480.6	1414.1	1345.8
20°	1844.3	1827.7	1803.7	1766.8	1731.7	1689.2	1643.1	1604.3	1558.1	1506.5	1427.1
22.5°	1923.7	1908.9	1870.1	1820.3	1785.2	1744.6	1704.0	1667.1	1624.6	1565.5	1493.5
25°	2014.1	1980.9	1918.1	1853.5	1811.1	1777.8	1748.3	1718.8	1674.5	1609.8	1524.9
27.5°	2058.4	2012.3	1944.0	1879.4	1838.8	1803.7	1772.3	1742.8	1692.9	1613.5	1515.7
30°	2027.1	2001.2	1953.2	1903.4	1870.1	1836.9	1800.0	1755.7	1676.3	1584.0	1493.5
32.5°	1990.1	1977.2	1955.1	1925.5	1905.2	1872.0	1820.3	1748.3	1637.5	1547.1	1449.2
35°	1949.5	1944.0	1936.6	1923.7	1910.8	1879.4	1814.8	1709.5	1598.8	1495.4	1401.2
37.5°	1907.1	1901.5	1907.1	1905.2	1894.1	1853.5	1755.7	1657.8	1543.4	1438.1	1255.4
40°	1855.4	1851.7	1860.9	1870.1	1857.2	1803.7	1698.5	1580.3	1478.8	1272.0	1209.2
42.5°	1794.4	1792.6	1809.2	1816.6	1798.1	1718.8	1595.1	1508.3	1294.1	1227.7	1080.0
45°	1685.5	1689.2	1696.6	1705.8	1694.8	1608.0	1495.4	1336.6	1242.5	1078.1	614.8
47.5°	1320.0	1323.7	1360.6	1438.1	1491.7	1462.1	1366.1	1248.0	1111.4	616.6	193.8
50°	1139.1	1135.4	1137.2	1155.7	1198.1	1238.8	1209.2	1144.6	662.8	180.9	24.0
52.5°	500.3	555.7	614.8	780.9	888.0	1000.6	1022.8	716.3	216.0	24.0	24.0
55°	81.2	84.9	107.1	156.9	282.5	426.5	516.9	240.0	22.2	22.2	22.2
57.5°	16.6	16.6	16.6	18.5	27.7	59.1	68.3	20.3	20.3	20.3	22.2
60°	14.8	14.8	14.8	14.8	16.6	16.6	16.6	18.5	18.5	20.3	20.3
62.5°	14.8	14.8	14.8	14.8	14.8	14.8	16.6	16.6	18.5	18.5	20.3
65°	12.9	12.9	12.9	12.9	14.8	14.8	14.8	14.8	16.6	16.6	18.5
67.5°	11.1	11.1	11.1	11.1	12.9	12.9	12.9	14.8	14.8	14.8	16.6
70°	9.2	9.2	9.2	9.2	11.1	11.1	11.1	11.1	12.9	12.9	12.9
72.5°	7.4	7.4	7.4	7.4	9.2	9.2	9.2	9.2	11.1	11.1	11.1
75°	5.5	5.5	7.4	7.4	7.4	7.4	7.4	7.4	9.2	9.2	9.2
77.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	7.4	7.4	7.4	7.4
80°	3.7	3.7	3.7	3.7	3.7	3.7	5.5	5.5	5.5	5.5	5.5
82.5°	1.8	1.8	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
85°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7	3.7	3.7	3.7
87.5°	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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°	856.6	856.6	856.6	856.6	856.6	856.6	856.6	856.6
2.5°	1035.7	1009.8	974.8	860.3	755.1	659.1	611.1	605.5
5°	1166.8	1142.8	1083.7	856.6	655.4	511.4	424.6	400.6
7.5°	1216.6	1196.3	1144.6	849.2	561.2	367.4	269.5	232.6
10°	1229.5	1216.6	1172.3	836.3	463.4	241.8	127.4	97.8
12.5°	1235.1	1225.8	1183.4	816.0	365.5	125.5	86.8	86.8
15°	1244.3	1235.1	1194.5	790.1	269.5	84.9	83.1	83.1
17.5°	1284.9	1255.4	1209.2	751.4	177.2	81.2	81.2	81.2
20°	1351.4	1286.8	1216.6	699.7	110.8	79.4	79.4	81.2
22.5°	1406.8	1320.0	1214.8	622.1	81.2	75.7	77.5	79.4
25°	1430.8	1334.8	1198.1	529.8	70.2	73.8	77.5	77.5
27.5°	1427.1	1340.3	1183.4	424.6	66.5	72.0	75.7	79.4
30°	1406.8	1325.5	1150.1	313.8	62.8	70.2	75.7	79.4
32.5°	1371.7	1268.3	1083.7	203.1	60.9	70.2	75.7	79.4
35°	1257.2	1176.0	987.7	97.8	59.1	68.3	77.5	79.4
37.5°	1190.8	1078.1	753.2	48.0	57.2	68.3	77.5	79.4
40°	1083.7	804.9	339.7	44.3	57.2	68.3	77.5	81.2
42.5°	681.2	330.5	55.4	42.5	55.4	68.3	77.5	81.2
45°	249.2	44.3	29.5	42.5	55.4	66.5	77.5	81.2
47.5°	25.8	25.8	27.7	40.6	53.5	66.5	77.5	81.2
50°	24.0	25.8	27.7	38.8	51.7	66.5	75.7	81.2
52.5°	24.0	25.8	27.7	38.8	49.8	64.6	75.7	81.2
55°	24.0	25.8	25.8	36.9	48.0	62.8	73.8	77.5
57.5°	22.2	24.0	25.8	35.1	46.2	59.1	72.0	75.7
60°	22.2	24.0	25.8	31.4	44.3	55.4	68.3	70.2
62.5°	20.3	22.2	24.0	29.5	40.6	51.7	62.8	66.5
65°	20.3	20.3	22.2	25.8	36.9	46.2	57.2	60.9
67.5°	16.6	18.5	18.5	22.2	31.4	40.6	51.7	55.4
70°	14.8	14.8	16.6	20.3	27.7	35.1	44.3	48.0
72.5°	12.9	12.9	12.9	16.6	24.0	31.4	38.8	42.5
75°	11.1	11.1	11.1	12.9	20.3	25.8	33.2	35.1
77.5°	9.2	9.2	9.2	11.1	16.6	22.2	25.8	29.5
80°	7.4	7.4	7.4	9.2	12.9	16.6	20.3	22.2
82.5°	5.5	5.5	5.5	7.4	9.2	11.1	14.8	14.8
85°	3.7	3.7	3.7	5.5	5.5	7.4	9.2	9.2
87.5°	1.8	1.8	1.8	3.7	3.7	3.7	3.7	3.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)