

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: P1310576

Luminaire Tested: LDSQA3D17R559035DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1310576  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-66)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R559035DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R55 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

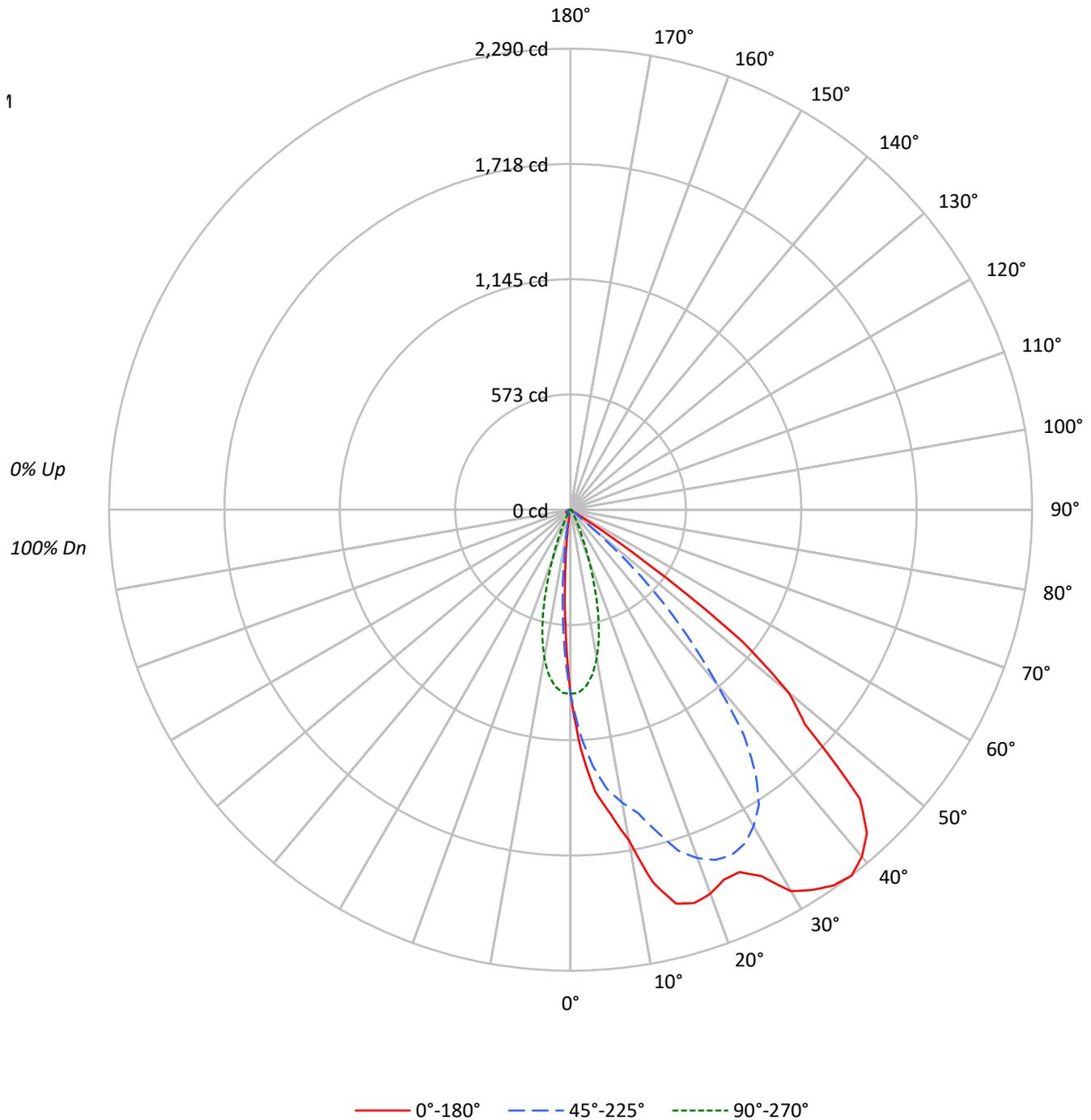
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1525.0 lumens  
Efficiency: N/A  
Efficacy: 71.9 lumens/watt  
Spacing Criteria (0/90/45): 1.79 / 0.55 / 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 (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	100	100	100	100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91	91	91	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	81	81	81	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73	73	73	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65	65	65	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59	59	59	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53	53	53	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48	48	48	48
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	44	44	44	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40	40	40	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37	37	37	37

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

	0°	45°	90°	135°	180°
0°	157411	157411	157411	157411	157411
5°	242759	220993	152066	78090	51294
10°	291664	258297	130880	19691	7870
15°	361125	294994	93535	5438	4243
20°	371939	337465	48311	3647	3647
25°	377336	359454	19383	3268	3782
30°	434939	361160	8432	3420	3957
35°	478749	336707	3616	3616	4457
40°	505689	253440	2091	4159	4766
45°	494596	154855	1924	4506	5797
50°	378345	33009	2117	5332	6752
55°	138811	1201	2372	5975	7567
60°	1378	1378	2721	6854	8680
65°	1630	1630	3219	7009	9169
70°	1309	2014	3323	8006	10675
75°	865	1730	3527	8784	12310
80°	1289	2579	3967	9224	13092
85°	0	2569	5138	10473	13042

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 494596 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	80.5	5.3
10°-20°	230.4	15.1
20°-30°	353.5	23.2
30°-40°	411.9	27.0
40°-50°	329.1	21.6
50°-60°	97.4	6.4
60°-70°	10.4	0.7
70°-80°	8.2	0.5
80°-90°	3.5	0.2
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°	664.4	43.6
0°-40°	1076.3	70.6
0°-60°	1502.9	98.6
0°-90°	1525.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1525.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	914	914	914	914	914	
5°	1404	1278	880	452	297	140
15°	2025	1654	525	30	24	559
25°	1986	1892	102	17	20	943
35°	2277	1602	17	17	21	1418
45°	2031	636	8	18	24	1464
55°	462	4	8	20	25	490
65°	4	4	8	17	22	3
75°	1	3	5	13	18	2
85°	0	1	3	5	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°	914.0	914.0	914.0	914.0	914.0	914.0	914.0	914.0	914.0	914.0	914.0
2.5°	1192.2	1192.2	1188.2	1189.6	1186.9	1172.3	1169.7	1151.2	1135.3	1118.0	1103.5
5°	1404.2	1406.8	1402.8	1394.9	1384.3	1373.7	1351.2	1334.0	1311.4	1278.3	1247.9
7.5°	1524.7	1522.1	1515.4	1512.8	1506.2	1494.2	1478.3	1459.8	1433.3	1400.2	1364.4
10°	1667.8	1645.3	1638.6	1628.0	1606.8	1583.0	1555.2	1530.0	1507.5	1477.0	1438.6
12.5°	1898.3	1894.3	1867.8	1847.9	1818.8	1765.8	1718.1	1662.5	1596.2	1543.3	1492.9
15°	2025.4	2028.1	2016.2	2000.3	1981.7	1938.0	1890.3	1825.4	1747.3	1654.5	1572.4
17.5°	2048.0	2051.9	2045.3	2038.7	2033.4	2008.2	1979.1	1932.7	1861.2	1775.1	1653.2
20°	2029.4	2037.4	2038.7	2046.6	2057.2	2046.6	2022.8	1991.0	1931.4	1841.3	1724.7
22.5°	1988.4	2002.9	2013.5	2041.3	2069.2	2069.2	2054.6	2029.4	1971.1	1882.4	1763.2
25°	1985.7	1988.4	1992.3	2037.4	2081.1	2090.4	2077.1	2050.6	1987.0	1891.6	1761.8
27.5°	2051.9	2034.7	2008.2	2053.3	2104.9	2112.9	2094.3	2058.6	1983.1	1870.5	1716.8
30°	2187.1	2148.6	2093.0	2126.1	2161.9	2152.6	2115.5	2058.6	1956.6	1816.1	1632.0
32.5°	2238.7	2217.5	2197.7	2233.4	2240.0	2201.6	2135.4	2050.6	1914.2	1739.3	1492.9
35°	2277.1	2278.5	2270.5	2277.1	2245.3	2191.0	2118.2	2006.9	1834.7	1601.5	1308.8
37.5°	2290.4	2293.0	2275.8	2252.0	2204.3	2142.0	2054.6	1927.4	1702.2	1412.1	1030.6
40°	2249.3	2241.4	2213.5	2180.4	2128.8	2065.2	1969.8	1780.4	1504.8	1127.3	804.1
42.5°	2176.5	2163.2	2130.1	2090.4	2036.0	1955.2	1802.9	1573.7	1222.7	879.6	563.0
45°	2030.7	2021.5	1980.4	1951.3	1886.4	1781.7	1585.6	1296.9	945.8	635.8	325.9
47.5°	1577.7	1579.0	1610.8	1625.4	1602.9	1519.4	1288.9	985.6	690.2	378.9	109.9
50°	1412.1	1405.5	1373.7	1330.0	1257.1	1132.6	945.8	696.8	408.0	123.2	15.9
52.5°	1071.7	1071.7	1055.8	1033.3	956.4	835.9	639.8	385.5	143.1	21.2	4.0
55°	462.3	438.5	451.7	476.9	457.0	397.4	299.4	115.2	25.2	4.0	4.0
57.5°	6.6	15.9	23.8	38.4	51.7	62.3	33.1	11.9	4.0	4.0	4.0
60°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
62.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
65°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
67.5°	2.6	2.6	2.6	4.0	2.6	4.0	4.0	4.0	4.0	4.0	4.0
70°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	4.0	4.0
72.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
75°	1.3	1.3	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
77.5°	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6	2.6
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6
85°	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3
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°	914.0	914.0	914.0	914.0	914.0	914.0	914.0	914.0
2.5°	1082.3	1059.7	1022.7	910.1	793.5	686.2	609.4	580.2
5°	1213.4	1172.3	1110.1	879.6	647.8	451.7	340.4	296.7
7.5°	1316.7	1263.7	1173.7	826.6	475.6	241.1	144.4	113.9
10°	1385.6	1327.3	1209.4	748.4	315.3	112.6	54.3	45.0
12.5°	1436.0	1363.1	1222.7	647.8	185.5	51.7	29.1	26.5
15°	1473.0	1379.0	1206.8	524.6	102.0	30.5	23.8	23.8
17.5°	1524.7	1386.9	1168.4	386.8	58.3	22.5	22.5	22.5
20°	1564.5	1386.9	1095.5	263.6	35.8	19.9	19.9	19.9
22.5°	1584.3	1365.8	1006.8	166.9	25.2	18.5	19.9	19.9
25°	1564.5	1314.1	892.8	102.0	19.9	17.2	18.5	19.9
27.5°	1491.6	1210.8	740.5	64.9	15.9	17.2	18.5	19.9
30°	1369.7	1061.1	568.3	42.4	14.6	17.2	18.5	19.9
32.5°	1197.5	838.5	368.3	27.8	13.2	17.2	18.5	19.9
35°	935.2	593.5	222.5	17.2	13.2	17.2	19.9	21.2
37.5°	700.8	396.1	120.5	10.6	13.2	17.2	19.9	21.2
40°	486.2	230.5	51.7	9.3	13.2	18.5	21.2	21.2
42.5°	282.2	91.4	13.2	7.9	13.2	18.5	21.2	22.5
45°	103.3	18.5	4.0	7.9	14.6	18.5	21.2	23.8
47.5°	14.6	4.0	4.0	7.9	14.6	18.5	22.5	23.8
50°	4.0	4.0	4.0	7.9	14.6	19.9	23.8	25.2
52.5°	4.0	4.0	4.0	7.9	14.6	19.9	23.8	25.2
55°	4.0	4.0	4.0	7.9	14.6	19.9	23.8	25.2
57.5°	4.0	4.0	4.0	7.9	14.6	19.9	23.8	25.2
60°	4.0	4.0	4.0	7.9	13.2	19.9	23.8	25.2
62.5°	4.0	4.0	4.0	7.9	13.2	18.5	22.5	23.8
65°	4.0	4.0	4.0	7.9	11.9	17.2	22.5	22.5
67.5°	4.0	4.0	4.0	6.6	11.9	17.2	21.2	22.5
70°	4.0	4.0	4.0	6.6	10.6	15.9	19.9	21.2
72.5°	4.0	4.0	4.0	5.3	9.3	14.6	18.5	19.9
75°	2.6	4.0	4.0	5.3	9.3	13.2	17.2	18.5
77.5°	2.6	4.0	4.0	4.0	7.9	10.6	14.6	15.9
80°	2.6	2.6	4.0	4.0	6.6	9.3	11.9	13.2
82.5°	2.6	2.6	2.6	4.0	5.3	6.6	9.3	9.3
85°	2.6	2.6	2.6	2.6	4.0	5.3	6.6	6.6
87.5°	1.3	1.3	2.6	2.6	2.6	2.6	2.6	2.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)