

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: P1317663

Luminaire Tested: LDSQA3D17R459827DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1317663  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D17R459827DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

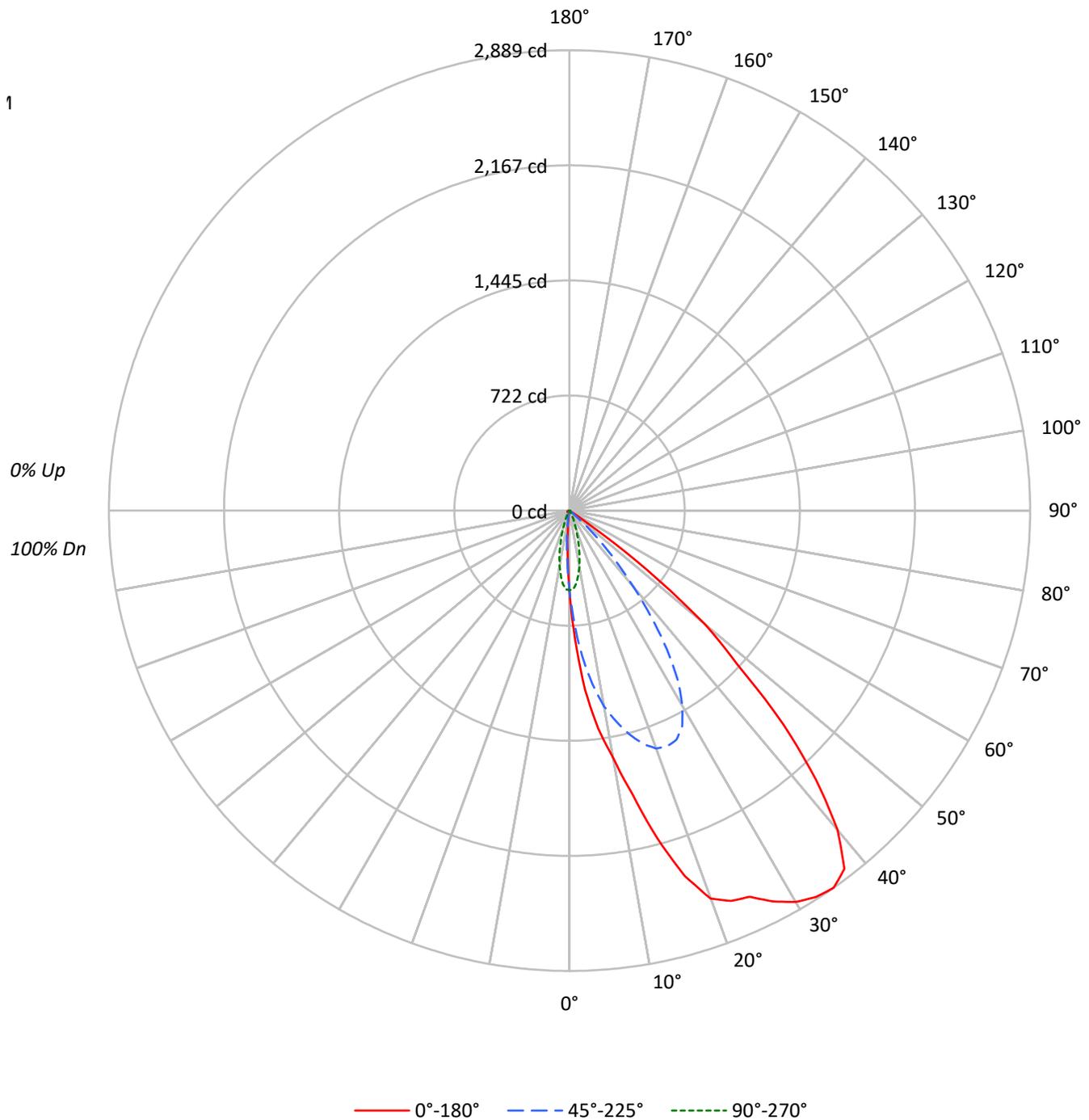
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1309.1 lumens  
Efficiency: N/A  
Efficacy: 64.2 lumens/watt  
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 20.4  
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	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	96	94	93	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	89	86	84	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	82	79	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	70	65	62	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	64	60	56	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	60	55	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	55	50	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	51	46	42	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	48	43	39	37

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

	0°	45°	90°	135°	180°
0°	85784	85784	85784	85784	85784
5°	195511	158601	80251	32173	21956
10°	275488	217865	62030	7083	3253
15°	379632	259210	39618	2336	1943
20°	474702	291115	20673	1613	1613
25°	507998	301439	9577	1254	1463
30°	563844	281494	4355	1313	1531
35°	607398	224416	1388	1388	1850
40°	587726	139052	742	1731	2226
45°	461545	65591	804	2143	2655
50°	296546	7636	1179	2653	3510
55°	45039	661	1321	3273	4264
60°	758	758	1516	3754	4512
65°	897	897	1793	4034	5338
70°	1108	1108	2216	4431	6043
75°	732	1464	2928	5124	6588
80°	1091	2182	3273	5455	7637
85°	0	2174	4347	6521	6521

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 461545 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.5	4.2
10°-20°	197.1	15.1
20°-30°	346.3	26.5
30°-40°	393.2	30.0
40°-50°	254.6	19.4
50°-60°	50.0	3.8
60°-70°	6.1	0.5
70°-80°	5.1	0.4
80°-90°	2.3	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°	597.8	45.7
0°-40°	991.0	75.7
0°-60°	1295.6	99.0
0°-90°	1309.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1309.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	498	498	498	498	498	
5°	1131	917	464	186	127	120
15°	2129	1454	222	13	11	613
25°	2673	1586	50	7	8	1253
35°	2889	1067	7	7	9	1776
45°	1895	269	3	9	11	1428
55°	150	2	4	11	14	286
65°	2	2	4	10	13	2
75°	1	2	4	8	10	1
85°	0	1	2	3	3	0
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°	498.1	498.1	498.1	498.1	498.1	498.1	498.1	498.1	498.1	498.1	498.1
2.5°	809.0	806.8	810.1	788.2	787.1	770.7	766.3	747.7	722.5	710.5	682.0
5°	1130.9	1119.9	1119.9	1093.6	1084.9	1066.3	1034.5	995.1	962.3	917.4	869.2
7.5°	1379.4	1377.2	1377.2	1354.2	1332.3	1306.0	1263.3	1218.4	1165.9	1096.9	1026.9
10°	1575.3	1578.6	1568.7	1547.9	1516.2	1487.7	1437.4	1382.6	1318.1	1245.8	1152.7
12.5°	1822.7	1798.6	1791.0	1743.9	1703.4	1648.7	1588.4	1526.0	1446.1	1355.3	1250.2
15°	2129.2	2098.6	2067.9	2005.5	1937.7	1853.4	1759.2	1667.3	1564.4	1453.8	1322.4
17.5°	2402.9	2402.9	2362.4	2263.9	2176.3	2051.5	1924.5	1801.9	1680.4	1534.8	1370.6
20°	2590.1	2580.3	2549.6	2477.4	2377.7	2236.5	2071.2	1899.4	1752.7	1588.4	1398.0
22.5°	2651.4	2649.2	2650.3	2607.6	2527.7	2381.0	2178.5	1976.0	1792.1	1601.6	1384.8
25°	2673.3	2677.7	2688.6	2672.2	2612.0	2465.3	2244.2	2012.1	1804.1	1586.3	1334.5
27.5°	2764.2	2755.4	2767.5	2756.5	2688.6	2513.5	2257.3	2003.4	1777.8	1530.4	1244.7
30°	2835.3	2833.2	2854.0	2844.1	2755.4	2544.1	2245.3	1970.5	1713.2	1415.5	1103.5
32.5°	2875.8	2876.9	2882.4	2841.9	2710.5	2477.4	2186.2	1903.7	1591.7	1265.5	919.6
35°	2889.0	2882.4	2851.8	2752.1	2572.6	2323.0	2040.6	1745.0	1426.4	1067.4	726.9
37.5°	2832.1	2798.1	2719.3	2570.4	2362.4	2129.2	1854.5	1544.7	1199.8	842.9	541.9
40°	2614.2	2569.3	2469.7	2317.5	2123.8	1898.3	1616.9	1292.9	930.5	618.5	381.0
42.5°	2288.0	2265.0	2161.0	2028.5	1864.3	1636.6	1346.5	1018.1	688.6	426.9	243.0
45°	1895.0	1865.4	1799.7	1682.6	1553.4	1314.8	1044.4	729.1	469.6	269.3	120.4
47.5°	1421.0	1423.1	1378.3	1289.6	1162.6	963.4	714.9	489.3	294.5	139.0	27.4
50°	1106.8	1091.4	1027.9	937.1	789.3	641.5	462.0	308.7	155.5	28.5	2.2
52.5°	613.0	622.9	589.0	559.4	482.8	383.2	272.6	156.5	32.8	3.3	2.2
55°	150.0	158.7	152.2	155.5	160.9	143.4	110.6	30.7	3.3	2.2	2.2
57.5°	3.3	3.3	3.3	3.3	5.5	7.7	7.7	2.2	2.2	2.2	2.2
60°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
62.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
65°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
67.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
70°	2.2	2.2	2.2	1.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2
75°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2	2.2
77.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.2	2.2
82.5°	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1	2.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1
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°	498.1	498.1	498.1	498.1	498.1	498.1	498.1	498.1
2.5°	667.8	647.0	608.7	494.8	397.4	320.8	274.8	270.4
5°	826.5	770.7	689.7	464.2	293.4	186.1	134.7	127.0
7.5°	952.4	873.6	748.8	413.8	200.3	95.2	52.5	43.8
10°	1056.4	944.7	779.4	354.7	125.9	40.5	21.9	18.6
12.5°	1127.6	992.9	784.9	289.0	72.3	19.7	14.2	13.1
15°	1173.5	1008.2	758.6	222.2	40.5	13.1	12.0	10.9
17.5°	1192.2	995.1	708.3	160.9	21.9	9.9	9.9	9.9
20°	1183.4	952.4	633.8	112.8	14.2	8.8	8.8	8.8
22.5°	1141.8	879.1	540.8	75.5	9.9	7.7	7.7	7.7
25°	1059.7	779.4	442.3	50.4	6.6	6.6	7.7	7.7
27.5°	937.1	656.8	338.3	33.9	5.5	6.6	7.7	7.7
30°	782.7	520.0	243.0	21.9	5.5	6.6	6.6	7.7
32.5°	621.8	378.8	159.8	13.1	4.4	6.6	7.7	8.8
35°	451.0	258.4	101.8	6.6	5.5	6.6	7.7	8.8
37.5°	316.4	168.6	59.1	4.4	5.5	6.6	8.8	8.8
40°	205.8	94.1	21.9	3.3	5.5	7.7	8.8	9.9
42.5°	107.3	32.8	4.4	3.3	5.5	7.7	9.9	10.9
45°	27.4	4.4	1.1	3.3	6.6	8.8	10.9	10.9
47.5°	3.3	1.1	1.1	4.4	6.6	9.9	10.9	12.0
50°	1.1	2.2	2.2	4.4	6.6	9.9	12.0	13.1
52.5°	2.2	2.2	2.2	4.4	7.7	9.9	13.1	14.2
55°	2.2	2.2	2.2	4.4	7.7	10.9	13.1	14.2
57.5°	2.2	2.2	2.2	4.4	7.7	10.9	13.1	13.1
60°	2.2	2.2	2.2	4.4	7.7	10.9	13.1	13.1
62.5°	2.2	2.2	3.3	4.4	7.7	9.9	13.1	13.1
65°	2.2	3.3	3.3	4.4	7.7	9.9	12.0	13.1
67.5°	2.2	2.2	3.3	4.4	7.7	9.9	12.0	13.1
70°	2.2	2.2	3.3	4.4	6.6	8.8	10.9	12.0
72.5°	2.2	2.2	3.3	4.4	6.6	8.8	9.9	10.9
75°	2.2	2.2	3.3	4.4	5.5	7.7	9.9	9.9
77.5°	2.2	2.2	3.3	3.3	5.5	6.6	8.8	8.8
80°	2.2	2.2	3.3	3.3	4.4	5.5	6.6	7.7
82.5°	2.2	2.2	2.2	3.3	3.3	4.4	5.5	5.5
85°	2.2	2.2	2.2	2.2	2.2	3.3	3.3	3.3
87.5°	1.1	2.2	2.2	2.2	2.2	2.2	2.2	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)