

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: P1319560

Luminaire Tested: LDSQA3D20R459835D010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

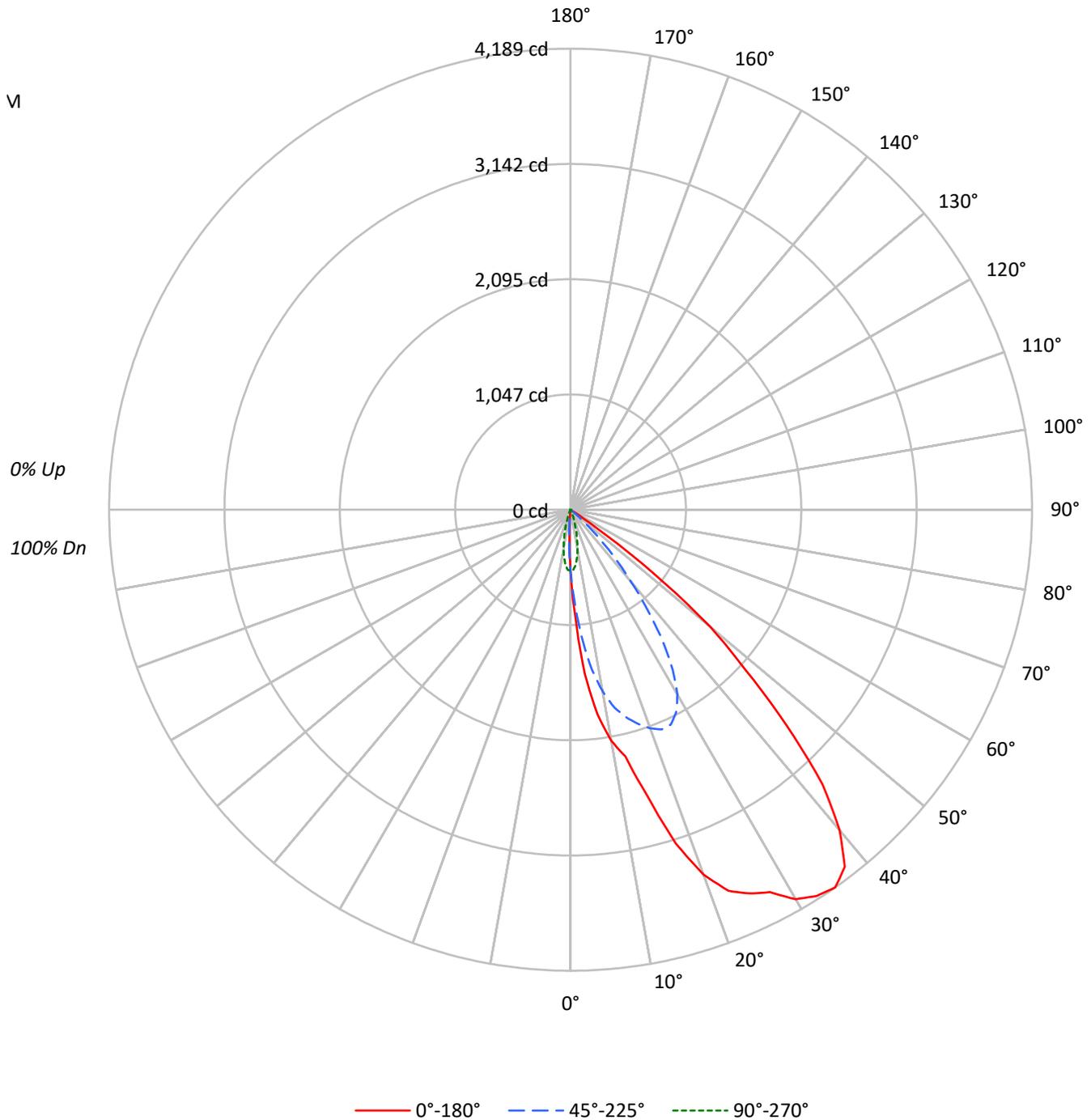
Test Method: LM-79-2019  
Report Number: P1319560  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R459835D010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 98CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1776.0 lumens  
Efficiency: N/A  
Efficacy: 64.8 lumens/watt  
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 27.4  
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			100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91			91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82			82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74			74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67			67
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60			60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54			54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	49			49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44			44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40			40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37			37

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

	0°	45°	90°	135°	180°
0°	94998	94998	94998	94998	94998
5°	259338	199539	87910	17634	6621
10°	372458	292731	63569	1679	1399
15°	479497	348180	33823	571	0
20°	646284	387426	12848	0	0
25°	730976	409260	3325	0	0
30°	812525	385819	318	0	0
35°	880801	307673	0	0	0
40°	853712	193188	0	0	0
45°	676755	92017	0	0	0
50°	442917	11521	0	0	0
55°	76116	0	0	0	0
60°	0	0	551	0	0
65°	0	652	652	0	0
70°	0	806	1611	0	0
75°	0	1065	2129	0	0
80°	0	1587	3174	1587	0
85°	0	3162	6323	3162	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 676755 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.7	3.7
10°-20°	253.0	14.2
20°-30°	473.6	26.7
30°-40°	552.8	31.1
40°-50°	360.5	20.3
50°-60°	66.9	3.8
60°-70°	0.6	0.0
70°-80°	1.3	0.1
80°-90°	1.5	0.1
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°	792.3	44.6
0°-40°	1345.1	75.7
0°-60°	1772.6	99.8
0°-90°	1776.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1776.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	552	552	552	552	552	
5°	1500	1154	508	102	38	161
15°	2689	1953	190	3	0	801
25°	3847	2154	18	0	0	1779
35°	4189	1463	0	0	0	2570
45°	2779	378	0	0	0	2113
55°	254	0	0	0	0	441
65°	0	2	2	0	0	0
75°	0	2	3	0	0	0
85°	0	2	3	2	0	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°	551.6	551.6	551.6	551.6	551.6	551.6	551.6	551.6	551.6	551.6	551.6
2.5°	972.4	980.4	964.5	958.1	937.4	942.1	907.1	892.7	870.4	833.7	816.2
5°	1500.1	1485.8	1473.0	1445.9	1430.0	1386.9	1339.1	1284.9	1219.5	1154.2	1079.2
7.5°	1876.3	1865.2	1860.4	1838.1	1806.2	1761.5	1699.4	1630.8	1546.3	1458.7	1345.5
10°	2129.8	2118.6	2099.5	2077.2	2051.7	2015.0	1954.4	1879.5	1787.1	1673.9	1541.6
12.5°	2295.6	2294.0	2262.1	2236.6	2204.7	2172.8	2110.7	2050.1	1959.2	1842.8	1693.0
15°	2689.3	2663.8	2622.4	2550.7	2461.4	2378.5	2278.1	2182.4	2083.6	1952.8	1785.5
17.5°	3180.3	3151.6	3081.5	2990.6	2847.2	2689.3	2517.2	2365.7	2217.5	2040.5	1842.8
20°	3526.3	3515.1	3456.1	3350.9	3197.9	2989.0	2762.7	2549.1	2340.2	2113.9	1869.9
22.5°	3747.9	3741.5	3717.6	3645.8	3489.6	3255.3	2963.5	2676.6	2424.7	2160.1	1862.0
25°	3846.7	3854.7	3857.9	3822.8	3696.9	3457.7	3111.8	2773.8	2472.5	2153.7	1801.4
27.5°	3916.8	3916.8	3929.6	3913.7	3786.1	3534.2	3169.2	2807.3	2456.6	2075.6	1673.9
30°	4085.8	4082.6	4090.6	4047.6	3870.6	3558.2	3143.7	2753.1	2365.7	1940.1	1490.5
32.5°	4159.2	4162.3	4160.8	4092.2	3886.6	3542.2	3081.5	2649.5	2198.3	1728.1	1248.2
35°	4189.4	4175.1	4116.1	3959.9	3700.0	3330.2	2906.1	2474.1	1964.0	1463.4	985.2
37.5°	4089.0	4047.6	3916.8	3703.2	3386.0	3030.5	2616.0	2160.1	1653.1	1147.8	741.3
40°	3797.3	3743.1	3578.9	3320.6	3030.5	2710.1	2273.3	1791.8	1292.9	859.3	519.7
42.5°	3384.4	3322.2	3145.3	2920.5	2655.9	2319.5	1884.3	1402.9	946.9	593.0	330.0
45°	2778.6	2743.5	2641.5	2451.8	2192.0	1842.8	1444.3	1023.4	655.2	377.8	169.0
47.5°	2148.9	2104.3	2031.0	1900.2	1683.4	1351.8	1010.7	695.1	420.9	186.5	35.1
50°	1653.1	1600.5	1511.3	1366.2	1139.8	902.3	655.2	433.6	213.6	43.0	1.6
52.5°	951.7	962.9	919.8	827.4	701.4	540.4	379.4	218.4	47.8	1.6	0.0
55°	253.5	274.2	267.8	288.5	253.5	213.6	157.8	41.4	3.2	0.0	0.0
57.5°	0.0	0.0	1.6	3.2	9.6	14.3	4.8	1.6	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
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°	551.6	551.6	551.6	551.6	551.6	551.6	551.6	551.6
2.5°	776.4	742.9	701.4	548.4	412.9	296.5	231.2	213.6
5°	1007.5	926.2	821.0	508.5	255.1	102.0	46.2	38.3
7.5°	1225.9	1106.3	916.6	444.8	129.1	25.5	12.8	11.2
10°	1394.9	1233.9	986.8	363.5	47.8	9.6	8.0	8.0
12.5°	1511.3	1315.2	1012.3	275.8	17.5	4.8	4.8	3.2
15°	1578.2	1347.1	988.4	189.7	6.4	3.2	0.0	0.0
17.5°	1598.9	1334.3	924.6	119.6	1.6	0.0	0.0	0.0
20°	1581.4	1272.1	824.2	70.1	0.0	0.0	0.0	0.0
22.5°	1524.0	1174.9	703.0	38.3	0.0	0.0	0.0	0.0
25°	1417.2	1037.8	561.1	17.5	0.0	0.0	0.0	0.0
27.5°	1243.4	860.8	422.5	6.4	0.0	0.0	0.0	0.0
30°	1045.8	671.1	299.7	1.6	0.0	0.0	0.0	0.0
32.5°	816.2	494.2	192.9	0.0	0.0	0.0	0.0	0.0
35°	613.8	345.9	114.8	0.0	0.0	0.0	0.0	0.0
37.5°	427.2	218.4	60.6	0.0	0.0	0.0	0.0	0.0
40°	266.2	118.0	20.7	0.0	0.0	0.0	0.0	0.0
42.5°	148.3	41.4	1.6	0.0	0.0	0.0	0.0	0.0
45°	35.1	3.2	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0
60°	0.0	1.6	1.6	1.6	0.0	0.0	0.0	0.0
62.5°	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0
65°	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0
67.5°	1.6	1.6	1.6	1.6	1.6	0.0	0.0	0.0
70°	1.6	1.6	1.6	3.2	1.6	0.0	0.0	0.0
72.5°	1.6	1.6	3.2	3.2	1.6	0.0	0.0	0.0
75°	1.6	1.6	3.2	3.2	1.6	0.0	0.0	0.0
77.5°	1.6	3.2	3.2	3.2	1.6	1.6	0.0	0.0
80°	1.6	3.2	3.2	3.2	3.2	1.6	0.0	0.0
82.5°	1.6	3.2	3.2	3.2	3.2	1.6	0.0	0.0
85°	1.6	3.2	3.2	3.2	1.6	1.6	0.0	0.0
87.5°	1.6	3.2	3.2	3.2	3.2	1.6	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)