

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: P1309731

Luminaire Tested: LDSQA3D24R459030D010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

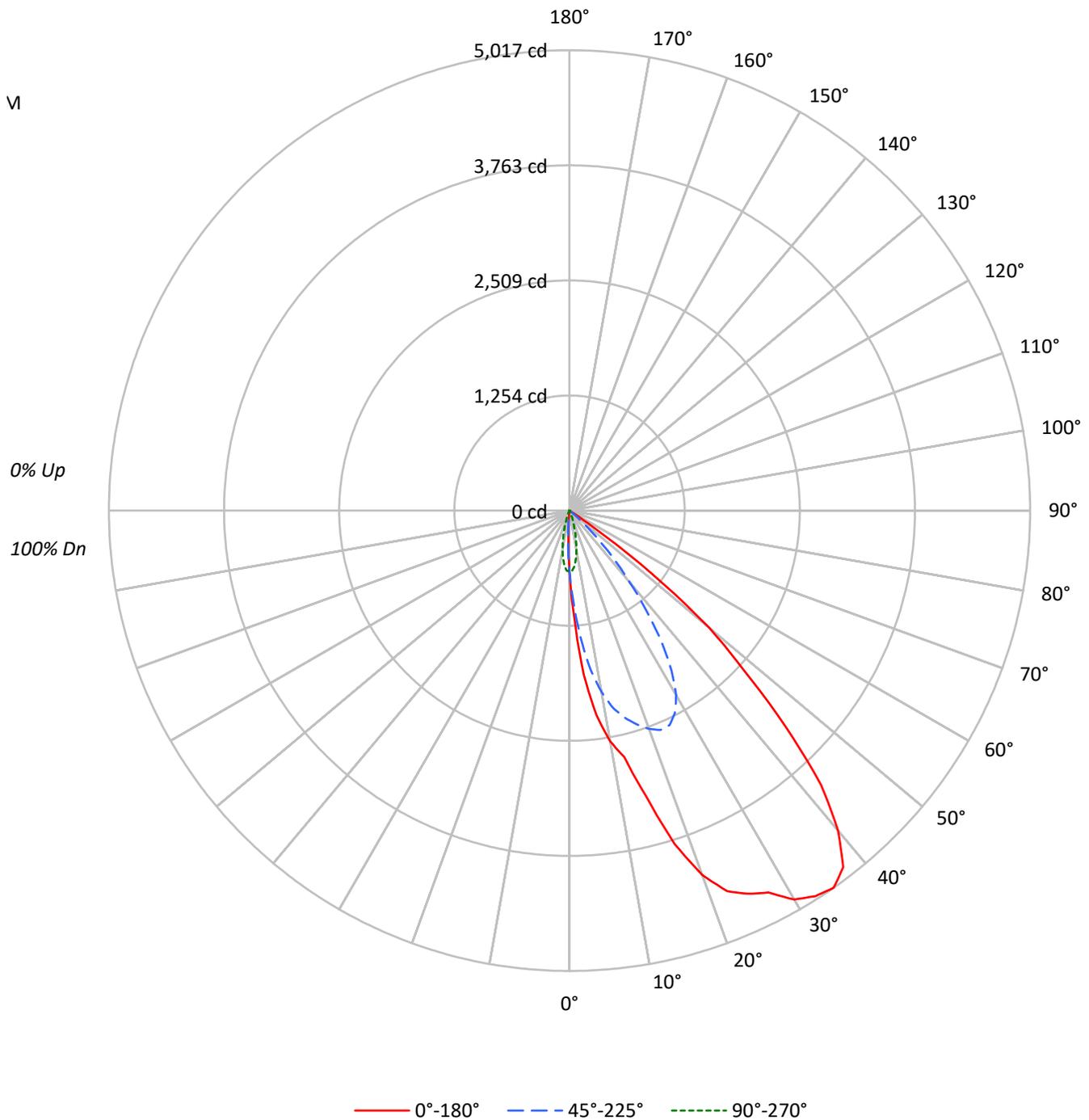
Test Method: LM-79-2019  
Report Number: P1309731  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D24R459030D010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R45 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2127.0 lumens  
Efficiency: N/A  
Efficacy: 73.9 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): 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	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	96	94	93	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	89	86	84	82
3	99	91	85	80	97	90	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	63	73	67	63	71	66	62	70	65	62	70	65	62	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	64	59	56	54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	59	54	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	55	50	46	44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	47	42	38	37

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

	0°	45°	90°	135°	180°
0°	113770	113770	113770	113770	113770
5°	310597	238973	105284	21126	7918
10°	446065	350581	76125	2011	1661
15°	574280	417003	40509	678	0
20°	774009	463980	15395	0	0
25°	875434	490155	3991	0	0
30°	973109	462064	378	0	0
35°	1054883	368496	0	0	0
40°	1022440	231363	0	0	0
45°	810518	110211	0	0	0
50°	530476	13798	0	0	0
55°	91159	0	0	0	0
60°	0	0	654	0	0
65°	0	774	774	0	0
70°	0	957	1913	0	0
75°	0	1264	2529	0	0
80°	0	1884	3769	1884	0
85°	0	3754	7509	3754	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 810518 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	78.6	3.7
10°-20°	303.0	14.2
20°-30°	567.2	26.7
30°-40°	662.1	31.1
40°-50°	431.8	20.3
50°-60°	80.2	3.8
60°-70°	0.8	0.0
70°-80°	1.6	0.1
80°-90°	1.7	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°	948.9	44.6
0°-40°	1611.0	75.7
0°-60°	2122.9	99.8
0°-90°	2127.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2127.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	661	661	661	661	661	
5°	1797	1382	609	122	46	192
15°	3221	2339	227	4	0	960
25°	4607	2579	21	0	0	2130
35°	5017	1753	0	0	0	3077
45°	3328	452	0	0	0	2530
55°	304	0	0	0	0	528
65°	0	2	2	0	0	0
75°	0	2	4	0	0	0
85°	0	2	4	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°	660.6	660.6	660.6	660.6	660.6	660.6	660.6	660.6	660.6	660.6	660.6
2.5°	1164.6	1174.2	1155.1	1147.4	1122.6	1128.3	1086.3	1069.2	1042.4	998.5	977.5
5°	1796.6	1779.4	1764.1	1731.7	1712.6	1661.0	1603.7	1538.8	1460.6	1382.3	1292.5
7.5°	2247.2	2233.8	2228.1	2201.3	2163.1	2109.7	2035.2	1953.1	1851.9	1746.9	1611.4
10°	2550.7	2537.4	2514.4	2487.7	2457.2	2413.3	2340.7	2251.0	2140.2	2004.7	1846.2
12.5°	2749.3	2747.4	2709.2	2678.6	2640.4	2602.3	2527.8	2455.3	2346.4	2207.1	2027.6
15°	3220.9	3190.3	3140.7	3054.7	2947.8	2848.6	2728.3	2613.7	2495.3	2338.8	2138.3
17.5°	3808.9	3774.5	3690.5	3581.7	3409.9	3220.9	3014.7	2833.3	2655.7	2443.8	2207.1
20°	4223.2	4209.8	4139.2	4013.2	3829.9	3579.8	3308.7	3052.8	2802.7	2531.6	2239.5
22.5°	4488.6	4480.9	4452.3	4366.4	4179.3	3898.6	3549.2	3205.6	2903.9	2587.0	2230.0
25°	4606.9	4616.5	4620.3	4578.3	4427.5	4141.1	3726.8	3322.0	2961.2	2579.4	2157.4
27.5°	4691.0	4691.0	4706.2	4687.1	4534.4	4232.7	3795.5	3362.1	2942.1	2485.8	2004.7
30°	4893.3	4889.5	4899.1	4847.5	4635.6	4261.4	3765.0	3297.2	2833.3	2323.5	1785.1
32.5°	4981.2	4985.0	4983.1	4901.0	4654.7	4242.3	3690.5	3173.1	2632.8	2069.6	1494.9
35°	5017.4	5000.2	4929.6	4742.5	4431.3	3988.4	3480.5	2963.1	2352.2	1752.7	1179.9
37.5°	4897.1	4847.5	4691.0	4435.1	4055.2	3629.4	3133.0	2587.0	1979.9	1374.6	887.8
40°	4547.8	4482.8	4286.2	3976.9	3629.4	3245.7	2722.5	2146.0	1548.4	1029.1	622.4
42.5°	4053.3	3978.8	3766.9	3497.7	3180.8	2777.9	2256.7	1680.1	1134.1	710.2	395.2
45°	3327.8	3285.8	3163.6	2936.4	2625.2	2207.1	1729.8	1225.7	784.7	452.5	202.4
47.5°	2573.6	2520.2	2432.3	2275.8	2016.1	1619.0	1210.4	832.4	504.0	223.4	42.0
50°	1979.9	1916.9	1809.9	1636.2	1365.1	1080.6	784.7	519.3	255.8	51.5	1.9
52.5°	1139.8	1153.2	1101.6	990.9	840.1	647.2	454.4	261.6	57.3	1.9	0.0
55°	303.6	328.4	320.7	345.6	303.6	255.8	189.0	49.6	3.8	0.0	0.0
57.5°	0.0	0.0	1.9	3.8	11.5	17.2	5.7	1.9	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	1.9	1.9
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9	1.9	1.9	1.9
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°	660.6	660.6	660.6	660.6	660.6	660.6	660.6	660.6
2.5°	929.8	889.7	840.1	656.8	494.5	355.1	276.8	255.8
5°	1206.6	1109.3	983.2	609.0	305.5	122.2	55.4	45.8
7.5°	1468.2	1325.0	1097.8	532.7	154.6	30.5	15.3	13.4
10°	1670.6	1477.7	1181.8	435.3	57.3	11.5	9.5	9.5
12.5°	1809.9	1575.1	1212.4	330.3	21.0	5.7	5.7	3.8
15°	1890.1	1613.3	1183.7	227.2	7.6	3.8	0.0	0.0
17.5°	1914.9	1598.0	1107.3	143.2	1.9	0.0	0.0	0.0
20°	1893.9	1523.6	987.1	84.0	0.0	0.0	0.0	0.0
22.5°	1825.2	1407.1	842.0	45.8	0.0	0.0	0.0	0.0
25°	1697.3	1242.9	672.0	21.0	0.0	0.0	0.0	0.0
27.5°	1489.2	1031.0	505.9	7.6	0.0	0.0	0.0	0.0
30°	1252.4	803.8	358.9	1.9	0.0	0.0	0.0	0.0
32.5°	977.5	591.9	231.0	0.0	0.0	0.0	0.0	0.0
35°	735.0	414.3	137.5	0.0	0.0	0.0	0.0	0.0
37.5°	511.7	261.6	72.6	0.0	0.0	0.0	0.0	0.0
40°	318.8	141.3	24.8	0.0	0.0	0.0	0.0	0.0
42.5°	177.6	49.6	1.9	0.0	0.0	0.0	0.0	0.0
45°	42.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.9	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	1.9	0.0	0.0	0.0	0.0
60°	0.0	1.9	1.9	1.9	0.0	0.0	0.0	0.0
62.5°	1.9	1.9	1.9	1.9	0.0	0.0	0.0	0.0
65°	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0
67.5°	1.9	1.9	1.9	1.9	1.9	0.0	0.0	0.0
70°	1.9	1.9	1.9	3.8	1.9	0.0	0.0	0.0
72.5°	1.9	1.9	3.8	3.8	1.9	0.0	0.0	0.0
75°	1.9	1.9	3.8	3.8	1.9	0.0	0.0	0.0
77.5°	1.9	3.8	3.8	3.8	1.9	1.9	0.0	0.0
80°	1.9	3.8	3.8	3.8	3.8	1.9	0.0	0.0
82.5°	1.9	3.8	3.8	3.8	3.8	1.9	0.0	0.0
85°	1.9	3.8	3.8	3.8	1.9	1.9	0.0	0.0
87.5°	1.9	3.8	3.8	3.8	3.8	1.9	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)