

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: P1319551

Luminaire Tested: LDSQA3D20R409835D010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

**Test Information**

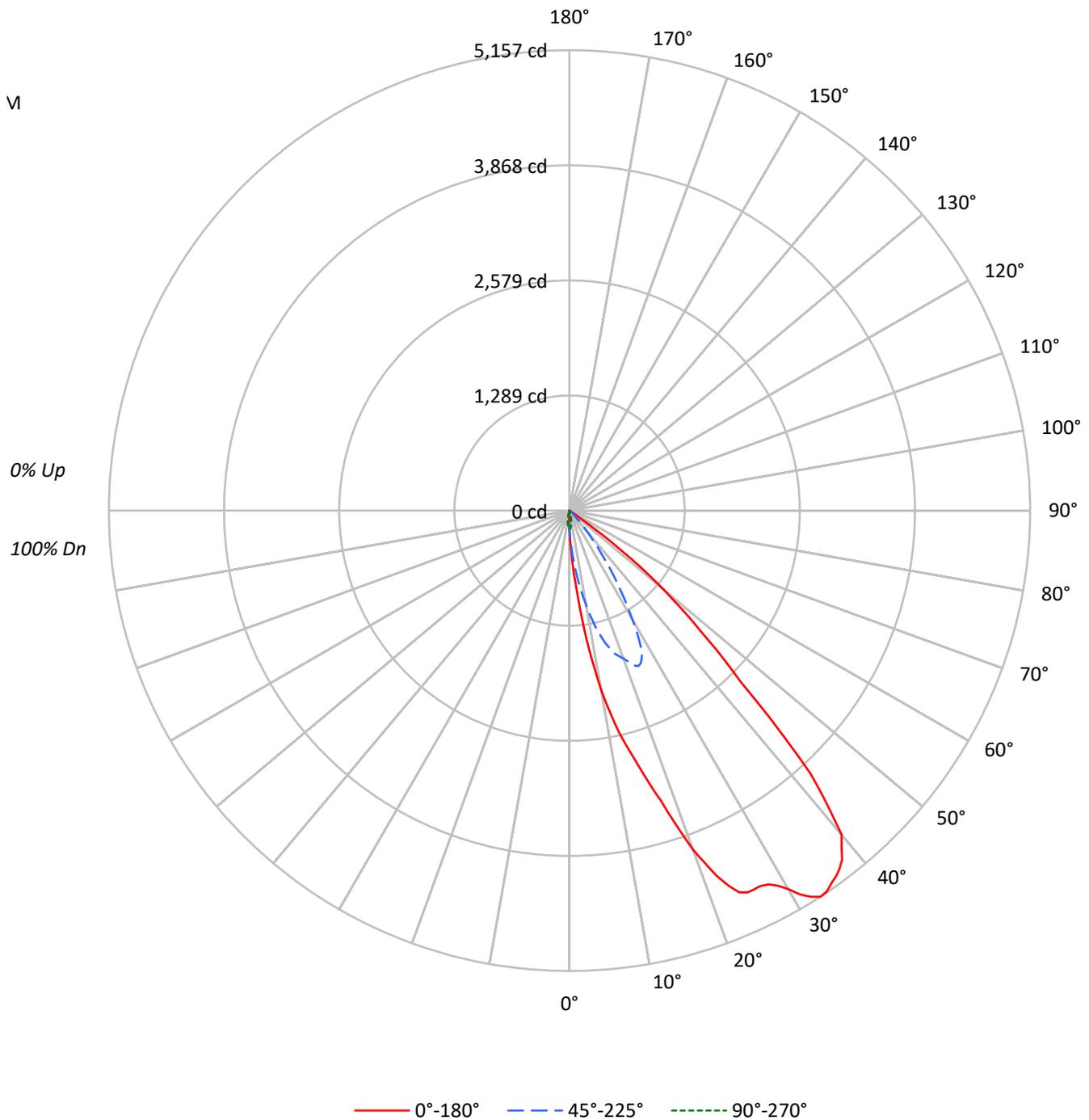
Test Method: LM-79-2019  
Report Number: P1319551  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-52)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R409835D010 3LSQCA30R 1MMS  
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 98CRI , 3LSQCA30R 1MMS TRII  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1731.0 lumens  
Efficiency: N/A  
Efficacy: 63.2 lumens/watt  
Spacing Criteria (0/90/45): 2.56 / 0.36 / 1.23  
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 (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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	83
3	99	91	85	80	97	90	84	80	87	82	78	84	81	77	82	79	76	74
4	92	83	77	72	90	82	76	71	80	74	70	78	73	69	76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	49
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	40
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	36

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

	0°	45°	90°	135°	180°
0°	34875	34875	34875	34875	34875
5°	148003	100876	30600	5515	2749
10°	355722	187628	18957	560	0
15°	523554	272582	7952	0	0
20°	740066	323133	2914	0	0
25°	896375	358675	0	0	0
30°	973248	280560	0	0	0
35°	1073196	164222	0	0	0
40°	1065155	66659	0	0	0
45°	659681	19412	0	0	0
50°	367333	429	0	0	0
55°	35911	0	0	0	0
60°	0	0	551	0	0
65°	0	0	652	0	0
70°	0	806	1611	0	0
75°	0	1065	2129	0	0
80°	0	1587	3174	0	0
85°	0	3162	6323	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 5°  
 Vertical Angle: 45°  
 Luminance: 662774 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.9	2.2
10°-20°	223.1	12.9
20°-30°	509.3	29.4
30°-40°	601.4	34.7
40°-50°	321.3	18.6
50°-60°	34.9	2.0
60°-70°	0.7	0.0
70°-80°	1.2	0.1
80°-90°	1.1	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°	770.4	44.5
0°-40°	1371.7	79.2
0°-60°	1727.9	99.8
0°-90°	1731.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1731.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	202	202	202	202	202	
5°	856	584	177	32	16	120
15°	2936	1529	45	0	0	872
25°	4717	1888	0	0	0	2142
35°	5104	781	0	0	0	3153
45°	2708	80	0	0	0	2233
55°	120	0	0	0	0	335
65°	0	0	2	0	0	0
75°	0	2	3	0	0	0
85°	0	2	3	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	202.5	202.5	202.5	202.5	202.5	202.5	202.5	202.5	202.5	202.5	202.5
2.5°	471.9	462.3	468.7	455.9	455.9	427.2	428.8	404.9	369.8	282.2	200.9
5°	856.1	894.3	864.0	824.2	801.9	773.2	734.9	695.1	583.5	352.3	177.0
7.5°	1433.1	1430.0	1378.9	1335.9	1286.5	1210.0	1138.2	1041.0	830.6	403.3	146.7
10°	2034.1	2023.0	1965.6	1928.9	1834.9	1724.9	1578.2	1422.0	1072.9	420.9	108.4
12.5°	2534.7	2520.4	2472.5	2410.4	2306.7	2168.0	2010.2	1804.6	1327.9	401.7	70.1
15°	2936.4	2933.2	2887.0	2802.5	2694.1	2558.6	2380.1	2133.0	1528.8	352.3	44.6
17.5°	3413.1	3432.2	3349.3	3258.4	3102.2	2912.5	2694.1	2412.0	1677.0	291.7	28.7
20°	4038.0	4010.9	3934.4	3802.1	3652.2	3424.2	3115.0	2711.7	1763.1	226.4	15.9
21°	4229.3	4218.1	4138.4	4015.7	3849.9	3618.7	3299.9	2864.7	1803.0	202.5	12.8
22°	4423.8	4404.6	4342.5	4222.9	4066.7	3805.2	3454.5	3022.5	1854.0	177.0	8.0
23°	4568.8	4560.9	4513.0	4395.1	4234.1	3980.6	3621.9	3169.2	1889.1	153.0	4.8
24°	4680.4	4670.9	4623.0	4533.8	4395.1	4130.5	3790.9	3327.0	1903.4	132.3	1.6
25°	4717.1	4721.9	4693.2	4623.0	4506.7	4242.0	3916.8	3451.3	1887.5	113.2	0.0
26°	4718.7	4733.0	4712.3	4672.5	4576.8	4331.3	4034.8	3524.7	1846.0	95.6	0.0
27°	4718.7	4733.0	4712.3	4682.0	4588.0	4382.3	4098.6	3532.6	1782.3	81.3	0.0
28°	4741.0	4749.0	4721.9	4685.2	4583.2	4398.3	4116.1	3484.8	1680.2	70.1	0.0
29°	4803.2	4795.2	4750.6	4701.2	4578.4	4398.3	4063.5	3394.0	1552.7	59.0	0.0
30°	4894.0	4894.0	4823.9	4745.8	4600.7	4396.7	3979.0	3229.8	1410.8	47.8	0.0
31°	5016.8	5005.6	4935.5	4819.1	4648.6	4396.7	3854.7	3048.0	1280.1	41.4	0.0
32°	5099.7	5093.3	5026.4	4889.3	4726.7	4396.7	3720.8	2847.2	1138.2	33.5	0.0
33°	5157.1	5144.3	5067.8	4925.9	4774.5	4374.4	3570.9	2631.9	1010.7	27.1	0.0
34°	5149.1	5145.9	5066.2	4919.6	4764.9	4281.9	3397.1	2392.8	892.7	22.3	0.0
35°	5104.5	5104.5	5007.2	4855.8	4696.4	4146.4	3225.0	2188.8	781.1	15.9	0.0
36°	5071.0	5058.2	4948.3	4779.3	4581.6	3932.8	2969.9	1983.1	661.6	12.8	0.0
37°	5021.6	4997.7	4874.9	4693.2	4419.0	3701.6	2702.1	1799.8	559.5	8.0	0.0
38°	4957.8	4921.2	4771.3	4592.8	4240.4	3435.4	2429.5	1594.2	465.5	4.8	0.0
39°	4841.4	4811.2	4656.5	4463.6	4026.8	3154.8	2164.9	1401.3	376.2	1.6	0.0
40°	4737.8	4685.2	4509.9	4288.3	3776.5	2837.6	1901.8	1211.6	296.5	0.0	0.0
42.5°	3994.9	3939.2	3899.3	3679.3	3008.2	2037.3	1327.9	776.4	154.6	0.0	0.0
45°	2708.5	2721.2	2596.9	2448.6	1984.7	1327.9	830.6	432.0	79.7	0.0	0.0
47.5°	1975.2	1941.7	1772.7	1492.1	1163.7	776.4	433.6	208.8	31.9	0.0	0.0
50°	1371.0	1307.2	1154.2	943.7	632.9	369.8	191.3	97.2	1.6	0.0	0.0
52.5°	744.5	699.8	593.0	430.4	263.0	141.9	76.5	39.9	0.0	0.0	0.0
55°	119.6	82.9	86.1	73.3	57.4	41.4	23.9	4.8	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	1.6	0.0	0.0	0.0	1.6	1.6
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6
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	3.2	3.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	3.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	3.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	3.2	3.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	3.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	3.2	3.2



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	3.2	3.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	3.2	3.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	3.2	3.2
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):**

	112.5°	135°	157.5°	180°
0°	202.5	202.5	202.5	202.5
2.5°	135.5	92.5	70.1	60.6
5°	78.1	31.9	17.5	15.9
7.5°	38.3	11.2	6.4	6.4
10°	15.9	3.2	0.0	0.0
12.5°	4.8	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0
21°	0.0	0.0	0.0	0.0
22°	0.0	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	1.6	0.0	0.0	0.0
67.5°	1.6	0.0	0.0	0.0
70°	1.6	0.0	0.0	0.0
72.5°	1.6	0.0	0.0	0.0
75°	1.6	0.0	0.0	0.0
77.5°	1.6	0.0	0.0	0.0
80°	1.6	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
82.5°	1.6	0.0	0.0	0.0
85°	1.6	0.0	0.0	0.0
87.5°	1.6	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)