

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: P1309543

Luminaire Tested: LDSQA3D20R309030D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

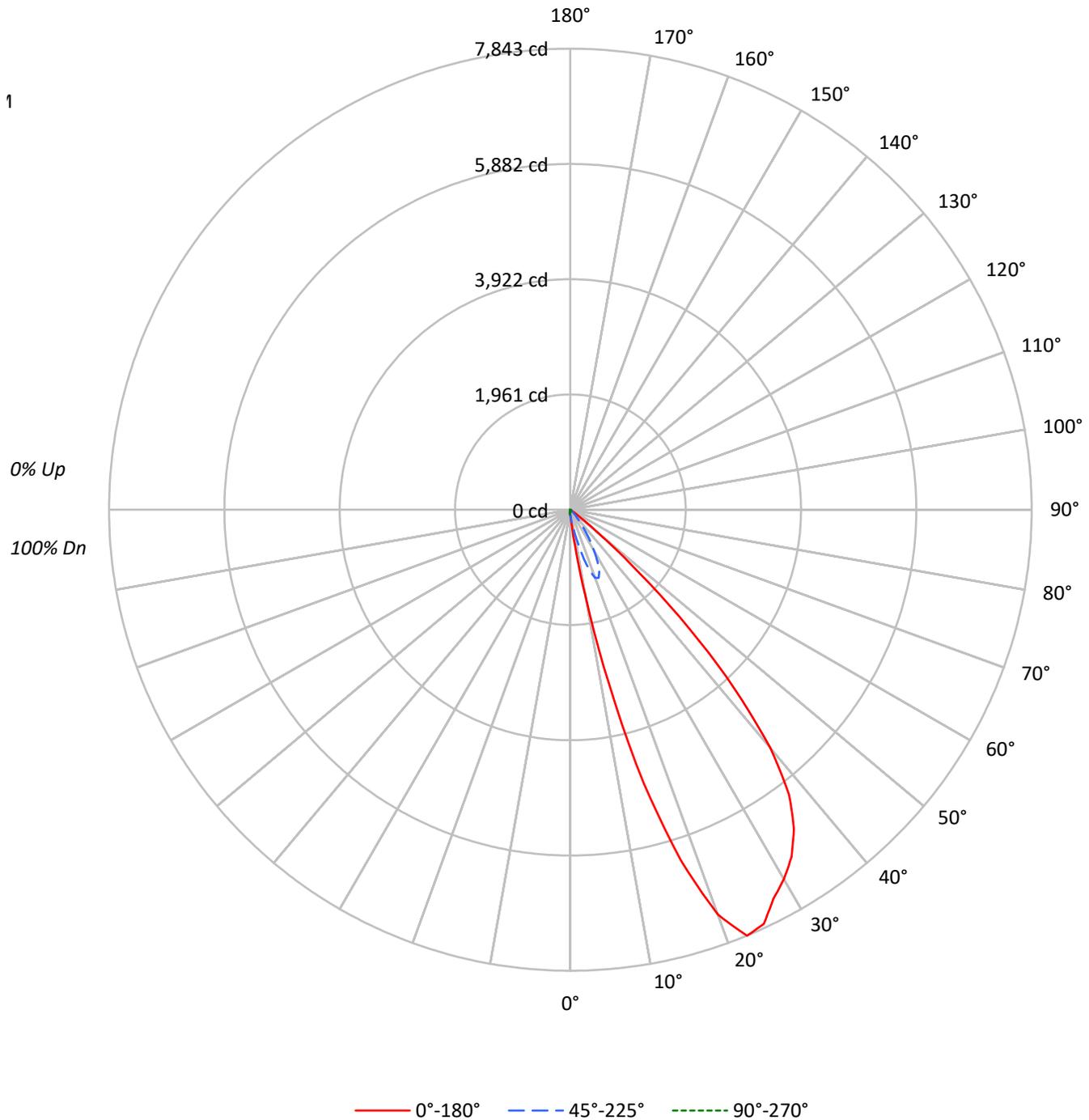
Test Method: LM-79-2019  
Report Number: P1309543  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-62)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R309030D010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R30 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1849.1 lumens  
Efficiency: N/A  
Efficacy: 64.2 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28  
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 (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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	96	95	93	92
2	106	100	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85	89	87	85	83
3	99	92	86	81	97	90	85	81	87	83	79	85	81	78	83	79	77	83	79	77	75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	76	73	69	68
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	71	66	63	61
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	60	55	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	56	51	47	45
9	67	55	48	43	65	55	48	43	53	47	43	52	47	43	52	46	43	52	46	43	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°	15138	15138	15138	15138	15138
5°	45571	30375	14315	6431	5256
10°	263858	64408	11227	2955	2064
15°	858255	146097	7827	606	303
20°	1342970	226052	4948	0	0
25°	1477533	220887	2565	0	0
30°	1443108	159271	1014	0	0
35°	1392831	90574	357	0	0
40°	1187795	38354	0	0	0
45°	697092	14394	414	0	414
50°	169306	2706	455	455	1366
55°	14713	0	1021	1531	2042
60°	586	0	1171	1757	2893
65°	693	693	2078	2078	3423
70°	856	856	2568	2568	3424
75°	0	1131	3394	3394	3394
80°	0	1686	5058	3372	3372
85°	0	3359	10078	3359	3359

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 697092 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16.1	0.9
10°-20°	254.1	13.7
20°-30°	645.8	34.9
30°-40°	643.7	34.8
40°-50°	260.8	14.1
50°-60°	18.0	1.0
60°-70°	4.1	0.2
70°-80°	4.1	0.2
80°-90°	2.4	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°	916.1	49.5
0°-40°	1559.7	84.4
0°-60°	1838.5	99.4
0°-90°	1849.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1849.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	88	88	88	88	88	
5°	264	176	83	37	30	61
15°	4814	819	44	3	2	1401
25°	7775	1162	14	0	0	3511
35°	6625	431	2	0	0	4061
45°	2862	59	2	0	2	2184
55°	49	0	3	5	7	128
65°	2	2	5	5	8	2
75°	0	2	5	5	5	1
85°	0	2	5	2	2	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
2.5°	145.3	147.0	147.0	143.6	141.9	141.9	136.9	135.2	130.1	125.0	108.1
5°	263.6	258.5	251.7	251.7	236.5	228.1	216.3	202.7	192.6	175.7	125.0
7.5°	598.1	557.6	545.7	530.5	473.1	427.5	375.1	329.5	287.2	251.7	138.5
10°	1508.8	1429.4	1363.5	1230.0	1062.7	902.2	753.5	581.2	462.9	368.3	148.7
12.5°	3039.5	2933.1	2806.4	2563.1	2250.5	1850.1	1495.3	1116.8	784.0	542.3	152.1
15°	4813.6	4632.8	4435.1	4125.9	3614.0	3039.5	2399.2	1796.0	1258.7	819.4	148.7
17.5°	6259.8	6188.9	5896.6	5474.2	4847.4	4107.3	3318.3	2493.8	1698.0	1072.9	138.5
20°	7327.6	7278.6	6925.5	6476.1	5769.9	4921.7	3919.8	2929.7	2003.8	1233.4	123.3
22.5°	7842.9	7834.5	7579.4	7119.8	6371.3	5410.0	4306.7	3181.4	2098.4	1255.3	103.1
25°	7775.4	7805.8	7660.5	7319.2	6601.1	5611.0	4421.6	3181.4	2029.2	1162.4	86.2
27.5°	7467.9	7488.1	7396.9	7135.0	6466.0	5465.7	4261.1	2977.0	1828.1	998.5	71.0
30°	7256.7	7265.1	7151.9	6871.5	6161.8	5134.6	3882.6	2598.5	1524.0	800.9	52.4
32.5°	6999.9	6998.2	6866.4	6545.4	5763.1	4670.0	3402.8	2147.4	1170.9	608.2	30.4
35°	6624.8	6582.5	6403.4	6033.4	5168.4	4044.8	2789.5	1635.5	843.1	430.8	18.6
37.5°	6109.5	5999.6	5746.2	5251.2	4333.7	3171.3	2068.0	1148.9	576.1	285.5	11.8
40°	5283.3	5166.7	4822.0	4220.5	3277.8	2282.6	1393.9	748.5	363.3	170.6	6.8
42.5°	4142.8	4063.4	3598.8	2999.0	2164.3	1456.4	838.0	442.7	204.4	98.0	1.7
45°	2862.1	2759.1	2394.1	1885.6	1299.3	807.6	469.7	231.5	116.6	59.1	0.0
47.5°	1579.7	1453.0	1241.8	976.6	653.9	424.1	236.5	125.0	65.9	28.7	0.0
50°	631.9	626.8	498.4	354.8	250.1	192.6	118.3	67.6	33.8	10.1	1.7
52.5°	221.3	221.3	190.9	155.4	121.6	87.9	59.1	32.1	11.8	3.4	1.7
55°	49.0	54.1	50.7	47.3	45.6	38.9	25.3	11.8	3.4	0.0	1.7
57.5°	5.1	5.1	5.1	6.8	8.4	8.4	6.8	3.4	0.0	0.0	1.7
60°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0	3.4
62.5°	1.7	1.7	1.7	1.7	1.7	0.0	0.0	0.0	1.7	1.7	3.4
65°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4
67.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.4
70°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	5.1
72.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	5.1
75°	0.0	0.0	1.7	1.7	0.0	1.7	1.7	1.7	1.7	1.7	5.1
77.5°	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	1.7	1.7	3.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	3.4
82.5°	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	1.7	3.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	3.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	3.4
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):**

	90°	112.5°	135°	157.5°	180°
0°	87.9	87.9	87.9	87.9	87.9
2.5°	87.9	69.3	57.4	50.7	49.0
5°	82.8	52.4	37.2	32.1	30.4
7.5°	74.3	38.9	25.3	20.3	18.6
10°	64.2	28.7	16.9	11.8	11.8
12.5°	54.1	22.0	10.1	5.1	3.4
15°	43.9	13.5	3.4	1.7	1.7
17.5°	33.8	8.4	0.0	0.0	0.0
20°	27.0	3.4	0.0	0.0	0.0
22.5°	20.3	1.7	0.0	0.0	0.0
25°	13.5	0.0	0.0	0.0	0.0
27.5°	8.4	0.0	0.0	0.0	0.0
30°	5.1	0.0	0.0	0.0	0.0
32.5°	1.7	0.0	0.0	0.0	0.0
35°	1.7	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	1.7	0.0	0.0	1.7	1.7
47.5°	1.7	1.7	1.7	3.4	3.4
50°	1.7	1.7	1.7	3.4	5.1
52.5°	3.4	1.7	3.4	5.1	5.1
55°	3.4	3.4	5.1	6.8	6.8
57.5°	3.4	3.4	5.1	6.8	6.8
60°	3.4	3.4	5.1	6.8	8.4
62.5°	5.1	5.1	5.1	6.8	6.8
65°	5.1	5.1	5.1	6.8	8.4
67.5°	5.1	5.1	5.1	6.8	8.4
70°	5.1	5.1	5.1	6.8	6.8
72.5°	6.8	5.1	5.1	6.8	6.8
75°	5.1	5.1	5.1	5.1	5.1
77.5°	5.1	5.1	3.4	5.1	5.1
80°	5.1	3.4	3.4	3.4	3.4
82.5°	5.1	3.4	3.4	3.4	3.4
85°	5.1	3.4	1.7	1.7	1.7
87.5°	5.1	3.4	1.7	1.7	1.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)