

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: P1317800

Luminaire Tested: LDSQA3D20R409827D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1317800  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R409827D010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R40 optic, 2700K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

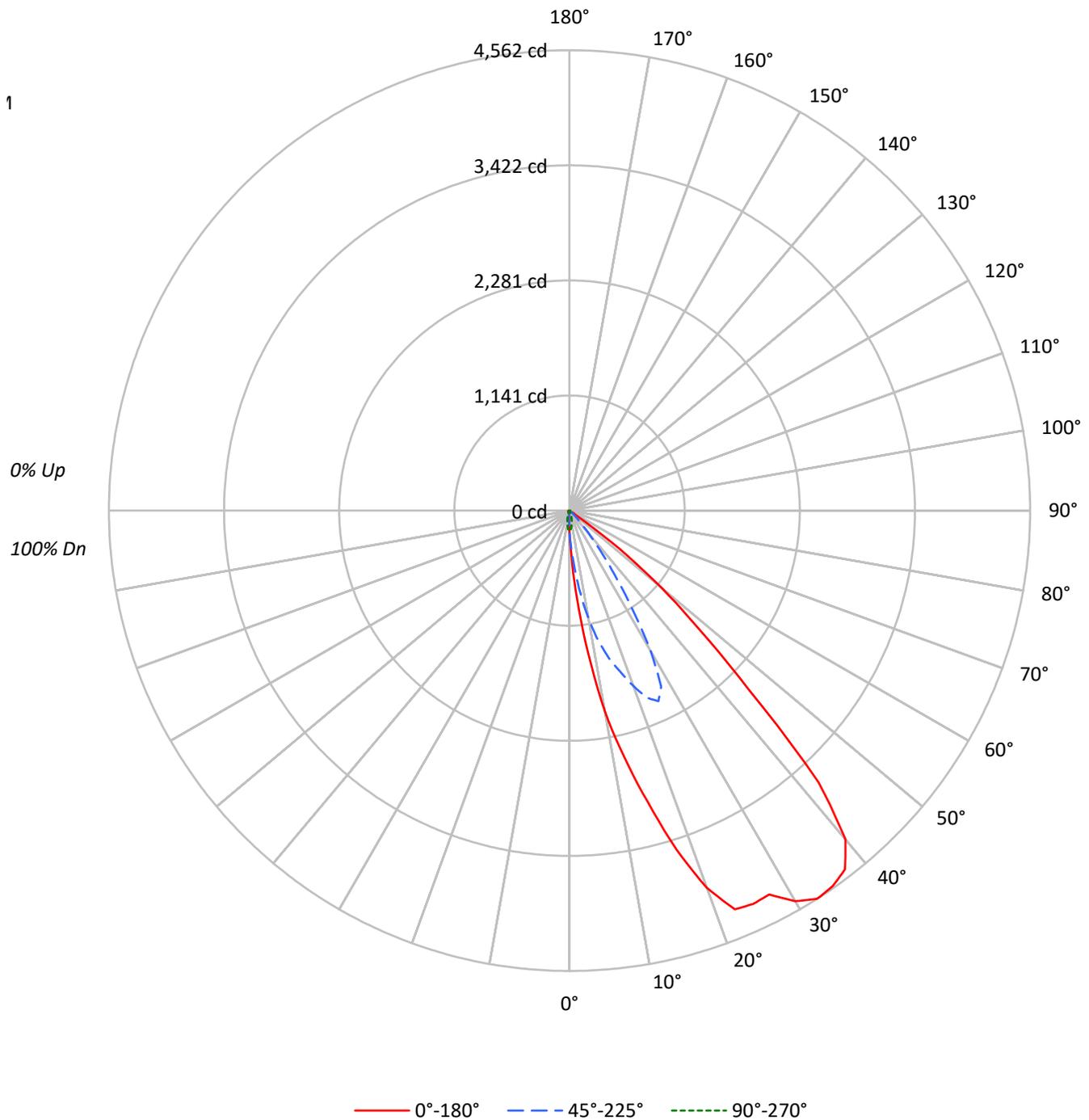
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1683.0 lumens  
Efficiency: N/A  
Efficacy: 61.4 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24  
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	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	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	77	71	90	82	76	71	80	74	70	78	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	80	70	62	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	56	52	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	42	65	54	47	42	53	46	42	52	46	42	51	46	42	51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	47	42	38	37

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

	0°	45°	90°	135°	180°
0°	34290	34290	34290	34290	34290
5°	154676	98611	30738	11808	8609
10°	354725	190549	21650	4232	3235
15°	532344	270353	13444	2282	2033
20°	728905	338913	7826	1301	1558
25°	817115	395997	4048	1083	1349
30°	888790	319657	1690	855	1412
35°	955206	163592	589	1198	1787
40°	955555	65243	315	1281	2248
45°	610092	21823	682	2070	3118
50°	316694	2679	1152	2679	3805
55°	27324	420	1291	3423	4684
60°	964	482	1481	3927	5373
65°	1141	571	2323	4075	5787
70°	705	705	2870	4280	5740
75°	932	932	2861	4724	6654
80°	1389	1389	4265	4265	5653
85°	0	2766	8497	5533	5533

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 610092 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.8	2.3
10°-20°	227.8	13.5
20°-30°	498.9	29.6
30°-40°	568.3	33.8
40°-50°	299.9	17.8
50°-60°	35.4	2.1
60°-70°	6.3	0.4
70°-80°	5.2	0.3
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°	765.5	45.5
0°-40°	1333.8	79.3
0°-60°	1669.0	99.2
0°-90°	1683.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1683.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	199	199	199	199	199	
5°	895	570	178	68	50	121
15°	2986	1516	75	13	11	880
25°	4300	2084	21	6	7	1981
35°	4543	778	3	6	8	2816
45°	2505	90	3	8	13	2020
55°	91	1	4	11	16	283
65°	3	1	6	10	14	3
75°	1	1	4	7	10	1
85°	0	1	4	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°	67.5°
0°	199.1	199.1	199.1	199.1	199.1	199.1	199.1	199.1	199.1	199.1	199.1
2.5°	443.8	443.8	442.4	429.6	428.2	426.7	404.0	398.3	371.3	352.8	268.8
5°	894.7	874.8	873.4	850.6	812.2	761.0	728.3	675.7	624.5	570.4	331.4
7.5°	1425.3	1442.4	1395.4	1371.2	1285.9	1224.7	1130.8	1048.3	933.1	825.0	382.6
10°	2028.4	1998.5	1951.6	1904.6	1812.2	1702.7	1563.3	1416.8	1250.3	1089.6	411.1
12.5°	2499.2	2460.8	2432.4	2368.4	2277.3	2136.5	1970.1	1773.8	1553.3	1321.4	409.7
15°	2985.7	2947.3	2883.3	2826.4	2691.3	2533.4	2352.7	2093.8	1823.6	1516.3	379.8
17.5°	3520.5	3470.8	3399.6	3312.9	3182.0	3007.0	2778.0	2462.2	2079.6	1675.6	325.7
20°	3977.1	3947.3	3876.2	3773.7	3645.7	3475.0	3210.5	2860.5	2394.0	1849.2	258.9
22.5°	4275.9	4248.8	4200.5	4110.9	4014.1	3832.1	3590.2	3206.2	2657.1	2007.1	196.3
25°	4300.0	4288.7	4275.9	4246.0	4187.7	4058.2	3822.1	3408.2	2820.7	2083.9	145.1
27.5°	4287.2	4283.0	4280.1	4264.5	4226.1	4098.1	3856.2	3438.0	2799.4	1964.4	106.7
30°	4469.3	4456.5	4449.4	4398.2	4297.2	4099.5	3783.7	3277.3	2487.9	1607.4	76.8
32.5°	4561.8	4558.9	4551.8	4502.0	4359.8	4102.3	3661.4	2889.0	1972.9	1160.7	52.6
35°	4543.3	4529.1	4503.5	4411.0	4213.3	3890.4	3265.9	2307.2	1423.9	778.1	34.1
37.5°	4480.7	4448.0	4398.2	4231.8	3968.6	3527.7	2648.6	1698.4	968.7	503.5	19.9
40°	4250.3	4206.2	4127.9	3924.5	3578.9	2907.5	1958.7	1147.9	635.8	290.2	5.7
42.5°	3654.3	3597.4	3540.5	3312.9	2917.4	2167.8	1288.7	709.8	362.7	159.3	1.4
45°	2504.9	2433.8	2355.6	2190.6	1873.4	1312.9	766.7	399.7	187.8	89.6	1.4
47.5°	1739.6	1706.9	1570.4	1359.9	1042.6	695.6	396.9	196.3	99.6	41.3	1.4
50°	1182.0	1145.1	985.8	782.3	554.8	332.9	182.1	98.1	44.1	10.0	1.4
52.5°	620.2	574.7	473.7	361.3	224.7	139.4	79.7	42.7	12.8	1.4	1.4
55°	91.0	83.9	68.3	55.5	49.8	38.4	22.8	10.0	1.4	1.4	2.8
57.5°	2.8	2.8	2.8	2.8	4.3	4.3	2.8	1.4	1.4	1.4	2.8
60°	2.8	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	1.4	2.8
62.5°	2.8	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	1.4	2.8
65°	2.8	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	1.4	2.8
67.5°	2.8	2.8	2.8	2.8	1.4	1.4	1.4	1.4	1.4	2.8	4.3
70°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	4.3
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	4.3
75°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	4.3
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	4.3
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8
82.5°	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	4.3
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	2.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	2.8
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°	199.1	199.1	199.1	199.1	199.1
2.5°	196.3	145.1	112.4	96.7	95.3
5°	177.8	103.8	68.3	52.6	49.8
7.5°	150.8	72.5	39.8	28.4	27.0
10°	123.8	49.8	24.2	19.9	18.5
12.5°	98.1	32.7	17.1	15.6	14.2
15°	75.4	21.3	12.8	11.4	11.4
17.5°	56.9	14.2	10.0	10.0	10.0
20°	42.7	10.0	7.1	8.5	8.5
22.5°	29.9	7.1	5.7	7.1	7.1
25°	21.3	5.7	5.7	7.1	7.1
27.5°	14.2	4.3	4.3	5.7	7.1
30°	8.5	2.8	4.3	5.7	7.1
32.5°	4.3	2.8	4.3	7.1	7.1
35°	2.8	4.3	5.7	7.1	8.5
37.5°	1.4	4.3	5.7	8.5	8.5
40°	1.4	4.3	5.7	8.5	10.0
42.5°	2.8	5.7	7.1	10.0	11.4
45°	2.8	5.7	8.5	11.4	12.8
47.5°	2.8	5.7	10.0	12.8	12.8
50°	4.3	7.1	10.0	12.8	14.2
52.5°	4.3	7.1	10.0	14.2	15.6
55°	4.3	7.1	11.4	14.2	15.6
57.5°	4.3	8.5	11.4	14.2	15.6
60°	4.3	7.1	11.4	14.2	15.6
62.5°	5.7	7.1	10.0	14.2	14.2
65°	5.7	7.1	10.0	14.2	14.2
67.5°	5.7	7.1	10.0	12.8	12.8
70°	5.7	7.1	8.5	11.4	11.4
72.5°	5.7	7.1	8.5	10.0	11.4
75°	4.3	5.7	7.1	8.5	10.0
77.5°	4.3	5.7	5.7	8.5	8.5
80°	4.3	4.3	4.3	5.7	5.7
82.5°	4.3	4.3	2.8	4.3	4.3
85°	4.3	2.8	2.8	2.8	2.8
87.5°	2.8	2.8	1.4	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)