

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: P1320426

Luminaire Tested: LDSQA3D20R409840D010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320426
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: LDSQA3D20R409840D010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R40 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

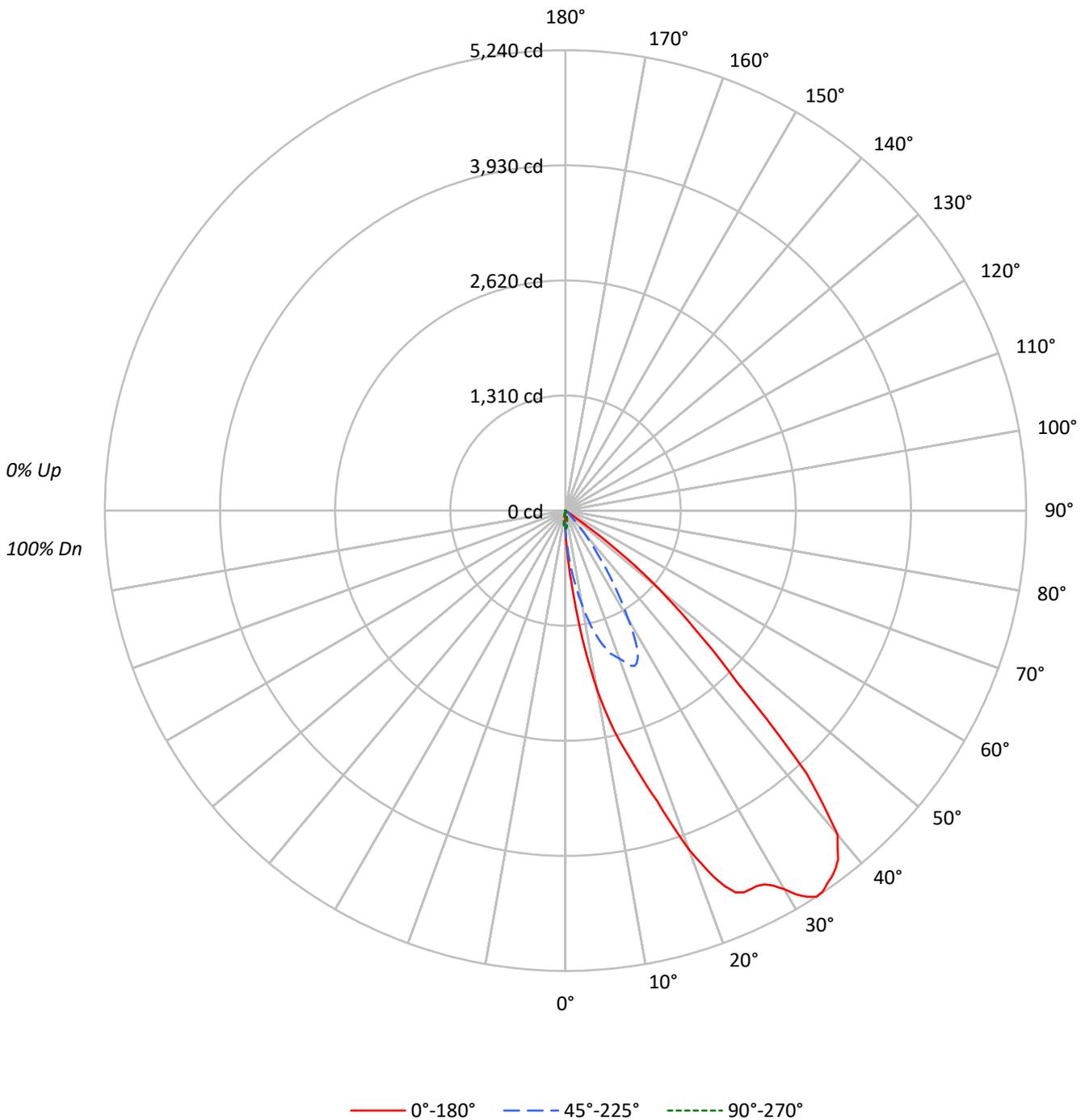
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1759.0 lumens
Efficiency: N/A
Efficacy: 64.2 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_{in}): 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	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	89	86	84	83
3	99	91	85	80	97	90	84	80	87	82	78	84	81	77	82	79	76	82	79	76	74
4	92	83	77	72	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	59	56	64	59	56	54
7	75	64	57	52	74	63	56	51	62	56	51	60	55	51	59	54	50	59	54	50	49
8	70	59	51	47	69	58	51	46	57	51	46	56	50	46	55	50	46	55	50	46	44
9	66	54	47	42	64	54	47	42	52	46	42	51	46	42	51	45	42	51	45	42	40
10	62	50	43	38	60	49	43	38	49	42	38	48	42	38	47	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	35426	35426	35426	35426	35426
5°	150389	102501	31084	5601	2801
10°	361476	190654	19272	560	0
15°	532023	276986	8095	0	0
20°	752034	328375	2969	0	0
25°	910874	364471	0	0	0
30°	988998	285094	0	0	0
35°	1090541	166892	0	0	0
40°	1082399	67738	0	0	0
45°	670349	19728	0	0	0
50°	373254	429	0	0	0
55°	36482	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: 673491 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.5	2.2
10°-20°	226.7	12.9
20°-30°	517.5	29.4
30°-40°	611.1	34.7
40°-50°	326.5	18.6
50°-60°	35.5	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°	782.8	44.5
0°-40°	1393.9	79.2
0°-60°	1755.9	99.8
0°-90°	1759.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1759.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	206	206	206	206	206	
5°	870	593	180	32	16	122
15°	2984	1554	45	0	0	886
25°	4793	1918	0	0	0	2177
35°	5187	794	0	0	0	3204
45°	2752	81	0	0	0	2269
55°	122	0	0	0	0	341
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°	205.7	205.7	205.7	205.7	205.7	205.7	205.7	205.7	205.7	205.7	205.7
2.5°	479.5	469.8	476.3	463.3	463.3	434.1	435.8	411.5	375.8	286.7	204.1
5°	869.9	908.8	878.0	837.5	814.8	785.7	746.8	706.3	592.9	358.0	179.8
7.5°	1456.3	1453.1	1401.2	1357.5	1307.3	1229.5	1156.6	1057.8	844.0	409.8	149.0
10°	2067.0	2055.7	1997.4	1960.1	1864.6	1752.8	1603.7	1445.0	1090.2	427.7	110.2
12.5°	2575.7	2561.1	2512.5	2449.3	2344.1	2203.1	2042.7	1833.8	1349.4	408.2	71.3
15°	2983.9	2980.7	2933.7	2847.9	2737.7	2600.0	2418.6	2167.5	1553.5	358.0	45.4
17.5°	3468.3	3487.7	3403.5	3311.2	3152.4	2959.6	2737.7	2451.0	1704.2	296.4	29.2
20°	4103.3	4075.8	3998.0	3863.6	3711.3	3479.6	3165.4	2755.5	1791.7	230.0	16.2
21°	4297.7	4286.4	4205.4	4080.6	3912.2	3677.3	3353.3	2911.0	1832.2	205.7	13.0
22°	4495.3	4475.9	4412.7	4291.2	4132.5	3866.8	3510.4	3071.4	1884.0	179.8	8.1
23°	4642.7	4634.6	4586.0	4466.2	4302.6	4045.0	3680.5	3220.4	1919.6	155.5	4.9
24°	4756.1	4746.4	4697.8	4607.1	4466.2	4197.3	3852.2	3380.8	1934.2	134.5	1.6
25°	4793.4	4798.3	4769.1	4697.8	4579.6	4310.7	3980.2	3507.2	1918.0	115.0	0.0
26°	4795.0	4809.6	4788.5	4748.0	4650.8	4401.4	4100.1	3581.7	1875.9	97.2	0.0
27°	4795.0	4809.6	4788.5	4757.8	4662.2	4453.2	4164.9	3589.8	1811.1	82.6	0.0
28°	4817.7	4825.8	4798.3	4761.0	4657.3	4469.4	4182.7	3541.2	1707.4	71.3	0.0
29°	4880.9	4872.8	4827.4	4777.2	4652.5	4469.4	4129.2	3448.9	1577.8	59.9	0.0
30°	4973.2	4973.2	4901.9	4822.6	4675.1	4467.8	4043.4	3282.0	1433.6	48.6	0.0
31°	5097.9	5086.6	5015.3	4897.1	4723.7	4467.8	3917.0	3097.3	1300.8	42.1	0.0
32°	5182.2	5175.7	5107.7	4968.4	4803.1	4467.8	3780.9	2893.2	1156.6	34.0	0.0
33°	5240.5	5227.5	5149.8	5005.6	4851.7	4445.1	3628.7	2674.5	1027.0	27.5	0.0
34°	5232.4	5229.2	5148.2	4999.1	4842.0	4351.2	3452.1	2431.5	907.2	22.7	0.0
35°	5187.0	5187.0	5088.2	4934.3	4772.3	4213.5	3277.1	2224.2	793.8	16.2	0.0
36°	5153.0	5140.1	5028.3	4856.6	4655.7	3996.4	3017.9	2015.2	672.3	13.0	0.0
37°	5102.8	5078.5	4953.8	4769.1	4490.5	3761.5	2745.8	1828.9	568.6	8.1	0.0
38°	5038.0	5000.8	4848.5	4667.0	4309.0	3491.0	2468.8	1619.9	473.0	4.9	0.0
39°	4919.8	4889.0	4731.8	4535.8	4092.0	3205.9	2199.9	1423.9	382.3	1.6	0.0
40°	4814.5	4761.0	4582.8	4357.6	3837.6	2883.5	1932.6	1231.2	301.3	0.0	0.0
42.5°	4059.6	4002.9	3962.4	3738.8	3056.8	2070.3	1349.4	788.9	157.1	0.0	0.0
45°	2752.3	2765.2	2638.9	2488.2	2016.8	1349.4	844.0	439.0	81.0	0.0	0.0
47.5°	2007.1	1973.1	1801.4	1516.3	1182.6	788.9	440.6	212.2	32.4	0.0	0.0
50°	1393.1	1328.4	1172.8	959.0	643.1	375.8	194.4	98.8	1.6	0.0	0.0
52.5°	756.5	711.2	602.6	437.4	267.3	144.2	77.8	40.5	0.0	0.0	0.0
55°	121.5	84.2	87.5	74.5	58.3	42.1	24.3	4.9	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°	205.7	205.7	205.7	205.7
2.5°	137.7	94.0	71.3	61.6
5°	79.4	32.4	17.8	16.2
7.5°	38.9	11.3	6.5	6.5
10°	16.2	3.2	0.0	0.0
12.5°	4.9	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)