

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: P1320345

Luminaire Tested: LDSQA3D20R159840D010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320345
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R159840D010 3LSQCA30R 1MMS
Description: 3in Adjustable LED luminaire with, R15 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MMS TRII
Light Source: -
Ballast/Driver: -

Summary

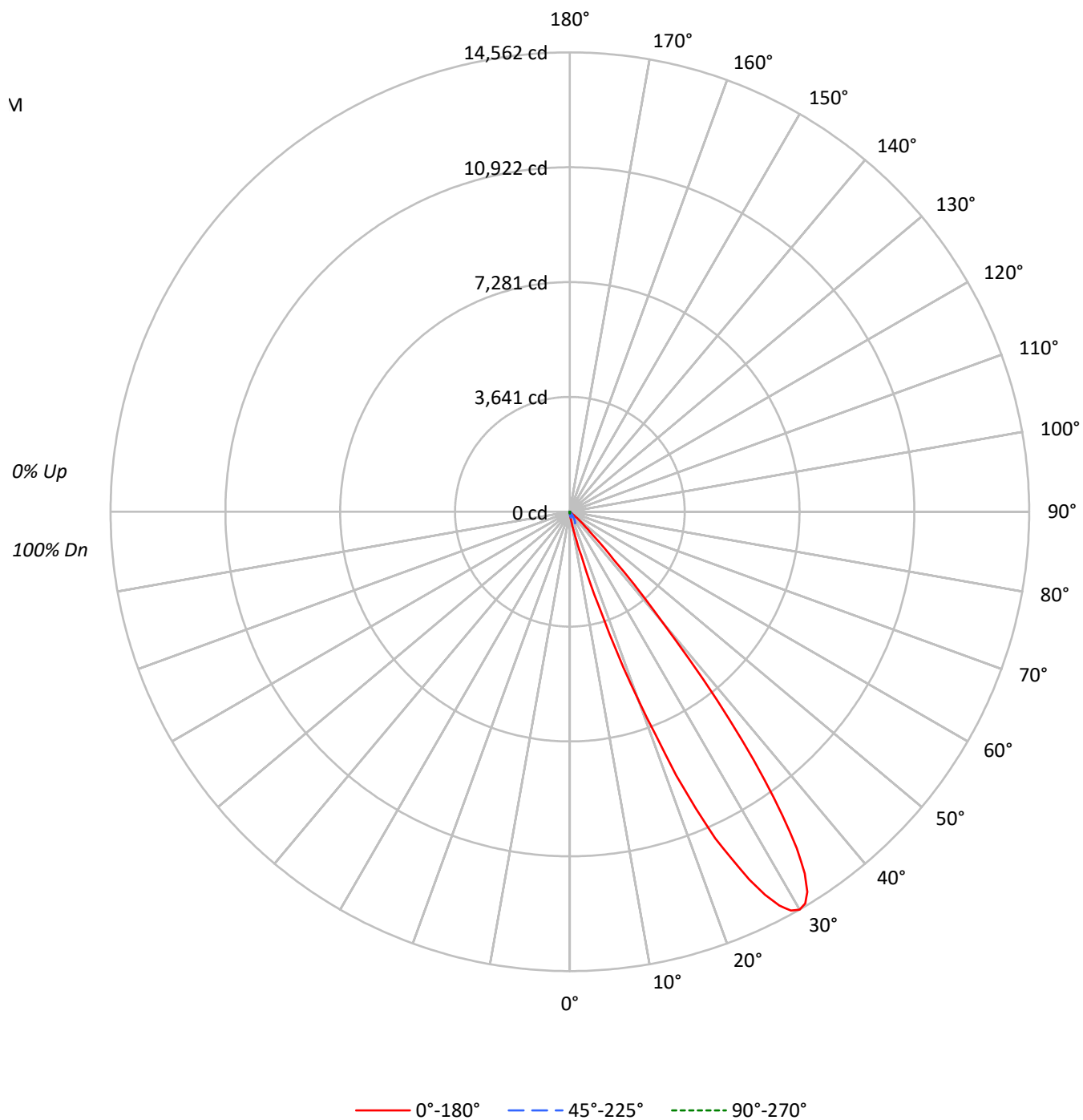
Lumens per Lamp: N/A
Luminaire Lumens: 1540.0 lumens
Efficiency: N/A
Efficacy: 56.2 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	94	94	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	85	85	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	77	77	75
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	70	70	68
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	63	63	61
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	57	57	55
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	51	51	50
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	46	46	45
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	42	42	41
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	38	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	9489	9489	9489	9489	9489
5°	27436	20711	8125	3354	2247
10°	71368	30866	5386	0	0
15°	285277	50530	2888	0	0
20°	1165522	74501	898	0	0
25°	2303959	73863	0	0	0
30°	2895801	58288	0	0	0
35°	2470778	35742	0	0	0
40°	1017224	11286	0	0	0
45°	220080	4725	0	0	0
50°	28213	0	0	0	0
55°	2432	0	480	0	0
60°	0	0	1102	0	0
65°	0	0	1304	0	0
70°	0	806	2467	0	0
75°	0	1065	3261	0	0
80°	0	1587	4860	0	0
85°	0	3162	9683	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 230334 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.4	0.5
10°-20°	107.9	7.0
20°-30°	629.1	40.8
30°-40°	674.5	43.8
40°-50°	113.8	7.4
50°-60°	3.4	0.2
60°-70°	1.0	0.1
70°-80°	1.5	0.1
80°-90°	1.3	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°	744.4	48.3
0°-40°	1418.9	92.1
0°-60°	1536.1	99.8
0°-90°	1540.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1540.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	55	55	55	55	55	
5°	159	120	47	19	13	22
15°	1600	283	16	0	0	740
25°	12124	389	0	0	0	5486
35°	11752	170	0	0	0	6754
45°	904	19	0	0	0	1067
55°	8	0	2	0	0	20
65°	0	0	3	0	0	0
75°	0	2	5	0	0	0
85°	0	2	5	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
2.5°	100.4	102.0	103.6	103.6	103.6	103.6	102.0	102.0	102.0	102.0	100.4
5°	158.7	158.7	158.7	158.7	158.7	158.7	157.1	157.1	157.1	157.1	157.1
7.5°	226.7	223.5	225.1	220.2	223.5	221.9	220.2	223.5	223.5	215.4	215.4
10°	408.1	406.5	390.3	393.5	396.8	395.1	395.1	385.4	383.8	377.3	370.8
12.5°	787.0	804.8	817.8	817.8	787.0	798.4	777.3	782.2	785.4	775.7	741.7
15°	1600.0	1629.1	1598.3	1627.5	1616.2	1574.1	1527.1	1463.9	1488.2	1444.5	1429.9
17.5°	3504.4	3570.8	3543.2	3408.8	3452.5	3348.9	3284.1	3259.8	3191.8	2989.4	2905.2
20°	6359.4	6440.3	6364.2	6207.1	6257.3	6061.4	6011.2	5964.2	5663.0	5552.9	5199.9
21°	7560.9	7627.3	7656.5	7492.9	7392.5	7237.1	7107.5	7065.4	6882.4	6670.3	6307.5
22°	9011.9	8934.2	8759.3	8782.0	8633.0	8505.1	8325.3	8155.3	7951.2	7654.9	7355.3
23°	10213.5	10122.8	10040.2	9939.8	9779.5	9688.8	9431.3	9245.1	8979.5	8662.1	8373.9
24°	11332.5	11193.2	11141.4	10963.3	10918.0	10713.9	10505.0	10262.1	9941.5	9603.0	9284.0
25°	12124.4	12145.5	12100.1	12079.1	11847.5	11638.6	11431.3	11057.2	10783.5	10484.0	9993.3
26°	12973.0	12982.7	12960.0	12804.5	12595.6	12391.6	12124.4	11798.9	11402.1	11070.2	10626.5
27°	13622.3	13583.5	13551.1	13366.5	13194.8	12937.3	12694.4	12309.0	11922.0	11526.8	11011.9
28°	14140.5	14067.7	14027.2	13868.5	13667.7	13351.9	13053.9	12694.4	12307.4	11883.1	11326.0
29°	14453.1	14375.4	14330.0	14155.1	13923.5	13646.6	13345.4	12950.3	12534.1	12061.2	11500.9
30°	14561.6	14516.2	14445.0	14263.6	14023.9	13735.7	13426.4	12997.3	12561.6	12077.4	11484.7
31°	14490.3	14432.0	14364.0	14168.1	13909.0	13633.7	13274.2	12824.0	12365.7	11904.2	11275.8
32°	14206.9	14171.3	14088.7	13826.4	13615.9	13259.6	12904.9	12483.9	11983.5	11488.0	10919.6
33°	13675.8	13617.5	13546.2	13306.6	13037.7	12696.0	12343.0	11912.3	11415.1	10892.0	10267.0
34°	12866.1	12791.6	12702.5	12542.2	12198.9	11902.5	11494.5	10990.8	10579.5	10077.5	9512.3
35°	11751.9	11643.4	11536.6	11415.1	11029.7	10756.0	10480.7	10041.9	9645.1	9172.2	8532.6
36°	10501.8	10459.7	10372.2	10051.6	9926.9	9554.4	9332.6	8828.9	8508.3	8045.1	7517.2
37°	9088.0	8840.3	8966.6	8786.8	8411.1	8294.5	8030.6	7598.2	7251.6	6762.6	6380.4
38°	7572.3	7410.3	7499.4	7318.0	7122.1	6853.3	6652.5	6336.7	5948.0	5564.2	5201.5
39°	6001.5	5870.3	5967.5	5844.4	5546.4	5434.7	5256.6	5015.3	4702.7	4403.1	4059.8
40°	4524.6	4356.2	4485.7	4310.8	4174.8	3991.8	3901.1	3679.3	3484.9	3305.2	3086.6
42.5°	2066.3	2048.5	2019.4	1956.2	1941.7	1943.3	1831.5	1758.7	1659.9	1544.9	1475.3
45°	903.6	926.3	945.7	910.1	908.5	889.0	882.6	834.0	814.6	777.3	732.0
47.5°	445.3	453.4	448.6	458.3	450.2	437.2	434.0	427.5	408.1	406.5	385.4
50°	105.3	103.6	103.6	105.3	103.6	103.6	102.0	98.8	97.2	98.8	93.9
52.5°	34.0	35.6	34.0	32.4	34.0	35.6	34.0	34.0	34.0	34.0	34.0
55°	8.1	8.1	8.1	8.1	8.1	8.1	6.5	6.5	8.1	8.1	8.1
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	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):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	55.1	55.1	55.1	55.1	55.1	55.1	55.1	55.1
2.5°	98.8	84.2	69.6	55.1	40.5	32.4	30.8	29.1
5°	149.0	119.8	79.4	47.0	27.5	19.4	14.6	13.0
7.5°	200.8	149.0	87.4	38.9	19.4	8.1	3.2	1.6
10°	288.3	176.5	90.7	30.8	9.7	0.0	0.0	0.0
12.5°	565.2	202.4	89.1	24.3	1.6	0.0	0.0	0.0
15°	939.2	283.4	82.6	16.2	0.0	0.0	0.0	0.0
17.5°	1538.4	366.0	71.3	11.3	0.0	0.0	0.0	0.0
20°	2385.4	406.5	55.1	4.9	0.0	0.0	0.0	0.0
21°	2796.7	409.7	48.6	3.2	0.0	0.0	0.0	0.0
22°	3153.0	409.7	42.1	1.6	0.0	0.0	0.0	0.0
23°	3483.3	404.8	37.2	0.0	0.0	0.0	0.0	0.0
24°	3755.4	398.4	34.0	0.0	0.0	0.0	0.0	0.0
25°	3959.4	388.7	30.8	0.0	0.0	0.0	0.0	0.0
26°	4053.3	375.7	25.9	0.0	0.0	0.0	0.0	0.0
27°	4100.3	357.9	22.7	0.0	0.0	0.0	0.0	0.0
28°	4067.9	338.5	19.4	0.0	0.0	0.0	0.0	0.0
29°	3986.9	317.4	14.6	0.0	0.0	0.0	0.0	0.0
30°	3881.7	293.1	11.3	0.0	0.0	0.0	0.0	0.0
31°	3727.8	268.8	8.1	0.0	0.0	0.0	0.0	0.0
32°	3517.3	244.5	6.5	0.0	0.0	0.0	0.0	0.0
33°	3235.5	218.6	3.2	0.0	0.0	0.0	0.0	0.0
34°	2887.4	192.7	1.6	0.0	0.0	0.0	0.0	0.0
35°	2497.1	170.0	0.0	0.0	0.0	0.0	0.0	0.0
36°	2161.9	145.7	0.0	0.0	0.0	0.0	0.0	0.0
37°	1825.1	116.6	0.0	0.0	0.0	0.0	0.0	0.0
38°	1528.7	92.3	0.0	0.0	0.0	0.0	0.0	0.0
39°	1264.7	74.5	0.0	0.0	0.0	0.0	0.0	0.0
40°	1047.7	50.2	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	579.7	34.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	351.4	19.4	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	204.0	6.5	0.0	0.0	0.0	0.0	0.0	0.0
50°	77.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	25.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	6.5	0.0	0.0	1.6	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.6	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.6	3.2	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.6	3.2	1.6	0.0	0.0	0.0
65°	0.0	0.0	3.2	3.2	1.6	0.0	0.0	0.0
67.5°	0.0	0.0	3.2	4.9	1.6	0.0	0.0	0.0
70°	0.0	1.6	3.2	4.9	1.6	0.0	0.0	0.0
72.5°	0.0	1.6	3.2	4.9	1.6	0.0	0.0	0.0
75°	0.0	1.6	3.2	4.9	1.6	0.0	0.0	0.0
77.5°	0.0	1.6	3.2	4.9	1.6	0.0	0.0	0.0
80°	0.0	1.6	3.2	4.9	1.6	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	1.6	3.2	4.9	1.6	0.0	0.0	0.0
85°	0.0	1.6	3.2	4.9	1.6	0.0	0.0	0.0
87.5°	0.0	1.6	3.2	4.9	1.6	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)