

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: P1323865

Luminaire Tested: LDSQA3D13R209030D2WDE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1323865
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-48)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R209030D2WDE010 3LSQCA30R 1MMS
Description: 3in Adjustable Dim to Warm LED luminaire with, R20 optic, 3000K CCT AND, 90CRI ,
3LSQCA30R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

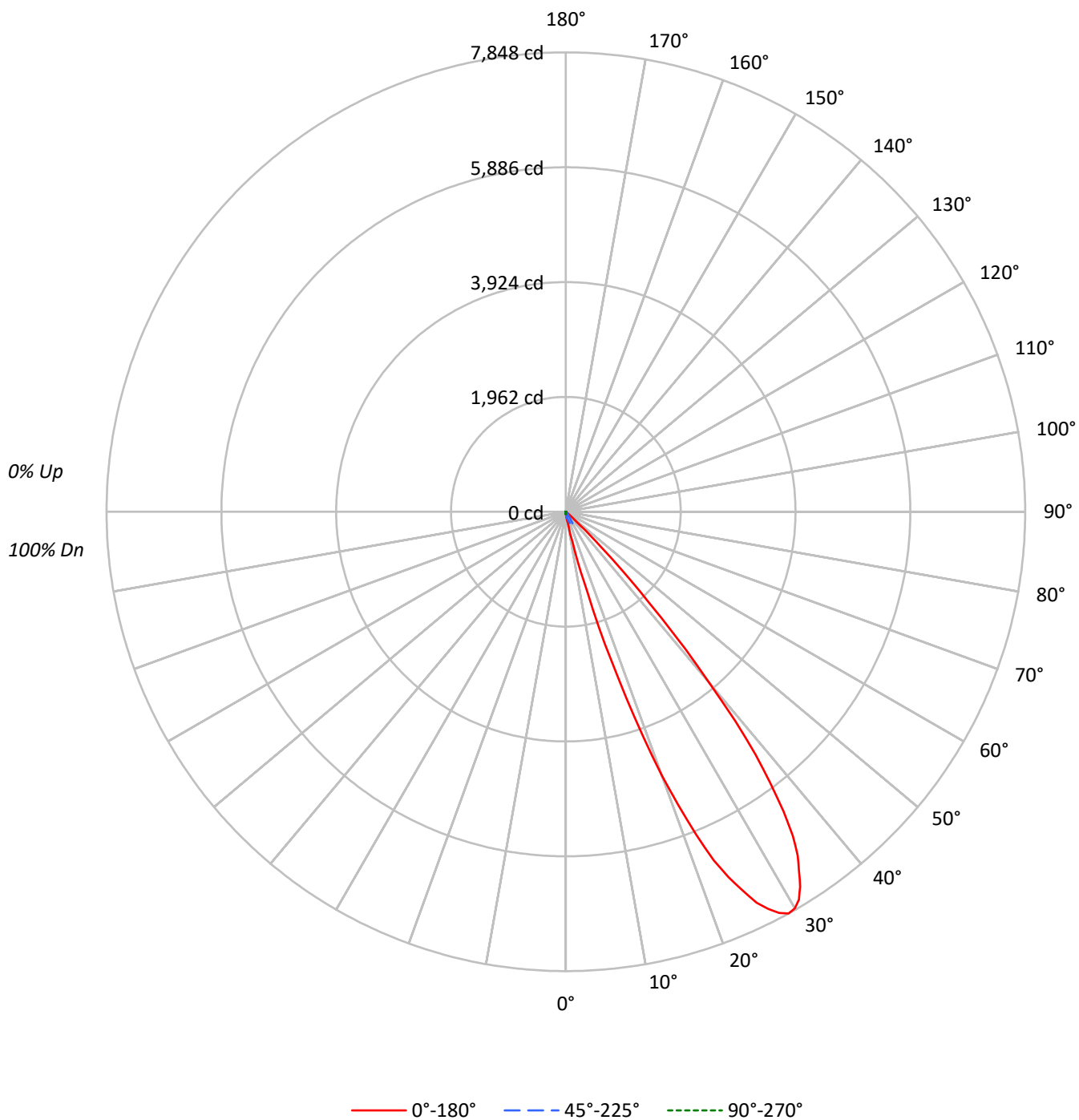
Lumens per Lamp: N/A
Luminaire Lumens: 1083.0 lumens
Efficiency: N/A
Efficacy: 53.9 lumens/watt
Spacing Criteria (0/90/45): 2.28 / 0.42 / 1.12
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.1
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	93	93	93	92
2	106	100	96	92	104	98	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	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	69	69	68
5	87	77	70	65	85	76	69	64	74	68	64	72	67	63	70	66	63	63	63	61
6	81	70	63	58	79	69	63	58	68	62	57	66	61	57	65	60	57	57	57	55
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	51	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	46	55	50	46	46	46	45
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	42	42	40
10	62	50	43	38	60	50	43	38	49	42	38	48	42	38	47	42	38	38	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6682	6682	6682	6682	6682
5°	14522	10235	6137	2801	2040
10°	36165	18083	4337	560	0
15°	254449	24766	2496	0	0
20°	879429	41659	990	0	0
25°	1355555	53207	418	0	0
30°	1555904	41125	0	0	0
35°	1420983	15621	0	0	0
40°	851891	7262	0	0	0
45°	209339	3410	0	0	0
50°	23096	857	0	0	0
55°	3243	0	330	0	0
60°	0	0	758	0	0
65°	0	0	897	0	0
70°	0	554	1611	0	0
75°	0	732	2129	0	0
80°	0	1091	3174	0	0
85°	0	2174	6323	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 1°

Vertical Angle: 45°

Luminance: 223247 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.4	0.4
10°-20°	84.6	7.8
20°-30°	427.8	39.5
30°-40°	462.9	42.7
40°-50°	97.8	9.0
50°-60°	2.9	0.3
60°-70°	0.7	0.1
70°-80°	1.0	0.1
80°-90°	0.9	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°	516.8	47.7
0°-40°	979.7	90.5
0°-60°	1080.4	99.8
0°-90°	1083.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1083.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	39	39	39	39	39	
5°	84	59	36	16	12	12
15°	1427	139	14	0	0	595
25°	7134	280	2	0	0	3224
35°	6759	74	0	0	0	3985
45°	860	14	0	0	0	946
55°	11	0	1	0	0	19
65°	0	0	2	0	0	0
75°	0	1	3	0	0	0
85°	0	1	3	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°	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
2.5°	52.8	51.7	52.8	51.7	52.8	52.8	52.8	51.7	51.7	51.7	51.7
5°	84.0	84.0	82.9	84.0	84.0	84.0	84.0	82.9	82.9	81.9	81.9
7.5°	132.5	132.5	131.4	131.4	132.5	133.6	129.2	131.4	131.4	131.4	130.3
10°	206.8	211.1	206.8	212.2	207.9	204.6	210.0	204.6	204.6	203.6	200.3
12.5°	521.3	509.5	501.9	483.6	501.9	487.9	491.1	487.9	477.1	463.1	454.5
15°	1427.1	1427.1	1385.1	1441.1	1400.2	1415.3	1337.7	1338.8	1299.0	1255.9	1232.2
17.5°	2983.5	3010.4	2982.4	2965.2	2928.6	2875.8	2854.3	2799.3	2727.2	2643.2	2633.5
20°	4798.4	4685.3	4738.1	4689.6	4659.5	4594.8	4522.7	4477.4	4413.9	4307.2	4150.0
21°	5369.3	5364.9	5363.9	5362.8	5318.6	5213.1	5147.4	5056.9	4967.5	4857.6	4726.2
22°	5944.4	5964.9	5973.5	5911.0	5820.5	5773.2	5727.9	5604.1	5463.0	5405.9	5249.7
23°	6472.2	6452.8	6396.8	6367.7	6297.7	6283.7	6149.1	6070.4	5932.6	5870.1	5684.8
24°	6831.9	6822.2	6796.4	6753.3	6697.3	6611.1	6530.3	6406.5	6293.4	6191.1	6018.7
25°	7133.5	7142.1	7094.7	7065.7	7005.3	6908.4	6809.3	6673.6	6568.0	6448.5	6249.2
26°	7431.9	7371.5	7333.8	7290.8	7225.1	7114.1	7018.3	6896.6	6768.4	6634.8	6439.9
27°	7616.0	7562.2	7505.1	7463.1	7387.7	7282.1	7179.8	7045.2	6901.9	6767.3	6567.0
28°	7761.4	7702.2	7646.2	7595.6	7509.4	7396.3	7273.5	7136.7	6988.1	6849.2	6644.5
29°	7847.6	7777.6	7717.3	7660.2	7581.6	7458.8	7334.9	7188.4	7045.2	6899.8	6690.8
30°	7823.9	7763.6	7705.4	7647.3	7567.6	7452.3	7329.5	7189.5	7045.2	6901.9	6689.8
31°	7731.3	7657.0	7615.0	7556.8	7487.9	7370.5	7264.9	7112.0	6981.6	6826.5	6614.4
32°	7553.6	7506.2	7450.2	7404.9	7338.2	7213.2	7109.8	6984.9	6830.9	6703.8	6480.8
33°	7312.3	7268.1	7240.1	7187.4	7122.7	7036.6	6912.7	6798.5	6625.1	6494.8	6271.8
34°	7081.8	7025.8	6955.8	6940.7	6884.7	6773.8	6661.7	6545.4	6390.3	6224.5	5999.3
35°	6758.7	6700.5	6635.9	6641.3	6574.5	6445.3	6331.1	6200.8	6053.2	5858.2	5645.0
36°	6326.8	6288.0	6278.3	6252.5	6176.0	6022.0	5913.2	5749.5	5625.6	5387.6	5204.5
37°	5800.1	5814.1	5744.1	5710.7	5621.3	5513.6	5452.2	5242.2	5097.8	4919.0	4671.3
38°	5268.0	5247.5	5164.6	5185.1	5062.3	4950.3	4776.9	4651.9	4490.4	4324.5	4126.3
39°	4603.4	4552.8	4453.7	4458.0	4365.4	4239.4	4071.4	3923.8	3826.9	3667.5	3477.9
40°	3789.2	3767.6	3733.2	3676.1	3554.4	3499.4	3349.7	3190.3	3108.5	2887.7	2795.0
42.5°	2102.5	2073.4	2015.2	1994.8	1930.1	1865.5	1778.3	1671.6	1619.9	1554.2	1407.7
45°	859.5	916.6	902.6	886.4	836.9	840.1	777.7	785.2	728.1	689.3	662.4
47.5°	189.6	205.7	206.8	199.3	206.8	200.3	197.1	191.7	192.8	196.0	188.5
50°	86.2	85.1	87.2	86.2	85.1	84.0	82.9	79.7	81.9	79.7	77.5
52.5°	33.4	34.5	34.5	32.3	33.4	33.4	33.4	32.3	32.3	32.3	32.3
55°	10.8	10.8	10.8	9.7	9.7	10.8	10.8	10.8	10.8	10.8	9.7
57.5°	1.1	2.2	1.1	2.2	1.1	1.1	1.1	1.1	1.1	2.2	2.2
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°	38.8	38.8	38.8	38.8	38.8	38.8	38.8	38.8
2.5°	49.5	45.2	42.0	38.8	32.3	26.9	24.8	24.8
5°	76.5	59.2	44.2	35.5	24.8	16.2	12.9	11.8
7.5°	115.2	79.7	46.3	30.2	16.2	8.6	5.4	4.3
10°	166.9	103.4	48.5	24.8	9.7	3.2	0.0	0.0
12.5°	291.9	123.9	48.5	19.4	4.3	0.0	0.0	0.0
15°	668.9	138.9	46.3	14.0	1.1	0.0	0.0	0.0
17.5°	1389.4	174.5	40.9	9.7	0.0	0.0	0.0	0.0
20°	2218.8	227.3	32.3	5.4	0.0	0.0	0.0	0.0
21°	2560.2	245.6	29.1	4.3	0.0	0.0	0.0	0.0
22°	2805.8	262.8	25.8	3.2	0.0	0.0	0.0	0.0
23°	3076.1	273.6	22.6	2.2	0.0	0.0	0.0	0.0
24°	3275.4	280.0	19.4	2.2	0.0	0.0	0.0	0.0
25°	3399.3	280.0	17.2	2.2	0.0	0.0	0.0	0.0
26°	3472.5	273.6	15.1	1.1	0.0	0.0	0.0	0.0
27°	3489.7	262.8	12.9	1.1	0.0	0.0	0.0	0.0
28°	3468.2	248.8	10.8	0.0	0.0	0.0	0.0	0.0
29°	3400.3	228.3	9.7	0.0	0.0	0.0	0.0	0.0
30°	3327.1	206.8	7.5	0.0	0.0	0.0	0.0	0.0
31°	3202.2	177.7	6.5	0.0	0.0	0.0	0.0	0.0
32°	3057.8	147.6	5.4	0.0	0.0	0.0	0.0	0.0
33°	2865.0	116.3	4.3	0.0	0.0	0.0	0.0	0.0
34°	2580.7	91.6	4.3	0.0	0.0	0.0	0.0	0.0
35°	2325.4	74.3	3.2	0.0	0.0	0.0	0.0	0.0
36°	1991.5	59.2	3.2	0.0	0.0	0.0	0.0	0.0
37°	1706.1	49.5	3.2	0.0	0.0	0.0	0.0	0.0
38°	1428.2	42.0	2.2	0.0	0.0	0.0	0.0	0.0
39°	1158.9	36.6	2.2	0.0	0.0	0.0	0.0	0.0
40°	924.1	32.3	2.2	0.0	0.0	0.0	0.0	0.0
42.5°	498.7	21.5	0.0	0.0	0.0	0.0	0.0	0.0
45°	275.7	14.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	121.7	7.5	0.0	0.0	0.0	0.0	0.0	0.0
50°	40.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	20.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	9.7	0.0	0.0	1.1	0.0	0.0	0.0	0.0
57.5°	2.2	0.0	0.0	1.1	0.0	0.0	0.0	0.0
60°	0.0	0.0	1.1	2.2	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	1.1	2.2	1.1	0.0	0.0	0.0
65°	0.0	0.0	2.2	2.2	1.1	0.0	0.0	0.0
67.5°	0.0	1.1	2.2	3.2	1.1	0.0	0.0	0.0
70°	0.0	1.1	2.2	3.2	1.1	0.0	0.0	0.0
72.5°	0.0	1.1	2.2	3.2	1.1	0.0	0.0	0.0
75°	0.0	1.1	2.2	3.2	1.1	0.0	0.0	0.0
77.5°	0.0	1.1	2.2	3.2	1.1	0.0	0.0	0.0
80°	0.0	1.1	2.2	3.2	1.1	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	1.1	2.2	3.2	1.1	0.0	0.0	0.0
85°	0.0	1.1	2.2	3.2	1.1	0.0	0.0	0.0
87.5°	0.0	1.1	2.2	3.2	1.1	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)