

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: P1323849

Luminaire Tested: LDSQA3D13R159030D2WDE010 3LSQCA30R 1MMS

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1323849
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: LDSQA3D13R159030D2WDE010 3LSQCA30R 1MMS
Description: 3in Adjustable Dim to Warm LED luminaire with, R15 optic, 3000K CCT AND, 90CRI ,
3LSQCA30R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

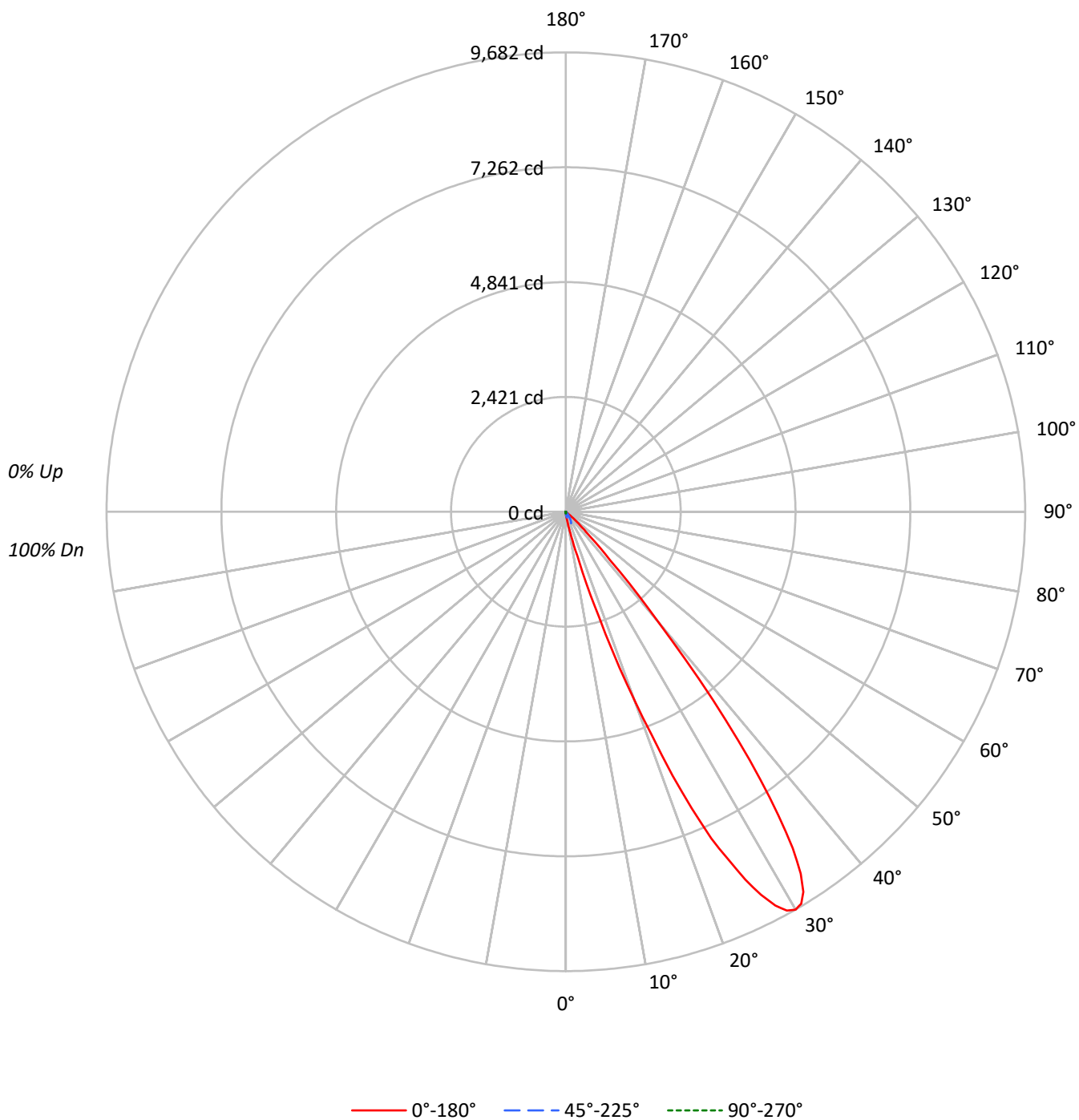
Lumens per Lamp: N/A
Luminaire Lumens: 1024.0 lumens
Efficiency: N/A
Efficacy: 50.9 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	6303	6303	6303	6303	6303
5°	18239	13779	5394	2230	1487
10°	47462	20531	3585	0	0
15°	189691	33591	1926	0	0
20°	774999	49539	586	0	0
25°	1531976	49103	0	0	0
30°	1925516	38759	0	0	0
35°	1642918	23779	0	0	0
40°	676396	7509	0	0	0
45°	146331	3142	0	0	0
50°	18755	0	0	0	0
55°	1621	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: 2°

Vertical Angle: 45°

Luminance: 153150 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	4.9	0.5
10°-20°	71.8	7.0
20°-30°	418.3	40.8
30°-40°	448.5	43.8
40°-50°	75.7	7.4
50°-60°	2.3	0.2
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°	495.0	48.3
0°-40°	943.5	92.1
0°-60°	1021.4	99.7
0°-90°	1024.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1024.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	37	37	37	37	37	
5°	106	80	31	13	9	14
15°	1064	188	11	0	0	492
25°	8062	258	0	0	0	3648
35°	7814	113	0	0	0	4491
45°	601	13	0	0	0	710
55°	5	0	1	0	0	14
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°	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6
2.5°	66.8	67.8	68.9	68.9	68.9	68.9	67.8	67.8	67.8	67.8	66.8
5°	105.5	105.5	105.5	105.5	105.5	105.5	104.4	104.4	104.4	104.4	104.4
7.5°	150.8	148.6	149.7	146.4	148.6	147.5	146.4	148.6	148.6	143.2	143.2
10°	271.4	270.3	259.5	261.7	263.8	262.7	262.7	256.3	255.2	250.9	246.6
12.5°	523.3	535.2	543.8	543.8	523.3	530.9	516.9	520.1	522.2	515.8	493.2
15°	1063.9	1083.3	1062.8	1082.2	1074.6	1046.6	1015.4	973.4	989.6	960.5	950.8
17.5°	2330.2	2374.3	2356.0	2266.6	2295.7	2226.8	2183.7	2167.6	2122.4	1987.8	1931.8
20°	4228.6	4282.4	4231.8	4127.3	4160.7	4030.4	3997.0	3965.8	3765.5	3692.3	3457.6
21°	5027.5	5071.7	5091.1	4982.3	4915.6	4812.2	4726.0	4698.0	4576.4	4435.3	4194.1
22°	5992.3	5940.7	5824.4	5839.4	5740.4	5655.3	5535.8	5422.7	5287.0	5090.0	4890.8
23°	6791.3	6731.0	6676.1	6609.3	6502.7	6442.4	6271.2	6147.4	5970.8	5759.8	5568.1
24°	7535.4	7442.8	7408.3	7289.9	7259.7	7124.1	6985.1	6823.6	6610.4	6385.4	6173.2
25°	8061.9	8075.9	8045.8	8031.8	7877.8	7738.9	7601.1	7352.3	7170.4	6971.1	6644.9
26°	8626.2	8632.6	8617.6	8514.2	8375.3	8239.6	8061.9	7845.5	7581.7	7360.9	7065.9
27°	9058.0	9032.1	9010.6	8887.8	8773.7	8602.5	8441.0	8184.7	7927.3	7664.6	7322.2
28°	9402.5	9354.1	9327.2	9221.6	9088.1	8878.1	8680.0	8441.0	8183.6	7901.5	7531.1
29°	9610.4	9558.7	9528.5	9412.2	9258.3	9074.1	8873.8	8611.1	8334.4	8019.9	7647.4
30°	9682.5	9652.4	9605.0	9484.4	9325.0	9133.3	8927.7	8642.3	8352.7	8030.7	7636.6
31°	9635.1	9596.4	9551.1	9420.8	9248.6	9065.5	8826.5	8527.1	8222.4	7915.5	7497.7
32°	9446.7	9423.0	9368.1	9193.6	9053.7	8816.8	8581.0	8301.0	7968.3	7638.8	7260.8
33°	9093.5	9054.7	9007.4	8848.0	8669.2	8442.0	8207.3	7920.9	7590.3	7242.5	6826.9
34°	8555.1	8505.6	8446.4	8339.7	8111.5	7914.4	7643.1	7308.2	7034.7	6700.9	6325.1
35°	7814.3	7742.1	7671.1	7590.3	7334.0	7152.0	6969.0	6677.2	6413.4	6098.9	5673.6
36°	6983.0	6955.0	6896.8	6683.6	6600.7	6353.1	6205.5	5870.7	5657.5	5349.5	4998.5
37°	6043.0	5878.2	5962.2	5842.7	5592.9	5515.3	5339.8	5052.3	4821.9	4496.7	4242.6
38°	5035.1	4927.4	4986.6	4866.0	4735.7	4557.0	4423.5	4213.5	3955.1	3699.9	3458.7
39°	3990.6	3903.4	3968.0	3886.1	3688.0	3613.7	3495.3	3334.8	3127.0	2927.8	2699.5
40°	3008.6	2896.6	2982.7	2866.4	2776.0	2654.3	2594.0	2446.5	2317.3	2197.7	2052.4
42.5°	1374.0	1362.1	1342.8	1300.8	1291.1	1292.1	1217.9	1169.4	1103.7	1027.3	981.0
45°	600.8	615.9	628.8	605.2	604.1	591.2	586.9	554.5	541.6	516.9	486.7
47.5°	296.1	301.5	298.3	304.7	299.3	290.7	288.6	284.3	271.4	270.3	256.3
50°	70.0	68.9	68.9	70.0	68.9	68.9	67.8	65.7	64.6	65.7	62.5
52.5°	22.6	23.7	22.6	21.5	22.6	23.7	22.6	22.6	22.6	22.6	22.6
55°	5.4	5.4	5.4	5.4	5.4	5.4	4.3	4.3	5.4	5.4	5.4
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°	36.6	36.6	36.6	36.6	36.6	36.6	36.6	36.6
2.5°	65.7	56.0	46.3	36.6	26.9	21.5	20.5	19.4
5°	99.1	79.7	52.8	31.2	18.3	12.9	9.7	8.6
7.5°	133.5	99.1	58.1	25.8	12.9	5.4	2.2	1.1
10°	191.7	117.4	60.3	20.5	6.5	0.0	0.0	0.0
12.5°	375.8	134.6	59.2	16.2	1.1	0.0	0.0	0.0
15°	624.5	188.4	54.9	10.8	0.0	0.0	0.0	0.0
17.5°	1023.0	243.4	47.4	7.5	0.0	0.0	0.0	0.0
20°	1586.1	270.3	36.6	3.2	0.0	0.0	0.0	0.0
21°	1859.6	272.4	32.3	2.2	0.0	0.0	0.0	0.0
22°	2096.5	272.4	28.0	1.1	0.0	0.0	0.0	0.0
23°	2316.2	269.2	24.8	0.0	0.0	0.0	0.0	0.0
24°	2497.1	264.9	22.6	0.0	0.0	0.0	0.0	0.0
25°	2632.8	258.4	20.5	0.0	0.0	0.0	0.0	0.0
26°	2695.2	249.8	17.2	0.0	0.0	0.0	0.0	0.0
27°	2726.4	238.0	15.1	0.0	0.0	0.0	0.0	0.0
28°	2704.9	225.0	12.9	0.0	0.0	0.0	0.0	0.0
29°	2651.1	211.1	9.7	0.0	0.0	0.0	0.0	0.0
30°	2581.1	194.9	7.5	0.0	0.0	0.0	0.0	0.0
31°	2478.8	178.7	5.4	0.0	0.0	0.0	0.0	0.0
32°	2338.8	162.6	4.3	0.0	0.0	0.0	0.0	0.0
33°	2151.4	145.4	2.2	0.0	0.0	0.0	0.0	0.0
34°	1919.9	128.1	1.1	0.0	0.0	0.0	0.0	0.0
35°	1660.4	113.1	0.0	0.0	0.0	0.0	0.0	0.0
36°	1437.5	96.9	0.0	0.0	0.0	0.0	0.0	0.0
37°	1213.5	77.5	0.0	0.0	0.0	0.0	0.0	0.0
38°	1016.5	61.4	0.0	0.0	0.0	0.0	0.0	0.0
39°	841.0	49.5	0.0	0.0	0.0	0.0	0.0	0.0
40°	696.7	33.4	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	385.5	22.6	0.0	0.0	0.0	0.0	0.0	0.0
45°	233.7	12.9	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	135.7	4.3	0.0	0.0	0.0	0.0	0.0	0.0
50°	51.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	17.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4.3	0.0	0.0	1.1	0.0	0.0	0.0	0.0
57.5°	0.0	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	0.0	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)