

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: P1325932

Luminaire Tested: LDSQA3D09R20W2N902750DE010 3LSQCA30R 1MW_2700K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325932
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-60)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R20W2N902750DE010 3LSQCA30R 1MW_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R20 optic, 2700K CCT AND, 90CRI ,
3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

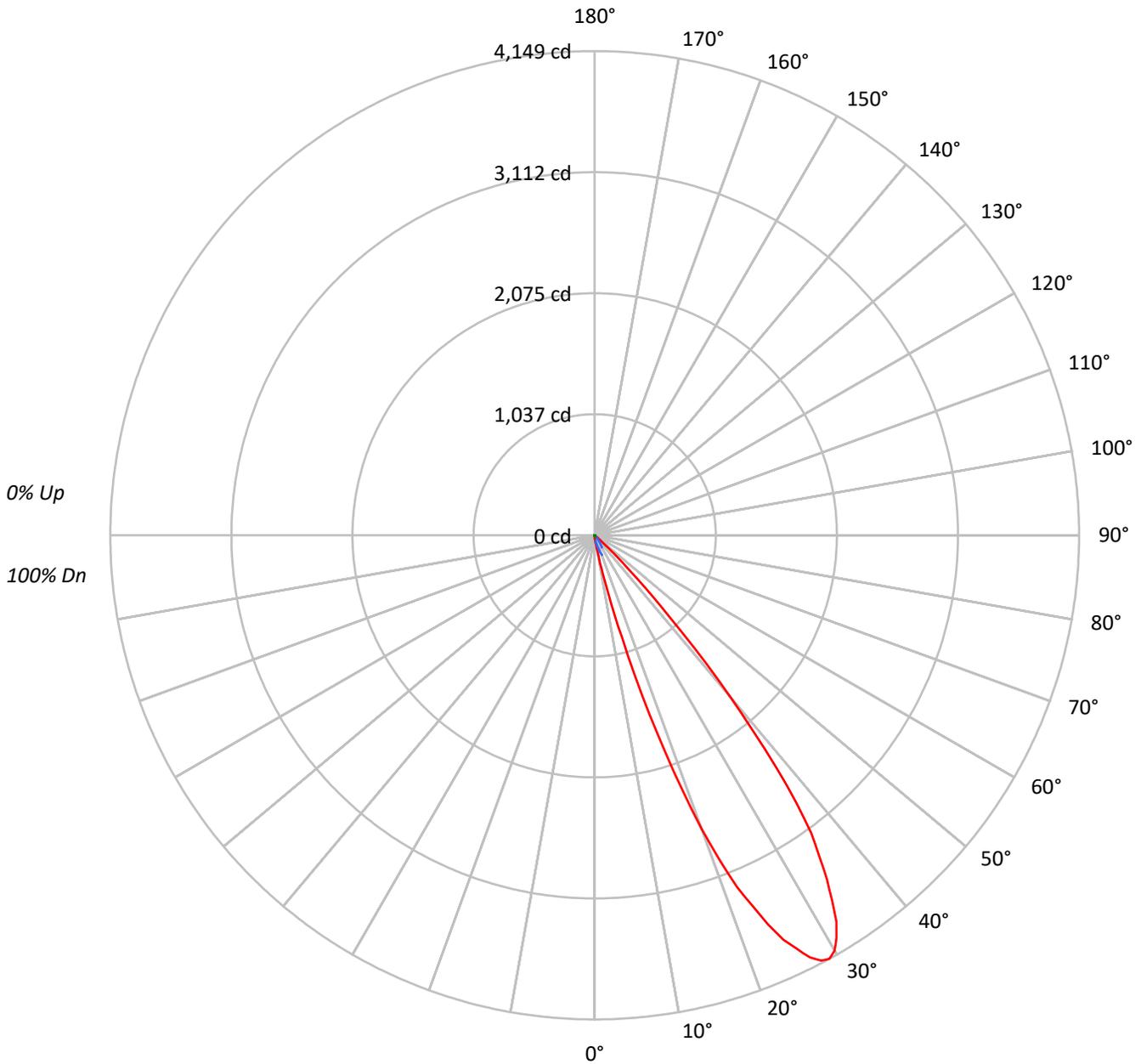
Lumens per Lamp: N/A
Luminaire Lumens: 582.0 lumens
Efficiency: N/A
Efficacy: 64.7 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 0.53 / 1.19
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 9
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



— 0°-180° - - - 45°-225° ····· 90°-270°



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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	92	92	92
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83	83	83
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75	75	75
4	93	84	78	73	91	83	77	72	81	76	71	79	74	71	77	73	70	68	68	68
5	87	77	70	65	85	76	70	65	74	69	64	72	68	64	71	67	63	61	61	61
6	81	71	64	59	80	70	63	58	68	62	58	67	62	58	65	61	57	55	55	55
7	76	65	58	53	74	64	57	53	63	57	52	62	56	52	60	55	52	50	50	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45	45	45
9	66	55	48	43	65	54	48	43	53	47	43	52	47	43	51	46	43	41	41	41
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3462	3462	3462	3462	3462
5°	7935	5930	3285	2005	1729
10°	25025	10335	2676	1102	839
15°	162109	19114	1979	374	89
20°	489272	32715	1356	0	0
25°	726643	33008	798	0	0
30°	817139	25097	318	0	0
35°	705036	14990	231	0	0
40°	405981	5103	0	0	0
45°	99031	2046	122	0	122
50°	11896	563	134	134	429
55°	1591	0	330	330	631
60°	172	0	551	551	896
65°	204	204	856	856	1304
70°	252	252	1057	1057	1309
75°	0	333	1397	1065	1397
80°	0	496	1587	1091	1587
85°	0	988	3162	988	988

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2.5°
 Vertical Angle: 45°
 Luminance: 99665 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.7	0.5
10°-20°	53.9	9.3
20°-30°	235.1	40.4
30°-40°	236.8	40.7
40°-50°	47.5	8.2
50°-60°	2.4	0.4
60°-70°	1.6	0.3
70°-80°	1.4	0.2
80°-90°	0.7	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°	291.7	50.1
0°-40°	528.5	90.8
0°-60°	578.3	99.4
0°-90°	582.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	582.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	46	34	19	12	10	7
15°	909	107	11	2	0	356
25°	3824	174	4	0	0	1724
35°	3353	71	1	0	0	1995
45°	407	8	0	0	0	443
55°	5	0	1	1	2	10
65°	0	0	2	2	3	0
75°	0	0	2	2	2	0
85°	0	0	2	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
0°	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1	20.1
2.5°	30.1	30.1	29.6	29.6	29.0	29.6	28.5	29.0	29.0	28.5	25.9
5°	45.9	47.0	46.5	46.5	45.9	46.5	45.4	44.4	43.3	43.3	34.3
7.5°	75.5	75.0	73.9	74.4	72.9	71.8	70.8	70.2	67.1	65.5	44.9
10°	143.1	146.3	143.6	143.1	133.6	133.1	126.7	117.7	109.8	105.6	59.1
12.5°	393.9	410.8	384.4	371.7	364.3	335.8	323.7	292.5	262.4	239.7	75.0
15°	909.2	950.9	897.6	901.3	857.0	775.6	704.4	643.1	570.8	497.9	107.2
17.5°	1781.5	1747.7	1718.7	1669.6	1579.3	1460.0	1306.3	1150.5	1015.9	874.9	149.4
20°	2669.6	2639.5	2573.5	2466.3	2351.2	2174.4	1991.7	1757.8	1531.2	1319.0	178.5
21°	2975.3	2965.3	2857.1	2791.1	2613.7	2444.7	2234.0	1983.7	1728.7	1477.4	183.2
22°	3248.3	3188.1	3130.1	3032.4	2856.0	2672.3	2437.8	2174.4	1897.7	1618.4	183.7
23°	3437.4	3409.9	3355.0	3244.6	3069.3	2853.4	2606.3	2330.6	2039.2	1718.2	182.2
24°	3646.5	3611.6	3531.3	3402.5	3225.6	3012.3	2730.3	2456.8	2140.0	1802.1	177.9
25°	3823.9	3769.5	3674.4	3535.6	3342.3	3122.1	2838.6	2538.2	2210.3	1858.6	173.7
26°	3939.0	3909.4	3787.4	3636.4	3429.4	3202.4	2913.0	2600.5	2255.7	1884.5	166.9
27°	4058.8	4004.4	3884.6	3710.9	3486.5	3254.7	2955.3	2630.6	2271.5	1885.5	158.4
28°	4127.5	4068.3	3932.6	3749.9	3523.4	3283.7	2979.6	2640.1	2268.3	1869.2	148.4
29°	4149.1	4074.7	3942.1	3756.3	3532.4	3285.8	2975.9	2626.3	2240.4	1829.0	136.8
30°	4109.0	4033.0	3907.3	3726.2	3503.9	3259.4	2941.6	2580.9	2190.7	1771.5	126.2
31°	4021.3	3956.9	3835.5	3653.8	3440.5	3197.6	2863.9	2506.5	2106.2	1694.4	114.1
32°	3905.7	3842.3	3723.0	3558.8	3341.8	3096.8	2757.8	2390.3	2007.0	1579.3	101.9
33°	3732.0	3695.6	3588.4	3431.5	3214.5	2952.6	2615.2	2251.4	1865.5	1451.5	91.3
34°	3556.2	3510.2	3435.2	3263.6	3030.3	2768.9	2429.4	2059.8	1692.8	1308.4	81.3
35°	3353.4	3325.9	3208.2	3070.9	2836.5	2569.3	2231.9	1873.4	1491.6	1149.0	71.3
36°	3157.0	3114.7	2980.6	2835.4	2607.9	2319.0	1985.9	1649.0	1317.9	999.5	60.7
37°	2871.9	2807.4	2711.9	2558.7	2292.6	2046.6	1742.4	1429.9	1104.1	838.0	49.1
38°	2536.6	2506.5	2373.9	2219.8	1999.6	1766.2	1465.2	1200.2	910.8	699.6	37.5
39°	2141.1	2140.6	2013.8	1902.4	1687.0	1476.8	1205.5	974.2	751.9	563.4	29.0
40°	1805.8	1743.5	1665.3	1525.4	1360.2	1181.7	944.1	762.4	583.5	454.1	22.7
42.5°	946.7	941.4	895.5	790.4	698.0	593.0	471.5	392.8	307.3	250.3	14.3
45°	406.6	409.2	377.5	361.7	325.8	282.0	238.1	198.5	170.0	137.8	8.4
47.5°	103.0	98.7	97.7	101.4	101.4	98.2	88.2	82.9	76.6	70.2	4.8
50°	44.4	43.3	42.2	42.2	39.6	38.0	35.4	32.2	29.6	26.4	2.1
52.5°	16.4	16.9	17.4	16.9	16.9	16.4	16.4	15.8	14.3	12.7	1.1
55°	5.3	5.3	5.3	5.8	5.8	6.3	6.3	6.3	6.3	5.8	0.0
57.5°	1.1	1.1	1.6	1.6	1.6	1.6	1.6	1.6	2.1	2.1	0.0
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0
62.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	0.5	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
75°	0.0	0.0	0.0	0.5	0.0	0.5	0.5	0.0	0.5	0.5	0.5
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5



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CANDELA DISTRIBUTION (continued):

	0°	2.5°	5°	7.5°	10°	12.5°	15°	17.5°	20°	22.5°	45°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5
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):

	67.5°	90°	112.5°	135°	157.5°	180°
0°	20.1	20.1	20.1	20.1	20.1	20.1
2.5°	23.2	20.6	17.4	14.8	14.3	13.7
5°	25.9	19.0	14.3	11.6	10.6	10.0
7.5°	28.0	17.4	11.6	8.4	7.4	6.9
10°	29.0	15.3	9.5	6.3	4.8	4.8
12.5°	29.6	13.2	6.9	4.2	2.6	2.6
15°	29.0	11.1	5.3	2.1	0.5	0.5
17.5°	26.4	9.0	3.2	0.5	0.0	0.0
20°	22.7	7.4	2.1	0.0	0.0	0.0
21°	21.6	6.3	1.6	0.0	0.0	0.0
22°	20.1	5.8	1.1	0.0	0.0	0.0
23°	18.5	5.3	1.1	0.0	0.0	0.0
24°	16.9	4.8	0.5	0.0	0.0	0.0
25°	15.8	4.2	0.5	0.0	0.0	0.0
26°	14.8	3.7	0.5	0.0	0.0	0.0
27°	13.2	3.2	0.0	0.0	0.0	0.0
28°	12.1	2.6	0.0	0.0	0.0	0.0
29°	10.6	2.1	0.0	0.0	0.0	0.0
30°	9.0	1.6	0.0	0.0	0.0	0.0
31°	7.4	1.6	0.0	0.0	0.0	0.0
32°	6.3	1.1	0.0	0.0	0.0	0.0
33°	5.3	1.1	0.0	0.0	0.0	0.0
34°	4.8	1.1	0.0	0.0	0.0	0.0
35°	4.2	1.1	0.0	0.0	0.0	0.0
36°	3.2	0.5	0.0	0.0	0.0	0.0
37°	2.6	0.5	0.0	0.0	0.0	0.0
38°	2.1	0.5	0.0	0.0	0.0	0.0
39°	1.6	0.0	0.0	0.0	0.0	0.0
40°	1.6	0.0	0.0	0.0	0.0	0.0
42.5°	0.5	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.5	0.0	0.0	0.5	0.5
47.5°	0.0	0.5	0.0	0.0	0.5	1.1
50°	0.0	0.5	0.5	0.5	1.1	1.6
52.5°	0.0	1.1	0.5	0.5	1.6	1.6
55°	0.5	1.1	0.5	1.1	2.1	2.1
57.5°	0.5	1.1	1.1	1.6	2.1	2.6
60°	1.1	1.6	1.6	1.6	2.6	2.6
62.5°	1.1	1.6	2.1	2.1	2.6	3.2
65°	1.1	2.1	2.1	2.1	2.6	3.2
67.5°	1.6	2.1	2.1	2.1	2.6	3.2
70°	1.6	2.1	2.1	2.1	2.6	2.6
72.5°	1.6	2.1	1.6	2.1	2.1	2.6
75°	1.6	2.1	1.6	1.6	2.1	2.1
77.5°	1.1	1.6	1.6	1.1	1.6	1.6
80°	1.1	1.6	1.1	1.1	1.6	1.6



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.1	1.6	1.1	0.5	1.1	1.1
85°	1.1	1.6	1.1	0.5	0.5	0.5
87.5°	1.1	1.6	1.1	0.5	0.0	0.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)