

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: P1325841

Luminaire Tested: LDSQA3D09R15W2N902765DE010 3LSQCA30R 1MW_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325841
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-59)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R15W2N902765DE010 3LSQCA30R 1MW_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R15 optic, 4000K CCT AND, 90CRI ,
3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

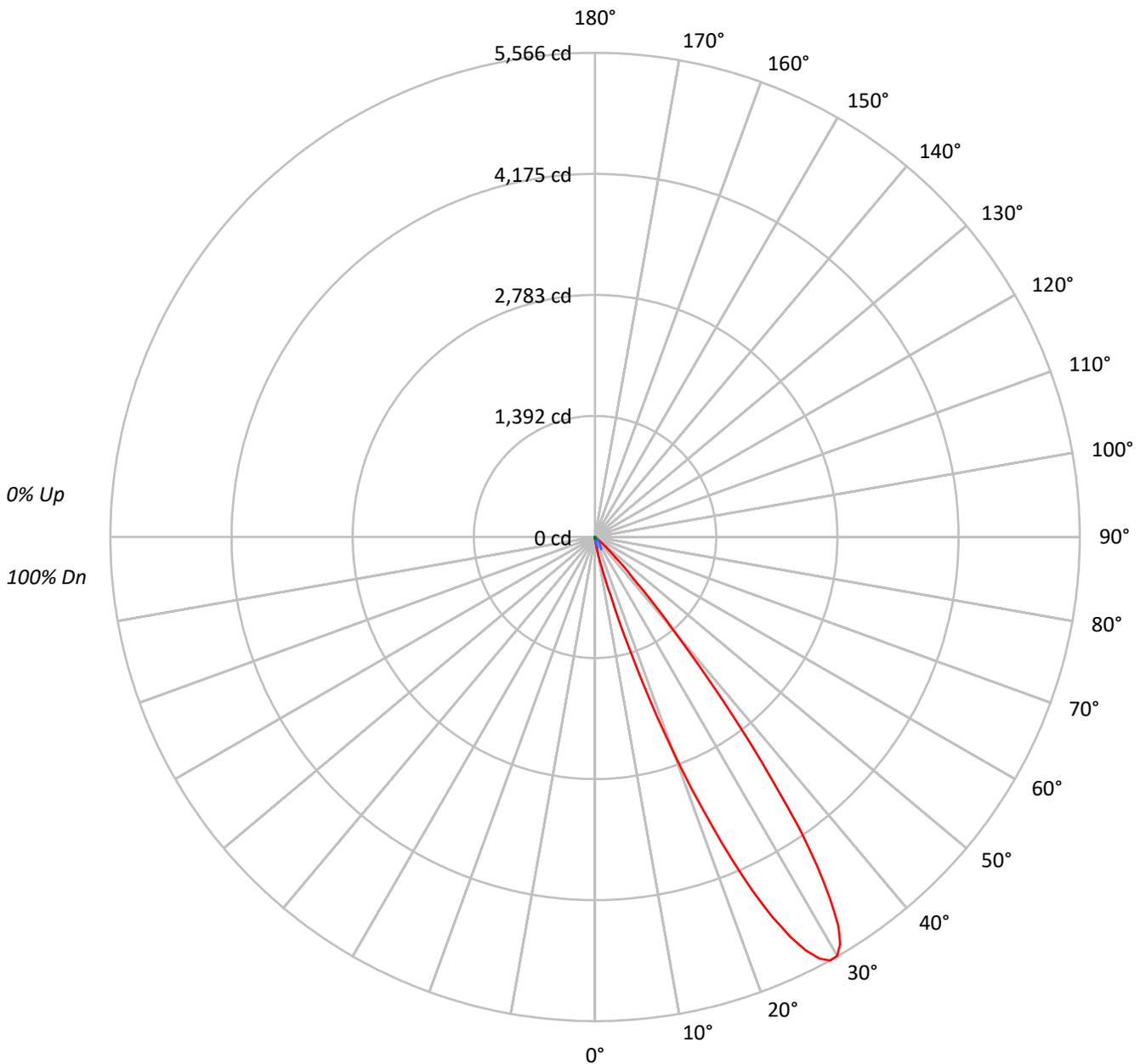
Lumens per Lamp: N/A
Luminaire Lumens: 608.1 lumens
Efficiency: N/A
Efficacy: 67.6 lumens/watt
Spacing Criteria (0/90/45): 2.35 / 0.49 / 1.26
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3462	3462	3462	3462	3462
5°	7468	5515	3267	1746	1435
10°	33105	10440	2588	717	525
15°	125165	24142	1801	321	214
20°	481373	34034	1081	110	110
25°	915396	31924	570	0	0
30°	1105812	25753	239	0	0
35°	862467	17534	126	0	0
40°	314726	8633	135	0	135
45°	80813	2582	146	0	292
50°	13638	322	161	161	482
55°	1772	0	360	540	901
60°	207	207	620	827	1206
65°	245	245	978	1223	1426
70°	302	302	1209	1209	1511
75°	399	399	1597	1198	1597
80°	0	595	1785	1190	1785
85°	0	1186	3557	1186	1186

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 80813 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.8	0.5
10°-20°	46.6	7.7
20°-30°	258.4	42.5
30°-40°	249.6	41.1
40°-50°	43.4	7.1
50°-60°	3.1	0.5
60°-70°	1.8	0.3
70°-80°	1.5	0.2
80°-90°	0.8	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°	307.7	50.6
0°-40°	557.4	91.7
0°-60°	603.9	99.3
0°-90°	608.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	608.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	43	32	19	10	8	8
15°	702	135	10	2	1	313
25°	4817	168	3	0	0	2154
35°	4102	83	1	0	0	2359
45°	332	11	1	0	1	356
55°	6	0	1	2	3	11
65°	1	1	2	3	4	1
75°	1	1	2	2	2	0
85°	0	1	2	1	1	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°	29.6	28.4	29.0	29.0	29.0	29.0	29.0	27.8	27.8	28.4	25.4
5°	43.2	43.2	42.6	43.2	43.2	42.6	41.4	40.8	40.8	39.6	31.9
7.5°	86.3	85.2	85.2	84.0	78.1	76.3	75.1	72.2	66.8	65.6	41.4
10°	189.3	189.8	185.7	180.4	179.8	170.9	168.0	162.6	152.6	142.5	59.7
12.5°	343.6	335.9	325.9	326.5	309.3	303.4	289.8	275.0	259.6	243.7	98.2
15°	702.0	680.1	693.2	661.2	625.1	584.3	542.9	490.9	446.5	399.2	135.4
17.5°	1478.6	1499.9	1463.8	1327.2	1243.2	1144.4	1005.4	871.2	756.4	664.2	165.6
20°	2626.5	2657.9	2535.5	2416.6	2212.5	1990.2	1758.3	1495.7	1244.4	1026.7	185.7
21°	3106.2	3087.3	3037.0	2846.6	2611.2	2353.3	2069.4	1779.6	1475.0	1192.3	187.5
22°	3569.9	3578.7	3461.6	3262.3	3017.5	2731.8	2385.2	2027.4	1699.2	1327.2	184.5
23°	4031.8	4060.2	3905.2	3718.3	3410.2	3087.9	2686.9	2300.7	1894.9	1481.5	178.6
24°	4459.4	4439.9	4335.2	4099.8	3770.4	3393.0	2976.7	2508.3	2055.8	1613.4	173.9
25°	4817.2	4814.8	4650.4	4421.5	4044.8	3626.7	3167.7	2678.0	2193.6	1702.7	168.0
26°	5110.0	5062.1	4932.5	4653.4	4281.4	3840.2	3324.4	2801.6	2271.1	1747.7	162.1
27°	5335.9	5301.6	5127.7	4837.3	4448.7	3960.8	3425.0	2863.1	2306.6	1762.5	154.4
28°	5487.9	5450.6	5265.5	4966.2	4541.0	4036.5	3478.2	2889.1	2306.6	1748.3	147.3
29°	5566.5	5515.7	5331.2	5010.6	4562.3	4045.4	3465.2	2863.7	2270.5	1704.5	139.0
30°	5560.6	5497.4	5304.0	4970.4	4499.0	3972.6	3392.4	2772.0	2188.9	1639.4	129.5
31°	5464.8	5393.9	5178.0	4834.4	4368.3	3835.4	3255.2	2649.0	2077.1	1554.9	120.1
32°	5270.2	5180.3	4969.8	4627.4	4167.2	3630.2	3055.9	2459.2	1909.7	1431.3	110.0
33°	4953.2	4862.7	4636.8	4315.7	3895.2	3370.0	2791.6	2255.1	1719.3	1284.0	101.7
34°	4556.4	4473.6	4279.0	3955.5	3552.1	3040.5	2487.6	1973.0	1521.8	1137.9	92.9
35°	4102.2	3970.3	3794.0	3537.9	3144.6	2630.1	2159.3	1710.4	1318.3	984.7	83.4
36°	3487.7	3511.3	3324.4	3011.0	2685.1	2281.7	1829.9	1425.9	1102.4	839.2	75.1
37°	2943.0	2905.7	2786.8	2544.3	2260.4	1860.1	1533.6	1208.9	927.4	709.7	66.2
38°	2374.0	2382.3	2265.8	2079.5	1798.0	1529.4	1234.3	993.0	776.0	603.9	58.0
39°	1858.3	1851.8	1820.4	1647.7	1392.8	1216.6	1000.1	823.3	646.4	509.2	49.1
40°	1399.9	1410.6	1337.2	1233.1	1084.7	939.8	796.7	656.5	534.7	429.4	38.4
42.5°	680.7	697.3	648.8	622.2	556.5	499.8	421.7	344.2	292.8	253.1	17.2
45°	331.8	322.3	318.2	305.2	289.8	259.0	229.5	196.9	172.1	148.4	10.6
47.5°	169.7	165.0	165.0	159.7	154.4	144.3	129.5	118.9	107.0	92.3	4.1
50°	50.9	50.3	49.7	50.3	48.5	50.3	51.5	52.0	47.3	46.7	1.2
52.5°	20.1	20.7	20.1	21.9	21.9	21.3	21.9	21.3	20.7	18.3	0.0
55°	5.9	5.9	5.9	5.9	5.9	5.9	6.5	7.1	6.5	7.1	0.0
57.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	0.0
60°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.6
62.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
65°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
67.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
72.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
75°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6



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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	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
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°	23.7	20.7	17.2	14.2	13.0	12.4
5°	25.4	18.9	13.0	10.1	8.9	8.3
7.5°	27.2	17.2	10.1	7.1	5.3	4.7
10°	28.4	14.8	7.7	4.1	3.0	3.0
12.5°	28.4	11.8	5.3	2.4	1.8	1.8
15°	27.8	10.1	3.5	1.8	1.2	1.2
17.5°	27.2	7.7	2.4	1.2	0.6	1.2
20°	25.4	5.9	1.2	0.6	0.6	0.6
21°	24.8	5.3	1.2	0.6	0.6	0.6
22°	23.7	4.7	0.6	0.0	0.6	0.6
23°	22.5	3.5	0.6	0.0	0.0	0.0
24°	20.7	3.0	0.6	0.0	0.0	0.0
25°	19.5	3.0	0.6	0.0	0.0	0.0
26°	18.3	1.8	0.0	0.0	0.0	0.0
27°	16.6	1.2	0.0	0.0	0.0	0.0
28°	15.4	1.2	0.0	0.0	0.0	0.0
29°	13.6	1.2	0.0	0.0	0.0	0.0
30°	11.8	1.2	0.0	0.0	0.0	0.0
31°	9.5	0.6	0.0	0.0	0.0	0.0
32°	7.7	0.6	0.0	0.0	0.0	0.0
33°	5.3	0.6	0.0	0.0	0.0	0.0
34°	3.5	0.6	0.0	0.0	0.0	0.0
35°	3.0	0.6	0.0	0.0	0.0	0.0
36°	1.8	0.6	0.0	0.0	0.0	0.6
37°	1.8	0.6	0.0	0.0	0.0	0.6
38°	1.2	0.6	0.0	0.0	0.0	0.6
39°	0.6	0.6	0.0	0.0	0.0	0.6
40°	0.6	0.6	0.0	0.0	0.0	0.6
42.5°	0.0	0.6	0.0	0.0	0.6	1.2
45°	0.0	0.6	0.0	0.0	0.6	1.2
47.5°	0.0	0.6	0.0	0.0	1.2	1.2
50°	0.0	0.6	0.6	0.6	1.2	1.8
52.5°	0.0	1.2	0.6	1.2	1.8	2.4
55°	0.6	1.2	1.2	1.8	2.4	3.0
57.5°	0.6	1.8	1.8	2.4	3.0	3.0
60°	1.2	1.8	2.4	2.4	3.5	3.5
62.5°	1.2	2.4	2.4	2.4	3.5	3.5
65°	1.2	2.4	2.4	3.0	3.5	3.5
67.5°	1.2	2.4	2.4	2.4	3.0	3.5
70°	1.2	2.4	1.8	2.4	3.0	3.0
72.5°	1.2	2.4	1.8	1.8	2.4	3.0
75°	1.2	2.4	1.8	1.8	2.4	2.4
77.5°	1.2	1.8	1.8	1.2	1.8	1.8
80°	1.2	1.8	1.2	1.2	1.8	1.8



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CANDELA DISTRIBUTION (continued):

	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	1.2	1.8	1.2	0.6	1.2	1.2
85°	1.2	1.8	1.2	0.6	0.6	0.6
87.5°	1.2	1.8	0.6	0.0	0.0	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)