

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: P1317411

Luminaire Tested: LDSQA3D09R709827DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1317411
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R709827DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

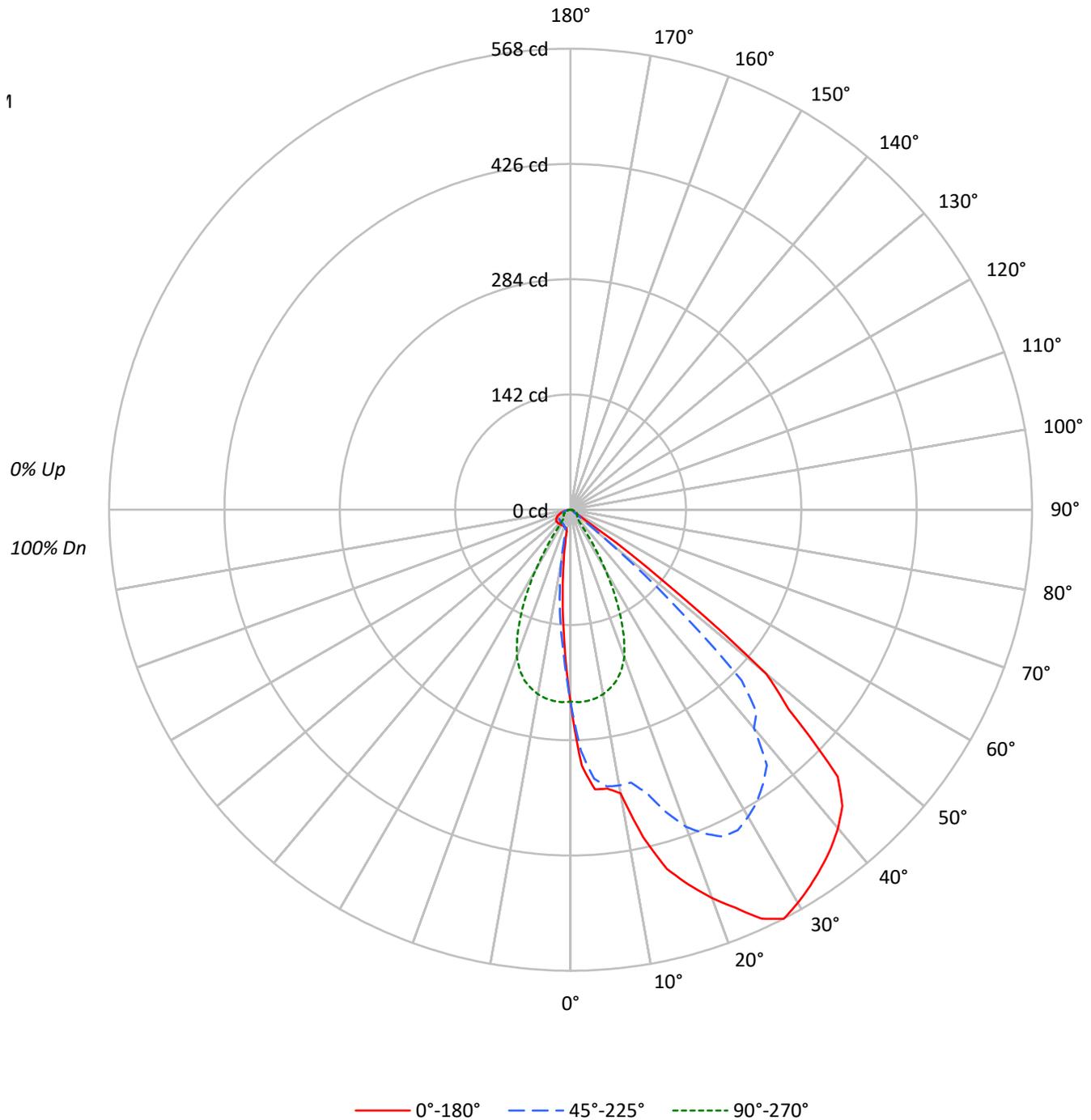
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 449.0 lumens
Efficiency: N/A
Efficacy: 40.8 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 0.89 / 1.39
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11
Input Voltage (V): NR
Input Current (A_{in}): 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	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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	62	59	57
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	40713	40713	40713	40713	40713
5°	59799	57517	40869	24393	19121
10°	62012	60316	40362	11664	4722
15°	81660	64312	38887	4172	4083
20°	93287	76188	35391	4014	4105
25°	105617	84429	27782	3877	4067
30°	111245	86924	17222	3858	4355
35°	113112	86768	5677	3974	4604
40°	115108	78912	2743	4249	5036
45°	113304	72459	2850	4457	5456
50°	84211	13370	2867	4903	6002
55°	6726	1832	3063	5195	6426
60°	1412	1929	2997	5270	6682
65°	1467	1875	2893	5175	6846
70°	1259	1813	2820	4884	6647
75°	998	1664	2396	4724	6455
80°	992	1488	2479	4562	6050
85°	988	1976	2964	3952	4940

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 114668 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.5	4.8
10°-20°	60.5	13.5
20°-30°	101.6	22.6
30°-40°	122.2	27.2
40°-50°	96.8	21.6
50°-60°	31.0	6.9
60°-70°	8.7	1.9
70°-80°	5.2	1.1
80°-90°	1.6	0.4
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°	183.6	40.9
0°-40°	305.7	68.1
0°-60°	433.6	96.6
0°-90°	449.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	449.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	236	236	236	236	236	
5°	346	333	236	141	111	33
15°	458	361	218	23	23	129
25°	556	444	146	20	21	254
35°	538	413	27	19	22	337
45°	465	298	12	18	22	334
55°	22	6	10	17	21	70
65°	4	5	7	13	17	3
75°	2	2	4	7	10	2
85°	0	1	2	2	2	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	236.4	236.4	236.4	236.4	236.4	236.4	236.4	236.4	236.4	236.4	236.4
2.5°	315.4	317.4	317.4	314.9	315.9	311.8	308.7	304.2	303.1	297.5	290.4
5°	345.9	344.9	344.9	342.9	343.9	342.4	340.8	339.8	336.8	332.7	328.6
7.5°	346.4	347.5	348.0	347.5	349.5	348.0	348.0	348.0	345.9	343.9	339.8
10°	354.6	353.1	351.5	348.0	345.9	344.4	344.4	344.9	345.9	344.9	342.4
12.5°	413.2	407.6	405.0	396.4	389.7	378.5	365.8	356.1	347.5	344.4	342.4
15°	458.0	457.0	451.9	443.8	435.6	422.4	407.6	392.8	377.0	360.7	349.0
17.5°	484.5	482.5	477.4	468.7	459.0	446.8	435.1	423.9	408.6	390.3	371.4
20°	509.0	504.4	497.8	487.6	477.9	466.2	453.4	442.7	430.0	415.7	393.8
22.5°	530.9	526.8	516.1	502.3	492.7	481.5	470.2	460.1	448.3	432.0	412.2
25°	555.8	546.7	529.3	511.5	499.8	490.6	482.5	474.3	462.1	444.3	420.8
27.5°	568.1	555.3	536.5	518.6	507.4	497.8	489.1	480.9	467.2	445.3	418.3
30°	559.4	552.3	539.0	525.3	516.1	506.9	496.7	484.5	462.6	437.1	412.2
32.5°	549.2	545.6	539.5	531.4	525.8	516.6	502.3	482.5	451.9	426.9	399.9
35°	538.0	536.5	534.4	530.9	527.3	518.6	500.8	471.8	441.2	412.7	386.7
37.5°	526.3	524.8	526.3	525.8	522.7	511.5	484.5	457.5	425.9	396.9	346.4
40°	512.0	511.0	513.6	516.1	512.5	497.8	468.7	436.1	408.1	351.0	333.7
42.5°	495.2	494.7	499.3	501.3	496.2	474.3	440.2	416.2	357.1	338.8	298.0
45°	465.2	466.2	468.2	470.8	467.7	443.8	412.7	368.9	342.9	297.5	169.7
47.5°	364.3	365.3	375.5	396.9	411.7	403.5	377.0	344.4	306.7	170.2	53.5
50°	314.3	313.3	313.8	318.9	330.6	341.9	333.7	315.9	182.9	49.9	6.6
52.5°	138.1	153.4	169.7	215.5	245.1	276.1	282.2	197.7	59.6	6.6	6.6
55°	22.4	23.4	29.5	43.3	77.9	117.7	142.7	66.2	6.1	6.1	6.1
57.5°	4.6	4.6	4.6	5.1	7.6	16.3	18.9	5.6	5.6	5.6	6.1
60°	4.1	4.1	4.1	4.1	4.6	4.6	4.6	5.1	5.1	5.6	5.6
62.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.6	4.6	5.1	5.1	5.6
65°	3.6	3.6	3.6	3.6	4.1	4.1	4.1	4.1	4.6	4.6	5.1
67.5°	3.1	3.1	3.1	3.1	3.6	3.6	3.6	4.1	4.1	4.1	4.6
70°	2.5	2.5	2.5	2.5	3.1	3.1	3.1	3.1	3.6	3.6	3.6
72.5°	2.0	2.0	2.0	2.0	2.5	2.5	2.5	2.5	3.1	3.1	3.1
75°	1.5	1.5	2.0	2.0	2.0	2.0	2.0	2.0	2.5	2.5	2.5
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.0	2.0	2.0	2.0
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5
82.5°	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	236.4	236.4	236.4	236.4	236.4	236.4	236.4	236.4
2.5°	285.8	278.7	269.0	237.4	208.4	181.9	168.6	167.1
5°	322.0	315.4	299.1	236.4	180.9	141.1	117.2	110.6
7.5°	335.7	330.1	315.9	234.4	154.9	101.4	74.4	64.2
10°	339.3	335.7	323.5	230.8	127.9	66.7	35.2	27.0
12.5°	340.8	338.3	326.6	225.2	100.9	34.6	23.9	23.9
15°	343.4	340.8	329.6	218.1	74.4	23.4	22.9	22.9
17.5°	354.6	346.4	333.7	207.4	48.9	22.4	22.4	22.4
20°	372.9	355.1	335.7	193.1	30.6	21.9	21.9	22.4
22.5°	388.2	364.3	335.2	171.7	22.4	20.9	21.4	21.9
25°	394.8	368.4	330.6	146.2	19.4	20.4	21.4	21.4
27.5°	393.8	369.9	326.6	117.2	18.3	19.9	20.9	21.9
30°	388.2	365.8	317.4	86.6	17.3	19.4	20.9	21.9
32.5°	378.5	350.0	299.1	56.0	16.8	19.4	20.9	21.9
35°	347.0	324.5	272.6	27.0	16.3	18.9	21.4	21.9
37.5°	328.6	297.5	207.9	13.2	15.8	18.9	21.4	21.9
40°	299.1	222.1	93.7	12.2	15.8	18.9	21.4	22.4
42.5°	188.0	91.2	15.3	11.7	15.3	18.9	21.4	22.4
45°	68.8	12.2	8.2	11.7	15.3	18.3	21.4	22.4
47.5°	7.1	7.1	7.6	11.2	14.8	18.3	21.4	22.4
50°	6.6	7.1	7.6	10.7	14.3	18.3	20.9	22.4
52.5°	6.6	7.1	7.6	10.7	13.8	17.8	20.9	22.4
55°	6.6	7.1	7.1	10.2	13.2	17.3	20.4	21.4
57.5°	6.1	6.6	7.1	9.7	12.7	16.3	19.9	20.9
60°	6.1	6.6	7.1	8.7	12.2	15.3	18.9	19.4
62.5°	5.6	6.1	6.6	8.2	11.2	14.3	17.3	18.3
65°	5.6	5.6	6.1	7.1	10.2	12.7	15.8	16.8
67.5°	4.6	5.1	5.1	6.1	8.7	11.2	14.3	15.3
70°	4.1	4.1	4.6	5.6	7.6	9.7	12.2	13.2
72.5°	3.6	3.6	3.6	4.6	6.6	8.7	10.7	11.7
75°	3.1	3.1	3.1	3.6	5.6	7.1	9.2	9.7
77.5°	2.5	2.5	2.5	3.1	4.6	6.1	7.1	8.2
80°	2.0	2.0	2.0	2.5	3.6	4.6	5.6	6.1
82.5°	1.5	1.5	1.5	2.0	2.5	3.1	4.1	4.1
85°	1.0	1.0	1.0	1.5	1.5	2.0	2.5	2.5
87.5°	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)