

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: P1319163

Luminaire Tested: LDSQA3D09R709835DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319163
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: LDSQA3D09R709835DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

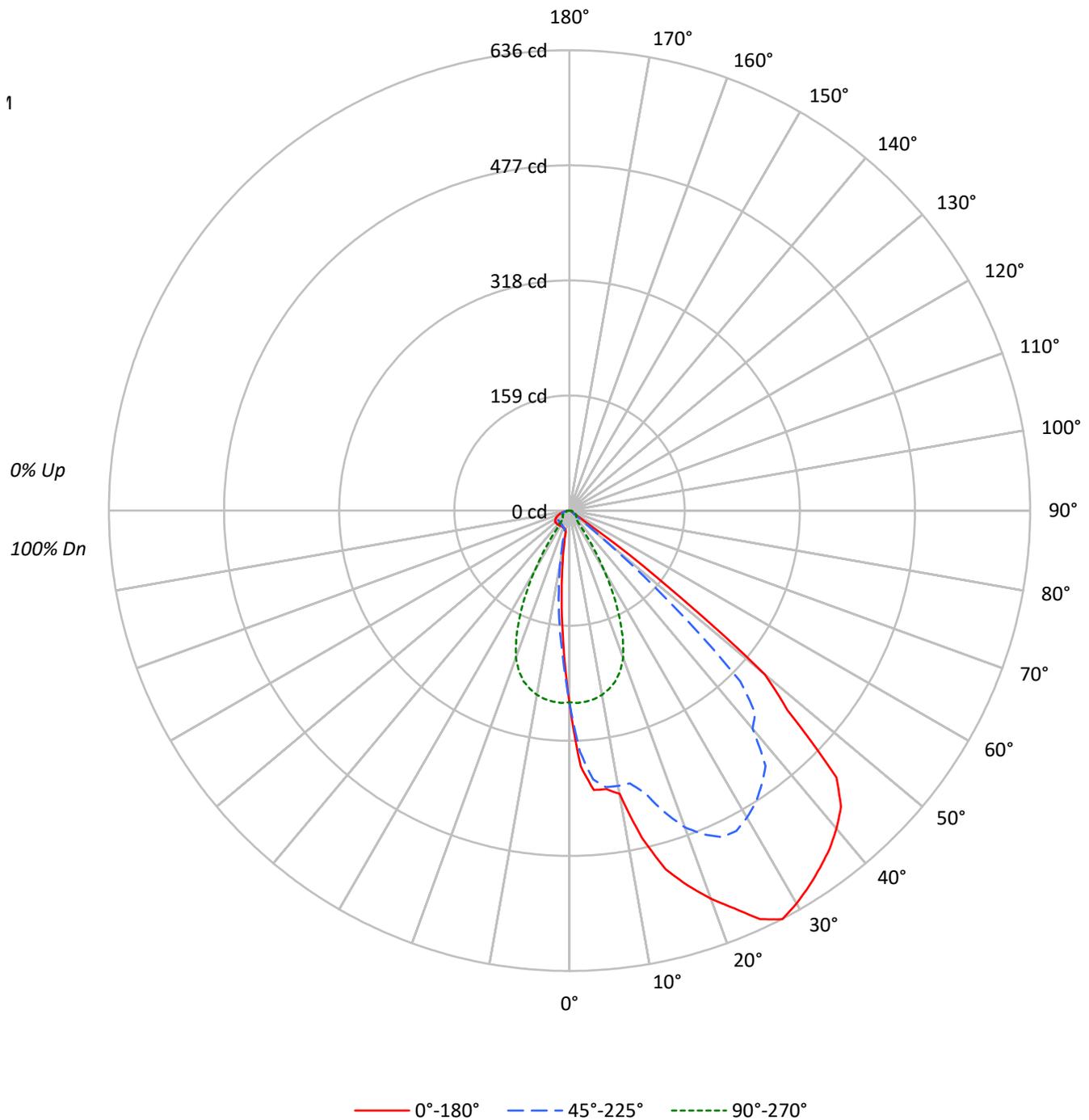
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 503.0 lumens
Efficiency: N/A
Efficacy: 45.7 lumens/watt
Spacing Criteria (0/90/45): 1.7 / 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				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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	92	92	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	82	82	82	80
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	73	73	73	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	65	65	65	64
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	62	59	59	59	59	57
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	53	53	53	51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	48	48	48	46
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	43	43	43	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	40	40	40	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	36	36	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	45605	45605	45605	45605	45605
5°	66991	64433	45779	27332	21420
10°	69462	67573	45206	13081	5281
15°	91485	72050	43558	4689	4582
20°	104504	85351	39642	4490	4600
25°	118330	94576	31126	4333	4561
30°	124629	97384	19290	4315	4872
35°	126715	97196	6349	4436	5151
40°	128957	88399	3080	4744	5643
45°	126919	81178	3191	4993	6113
50°	94365	14977	3215	5493	6725
55°	7537	2042	3423	5825	7206
60°	1584	2170	3341	5890	7474
65°	1630	2078	3260	5827	7661
70°	1460	2014	3172	5438	7452
75°	1131	1930	2662	5323	7187
80°	1091	1686	2876	5058	6744
85°	1186	2174	3359	4545	5730

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 128453 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.1	4.8
10°-20°	67.8	13.5
20°-30°	113.8	22.6
30°-40°	136.8	27.2
40°-50°	108.5	21.6
50°-60°	34.7	6.9
60°-70°	9.7	1.9
70°-80°	5.8	1.1
80°-90°	1.8	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°	205.7	40.9
0°-40°	342.5	68.1
0°-60°	485.7	96.6
0°-90°	503.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	503.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	265	265	265	265	265	
5°	388	373	265	158	124	36
15°	513	404	244	26	26	144
25°	623	498	164	23	24	285
35°	603	462	30	21	24	377
45°	521	333	13	20	25	374
55°	25	7	11	19	24	79
65°	4	5	8	14	19	4
75°	2	3	4	8	11	2
85°	1	1	2	2	3	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°	264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8
2.5°	353.3	355.6	355.6	352.7	353.9	349.3	345.9	340.7	339.6	333.3	325.3
5°	387.5	386.4	386.4	384.1	385.3	383.5	381.8	380.7	377.3	372.7	368.1
7.5°	388.1	389.3	389.8	389.3	391.5	389.8	389.8	389.8	387.5	385.3	380.7
10°	397.2	395.5	393.8	389.8	387.5	385.8	385.8	386.4	387.5	386.4	383.5
12.5°	462.9	456.6	453.7	444.0	436.6	424.1	409.8	399.0	389.3	385.8	383.5
15°	513.1	512.0	506.3	497.1	488.0	473.2	456.6	440.0	422.4	404.1	391.0
17.5°	542.8	540.5	534.8	525.1	514.2	500.5	487.4	474.9	457.7	437.2	416.1
20°	570.2	565.0	557.6	546.2	535.4	522.2	508.0	496.0	481.7	465.7	441.2
22.5°	594.7	590.2	578.2	562.8	551.9	539.4	526.8	515.4	502.3	484.0	461.7
25°	622.7	612.4	593.0	573.0	559.9	549.6	540.5	531.4	517.7	497.7	471.4
27.5°	636.4	622.1	601.0	581.0	568.5	557.6	547.9	538.8	523.4	498.8	468.6
30°	626.7	618.7	603.9	588.4	578.2	567.9	556.5	542.8	518.2	489.7	461.7
32.5°	615.3	611.3	604.4	595.3	589.0	578.7	562.8	540.5	506.3	478.3	448.0
35°	602.7	601.0	598.7	594.7	590.7	581.0	561.0	528.5	494.3	462.3	433.2
37.5°	589.6	587.9	589.6	589.0	585.6	573.0	542.8	512.5	477.1	444.6	388.1
40°	573.6	572.5	575.3	578.2	574.2	557.6	525.1	488.6	457.2	393.2	373.8
42.5°	554.8	554.2	559.3	561.6	555.9	531.4	493.1	466.3	400.1	379.5	333.9
45°	521.1	522.2	524.5	527.4	523.9	497.1	462.3	413.2	384.1	333.3	190.1
47.5°	408.1	409.2	420.6	444.6	461.2	452.0	422.4	385.8	343.6	190.6	59.9
50°	352.2	351.0	351.6	357.3	370.4	383.0	373.8	353.9	204.9	55.9	7.4
52.5°	154.7	171.8	190.1	241.4	274.5	309.3	316.2	221.5	66.8	7.4	7.4
55°	25.1	26.3	33.1	48.5	87.3	131.8	159.8	74.2	6.8	6.8	6.8
57.5°	5.1	5.1	5.1	5.7	8.6	18.3	21.1	6.3	6.3	6.3	6.8
60°	4.6	4.6	4.6	4.6	5.1	5.1	5.1	5.7	5.7	6.3	6.3
62.5°	4.6	4.6	4.6	4.6	4.6	4.6	5.1	5.1	5.7	5.7	6.3
65°	4.0	4.0	4.0	4.0	4.6	4.6	4.6	4.6	5.1	5.1	5.7
67.5°	3.4	3.4	3.4	3.4	4.0	4.0	4.0	4.6	4.6	4.6	5.1
70°	2.9	2.9	2.9	2.9	3.4	3.4	3.4	3.4	4.0	4.0	4.0
72.5°	2.3	2.3	2.3	2.3	2.9	2.9	2.9	2.9	3.4	3.4	3.4
75°	1.7	1.7	2.3	2.3	2.3	2.3	2.3	2.3	2.9	2.9	2.9
77.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.3	2.3	2.3	2.3
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.7	1.7	1.7	1.7	1.7
82.5°	0.6	0.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.1	1.1	1.1	1.1
87.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	264.8	264.8	264.8	264.8	264.8	264.8	264.8	264.8
2.5°	320.2	312.2	301.4	266.0	233.4	203.8	188.9	187.2
5°	360.7	353.3	335.0	264.8	202.6	158.1	131.3	123.9
7.5°	376.1	369.8	353.9	262.5	173.5	113.6	83.3	71.9
10°	380.1	376.1	362.4	258.5	143.3	74.8	39.4	30.2
12.5°	381.8	379.0	365.9	252.3	113.0	38.8	26.8	26.8
15°	384.7	381.8	369.3	244.3	83.3	26.3	25.7	25.7
17.5°	397.2	388.1	373.8	232.3	54.8	25.1	25.1	25.1
20°	417.8	397.8	376.1	216.3	34.2	24.5	24.5	25.1
22.5°	434.9	408.1	375.6	192.3	25.1	23.4	24.0	24.5
25°	442.3	412.7	370.4	163.8	21.7	22.8	24.0	24.0
27.5°	441.2	414.4	365.9	131.3	20.5	22.3	23.4	24.5
30°	434.9	409.8	355.6	97.0	19.4	21.7	23.4	24.5
32.5°	424.1	392.1	335.0	62.8	18.8	21.7	23.4	24.5
35°	388.7	363.6	305.4	30.2	18.3	21.1	24.0	24.5
37.5°	368.1	333.3	232.9	14.8	17.7	21.1	24.0	24.5
40°	335.0	248.8	105.0	13.7	17.7	21.1	24.0	25.1
42.5°	210.6	102.2	17.1	13.1	17.1	21.1	24.0	25.1
45°	77.1	13.7	9.1	13.1	17.1	20.5	24.0	25.1
47.5°	8.0	8.0	8.6	12.6	16.6	20.5	24.0	25.1
50°	7.4	8.0	8.6	12.0	16.0	20.5	23.4	25.1
52.5°	7.4	8.0	8.6	12.0	15.4	20.0	23.4	25.1
55°	7.4	8.0	8.0	11.4	14.8	19.4	22.8	24.0
57.5°	6.8	7.4	8.0	10.8	14.3	18.3	22.3	23.4
60°	6.8	7.4	8.0	9.7	13.7	17.1	21.1	21.7
62.5°	6.3	6.8	7.4	9.1	12.6	16.0	19.4	20.5
65°	6.3	6.3	6.8	8.0	11.4	14.3	17.7	18.8
67.5°	5.1	5.7	5.7	6.8	9.7	12.6	16.0	17.1
70°	4.6	4.6	5.1	6.3	8.6	10.8	13.7	14.8
72.5°	4.0	4.0	4.0	5.1	7.4	9.7	12.0	13.1
75°	3.4	3.4	3.4	4.0	6.3	8.0	10.3	10.8
77.5°	2.9	2.9	2.9	3.4	5.1	6.8	8.0	9.1
80°	2.3	2.3	2.3	2.9	4.0	5.1	6.3	6.8
82.5°	1.7	1.7	1.7	2.3	2.9	3.4	4.6	4.6
85°	1.1	1.1	1.1	1.7	1.7	2.3	2.9	2.9
87.5°	0.6	0.6	0.6	1.1	1.1	1.1	1.1	1.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)