

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: P1318110

Luminaire Tested: LDSQA3D05R509830DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318110
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D05R509830DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 3000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

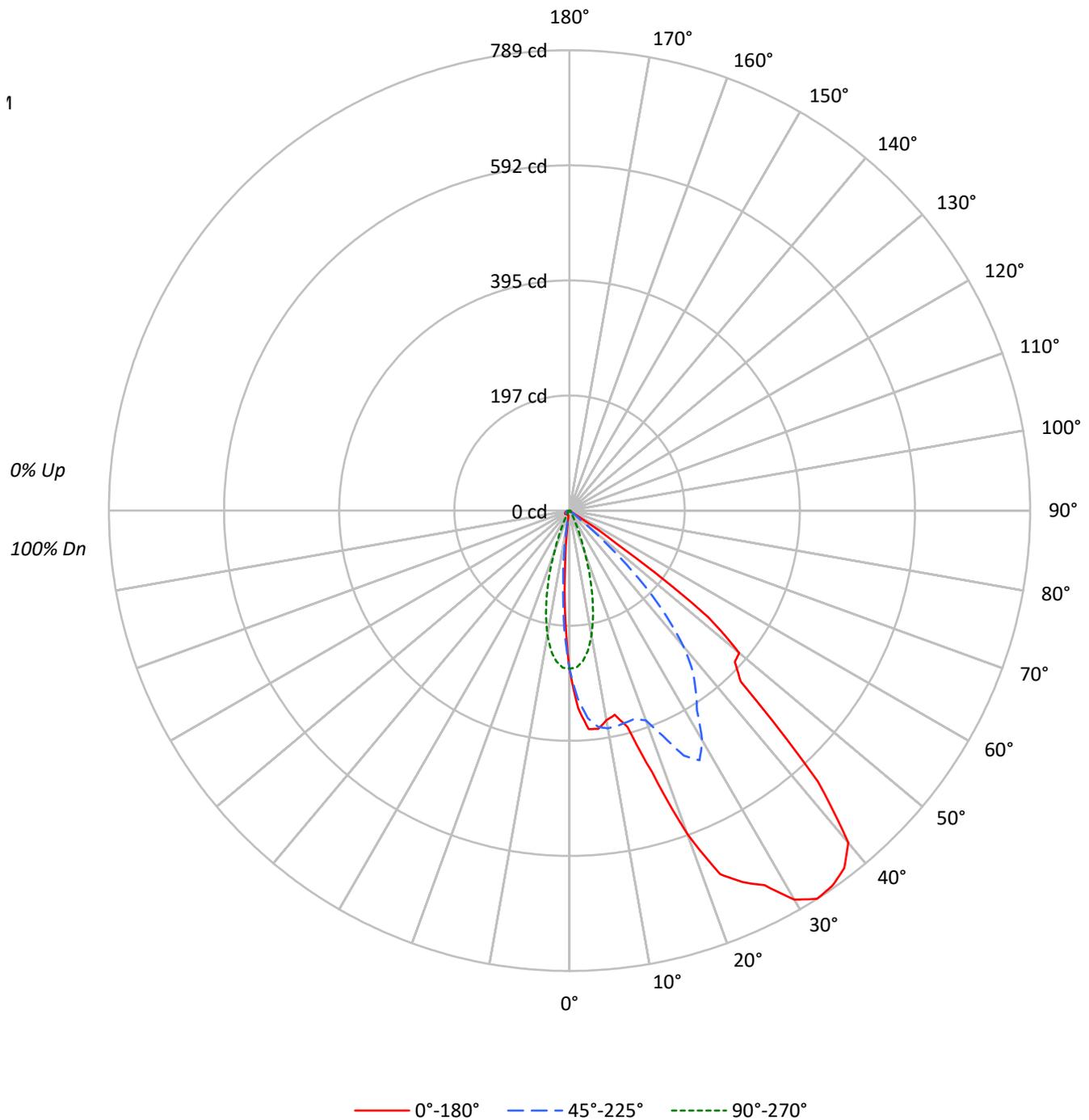
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 421.0 lumens
Efficiency: N/A
Efficacy: 58.5 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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				
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	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	93	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	60	58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	63	58	54	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	49	47
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	50	45	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	46621	46621	46621	46621	46621
5°	65003	61666	44811	21541	13969
10°	63796	66262	37861	4547	1941
15°	68431	66969	26780	1587	1516
20°	108041	70121	14131	1356	1430
25°	133513	88077	5644	1273	1406
30°	153067	90325	2287	1253	1472
35°	165021	79283	1009	1325	1640
40°	167042	68278	742	1506	1844
45°	100955	44255	731	1632	2070
50°	101733	7636	804	1876	2385
55°	30056	450	901	2102	2672
60°	517	517	896	2308	2928
65°	448	448	897	2404	3179
70°	554	554	957	2618	3525
75°	466	466	998	2728	3726
80°	397	694	1091	2579	4066
85°	790	1383	1383	2964	3754

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 115325 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.9	5.2
10°-20°	54.3	12.9
20°-30°	101.8	24.2
30°-40°	121.7	28.9
40°-50°	87.2	20.7
50°-60°	26.9	6.4
60°-70°	3.5	0.8
70°-80°	2.5	0.6
80°-90°	1.0	0.2
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°	178.0	42.3
0°-40°	299.8	71.2
0°-60°	413.9	98.3
0°-90°	421.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	421.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	271	271	271	271	271	
5°	376	357	259	125	81	35
15°	384	376	150	9	8	123
25°	703	464	30	7	7	324
35°	785	377	5	6	8	487
45°	414	182	3	7	8	381
55°	100	2	3	7	9	129
65°	1	1	2	6	8	1
75°	1	1	2	4	6	1
85°	0	1	1	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°	270.7	270.7	270.7	270.7	270.7	270.7	270.7	270.7	270.7	270.7	270.7
2.5°	338.5	339.3	340.4	337.4	335.6	334.1	331.5	330.7	324.4	321.8	319.2
5°	376.0	375.2	376.0	374.9	374.1	371.9	369.7	366.0	361.9	356.7	350.8
7.5°	377.1	376.3	377.8	377.8	379.3	379.3	379.3	379.7	377.5	373.7	368.6
10°	364.8	364.8	366.3	365.6	368.2	369.3	371.9	376.3	378.6	378.9	377.5
12.5°	358.5	358.5	358.9	357.4	358.2	359.3	362.2	367.4	372.6	377.8	380.8
15°	383.8	384.5	379.3	371.9	366.3	360.4	358.5	361.9	367.4	375.6	382.3
17.5°	469.4	470.5	465.0	447.2	430.1	405.6	383.8	373.0	367.1	373.7	382.6
20°	589.5	585.5	575.8	556.9	532.1	494.2	460.1	425.7	392.7	382.6	385.6
22.5°	674.4	673.0	665.2	644.0	622.5	587.3	543.9	495.7	447.9	417.5	401.6
25°	702.6	701.5	694.5	681.9	670.0	643.3	604.4	555.8	505.7	463.5	423.4
27.5°	723.8	722.3	711.2	697.1	684.8	657.8	622.2	585.5	539.5	482.4	420.8
30°	769.7	765.7	750.1	724.9	701.5	664.1	624.8	579.2	516.9	454.2	394.1
32.5°	789.0	786.8	773.4	753.0	727.5	678.5	618.8	542.4	460.5	406.4	362.6
35°	784.9	781.6	767.9	744.5	713.4	666.3	586.6	481.6	414.9	377.1	327.8
37.5°	772.7	767.9	751.6	724.1	686.3	624.8	520.6	432.3	389.3	346.7	280.3
40°	743.0	735.3	716.3	687.8	650.0	569.1	460.5	402.7	362.6	303.7	227.3
42.5°	629.6	625.5	634.8	629.9	596.6	501.3	417.9	375.6	320.4	245.5	164.6
45°	414.5	421.6	438.3	466.8	473.5	431.2	383.0	331.1	263.6	181.7	94.9
47.5°	383.8	382.3	386.3	391.9	393.0	375.2	331.5	273.6	195.8	103.8	26.3
50°	379.7	377.5	374.1	367.4	353.4	318.9	269.2	199.5	113.1	28.5	1.9
52.5°	300.0	297.7	297.7	288.1	269.9	236.6	185.8	109.7	31.5	1.9	1.5
55°	100.1	106.8	105.7	105.3	113.5	104.6	80.1	28.2	2.6	1.5	1.5
57.5°	1.9	1.9	1.9	3.3	5.2	7.4	4.4	2.2	1.5	1.5	1.5
60°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
62.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
65°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.5
67.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
70°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
72.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.1	1.1	1.1
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.1
77.5°	0.4	0.4	0.4	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.7	0.7	0.7
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.7	0.7
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4
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°	270.7	270.7	270.7	270.7	270.7	270.7	270.7	270.7
2.5°	313.3	308.1	298.1	269.6	238.0	202.1	177.6	174.6
5°	341.5	333.7	317.4	259.2	187.2	124.6	92.7	80.8
7.5°	360.0	349.6	329.6	242.1	136.4	65.6	35.2	28.2
10°	371.1	361.5	335.9	216.5	86.8	26.0	11.9	11.1
12.5°	377.1	367.8	338.1	185.8	48.9	11.9	9.3	9.3
15°	381.2	371.1	334.8	150.2	24.5	8.9	8.5	8.5
17.5°	383.0	370.8	325.2	113.1	13.0	8.2	8.2	8.2
20°	384.1	366.7	307.4	77.1	8.9	7.4	7.8	7.8
22.5°	385.2	356.7	284.0	48.9	7.0	7.0	7.4	7.4
25°	383.0	339.3	251.0	29.7	6.3	6.7	7.0	7.4
27.5°	367.1	312.9	211.0	18.2	5.6	6.3	7.0	7.4
30°	339.6	274.4	164.6	11.5	5.2	6.3	7.0	7.4
32.5°	304.0	230.3	117.5	7.0	5.2	6.3	7.0	7.4
35°	256.2	176.1	76.4	4.8	5.2	6.3	7.4	7.8
37.5°	202.4	123.1	41.2	3.7	5.2	6.3	7.4	7.8
40°	145.7	73.8	14.8	3.3	4.8	6.7	7.8	8.2
42.5°	85.3	27.4	2.6	3.0	4.8	6.7	7.8	8.2
45°	24.5	3.0	1.5	3.0	4.8	6.7	8.2	8.5
47.5°	1.9	1.1	1.5	3.0	4.8	6.7	8.2	8.9
50°	1.1	1.1	1.1	3.0	4.8	7.0	8.5	8.9
52.5°	1.5	1.5	1.5	3.0	4.8	7.0	8.5	8.9
55°	1.5	1.5	1.5	3.0	4.8	7.0	8.5	8.9
57.5°	1.5	1.5	1.5	3.0	4.8	6.7	8.5	8.9
60°	1.5	1.5	1.5	2.6	4.4	6.7	8.2	8.5
62.5°	1.5	1.5	1.5	2.6	4.4	6.3	8.2	8.2
65°	1.5	1.5	1.5	2.2	4.1	5.9	7.4	7.8
67.5°	1.5	1.5	1.5	2.2	3.7	5.6	7.0	7.4
70°	1.1	1.5	1.5	1.9	3.3	5.2	6.7	7.0
72.5°	1.1	1.1	1.5	1.9	3.0	4.4	5.9	6.3
75°	1.1	1.1	1.1	1.5	2.6	4.1	5.2	5.6
77.5°	1.1	1.1	1.1	1.5	2.2	3.3	4.8	4.8
80°	0.7	1.1	1.1	1.1	1.9	2.6	3.7	4.1
82.5°	0.7	0.7	0.7	1.1	1.5	2.2	3.0	3.0
85°	0.7	0.7	0.7	0.7	1.1	1.5	1.9	1.9
87.5°	0.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)