

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: P1309917

Luminaire Tested: LDSQA3D02R509035DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309917
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: LDSQA3D02R509035DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

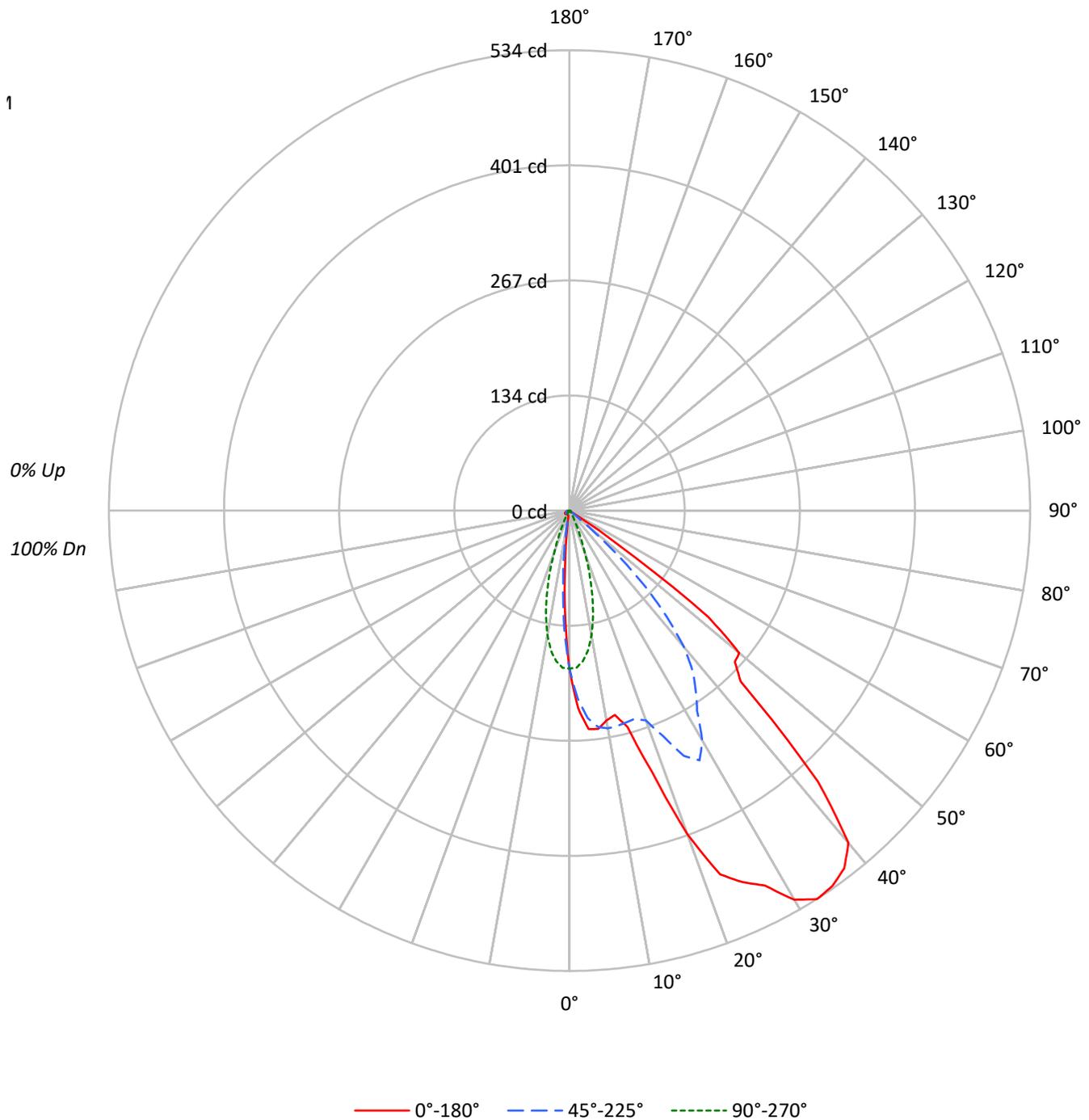
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 285.1 lumens
Efficiency: N/A
Efficacy: 79.2 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): 3.6
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	100			100	
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	92	91			91	
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81			81	
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73			73	
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65			65	
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58			58	
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	52			52	
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47	
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	49	45	43			43	
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39			39	
10	61	49	42	38	60	49	42	38	48	42	38	47	42	37	46	41	37	36			36	

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	31551	31551	31551	31551	31551
5°	43998	41751	30323	14574	9457
10°	43195	44857	25637	3078	1312
15°	46322	45341	18133	1070	1034
20°	73145	47468	9567	916	971
25°	90377	59630	3820	855	950
30°	103629	61151	1551	855	994
35°	111724	53676	694	904	1114
40°	113085	46223	517	1012	1237
45°	68343	29958	487	1096	1413
50°	68858	5171	536	1286	1608
55°	20358	300	601	1441	1802
60°	344	344	620	1550	1998
65°	326	326	611	1630	2160
70°	403	403	655	1762	2417
75°	333	333	665	1863	2529
80°	298	496	793	1785	2777
85°	593	988	988	1976	2569

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 78061 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.8	5.2
10°-20°	36.8	12.9
20°-30°	68.9	24.2
30°-40°	82.4	28.9
40°-50°	59.1	20.7
50°-60°	18.2	6.4
60°-70°	2.4	0.8
70°-80°	1.7	0.6
80°-90°	0.7	0.3
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°	120.5	42.3
0°-40°	202.9	71.2
0°-60°	280.2	98.3
0°-90°	285.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	285.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	183	183	183	183	183	
5°	254	242	175	84	55	24
15°	260	254	102	6	6	83
25°	476	314	20	4	5	219
35°	531	255	3	4	5	330
45°	281	123	2	4	6	258
55°	68	1	2	5	6	87
65°	1	1	2	4	5	1
75°	0	0	1	3	4	0
85°	0	0	0	1	1	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°	183.2	183.2	183.2	183.2	183.2	183.2	183.2	183.2	183.2	183.2	183.2
2.5°	229.2	229.7	230.4	228.4	227.2	226.2	224.4	223.9	219.6	217.9	216.1
5°	254.5	254.0	254.5	253.8	253.3	251.8	250.2	247.7	245.0	241.5	237.4
7.5°	255.3	254.8	255.8	255.8	256.8	256.8	256.8	257.0	255.5	253.0	249.5
10°	247.0	247.0	248.0	247.5	249.2	250.0	251.8	254.8	256.3	256.5	255.5
12.5°	242.7	242.7	243.0	242.0	242.5	243.2	245.2	248.7	252.3	255.8	257.8
15°	259.8	260.3	256.8	251.8	248.0	244.0	242.7	245.0	248.7	254.3	258.8
17.5°	317.8	318.5	314.8	302.7	291.2	274.6	259.8	252.5	248.5	253.0	259.0
20°	399.1	396.3	389.8	377.0	360.2	334.6	311.5	288.1	265.8	259.0	261.0
22.5°	456.6	455.6	450.3	436.0	421.4	397.6	368.2	335.6	303.2	282.6	271.8
25°	475.6	474.9	470.1	461.6	453.6	435.5	409.1	376.3	342.4	313.8	286.6
27.5°	490.0	488.9	481.4	471.9	463.6	445.3	421.2	396.3	365.2	326.6	284.9
30°	521.1	518.3	507.8	490.7	474.9	449.5	422.9	392.1	349.9	307.5	266.8
32.5°	534.1	532.6	523.6	509.8	492.5	459.3	418.9	367.2	311.7	275.1	245.5
35°	531.4	529.1	519.8	504.0	482.9	451.0	397.1	326.1	280.9	255.3	221.9
37.5°	523.1	519.8	508.8	490.2	464.6	422.9	352.4	292.7	263.6	234.7	189.8
40°	503.0	497.7	484.9	465.6	440.0	385.3	311.7	272.6	245.5	205.6	153.9
42.5°	426.2	423.4	429.7	426.5	403.9	339.4	282.9	254.3	216.9	166.2	111.4
45°	280.6	285.4	296.7	316.0	320.5	291.9	259.3	224.1	178.5	123.0	64.3
47.5°	259.8	258.8	261.5	265.3	266.1	254.0	224.4	185.2	132.5	70.3	17.8
50°	257.0	255.5	253.3	248.7	239.2	215.9	182.2	135.0	76.6	19.3	1.3
52.5°	203.1	201.6	201.6	195.0	182.7	160.1	125.8	74.3	21.3	1.3	1.0
55°	67.8	72.3	71.5	71.3	76.8	70.8	54.2	19.1	1.8	1.0	1.0
57.5°	1.3	1.3	1.3	2.3	3.5	5.0	3.0	1.5	1.0	1.0	1.0
60°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
62.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
65°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0
67.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
70°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.8	0.8	0.8
75°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.8
77.5°	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5
82.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3
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°	183.2	183.2	183.2	183.2	183.2	183.2	183.2	183.2
2.5°	212.1	208.6	201.8	182.5	161.1	136.8	120.2	118.2
5°	231.2	225.9	214.9	175.4	126.8	84.3	62.8	54.7
7.5°	243.7	236.7	223.1	163.9	92.4	44.4	23.8	19.1
10°	251.3	244.7	227.4	146.6	58.7	17.6	8.0	7.5
12.5°	255.3	249.0	228.9	125.8	33.1	8.0	6.3	6.3
15°	258.0	251.3	226.7	101.7	16.6	6.0	5.8	5.8
17.5°	259.3	251.0	220.1	76.6	8.8	5.5	5.5	5.5
20°	260.0	248.2	208.1	52.2	6.0	5.0	5.3	5.3
22.5°	260.8	241.5	192.3	33.1	4.8	4.8	5.0	5.0
25°	259.3	229.7	169.9	20.1	4.3	4.5	4.8	5.0
27.5°	248.5	211.8	142.8	12.3	3.8	4.3	4.8	5.0
30°	229.9	185.7	111.4	7.8	3.5	4.3	4.8	5.0
32.5°	205.8	155.9	79.6	4.8	3.5	4.3	4.8	5.0
35°	173.4	119.2	51.7	3.3	3.5	4.3	5.0	5.3
37.5°	137.0	83.3	27.9	2.5	3.5	4.3	5.0	5.3
40°	98.6	49.9	10.0	2.3	3.3	4.5	5.3	5.5
42.5°	57.7	18.6	1.8	2.0	3.3	4.5	5.3	5.5
45°	16.6	2.0	1.0	2.0	3.3	4.5	5.5	5.8
47.5°	1.3	0.8	1.0	2.0	3.3	4.5	5.5	6.0
50°	0.8	0.8	0.8	2.0	3.3	4.8	5.8	6.0
52.5°	1.0	1.0	1.0	2.0	3.3	4.8	5.8	6.0
55°	1.0	1.0	1.0	2.0	3.3	4.8	5.8	6.0
57.5°	1.0	1.0	1.0	2.0	3.3	4.5	5.8	6.0
60°	1.0	1.0	1.0	1.8	3.0	4.5	5.5	5.8
62.5°	1.0	1.0	1.0	1.8	3.0	4.3	5.5	5.5
65°	1.0	1.0	1.0	1.5	2.8	4.0	5.0	5.3
67.5°	1.0	1.0	1.0	1.5	2.5	3.8	4.8	5.0
70°	0.8	1.0	1.0	1.3	2.3	3.5	4.5	4.8
72.5°	0.8	0.8	1.0	1.3	2.0	3.0	4.0	4.3
75°	0.8	0.8	0.8	1.0	1.8	2.8	3.5	3.8
77.5°	0.8	0.8	0.8	1.0	1.5	2.3	3.3	3.3
80°	0.5	0.8	0.8	0.8	1.3	1.8	2.5	2.8
82.5°	0.5	0.5	0.5	0.8	1.0	1.5	2.0	2.0
85°	0.5	0.5	0.5	0.5	0.8	1.0	1.3	1.3
87.5°	0.3	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

(END OF REPORT)