

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: P1316496

Luminaire Tested: LDSQA3D09R659740DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316496
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-68)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R659740DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R65 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

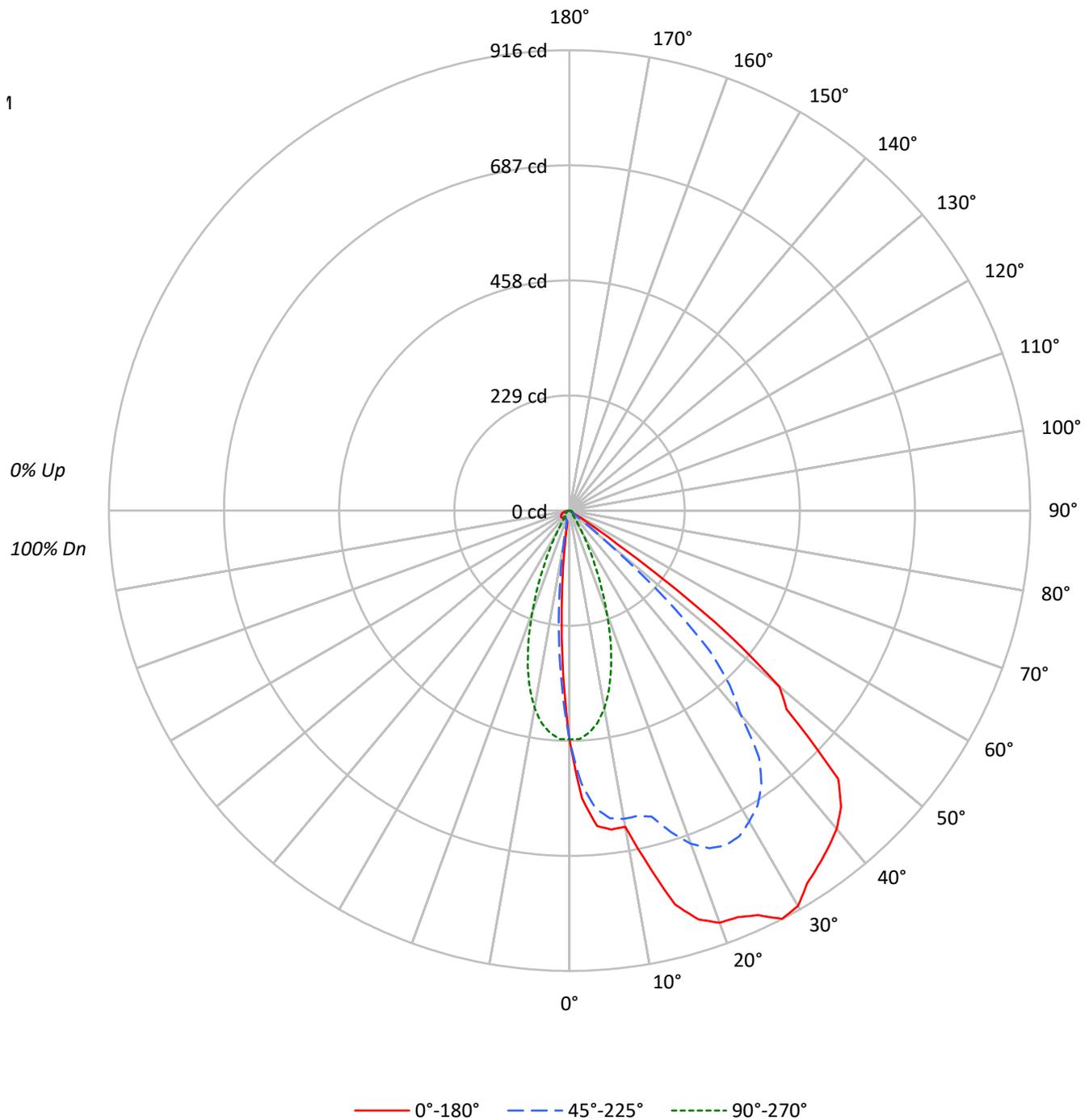
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 682.0 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Spacing Criteria (0/90/45): 1.47 / 0.64 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 11.1
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	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	106	104	101	102	100	98	99	97	95	95	94	92	95	94	92	90
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	81	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	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	56	66	60	55	64	59	55	63	58	54	63	58	54	53
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	58	53	49	48
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	50	45	41	40
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	47	42	38	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	78361	78361	78361	78361	78361
5°	108932	102795	76707	42148	29649
10°	111678	108950	69777	11769	4337
15°	144689	112346	57109	3798	3673
20°	159908	129246	39752	3372	3501
25°	168744	139670	22499	3230	3496
30°	180689	142070	10142	3242	3659
35°	181336	139918	3280	3427	4016
40°	185792	118863	2226	3665	4451
45°	184009	95792	2241	3970	4822
50°	146022	22587	2277	4367	5519
55°	34680	1291	2342	4894	6185
60°	1206	1481	2687	5132	6579
65°	1426	1426	2608	5501	7213
70°	1057	1410	2518	5338	7503
75°	932	1397	2329	5656	7519
80°	694	1389	2777	5653	7736
85°	1383	2766	2766	5533	6916

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 10°
 Vertical Angle: 45°
 Luminance: 184350 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.0	5.6
10°-20°	100.0	14.7
20°-30°	157.1	23.0
30°-40°	179.7	26.4
40°-50°	144.4	21.2
50°-60°	47.0	6.9
60°-70°	8.3	1.2
70°-80°	5.5	0.8
80°-90°	2.0	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°	295.0	43.3
0°-40°	474.7	69.6
0°-60°	666.2	97.7
0°-90°	682.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	682.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	455	455	455	455	455	
5°	630	595	444	244	172	59
15°	812	630	320	21	21	226
25°	888	735	118	17	18	414
35°	862	666	16	16	19	542
45°	756	393	9	16	20	544
55°	116	4	8	16	21	165
65°	4	4	6	14	18	3
75°	1	2	4	8	11	2
85°	1	1	1	3	4	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°	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
2.5°	572.7	570.5	573.4	568.4	567.7	562.7	559.9	558.5	552.1	543.6	535.8
5°	630.1	621.6	623.7	623.0	619.4	617.3	614.5	610.9	602.4	594.6	584.7
7.5°	640.0	632.9	634.3	635.0	632.9	632.2	631.5	630.1	624.4	617.3	608.8
10°	638.6	631.5	630.8	628.6	626.5	627.2	627.2	627.2	625.8	623.0	620.1
12.5°	720.8	710.9	708.7	693.9	680.4	657.0	642.1	627.9	621.6	622.3	620.1
15°	811.5	810.8	803.7	789.5	766.9	745.6	711.6	686.1	653.5	630.1	620.1
17.5°	852.6	851.9	845.5	833.5	817.2	797.3	772.5	742.8	706.6	670.5	640.7
20°	872.5	877.4	870.3	860.4	844.8	826.4	803.0	776.1	742.0	705.2	669.8
22.5°	875.3	881.7	875.3	868.2	856.9	844.8	825.0	797.3	762.6	727.2	692.4
25°	888.0	890.2	876.7	867.5	856.9	848.4	832.8	808.7	773.2	735.0	700.9
27.5°	915.7	906.5	878.1	865.4	855.4	847.6	832.8	808.0	769.7	730.7	695.3
30°	908.6	905.1	880.3	868.2	859.7	851.9	833.5	801.6	755.5	714.4	677.6
32.5°	879.5	886.6	878.1	873.9	869.6	859.7	832.8	789.5	737.8	696.0	646.4
35°	862.5	871.0	871.7	871.7	866.8	851.9	820.0	771.8	720.1	665.5	598.9
37.5°	845.5	852.6	856.9	859.7	852.6	831.3	791.0	747.7	691.0	619.4	502.5
40°	826.4	831.3	834.9	836.3	825.7	798.0	761.2	712.3	648.5	528.7	448.6
42.5°	799.5	802.3	801.6	800.9	789.5	759.1	724.3	673.3	547.1	471.3	374.2
45°	755.5	752.7	756.9	756.9	742.0	719.4	673.3	574.1	489.7	393.3	241.0
47.5°	585.4	587.5	608.1	641.4	662.0	655.6	593.2	502.5	411.8	258.0	80.1
50°	545.0	542.9	543.6	547.1	549.3	531.6	486.9	424.5	272.2	84.3	5.7
52.5°	365.7	367.8	384.1	421.7	433.7	421.0	378.5	283.5	99.2	5.7	5.0
55°	115.5	123.3	132.5	152.4	187.1	209.1	204.8	100.6	6.4	4.3	5.0
57.5°	4.3	4.3	5.7	9.9	19.1	31.2	32.6	6.4	5.0	5.0	5.0
60°	3.5	3.5	3.5	3.5	3.5	3.5	4.3	4.3	4.3	4.3	4.3
62.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.3	4.3	4.3	4.3
65°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.3
67.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.5	3.5	3.5	3.5
70°	2.1	2.1	2.1	2.8	2.8	2.8	2.8	2.8	2.8	2.8	3.5
72.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.8	2.8	2.8
75°	1.4	1.4	1.4	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1	2.1	2.1
80°	0.7	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.1
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	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	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°	455.0	455.0	455.0	455.0	455.0	455.0	455.0	455.0
2.5°	531.6	523.0	506.0	455.0	401.9	348.7	315.4	306.9
5°	573.4	563.4	539.3	443.7	335.9	243.8	191.4	171.5
7.5°	598.9	586.8	558.5	426.0	261.5	141.7	85.0	68.0
10°	610.2	599.6	567.7	399.0	189.2	67.3	29.8	24.8
12.5°	615.2	606.7	571.2	363.6	123.3	29.8	22.0	21.3
15°	617.3	608.1	569.8	320.3	70.2	21.3	20.6	20.6
17.5°	619.4	608.8	561.3	270.7	39.0	19.8	19.1	19.8
20°	636.4	606.0	546.4	216.9	25.5	18.4	18.4	19.1
22.5°	653.5	605.3	520.2	165.8	19.8	17.7	18.4	18.4
25°	659.1	598.2	486.9	118.4	17.0	17.0	17.7	18.4
27.5°	648.5	577.6	442.3	80.1	14.9	17.0	17.7	18.4
30°	623.7	542.9	388.4	51.0	14.2	16.3	17.7	18.4
32.5°	577.6	474.1	328.1	30.5	13.5	16.3	18.4	18.4
35°	485.5	397.6	260.1	15.6	13.5	16.3	18.4	19.1
37.5°	424.5	331.7	181.4	10.6	13.5	16.3	18.4	19.1
40°	352.2	239.6	75.8	9.9	13.5	16.3	18.4	19.8
42.5°	243.8	104.2	12.0	9.2	12.8	16.3	19.1	19.8
45°	87.9	13.5	5.7	9.2	12.8	16.3	19.1	19.8
47.5°	7.8	5.0	5.7	9.2	12.8	16.3	19.1	20.6
50°	5.0	5.0	5.0	8.5	12.8	16.3	19.1	20.6
52.5°	5.0	5.0	5.0	8.5	12.0	16.3	19.8	20.6
55°	5.0	5.0	5.0	7.8	12.0	16.3	19.1	20.6
57.5°	5.0	5.0	5.7	7.8	12.0	15.6	19.1	19.8
60°	5.0	5.0	5.0	7.8	11.3	14.9	18.4	19.1
62.5°	4.3	5.0	5.0	7.1	10.6	14.2	17.7	18.4
65°	4.3	4.3	5.0	6.4	9.9	13.5	16.3	17.7
67.5°	3.5	4.3	4.3	5.7	8.5	12.0	14.9	16.3
70°	3.5	3.5	3.5	5.0	7.8	10.6	14.2	14.9
72.5°	2.8	3.5	3.5	4.3	6.4	9.2	12.0	13.5
75°	2.8	2.8	2.8	3.5	5.7	8.5	10.6	11.3
77.5°	2.1	2.1	2.8	2.8	5.0	6.4	9.2	9.9
80°	2.1	2.1	2.1	2.8	3.5	5.7	7.1	7.8
82.5°	1.4	1.4	1.4	2.1	2.8	3.5	5.0	5.7
85°	1.4	1.4	1.4	1.4	2.1	2.8	3.5	3.5
87.5°	0.7	0.7	0.7	1.4	1.4	1.4	1.4	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)