

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: P1309155

Luminaire Tested: LDSQA3D09R709030DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1309155
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: LDSQA3D09R709030DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

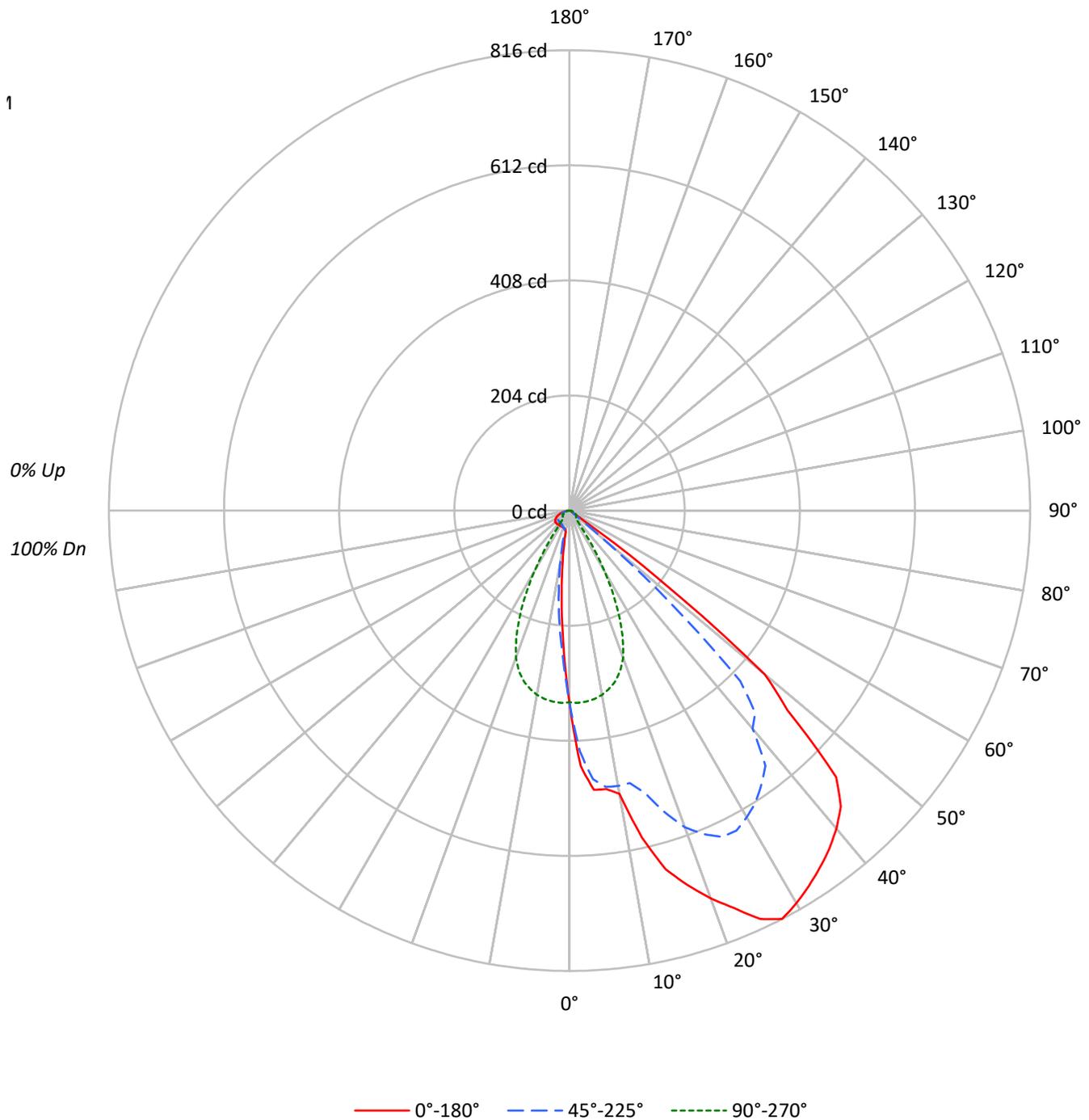
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 645.0 lumens
Efficiency: N/A
Efficacy: 58.1 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): 11.1
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

TEST NUMBER: P1309155
CATALOG NUMBER: LDSQA3D09R709030DE010 3LSQCA30R 1MW

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				
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°	58487	58487	58487	58487	58487
5°	85904	82620	58710	35043	27453
10°	89084	86653	57973	16771	6785
15°	117320	92394	55843	6009	5866
20°	133993	109452	50841	5773	5901
25°	151736	121275	39906	5568	5834
30°	159808	124868	24739	5528	6264
35°	162498	124633	8158	5698	6623
40°	165356	113377	3957	6093	7239
45°	162747	104097	4092	6406	7843
50°	120998	19211	4126	7047	8627
55°	9668	2642	4384	7476	9218
60°	2032	2790	4271	7578	9576
65°	2078	2690	4157	7457	9862
70°	1863	2568	4079	6999	9567
75°	1464	2462	3394	6787	9249
80°	1488	2182	3670	6546	8728
85°	1383	2964	4347	5730	7311

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 164719 cd/sqm



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CATALOG NUMBER: LDSQA3D09R709030DE010 3LSQCA30R 1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.9	4.8
10°-20°	86.9	13.5
20°-30°	145.9	22.6
30°-40°	175.5	27.2
40°-50°	139.1	21.6
50°-60°	44.5	6.9
60°-70°	12.4	1.9
70°-80°	7.4	1.2
80°-90°	2.3	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°	263.7	40.9
0°-40°	439.2	68.1
0°-60°	622.8	96.6
0°-90°	645.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	645.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	340	340	340	340	340	
5°	497	478	340	203	159	47
15°	658	518	313	34	33	185
25°	798	638	210	29	31	365
35°	773	593	39	27	32	484
45°	668	427	17	26	32	480
55°	32	9	15	25	31	101
65°	5	7	10	18	24	5
75°	2	4	5	10	14	3
85°	1	2	2	3	4	1
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°	339.6	339.6	339.6	339.6	339.6	339.6	339.6	339.6	339.6	339.6	339.6
2.5°	453.0	456.0	456.0	452.3	453.8	447.9	443.5	436.9	435.5	427.4	417.2
5°	496.9	495.5	495.5	492.6	494.0	491.8	489.6	488.2	483.8	477.9	472.1
7.5°	497.7	499.1	499.9	499.1	502.1	499.9	499.9	499.9	496.9	494.0	488.2
10°	509.4	507.2	505.0	499.9	496.9	494.7	494.7	495.5	496.9	495.5	491.8
12.5°	593.6	585.5	581.8	569.4	559.9	543.8	525.5	511.6	499.1	494.7	491.8
15°	658.0	656.5	649.2	637.5	625.8	606.7	585.5	564.3	541.6	518.2	501.3
17.5°	696.0	693.1	685.8	673.3	659.4	641.9	625.0	608.9	587.0	560.6	533.5
20°	731.1	724.6	715.0	700.4	686.5	669.7	651.4	636.0	617.7	597.2	565.7
22.5°	762.6	756.8	741.4	721.6	707.7	691.6	675.5	660.9	644.1	620.6	592.1
25°	798.5	785.3	760.4	734.8	718.0	704.8	693.1	681.4	663.8	638.2	604.5
27.5°	816.0	797.7	770.7	745.0	728.9	715.0	702.6	690.9	671.1	639.7	600.9
30°	803.6	793.4	774.3	754.6	741.4	728.2	713.6	696.0	664.5	627.9	592.1
32.5°	789.0	783.8	775.1	763.3	755.3	742.1	721.6	693.1	649.2	613.3	574.5
35°	772.9	770.7	767.7	762.6	757.5	745.0	719.4	677.7	633.8	592.8	555.5
37.5°	756.0	753.8	756.0	755.3	750.9	734.8	696.0	657.2	611.8	570.1	497.7
40°	735.5	734.1	737.7	741.4	736.3	715.0	673.3	626.5	586.2	504.3	479.4
42.5°	711.4	710.7	717.2	720.2	712.8	681.4	632.3	597.9	513.0	486.7	428.1
45°	668.2	669.7	672.6	676.3	671.9	637.5	592.8	529.9	492.6	427.4	243.7
47.5°	523.3	524.8	539.4	570.1	591.4	579.6	541.6	494.7	440.6	244.4	76.8
50°	451.6	450.1	450.8	458.2	475.0	491.1	479.4	453.8	262.7	71.7	9.5
52.5°	198.3	220.3	243.7	309.6	352.0	396.7	405.5	284.0	85.6	9.5	9.5
55°	32.2	33.7	42.4	62.2	112.0	169.1	204.9	95.1	8.8	8.8	8.8
57.5°	6.6	6.6	6.6	7.3	11.0	23.4	27.1	8.1	8.1	8.1	8.8
60°	5.9	5.9	5.9	5.9	6.6	6.6	6.6	7.3	7.3	8.1	8.1
62.5°	5.9	5.9	5.9	5.9	5.9	5.9	6.6	6.6	7.3	7.3	8.1
65°	5.1	5.1	5.1	5.1	5.9	5.9	5.9	5.9	6.6	6.6	7.3
67.5°	4.4	4.4	4.4	4.4	5.1	5.1	5.1	5.9	5.9	5.9	6.6
70°	3.7	3.7	3.7	3.7	4.4	4.4	4.4	4.4	5.1	5.1	5.1
72.5°	2.9	2.9	2.9	2.9	3.7	3.7	3.7	3.7	4.4	4.4	4.4
75°	2.2	2.2	2.9	2.9	2.9	2.9	2.9	2.9	3.7	3.7	3.7
77.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.9	2.9	2.9	2.9
80°	1.5	1.5	1.5	1.5	1.5	1.5	2.2	2.2	2.2	2.2	2.2
82.5°	0.7	0.7	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.5	1.5	1.5	1.5
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



TEST NUMBER: P1309155

CATALOG NUMBER: LDSQA3D09R709030DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	339.6	339.6	339.6	339.6	339.6	339.6	339.6	339.6
2.5°	410.6	400.3	386.4	341.1	299.3	261.3	242.3	240.1
5°	462.5	453.0	429.6	339.6	259.8	202.7	168.3	158.8
7.5°	482.3	474.3	453.8	336.7	222.5	145.6	106.9	92.2
10°	487.4	482.3	464.7	331.5	183.7	95.9	50.5	38.8
12.5°	489.6	486.0	469.1	323.5	144.9	49.8	34.4	34.4
15°	493.3	489.6	473.5	313.2	106.9	33.7	32.9	32.9
17.5°	509.4	497.7	479.4	297.9	70.3	32.2	32.2	32.2
20°	535.7	510.1	482.3	277.4	43.9	31.5	31.5	32.2
22.5°	557.7	523.3	481.6	246.6	32.2	30.0	30.7	31.5
25°	567.2	529.1	475.0	210.0	27.8	29.3	30.7	30.7
27.5°	565.7	531.3	469.1	168.3	26.3	28.5	30.0	31.5
30°	557.7	525.5	456.0	124.4	24.9	27.8	30.0	31.5
32.5°	543.8	502.8	429.6	80.5	24.2	27.8	30.0	31.5
35°	498.4	466.2	391.6	38.8	23.4	27.1	30.7	31.5
37.5°	472.1	427.4	298.6	19.0	22.7	27.1	30.7	31.5
40°	429.6	319.1	134.7	17.6	22.7	27.1	30.7	32.2
42.5°	270.1	131.0	22.0	16.8	22.0	27.1	30.7	32.2
45°	98.8	17.6	11.7	16.8	22.0	26.3	30.7	32.2
47.5°	10.2	10.2	11.0	16.1	21.2	26.3	30.7	32.2
50°	9.5	10.2	11.0	15.4	20.5	26.3	30.0	32.2
52.5°	9.5	10.2	11.0	15.4	19.8	25.6	30.0	32.2
55°	9.5	10.2	10.2	14.6	19.0	24.9	29.3	30.7
57.5°	8.8	9.5	10.2	13.9	18.3	23.4	28.5	30.0
60°	8.8	9.5	10.2	12.4	17.6	22.0	27.1	27.8
62.5°	8.1	8.8	9.5	11.7	16.1	20.5	24.9	26.3
65°	8.1	8.1	8.8	10.2	14.6	18.3	22.7	24.2
67.5°	6.6	7.3	7.3	8.8	12.4	16.1	20.5	22.0
70°	5.9	5.9	6.6	8.1	11.0	13.9	17.6	19.0
72.5°	5.1	5.1	5.1	6.6	9.5	12.4	15.4	16.8
75°	4.4	4.4	4.4	5.1	8.1	10.2	13.2	13.9
77.5°	3.7	3.7	3.7	4.4	6.6	8.8	10.2	11.7
80°	2.9	2.9	2.9	3.7	5.1	6.6	8.1	8.8
82.5°	2.2	2.2	2.2	2.9	3.7	4.4	5.9	5.9
85°	1.5	1.5	1.5	2.2	2.2	2.9	3.7	3.7
87.5°	0.7	0.7	0.7	1.5	1.5	1.5	1.5	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)