

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: P1319747

Luminaire Tested: LDSQA3D02R709840DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319747
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: LDSQA3D02R709840DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

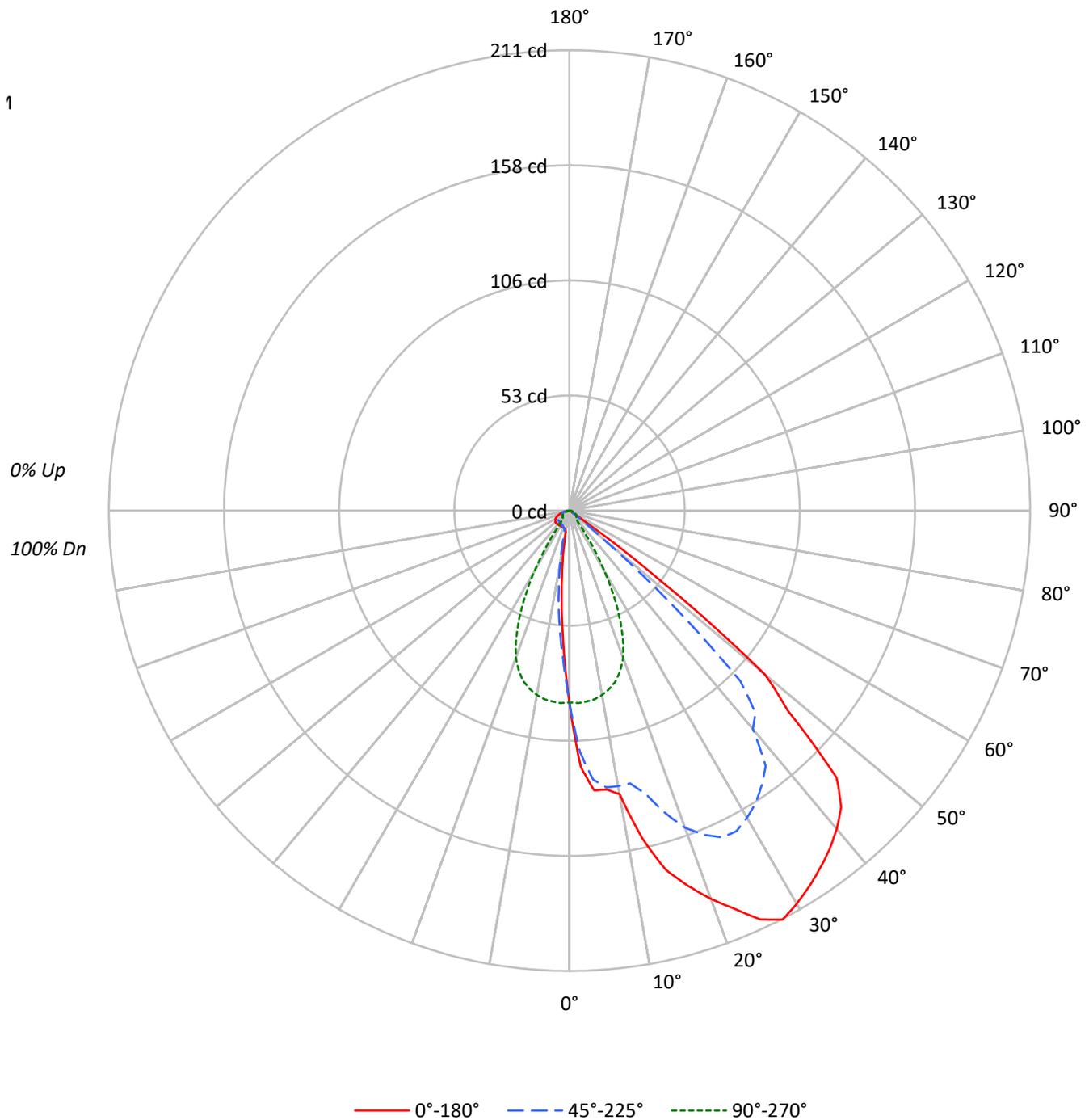
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 167.0 lumens
Efficiency: N/A
Efficacy: 46.4 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): 3.6
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	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	60	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°	15138	15138	15138	15138	15138
5°	22250	21385	15196	9076	7105
10°	23067	22437	15005	4337	1749
15°	30382	23928	14460	1551	1516
20°	34694	28334	13159	1485	1521
25°	39279	31392	10337	1444	1520
30°	41384	32336	6403	1432	1611
35°	42070	32273	2102	1472	1703
40°	42806	29362	1012	1574	1866
45°	42136	26962	1072	1656	2022
50°	31321	4984	1072	1822	2224
55°	2492	691	1141	1922	2402
60°	517	723	1102	1963	2480
65°	530	693	1100	1915	2567
70°	453	655	1057	1813	2467
75°	399	599	865	1797	2396
80°	397	595	893	1686	2281
85°	395	790	1186	1581	1778

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 42647 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.0	4.8
10°-20°	22.5	13.5
20°-30°	37.8	22.6
30°-40°	45.4	27.2
40°-50°	36.0	21.6
50°-60°	11.5	6.9
60°-70°	3.2	1.9
70°-80°	1.9	1.1
80°-90°	0.6	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°	68.3	40.9
0°-40°	113.7	68.1
0°-60°	161.3	96.6
0°-90°	167.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	167.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	88	88	88	88	88	
5°	129	124	88	52	41	12
15°	170	134	81	9	8	48
25°	207	165	54	8	8	95
35°	200	154	10	7	8	125
45°	173	111	4	7	8	124
55°	8	2	4	6	8	26
65°	1	2	3	5	6	1
75°	1	1	1	3	4	1
85°	0	0	1	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°	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
2.5°	117.3	118.1	118.1	117.1	117.5	116.0	114.8	113.1	112.7	110.7	108.0
5°	128.7	128.3	128.3	127.5	127.9	127.3	126.8	126.4	125.3	123.7	122.2
7.5°	128.9	129.2	129.4	129.2	130.0	129.4	129.4	129.4	128.7	127.9	126.4
10°	131.9	131.3	130.8	129.4	128.7	128.1	128.1	128.3	128.7	128.3	127.3
12.5°	153.7	151.6	150.6	147.4	145.0	140.8	136.1	132.5	129.2	128.1	127.3
15°	170.4	170.0	168.1	165.0	162.0	157.1	151.6	146.1	140.2	134.2	129.8
17.5°	180.2	179.5	177.6	174.3	170.7	166.2	161.8	157.7	152.0	145.2	138.1
20°	189.3	187.6	185.1	181.3	177.7	173.4	168.6	164.7	159.9	154.6	146.5
22.5°	197.5	195.9	192.0	186.8	183.2	179.1	174.9	171.1	166.8	160.7	153.3
25°	206.7	203.3	196.9	190.3	185.9	182.5	179.5	176.4	171.9	165.2	156.5
27.5°	211.3	206.5	199.5	192.9	188.7	185.1	181.9	178.9	173.8	165.6	155.6
30°	208.1	205.4	200.5	195.4	192.0	188.5	184.8	180.2	172.1	162.6	153.3
32.5°	204.3	202.9	200.7	197.6	195.6	192.1	186.8	179.5	168.1	158.8	148.8
35°	200.1	199.5	198.8	197.5	196.1	192.9	186.3	175.5	164.1	153.5	143.8
37.5°	195.7	195.2	195.7	195.6	194.4	190.3	180.2	170.2	158.4	147.6	128.9
40°	190.4	190.1	191.0	192.0	190.6	185.1	174.3	162.2	151.8	130.6	124.1
42.5°	184.2	184.0	185.7	186.5	184.6	176.4	163.7	154.8	132.8	126.0	110.9
45°	173.0	173.4	174.1	175.1	174.0	165.0	153.5	137.2	127.5	110.7	63.1
47.5°	135.5	135.9	139.7	147.6	153.1	150.1	140.2	128.1	114.1	63.3	19.9
50°	116.9	116.5	116.7	118.6	123.0	127.2	124.1	117.5	68.0	18.6	2.5
52.5°	51.4	57.0	63.1	80.2	91.1	102.7	105.0	73.5	22.2	2.5	2.5
55°	8.3	8.7	11.0	16.1	29.0	43.8	53.1	24.6	2.3	2.3	2.3
57.5°	1.7	1.7	1.7	1.9	2.8	6.1	7.0	2.1	2.1	2.1	2.3
60°	1.5	1.5	1.5	1.5	1.7	1.7	1.7	1.9	1.9	2.1	2.1
62.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.7	1.7	1.9	1.9	2.1
65°	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.7	1.7	1.9
67.5°	1.1	1.1	1.1	1.1	1.3	1.3	1.3	1.5	1.5	1.5	1.7
70°	0.9	0.9	0.9	0.9	1.1	1.1	1.1	1.1	1.3	1.3	1.3
72.5°	0.8	0.8	0.8	0.8	0.9	0.9	0.9	0.9	1.1	1.1	1.1
75°	0.6	0.6	0.8	0.8	0.8	0.8	0.8	0.8	0.9	0.9	0.9
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.8	0.8	0.8	0.8
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6	0.6
82.5°	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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°	87.9	87.9	87.9	87.9	87.9	87.9	87.9	87.9
2.5°	106.3	103.7	100.1	88.3	77.5	67.6	62.7	62.2
5°	119.8	117.3	111.2	87.9	67.3	52.5	43.6	41.1
7.5°	124.9	122.8	117.5	87.2	57.6	37.7	27.7	23.9
10°	126.2	124.9	120.3	85.8	47.6	24.8	13.1	10.0
12.5°	126.8	125.8	121.5	83.8	37.5	12.9	8.9	8.9
15°	127.7	126.8	122.6	81.1	27.7	8.7	8.5	8.5
17.5°	131.9	128.9	124.1	77.1	18.2	8.3	8.3	8.3
20°	138.7	132.1	124.9	71.8	11.4	8.1	8.1	8.3
22.5°	144.4	135.5	124.7	63.9	8.3	7.8	8.0	8.1
25°	146.9	137.0	123.0	54.4	7.2	7.6	8.0	8.0
27.5°	146.5	137.6	121.5	43.6	6.8	7.4	7.8	8.1
30°	144.4	136.1	118.1	32.2	6.4	7.2	7.8	8.1
32.5°	140.8	130.2	111.2	20.8	6.3	7.2	7.8	8.1
35°	129.0	120.7	101.4	10.0	6.1	7.0	8.0	8.1
37.5°	122.2	110.7	77.3	4.9	5.9	7.0	8.0	8.1
40°	111.2	82.6	34.9	4.5	5.9	7.0	8.0	8.3
42.5°	69.9	33.9	5.7	4.4	5.7	7.0	8.0	8.3
45°	25.6	4.5	3.0	4.4	5.7	6.8	8.0	8.3
47.5°	2.7	2.7	2.8	4.2	5.5	6.8	8.0	8.3
50°	2.5	2.7	2.8	4.0	5.3	6.8	7.8	8.3
52.5°	2.5	2.7	2.8	4.0	5.1	6.6	7.8	8.3
55°	2.5	2.7	2.7	3.8	4.9	6.4	7.6	8.0
57.5°	2.3	2.5	2.7	3.6	4.7	6.1	7.4	7.8
60°	2.3	2.5	2.7	3.2	4.5	5.7	7.0	7.2
62.5°	2.1	2.3	2.5	3.0	4.2	5.3	6.4	6.8
65°	2.1	2.1	2.3	2.7	3.8	4.7	5.9	6.3
67.5°	1.7	1.9	1.9	2.3	3.2	4.2	5.3	5.7
70°	1.5	1.5	1.7	2.1	2.8	3.6	4.5	4.9
72.5°	1.3	1.3	1.3	1.7	2.5	3.2	4.0	4.4
75°	1.1	1.1	1.1	1.3	2.1	2.7	3.4	3.6
77.5°	0.9	0.9	0.9	1.1	1.7	2.3	2.7	3.0
80°	0.8	0.8	0.8	0.9	1.3	1.7	2.1	2.3
82.5°	0.6	0.6	0.6	0.8	0.9	1.1	1.5	1.5
85°	0.4	0.4	0.4	0.6	0.6	0.8	0.9	0.9
87.5°	0.2	0.2	0.2	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

(END OF REPORT)