

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: P1312165

Luminaire Tested: LDSQA3D02R709050DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

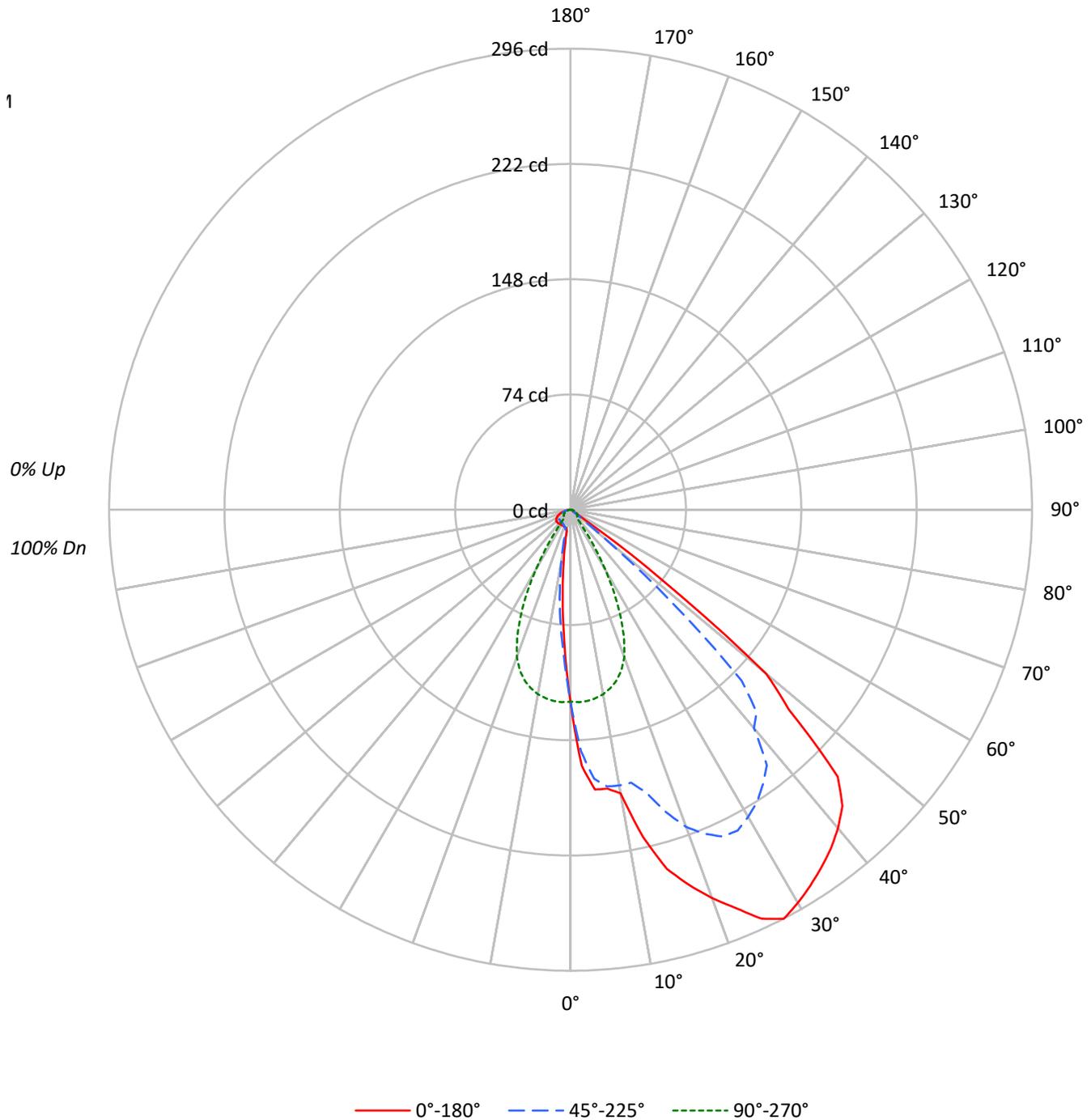
Test Method: LM-79-2019  
Report Number: P1312165  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R709050DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 234.0 lumens  
Efficiency: N/A  
Efficacy: 65.0 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 (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	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	61	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°	21218	21218	21218	21218	21218
5°	31170	29977	21299	12707	9958
10°	32318	31443	21038	6086	2466
15°	42560	33520	20255	2175	2122
20°	48623	39716	18438	2089	2144
25°	55051	43991	14480	2014	2128
30°	57969	45302	8969	2009	2267
35°	58953	45224	2964	2060	2397
40°	59982	41120	1439	2203	2630
45°	59039	37776	1486	2338	2850
50°	43887	6966	1500	2572	3135
55°	3513	961	1591	2702	3363
60°	723	999	1550	2756	3479
65°	774	978	1508	2690	3586
70°	655	957	1460	2518	3474
75°	532	865	1264	2462	3327
80°	496	793	1289	2380	3174
85°	593	988	1581	2174	2569

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 45°  
 Luminance: 59745 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	11.2	4.8
10°-20°	31.5	13.5
20°-30°	52.9	22.6
30°-40°	63.7	27.2
40°-50°	50.5	21.6
50°-60°	16.1	6.9
60°-70°	4.5	1.9
70°-80°	2.7	1.2
80°-90°	0.8	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°	95.7	40.9
0°-40°	159.3	68.1
0°-60°	226.0	96.6
0°-90°	234.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	234.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	123	123	123	123	123	
5°	180	173	123	74	58	17
15°	239	188	114	12	12	67
25°	290	232	76	11	11	132
35°	280	215	14	10	11	176
45°	242	155	6	10	12	174
55°	12	3	5	9	11	37
65°	2	2	4	7	9	2
75°	1	1	2	4	5	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°	123.2	123.2	123.2	123.2	123.2	123.2	123.2	123.2	123.2	123.2	123.2
2.5°	164.4	165.4	165.4	164.1	164.6	162.5	160.9	158.5	158.0	155.1	151.3
5°	180.3	179.8	179.8	178.7	179.2	178.4	177.6	177.1	175.5	173.4	171.3
7.5°	180.6	181.1	181.3	181.1	182.1	181.3	181.3	181.3	180.3	179.2	177.1
10°	184.8	184.0	183.2	181.3	180.3	179.5	179.5	179.8	180.3	179.8	178.4
12.5°	215.3	212.4	211.1	206.6	203.1	197.3	190.6	185.6	181.1	179.5	178.4
15°	238.7	238.2	235.5	231.3	227.0	220.1	212.4	204.7	196.5	188.0	181.9
17.5°	252.5	251.4	248.8	244.3	239.2	232.9	226.8	220.9	212.9	203.4	193.6
20°	265.3	262.9	259.4	254.1	249.1	242.9	236.3	230.7	224.1	216.7	205.2
22.5°	276.7	274.5	269.0	261.8	256.8	250.9	245.1	239.8	233.7	225.2	214.8
25°	289.7	284.9	275.9	266.6	260.5	255.7	251.4	247.2	240.8	231.5	219.3
27.5°	296.1	289.4	279.6	270.3	264.5	259.4	254.9	250.6	243.5	232.1	218.0
30°	291.5	287.8	280.9	273.7	269.0	264.2	258.9	252.5	241.1	227.8	214.8
32.5°	286.2	284.4	281.2	276.9	274.0	269.2	261.8	251.4	235.5	222.5	208.4
35°	280.4	279.6	278.5	276.7	274.8	270.3	261.0	245.9	229.9	215.1	201.5
37.5°	274.3	273.5	274.3	274.0	272.4	266.6	252.5	238.4	222.0	206.8	180.6
40°	266.8	266.3	267.6	269.0	267.1	259.4	244.3	227.3	212.7	182.9	173.9
42.5°	258.1	257.8	260.2	261.3	258.6	247.2	229.4	216.9	186.1	176.6	155.3
45°	242.4	242.9	244.0	245.3	243.7	231.3	215.1	192.2	178.7	155.1	88.4
47.5°	189.8	190.4	195.7	206.8	214.5	210.3	196.5	179.5	159.8	88.7	27.9
50°	163.8	163.3	163.6	166.2	172.3	178.2	173.9	164.6	95.3	26.0	3.5
52.5°	72.0	79.9	88.4	112.3	127.7	143.9	147.1	103.0	31.1	3.5	3.5
55°	11.7	12.2	15.4	22.6	40.6	61.3	74.3	34.5	3.2	3.2	3.2
57.5°	2.4	2.4	2.4	2.7	4.0	8.5	9.8	2.9	2.9	2.9	3.2
60°	2.1	2.1	2.1	2.1	2.4	2.4	2.4	2.7	2.7	2.9	2.9
62.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.4	2.4	2.7	2.7	2.9
65°	1.9	1.9	1.9	1.9	2.1	2.1	2.1	2.1	2.4	2.4	2.7
67.5°	1.6	1.6	1.6	1.6	1.9	1.9	1.9	2.1	2.1	2.1	2.4
70°	1.3	1.3	1.3	1.3	1.6	1.6	1.6	1.6	1.9	1.9	1.9
72.5°	1.1	1.1	1.1	1.1	1.3	1.3	1.3	1.3	1.6	1.6	1.6
75°	0.8	0.8	1.1	1.1	1.1	1.1	1.1	1.1	1.3	1.3	1.3
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.1	1.1	1.1	1.1
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.8	0.8
82.5°	0.3	0.3	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5	0.5
87.5°	0.0	0.0	0.0	0.0	0.3	0.3	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°	123.2	123.2	123.2	123.2	123.2	123.2	123.2	123.2
2.5°	149.0	145.2	140.2	123.7	108.6	94.8	87.9	87.1
5°	167.8	164.4	155.9	123.2	94.3	73.5	61.1	57.6
7.5°	175.0	172.1	164.6	122.1	80.7	52.8	38.8	33.5
10°	176.8	175.0	168.6	120.3	66.6	34.8	18.3	14.1
12.5°	177.6	176.3	170.2	117.4	52.6	18.1	12.5	12.5
15°	179.0	177.6	171.8	113.6	38.8	12.2	11.9	11.9
17.5°	184.8	180.6	173.9	108.1	25.5	11.7	11.7	11.7
20°	194.4	185.1	175.0	100.6	15.9	11.4	11.4	11.7
22.5°	202.3	189.8	174.7	89.5	11.7	10.9	11.2	11.4
25°	205.8	192.0	172.3	76.2	10.1	10.6	11.2	11.2
27.5°	205.2	192.8	170.2	61.1	9.6	10.4	10.9	11.4
30°	202.3	190.6	165.4	45.1	9.0	10.1	10.9	11.4
32.5°	197.3	182.4	155.9	29.2	8.8	10.1	10.9	11.4
35°	180.8	169.1	142.1	14.1	8.5	9.8	11.2	11.4
37.5°	171.3	155.1	108.3	6.9	8.2	9.8	11.2	11.4
40°	155.9	115.8	48.9	6.4	8.2	9.8	11.2	11.7
42.5°	98.0	47.5	8.0	6.1	8.0	9.8	11.2	11.7
45°	35.8	6.4	4.2	6.1	8.0	9.6	11.2	11.7
47.5°	3.7	3.7	4.0	5.8	7.7	9.6	11.2	11.7
50°	3.5	3.7	4.0	5.6	7.4	9.6	10.9	11.7
52.5°	3.5	3.7	4.0	5.6	7.2	9.3	10.9	11.7
55°	3.5	3.7	3.7	5.3	6.9	9.0	10.6	11.2
57.5°	3.2	3.5	3.7	5.0	6.6	8.5	10.4	10.9
60°	3.2	3.5	3.7	4.5	6.4	8.0	9.8	10.1
62.5°	2.9	3.2	3.5	4.2	5.8	7.4	9.0	9.6
65°	2.9	2.9	3.2	3.7	5.3	6.6	8.2	8.8
67.5°	2.4	2.7	2.7	3.2	4.5	5.8	7.4	8.0
70°	2.1	2.1	2.4	2.9	4.0	5.0	6.4	6.9
72.5°	1.9	1.9	1.9	2.4	3.5	4.5	5.6	6.1
75°	1.6	1.6	1.6	1.9	2.9	3.7	4.8	5.0
77.5°	1.3	1.3	1.3	1.6	2.4	3.2	3.7	4.2
80°	1.1	1.1	1.1	1.3	1.9	2.4	2.9	3.2
82.5°	0.8	0.8	0.8	1.1	1.3	1.6	2.1	2.1
85°	0.5	0.5	0.5	0.8	0.8	1.1	1.3	1.3
87.5°	0.3	0.3	0.3	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)