

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: P1314401

Luminaire Tested: LDSQA3D05R709730DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

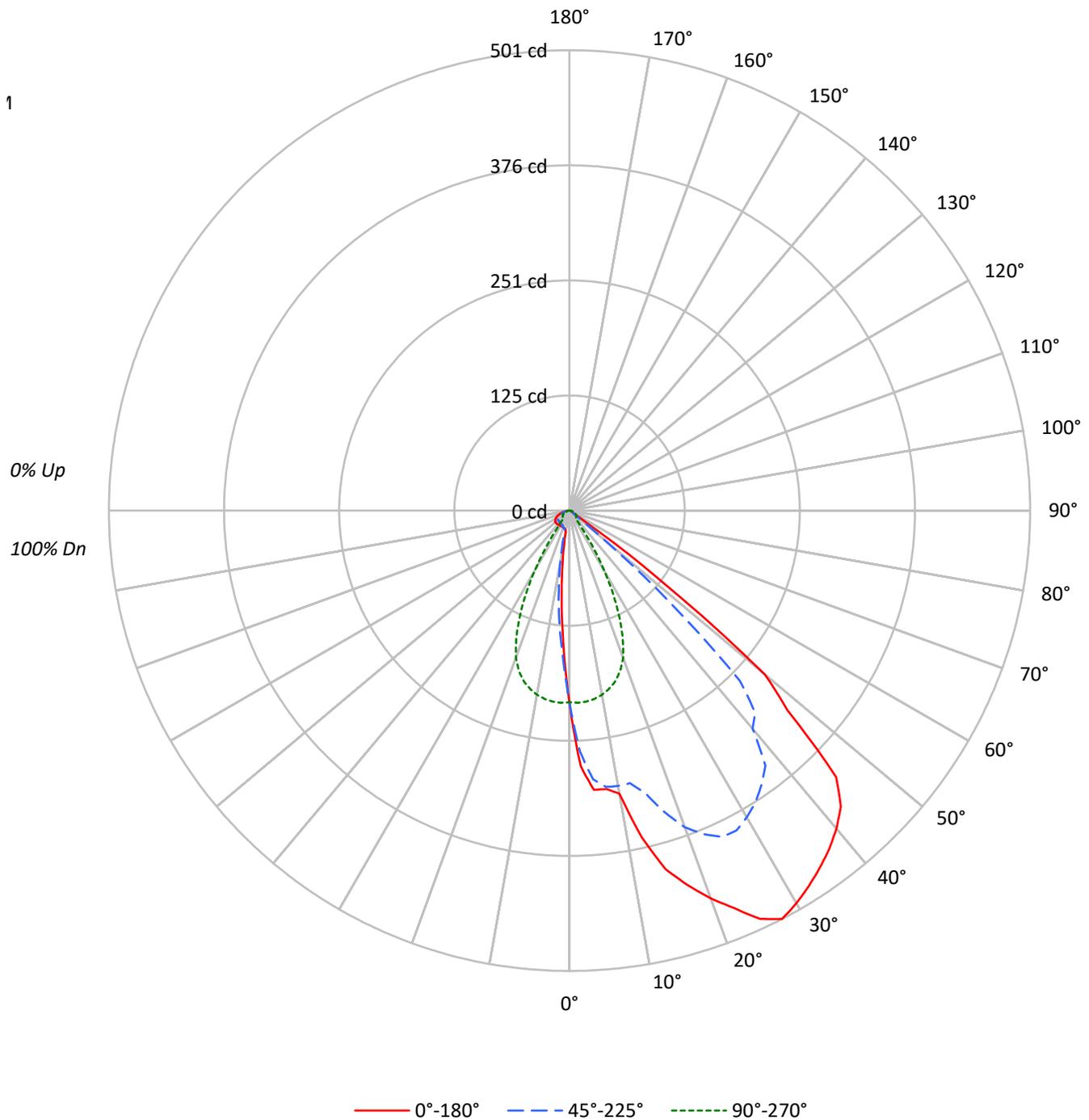
Test Method: LM-79-2019  
Report Number: P1314401  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R709730DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 395.9 lumens  
Efficiency: N/A  
Efficacy: 55.0 lumens/watt  
Spacing Criteria (0/90/45): 1.7 / 0.89 / 1.39  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 7.2  
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	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	87	84	82	80
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	80	76	73	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	73	69	65	64
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	63	59	67	63	59	57
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	62	57	53	51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	57	52	48	46
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	44	53	47	44	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	49	44	40	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	45	40	36	35

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	35908	35908	35908	35908	35908
5°	52746	50723	36046	21524	16856
10°	54685	53198	35588	10300	4162
15°	72032	56717	34287	3691	3602
20°	82272	67207	31212	3537	3629
25°	93151	74452	24513	3420	3592
30°	98120	76663	15193	3401	3838
35°	99761	76529	5004	3490	4058
40°	101529	69604	2428	3732	4451
45°	99908	63910	2509	3946	4822
50°	74270	11789	2519	4340	5305
55°	5945	1621	2702	4594	5675
60°	1240	1688	2618	4650	5890
65°	1263	1630	2567	4564	6031
70°	1108	1561	2467	4280	5891
75°	865	1464	2063	4192	5656
80°	893	1289	2182	3967	5356
85°	790	1778	2569	3557	4347

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 45°  
 Luminance: 101126 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.0	4.8
10°-20°	53.4	13.5
20°-30°	89.6	22.6
30°-40°	107.7	27.2
40°-50°	85.4	21.6
50°-60°	27.3	6.9
60°-70°	7.6	1.9
70°-80°	4.5	1.1
80°-90°	1.4	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°	161.9	40.9
0°-40°	269.7	68.1
0°-60°	382.4	96.6
0°-90°	395.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	395.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	208	208	208	208	208	
5°	305	293	208	124	98	29
15°	404	318	192	21	20	114
25°	490	392	129	18	19	224
35°	474	364	24	17	19	297
45°	410	262	10	16	20	295
55°	20	5	9	15	19	62
65°	3	4	6	11	15	3
75°	1	2	3	6	8	2
85°	0	1	1	2	2	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°	208.5	208.5	208.5	208.5	208.5	208.5	208.5	208.5	208.5	208.5	208.5
2.5°	278.1	279.9	279.9	277.7	278.6	275.0	272.3	268.3	267.4	262.4	256.1
5°	305.1	304.2	304.2	302.4	303.3	302.0	300.6	299.7	297.0	293.4	289.8
7.5°	305.5	306.4	306.9	306.4	308.2	306.9	306.9	306.9	305.1	303.3	299.7
10°	312.7	311.4	310.0	306.9	305.1	303.8	303.8	304.2	305.1	304.2	302.0
12.5°	364.4	359.5	357.2	349.6	343.7	333.9	322.6	314.1	306.4	303.8	302.0
15°	404.0	403.1	398.6	391.4	384.2	372.5	359.5	346.4	332.5	318.1	307.8
17.5°	427.3	425.5	421.0	413.4	404.9	394.1	383.7	373.8	360.4	344.2	327.6
20°	448.9	444.8	439.0	430.0	421.5	411.1	399.9	390.5	379.2	366.7	347.3
22.5°	468.2	464.6	455.2	443.0	434.5	424.6	414.7	405.8	395.4	381.0	363.5
25°	490.2	482.1	466.9	451.1	440.8	432.7	425.5	418.3	407.5	391.8	371.2
27.5°	501.0	489.8	473.2	457.4	447.5	439.0	431.4	424.2	412.0	392.7	368.9
30°	493.4	487.1	475.4	463.3	455.2	447.1	438.1	427.3	408.0	385.5	363.5
32.5°	484.4	481.2	475.8	468.7	463.7	455.6	443.0	425.5	398.6	376.5	352.7
35°	474.5	473.2	471.4	468.2	465.1	457.4	441.7	416.1	389.1	364.0	341.0
37.5°	464.2	462.8	464.2	463.7	461.0	451.1	427.3	403.5	375.6	350.0	305.5
40°	451.6	450.7	452.9	455.2	452.0	439.0	413.4	384.6	359.9	309.6	294.3
42.5°	436.8	436.3	440.4	442.1	437.7	418.3	388.2	367.1	315.0	298.8	262.9
45°	410.2	411.1	412.9	415.2	412.5	391.4	364.0	325.3	302.4	262.4	149.6
47.5°	321.3	322.2	331.2	350.0	363.1	355.9	332.5	303.8	270.5	150.1	47.2
50°	277.2	276.3	276.8	281.3	291.6	301.5	294.3	278.6	161.3	44.0	5.8
52.5°	121.8	135.3	149.6	190.1	216.1	243.5	248.9	174.3	52.6	5.8	5.8
55°	19.8	20.7	26.1	38.2	68.7	103.8	125.8	58.4	5.4	5.4	5.4
57.5°	4.0	4.0	4.0	4.5	6.7	14.4	16.6	4.9	4.9	4.9	5.4
60°	3.6	3.6	3.6	3.6	4.0	4.0	4.0	4.5	4.5	4.9	4.9
62.5°	3.6	3.6	3.6	3.6	3.6	3.6	4.0	4.0	4.5	4.5	4.9
65°	3.1	3.1	3.1	3.1	3.6	3.6	3.6	3.6	4.0	4.0	4.5
67.5°	2.7	2.7	2.7	2.7	3.1	3.1	3.1	3.6	3.6	3.6	4.0
70°	2.2	2.2	2.2	2.2	2.7	2.7	2.7	2.7	3.1	3.1	3.1
72.5°	1.8	1.8	1.8	1.8	2.2	2.2	2.2	2.2	2.7	2.7	2.7
75°	1.3	1.3	1.8	1.8	1.8	1.8	1.8	1.8	2.2	2.2	2.2
77.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.8	1.8	1.8	1.8
80°	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.3	1.3	1.3	1.3
82.5°	0.4	0.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.4	0.4	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	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°	208.5	208.5	208.5	208.5	208.5	208.5	208.5	208.5
2.5°	252.1	245.8	237.3	209.4	183.8	160.4	148.7	147.4
5°	284.0	278.1	263.8	208.5	159.5	124.5	103.3	97.5
7.5°	296.1	291.2	278.6	206.7	136.6	89.4	65.6	56.6
10°	299.3	296.1	285.3	203.5	112.8	58.9	31.0	23.8
12.5°	300.6	298.4	288.0	198.6	89.0	30.6	21.1	21.1
15°	302.9	300.6	290.7	192.3	65.6	20.7	20.2	20.2
17.5°	312.7	305.5	294.3	182.9	43.1	19.8	19.8	19.8
20°	328.9	313.2	296.1	170.3	27.0	19.3	19.3	19.8
22.5°	342.4	321.3	295.7	151.4	19.8	18.4	18.9	19.3
25°	348.2	324.9	291.6	129.0	17.1	18.0	18.9	18.9
27.5°	347.3	326.2	288.0	103.3	16.2	17.5	18.4	19.3
30°	342.4	322.6	279.9	76.4	15.3	17.1	18.4	19.3
32.5°	333.9	308.7	263.8	49.4	14.8	17.1	18.4	19.3
35°	306.0	286.2	240.4	23.8	14.4	16.6	18.9	19.3
37.5°	289.8	262.4	183.3	11.7	13.9	16.6	18.9	19.3
40°	263.8	195.9	82.7	10.8	13.9	16.6	18.9	19.8
42.5°	165.8	80.4	13.5	10.3	13.5	16.6	18.9	19.8
45°	60.7	10.8	7.2	10.3	13.5	16.2	18.9	19.8
47.5°	6.3	6.3	6.7	9.9	13.0	16.2	18.9	19.8
50°	5.8	6.3	6.7	9.4	12.6	16.2	18.4	19.8
52.5°	5.8	6.3	6.7	9.4	12.1	15.7	18.4	19.8
55°	5.8	6.3	6.3	9.0	11.7	15.3	18.0	18.9
57.5°	5.4	5.8	6.3	8.5	11.2	14.4	17.5	18.4
60°	5.4	5.8	6.3	7.6	10.8	13.5	16.6	17.1
62.5°	4.9	5.4	5.8	7.2	9.9	12.6	15.3	16.2
65°	4.9	4.9	5.4	6.3	9.0	11.2	13.9	14.8
67.5°	4.0	4.5	4.5	5.4	7.6	9.9	12.6	13.5
70°	3.6	3.6	4.0	4.9	6.7	8.5	10.8	11.7
72.5°	3.1	3.1	3.1	4.0	5.8	7.6	9.4	10.3
75°	2.7	2.7	2.7	3.1	4.9	6.3	8.1	8.5
77.5°	2.2	2.2	2.2	2.7	4.0	5.4	6.3	7.2
80°	1.8	1.8	1.8	2.2	3.1	4.0	4.9	5.4
82.5°	1.3	1.3	1.3	1.8	2.2	2.7	3.6	3.6
85°	0.9	0.9	0.9	1.3	1.3	1.8	2.2	2.2
87.5°	0.4	0.4	0.4	0.9	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)