

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: P1310116

Luminaire Tested: LDSQA3D05R709035DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

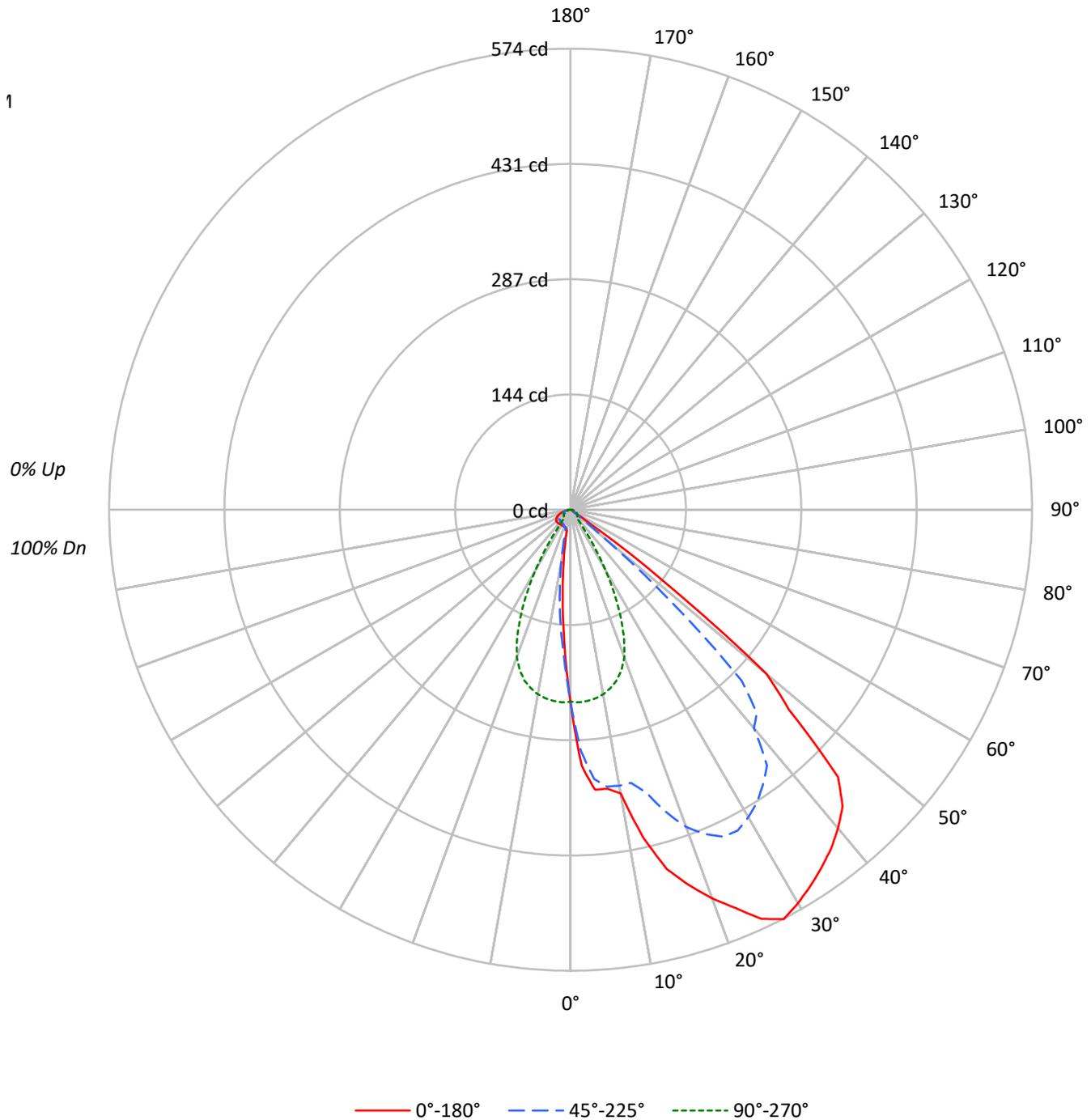
Test Method: LM-79-2019  
Report Number: P1310116  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R709035DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 454.0 lumens  
Efficiency: N/A  
Efficacy: 63.1 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 (A<sub>in</sub>): 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°	41161	41161	41161	41161	41161
5°	60474	58157	41318	24670	19328
10°	62694	60998	40817	11804	4774
15°	82570	65025	39315	4226	4137
20°	94314	77049	35775	4069	4160
25°	106795	85360	28086	3915	4105
30°	112478	87899	17421	3898	4415
35°	114373	87735	5740	4016	4667
40°	116390	79789	2788	4294	5103
45°	114546	73263	2874	4506	5529
50°	85148	13531	2894	4957	6082
55°	6816	1862	3093	5255	6486
60°	1412	1963	3031	5339	6751
65°	1467	1875	2934	5257	6928
70°	1309	1813	2870	4935	6748
75°	998	1730	2396	4791	6521
80°	992	1488	2579	4562	6149
85°	988	1976	2964	4150	5138

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 45°  
 Luminance: 115934 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	21.8	4.8
10°-20°	61.2	13.5
20°-30°	102.7	22.6
30°-40°	123.5	27.2
40°-50°	97.9	21.6
50°-60°	31.3	6.9
60°-70°	8.8	1.9
70°-80°	5.2	1.2
80°-90°	1.6	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°	185.6	40.9
0°-40°	309.2	68.1
0°-60°	438.4	96.6
0°-90°	454.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	454.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	239	239	239	239	239	
5°	350	336	239	143	112	33
15°	463	365	220	24	23	130
25°	562	449	148	21	22	257
35°	544	417	27	19	22	341
45°	470	301	12	18	23	338
55°	23	6	10	18	22	71
65°	4	5	7	13	17	4
75°	2	3	4	7	10	2
85°	0	1	2	2	3	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°	239.0	239.0	239.0	239.0	239.0	239.0	239.0	239.0	239.0	239.0	239.0
2.5°	318.9	320.9	320.9	318.4	319.4	315.3	312.2	307.5	306.5	300.8	293.6
5°	349.8	348.8	348.8	346.7	347.7	346.2	344.6	343.6	340.5	336.4	332.3
7.5°	350.3	351.3	351.8	351.3	353.4	351.8	351.8	351.8	349.8	347.7	343.6
10°	358.5	357.0	355.5	351.8	349.8	348.2	348.2	348.8	349.8	348.8	346.2
12.5°	417.8	412.1	409.5	400.8	394.1	382.8	369.9	360.1	351.3	348.2	346.2
15°	463.1	462.1	456.9	448.7	440.5	427.1	412.1	397.2	381.2	364.7	352.9
17.5°	489.9	487.8	482.7	473.9	464.1	451.8	439.9	428.6	413.1	394.6	375.5
20°	514.6	510.0	503.3	493.0	483.2	471.4	458.5	447.7	434.8	420.4	398.2
22.5°	536.8	532.7	521.8	507.9	498.1	486.8	475.5	465.2	453.3	436.8	416.8
25°	562.0	552.8	535.2	517.2	505.4	496.1	487.8	479.6	467.2	449.2	425.5
27.5°	574.4	561.5	542.5	524.4	513.1	503.3	494.5	486.3	472.4	450.2	422.9
30°	565.6	558.4	545.0	531.1	521.8	512.6	502.3	489.9	467.8	442.0	416.8
32.5°	555.3	551.7	545.5	537.3	531.6	522.4	507.9	487.8	456.9	431.7	404.4
35°	544.0	542.5	540.4	536.8	533.2	524.4	506.4	477.0	446.1	417.3	391.0
37.5°	532.1	530.6	532.1	531.6	528.5	517.2	489.9	462.6	430.7	401.3	350.3
40°	517.7	516.7	519.3	521.8	518.2	503.3	473.9	441.0	412.6	354.9	337.4
42.5°	500.7	500.2	504.8	506.9	501.8	479.6	445.1	420.9	361.1	342.6	301.4
45°	470.3	471.4	473.4	476.0	472.9	448.7	417.3	373.0	346.7	300.8	171.5
47.5°	368.3	369.4	379.7	401.3	416.2	408.0	381.2	348.2	310.1	172.1	54.1
50°	317.8	316.8	317.3	322.5	334.3	345.7	337.4	319.4	184.9	50.5	6.7
52.5°	139.6	155.1	171.5	217.9	247.8	279.2	285.4	199.9	60.3	6.7	6.7
55°	22.7	23.7	29.9	43.8	78.8	119.0	144.2	67.0	6.2	6.2	6.2
57.5°	4.6	4.6	4.6	5.2	7.7	16.5	19.1	5.7	5.7	5.7	6.2
60°	4.1	4.1	4.1	4.1	4.6	4.6	4.6	5.2	5.2	5.7	5.7
62.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.6	4.6	5.2	5.2	5.7
65°	3.6	3.6	3.6	3.6	4.1	4.1	4.1	4.1	4.6	4.6	5.2
67.5°	3.1	3.1	3.1	3.1	3.6	3.6	3.6	4.1	4.1	4.1	4.6
70°	2.6	2.6	2.6	2.6	3.1	3.1	3.1	3.1	3.6	3.6	3.6
72.5°	2.1	2.1	2.1	2.1	2.6	2.6	2.6	2.6	3.1	3.1	3.1
75°	1.5	1.5	2.1	2.1	2.1	2.1	2.1	2.1	2.6	2.6	2.6
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	2.1	2.1	2.1	2.1
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5	1.5	1.5
82.5°	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.5	0.5	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	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°	239.0	239.0	239.0	239.0	239.0	239.0	239.0	239.0
2.5°	289.0	281.8	272.0	240.1	210.7	183.9	170.5	169.0
5°	325.6	318.9	302.4	239.0	182.9	142.7	118.5	111.8
7.5°	339.5	333.8	319.4	237.0	156.6	102.5	75.2	64.9
10°	343.1	339.5	327.1	233.4	129.3	67.5	35.5	27.3
12.5°	344.6	342.1	330.2	227.7	102.0	35.0	24.2	24.2
15°	347.2	344.6	333.3	220.5	75.2	23.7	23.2	23.2
17.5°	358.5	350.3	337.4	209.7	49.5	22.7	22.7	22.7
20°	377.1	359.1	339.5	195.2	30.9	22.2	22.2	22.7
22.5°	392.5	368.3	339.0	173.6	22.7	21.1	21.6	22.2
25°	399.2	372.5	334.3	147.8	19.6	20.6	21.6	21.6
27.5°	398.2	374.0	330.2	118.5	18.5	20.1	21.1	22.2
30°	392.5	369.9	320.9	87.6	17.5	19.6	21.1	22.2
32.5°	382.8	353.9	302.4	56.7	17.0	19.6	21.1	22.2
35°	350.8	328.2	275.6	27.3	16.5	19.1	21.6	22.2
37.5°	332.3	300.8	210.2	13.4	16.0	19.1	21.6	22.2
40°	302.4	224.6	94.8	12.4	16.0	19.1	21.6	22.7
42.5°	190.1	92.2	15.5	11.8	15.5	19.1	21.6	22.7
45°	69.5	12.4	8.2	11.8	15.5	18.5	21.6	22.7
47.5°	7.2	7.2	7.7	11.3	14.9	18.5	21.6	22.7
50°	6.7	7.2	7.7	10.8	14.4	18.5	21.1	22.7
52.5°	6.7	7.2	7.7	10.8	13.9	18.0	21.1	22.7
55°	6.7	7.2	7.2	10.3	13.4	17.5	20.6	21.6
57.5°	6.2	6.7	7.2	9.8	12.9	16.5	20.1	21.1
60°	6.2	6.7	7.2	8.8	12.4	15.5	19.1	19.6
62.5°	5.7	6.2	6.7	8.2	11.3	14.4	17.5	18.5
65°	5.7	5.7	6.2	7.2	10.3	12.9	16.0	17.0
67.5°	4.6	5.2	5.2	6.2	8.8	11.3	14.4	15.5
70°	4.1	4.1	4.6	5.7	7.7	9.8	12.4	13.4
72.5°	3.6	3.6	3.6	4.6	6.7	8.8	10.8	11.8
75°	3.1	3.1	3.1	3.6	5.7	7.2	9.3	9.8
77.5°	2.6	2.6	2.6	3.1	4.6	6.2	7.2	8.2
80°	2.1	2.1	2.1	2.6	3.6	4.6	5.7	6.2
82.5°	1.5	1.5	1.5	2.1	2.6	3.1	4.1	4.1
85°	1.0	1.0	1.0	1.5	1.5	2.1	2.6	2.6
87.5°	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)