

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: P1307874

Luminaire Tested: LDSQA3D05R659027DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

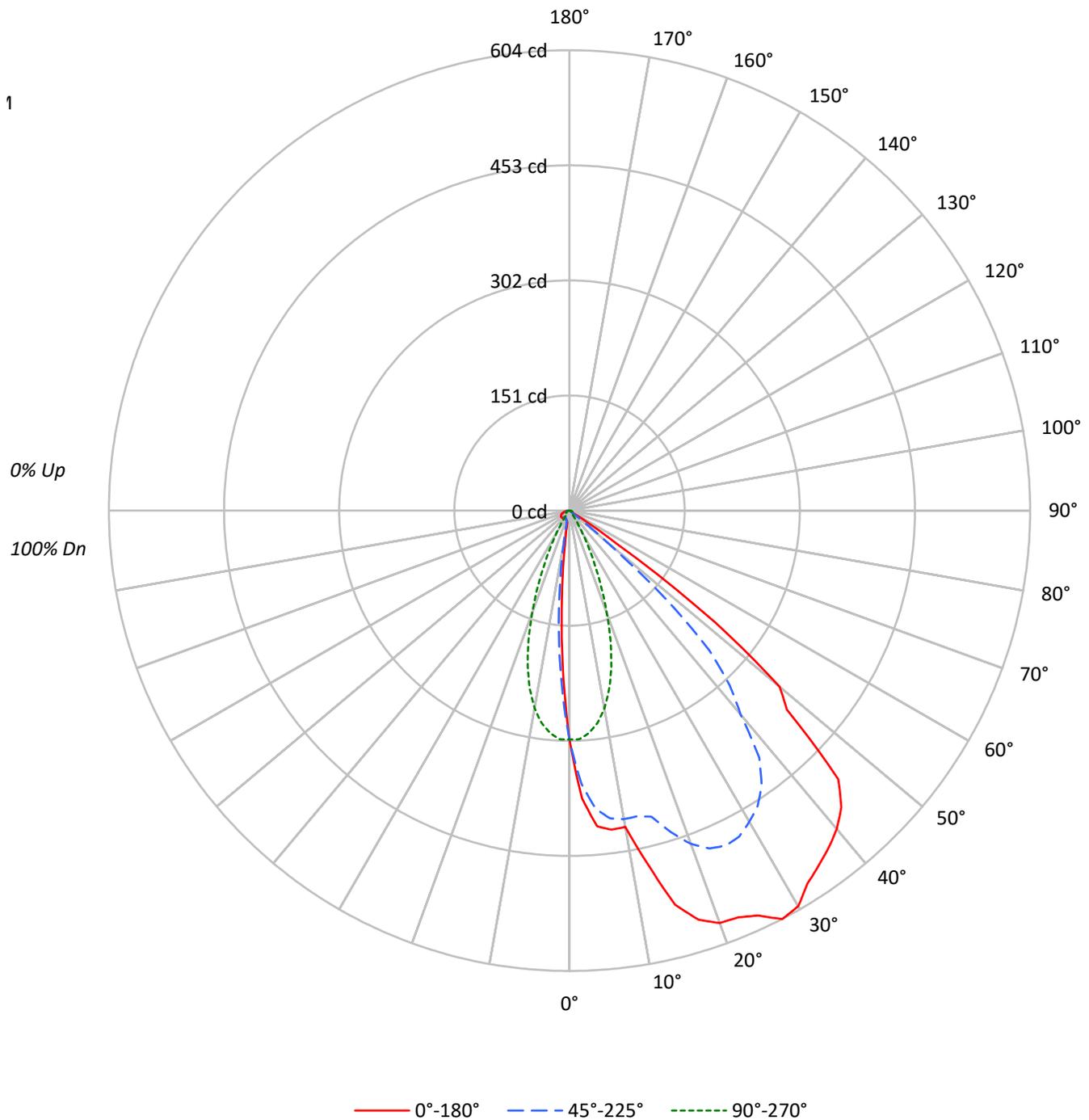
Test Method: LM-79-2019  
Report Number: P1307874  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-68)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R659027DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R65 optic, 2700K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 450.0 lumens  
Efficiency: N/A  
Efficacy: 62.5 lumens/watt  
Spacing Criteria (0/90/45): 1.47 / 0.64 / 1.22  
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	100	
1	112	109	106	103	110	106	104	101	102	100	98	99	97	95	95	94	92	95	90	
2	105	99	94	90	102	97	92	88	94	90	87	91	87	85	88	85	83	88	81	
3	98	90	84	79	96	88	83	78	86	81	77	83	79	75	81	77	74	81	72	
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	74	65	
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	58	
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	63	53	
7	74	63	56	50	73	62	55	50	61	54	50	59	54	50	58	53	49	58	48	
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	54	43	
9	65	54	47	42	64	53	46	42	52	46	41	51	45	41	50	45	41	50	40	
10	62	50	43	38	60	49	43	38	48	42	38	48	42	38	47	42	38	47	36	

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

	0°	45°	90°	135°	180°
0°	51701	51701	51701	51701	51701
5°	71866	67838	50602	27816	19570
10°	73677	71893	46046	7765	2868
15°	95461	74118	37692	2496	2425
20°	105512	85278	26227	2236	2309
25°	111356	92144	14841	2128	2318
30°	119220	93745	6702	2148	2426
35°	119650	92319	2166	2271	2649
40°	122595	78440	1461	2428	2945
45°	121414	63204	1486	2630	3191
50°	96348	14897	1500	2894	3644
55°	22880	841	1531	3243	4084
60°	792	964	1757	3376	4340
65°	937	937	1712	3627	4768
70°	705	957	1662	3525	4935
75°	599	932	1530	3726	4991
80°	496	893	1884	3670	5058
85°	988	1778	1778	3754	4545

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 10°  
 Vertical Angle: 45°  
 Luminance: 121634 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	25.1	5.6
10°-20°	66.0	14.7
20°-30°	103.6	23.0
30°-40°	118.6	26.4
40°-50°	95.3	21.2
50°-60°	31.0	6.9
60°-70°	5.5	1.2
70°-80°	3.6	0.8
80°-90°	1.3	0.3
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°	194.7	43.3
0°-40°	313.3	69.6
0°-60°	439.6	97.7
0°-90°	450.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	450.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	300	300	300	300	300	
5°	416	392	293	161	113	39
15°	535	416	211	14	14	149
25°	586	485	78	11	12	273
35°	569	439	10	11	13	357
45°	498	260	6	11	13	359
55°	76	3	5	11	14	109
65°	2	2	4	9	12	2
75°	1	1	2	6	8	1
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°	300.2	300.2	300.2	300.2	300.2	300.2	300.2	300.2	300.2	300.2	300.2
2.5°	377.9	376.5	378.3	375.0	374.6	371.3	369.4	368.5	364.3	358.7	353.5
5°	415.7	410.1	411.5	411.1	408.7	407.3	405.4	403.1	397.5	392.4	385.8
7.5°	422.3	417.6	418.5	419.0	417.6	417.1	416.7	415.7	412.0	407.3	401.7
10°	421.3	416.7	416.2	414.8	413.4	413.9	413.9	413.9	412.9	411.1	409.2
12.5°	475.6	469.0	467.6	457.8	448.9	433.5	423.7	414.3	410.1	410.6	409.2
15°	535.4	535.0	530.3	521.0	506.0	492.0	469.5	452.7	431.2	415.7	409.2
17.5°	562.6	562.1	557.9	549.9	539.2	526.1	509.7	490.1	466.2	442.4	422.7
20°	575.7	578.9	574.3	567.7	557.4	545.3	529.8	512.1	489.6	465.3	441.9
22.5°	577.5	581.7	577.5	572.9	565.4	557.4	544.3	526.1	503.2	479.8	456.9
25°	586.0	587.4	578.5	572.4	565.4	559.8	549.5	533.6	510.2	484.9	462.5
27.5°	604.2	598.1	579.4	571.0	564.4	559.3	549.5	533.1	507.9	482.1	458.8
30°	599.5	597.2	580.8	572.9	567.2	562.1	549.9	528.9	498.5	471.4	447.1
32.5°	580.3	585.0	579.4	576.6	573.8	567.2	549.5	521.0	486.8	459.2	426.5
35°	569.1	574.7	575.2	575.2	571.9	562.1	541.1	509.3	475.1	439.1	395.2
37.5°	557.9	562.6	565.4	567.2	562.6	548.5	521.9	493.4	456.0	408.7	331.6
40°	545.3	548.5	550.9	551.8	544.8	526.6	502.2	470.0	427.9	348.9	296.0
42.5°	527.5	529.4	528.9	528.4	521.0	500.8	477.9	444.3	361.0	311.0	246.9
45°	498.5	496.6	499.4	499.4	489.6	474.7	444.3	378.8	323.1	259.5	159.0
47.5°	386.3	387.7	401.2	423.2	436.8	432.6	391.4	331.6	271.7	170.2	52.8
50°	359.6	358.2	358.7	361.0	362.4	350.7	321.3	280.1	179.6	55.6	3.7
52.5°	241.3	242.7	253.5	278.2	286.2	277.8	249.7	187.1	65.5	3.7	3.3
55°	76.2	81.4	87.4	100.5	123.5	138.0	135.1	66.4	4.2	2.8	3.3
57.5°	2.8	2.8	3.7	6.5	12.6	20.6	21.5	4.2	3.3	3.3	3.3
60°	2.3	2.3	2.3	2.3	2.3	2.3	2.8	2.8	2.8	2.8	2.8
62.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.8	2.8	2.8	2.8
65°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.8
67.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.3	2.3	2.3	2.3
70°	1.4	1.4	1.4	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.3
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.9	1.9	1.9
75°	0.9	0.9	0.9	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4	1.4	1.4
80°	0.5	0.5	0.5	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.4
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9	0.9
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9	0.9
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°	300.2	300.2	300.2	300.2	300.2	300.2	300.2	300.2
2.5°	350.7	345.1	333.9	300.2	265.2	230.1	208.1	202.5
5°	378.3	371.8	355.9	292.7	221.7	160.9	126.3	113.2
7.5°	395.2	387.2	368.5	281.1	172.6	93.5	56.1	44.9
10°	402.6	395.6	374.6	263.3	124.9	44.4	19.6	16.4
12.5°	405.9	400.3	376.9	239.9	81.4	19.6	14.5	14.0
15°	407.3	401.2	376.0	211.4	46.3	14.0	13.6	13.6
17.5°	408.7	401.7	370.4	178.6	25.7	13.1	12.6	13.1
20°	419.9	399.8	360.6	143.1	16.8	12.2	12.2	12.6
22.5°	431.2	399.4	343.2	109.4	13.1	11.7	12.2	12.2
25°	434.9	394.7	321.3	78.1	11.2	11.2	11.7	12.2
27.5°	427.9	381.1	291.8	52.8	9.8	11.2	11.7	12.2
30°	411.5	358.2	256.3	33.7	9.4	10.8	11.7	12.2
32.5°	381.1	312.9	216.5	20.1	8.9	10.8	12.2	12.2
35°	320.3	262.3	171.6	10.3	8.9	10.8	12.2	12.6
37.5°	280.1	218.9	119.7	7.0	8.9	10.8	12.2	12.6
40°	232.4	158.1	50.0	6.5	8.9	10.8	12.2	13.1
42.5°	160.9	68.7	7.9	6.1	8.4	10.8	12.6	13.1
45°	58.0	8.9	3.7	6.1	8.4	10.8	12.6	13.1
47.5°	5.1	3.3	3.7	6.1	8.4	10.8	12.6	13.6
50°	3.3	3.3	3.3	5.6	8.4	10.8	12.6	13.6
52.5°	3.3	3.3	3.3	5.6	7.9	10.8	13.1	13.6
55°	3.3	3.3	3.3	5.1	7.9	10.8	12.6	13.6
57.5°	3.3	3.3	3.7	5.1	7.9	10.3	12.6	13.1
60°	3.3	3.3	3.3	5.1	7.5	9.8	12.2	12.6
62.5°	2.8	3.3	3.3	4.7	7.0	9.4	11.7	12.2
65°	2.8	2.8	3.3	4.2	6.5	8.9	10.8	11.7
67.5°	2.3	2.8	2.8	3.7	5.6	7.9	9.8	10.8
70°	2.3	2.3	2.3	3.3	5.1	7.0	9.4	9.8
72.5°	1.9	2.3	2.3	2.8	4.2	6.1	7.9	8.9
75°	1.9	1.9	1.9	2.3	3.7	5.6	7.0	7.5
77.5°	1.4	1.4	1.9	1.9	3.3	4.2	6.1	6.5
80°	1.4	1.4	1.4	1.9	2.3	3.7	4.7	5.1
82.5°	0.9	0.9	0.9	1.4	1.9	2.3	3.3	3.7
85°	0.9	0.9	0.9	0.9	1.4	1.9	2.3	2.3
87.5°	0.5	0.5	0.5	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)