

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: P1321045

Luminaire Tested: LDSQA3D02R55B2750DE010 3LSQCA30R 1MW\_2700K

Issue Date: 1/29/2026

**Test Information**

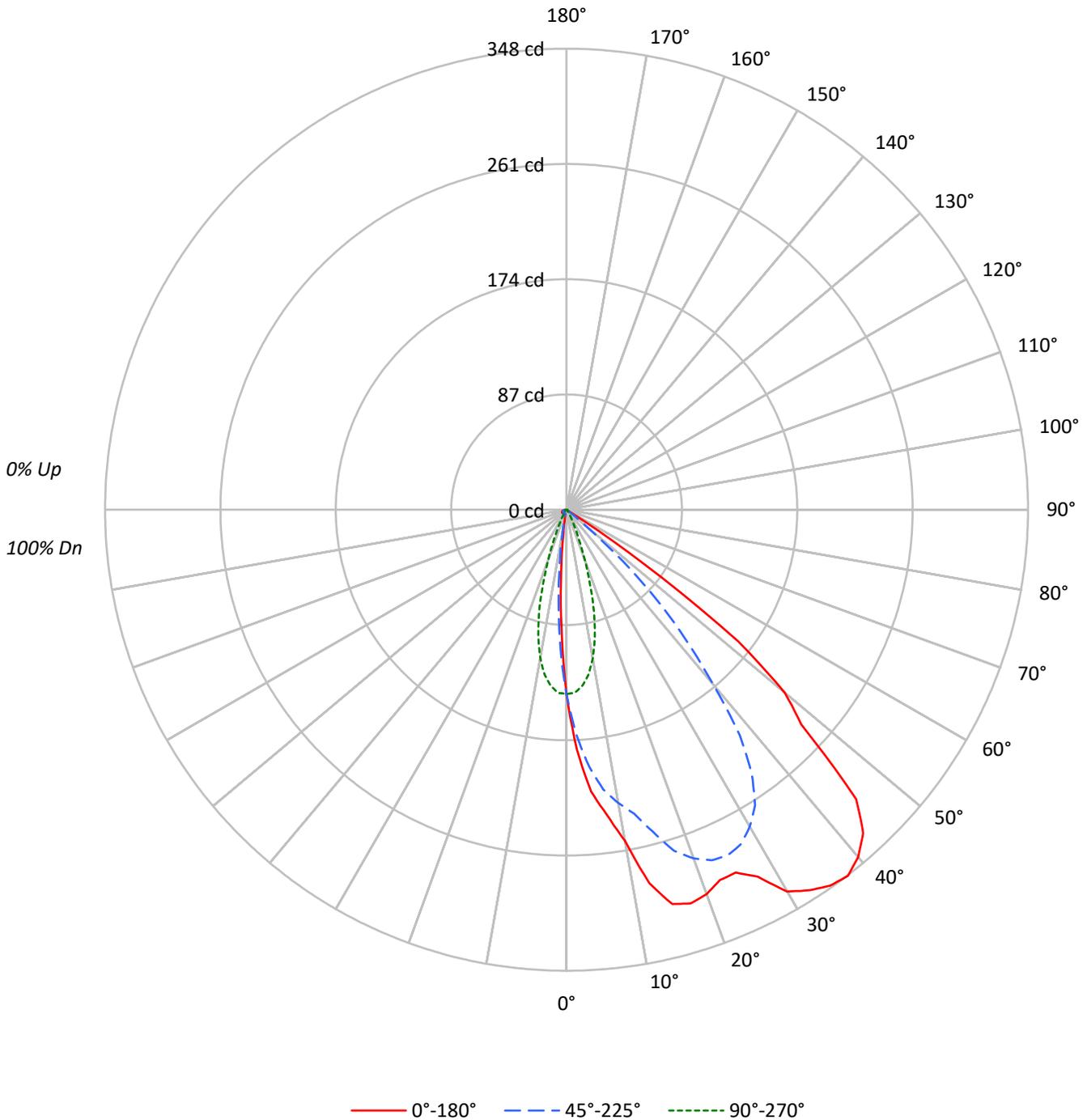
Test Method: LM-79-2019  
Report Number: P1321045  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-66)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R55B2750DE010 3LSQCA30R 1MW\_2700K  
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R55 optic, 2700K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 231.9 lumens  
Efficiency: N/A  
Efficacy: 80.0 lumens/watt  
Spacing Criteria (0/90/45): 1.79 / 0.55 / 1.22  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 2.9  
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	100	100	100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91	91	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	81	81	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73	73	73
4	92	82	75	70	90	81	75	70	79	73	69	77	72	68	75	71	67	65	65	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59	59	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53	53	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48	48	48
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	44	44	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40	40	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37	37	37

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

	0°	45°	90°	135°	180°
0°	23956	23956	23956	23956	23956
5°	36927	33625	23131	11877	7797
10°	44367	39295	19919	2990	1207
15°	54934	44878	14228	820	642
20°	56577	51335	7349	550	550
25°	57407	54690	2945	494	570
30°	66163	54947	1273	517	597
35°	72829	51216	547	547	673
40°	76934	38557	315	629	719
45°	75236	23552	292	682	877
50°	57552	5010	322	804	1018
55°	21108	180	360	901	1141
60°	207	207	413	1033	1309
65°	245	245	489	1060	1386
70°	201	302	504	1209	1611
75°	133	266	532	1331	1863
80°	198	397	595	1389	1984
85°	0	395	790	1581	1976

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 75236 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	12.2	5.3
10°-20°	35.1	15.1
20°-30°	53.8	23.2
30°-40°	62.7	27.0
40°-50°	50.1	21.6
50°-60°	14.8	6.4
60°-70°	1.6	0.7
70°-80°	1.2	0.5
80°-90°	0.5	0.2
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°	101.1	43.6
0°-40°	163.7	70.6
0°-60°	228.6	98.6
0°-90°	231.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	231.9	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	139	139	139	139	139	
5°	214	194	134	69	45	21
15°	308	252	80	5	4	85
25°	302	288	16	3	3	143
35°	346	244	3	3	3	216
45°	309	97	1	3	4	223
55°	70	1	1	3	4	74
65°	1	1	1	3	3	1
75°	0	0	1	2	3	0
85°	0	0	0	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°	139.1	139.1	139.1	139.1	139.1	139.1	139.1	139.1	139.1	139.1	139.1
2.5°	181.4	181.4	180.8	181.0	180.6	178.4	177.9	175.1	172.7	170.1	167.9
5°	213.6	214.0	213.4	212.2	210.6	209.0	205.6	202.9	199.5	194.5	189.8
7.5°	232.0	231.6	230.5	230.1	229.1	227.3	224.9	222.1	218.1	213.0	207.6
10°	253.7	250.3	249.3	247.7	244.5	240.8	236.6	232.8	229.3	224.7	218.9
12.5°	288.8	288.2	284.2	281.1	276.7	268.6	261.4	252.9	242.8	234.8	227.1
15°	308.1	308.5	306.7	304.3	301.5	294.8	287.6	277.7	265.8	251.7	239.2
17.5°	311.6	312.2	311.2	310.1	309.3	305.5	301.1	294.0	283.1	270.0	251.5
20°	308.7	309.9	310.1	311.4	313.0	311.4	307.7	302.9	293.8	280.1	262.4
22.5°	302.5	304.7	306.3	310.6	314.8	314.8	312.6	308.7	299.9	286.4	268.2
25°	302.1	302.5	303.1	309.9	316.6	318.0	316.0	312.0	302.3	287.8	268.0
27.5°	312.2	309.5	305.5	312.4	320.2	321.4	318.6	313.2	301.7	284.6	261.2
30°	332.7	326.9	318.4	323.4	328.9	327.5	321.8	313.2	297.7	276.3	248.3
32.5°	340.6	337.4	334.3	339.8	340.8	334.9	324.9	312.0	291.2	264.6	227.1
35°	346.4	346.6	345.4	346.4	341.6	333.3	322.2	305.3	279.1	243.6	199.1
37.5°	348.4	348.8	346.2	342.6	335.3	325.9	312.6	293.2	259.0	214.8	156.8
40°	342.2	341.0	336.7	331.7	323.9	314.2	299.7	270.9	228.9	171.5	122.3
42.5°	331.1	329.1	324.1	318.0	309.7	297.5	274.3	239.4	186.0	133.8	85.6
45°	308.9	307.5	301.3	296.8	287.0	271.1	241.2	197.3	143.9	96.7	49.6
47.5°	240.0	240.2	245.1	247.3	243.8	231.2	196.1	149.9	105.0	57.6	16.7
50°	214.8	213.8	209.0	202.3	191.2	172.3	143.9	106.0	62.1	18.7	2.4
52.5°	163.0	163.0	160.6	157.2	145.5	127.2	97.3	58.6	21.8	3.2	0.6
55°	70.3	66.7	68.7	72.5	69.5	60.5	45.5	17.5	3.8	0.6	0.6
57.5°	1.0	2.4	3.6	5.8	7.9	9.5	5.0	1.8	0.6	0.6	0.6
60°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
62.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
65°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
67.5°	0.4	0.4	0.4	0.6	0.4	0.6	0.6	0.6	0.6	0.6	0.6
70°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.6
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
75°	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
77.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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°	139.1	139.1	139.1	139.1	139.1	139.1	139.1	139.1
2.5°	164.6	161.2	155.6	138.4	120.7	104.4	92.7	88.3
5°	184.6	178.4	168.9	133.8	98.5	68.7	51.8	45.1
7.5°	200.3	192.3	178.6	125.8	72.3	36.7	22.0	17.3
10°	210.8	201.9	184.0	113.9	48.0	17.1	8.3	6.9
12.5°	218.5	207.4	186.0	98.5	28.2	7.9	4.4	4.0
15°	224.1	209.8	183.6	79.8	15.5	4.6	3.6	3.6
17.5°	232.0	211.0	177.7	58.8	8.9	3.4	3.4	3.4
20°	238.0	211.0	166.7	40.1	5.4	3.0	3.0	3.0
22.5°	241.0	207.8	153.2	25.4	3.8	2.8	3.0	3.0
25°	238.0	199.9	135.8	15.5	3.0	2.6	2.8	3.0
27.5°	226.9	184.2	112.7	9.9	2.4	2.6	2.8	3.0
30°	208.4	161.4	86.5	6.4	2.2	2.6	2.8	3.0
32.5°	182.2	127.6	56.0	4.2	2.0	2.6	2.8	3.0
35°	142.3	90.3	33.9	2.6	2.0	2.6	3.0	3.2
37.5°	106.6	60.3	18.3	1.6	2.0	2.6	3.0	3.2
40°	74.0	35.1	7.9	1.4	2.0	2.8	3.2	3.2
42.5°	42.9	13.9	2.0	1.2	2.0	2.8	3.2	3.4
45°	15.7	2.8	0.6	1.2	2.2	2.8	3.2	3.6
47.5°	2.2	0.6	0.6	1.2	2.2	2.8	3.4	3.6
50°	0.6	0.6	0.6	1.2	2.2	3.0	3.6	3.8
52.5°	0.6	0.6	0.6	1.2	2.2	3.0	3.6	3.8
55°	0.6	0.6	0.6	1.2	2.2	3.0	3.6	3.8
57.5°	0.6	0.6	0.6	1.2	2.2	3.0	3.6	3.8
60°	0.6	0.6	0.6	1.2	2.0	3.0	3.6	3.8
62.5°	0.6	0.6	0.6	1.2	2.0	2.8	3.4	3.6
65°	0.6	0.6	0.6	1.2	1.8	2.6	3.4	3.4
67.5°	0.6	0.6	0.6	1.0	1.8	2.6	3.2	3.4
70°	0.6	0.6	0.6	1.0	1.6	2.4	3.0	3.2
72.5°	0.6	0.6	0.6	0.8	1.4	2.2	2.8	3.0
75°	0.4	0.6	0.6	0.8	1.4	2.0	2.6	2.8
77.5°	0.4	0.6	0.6	0.6	1.2	1.6	2.2	2.4
80°	0.4	0.4	0.6	0.6	1.0	1.4	1.8	2.0
82.5°	0.4	0.4	0.4	0.6	0.8	1.0	1.4	1.4
85°	0.4	0.4	0.4	0.4	0.6	0.8	1.0	1.0
87.5°	0.2	0.2	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

(END OF REPORT)