

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: P1320994

Luminaire Tested: LDSQA3D02R50B2750DE010 3LSQCA30R 1MB\_5000K

Issue Date: 1/29/2026

**Test Information**

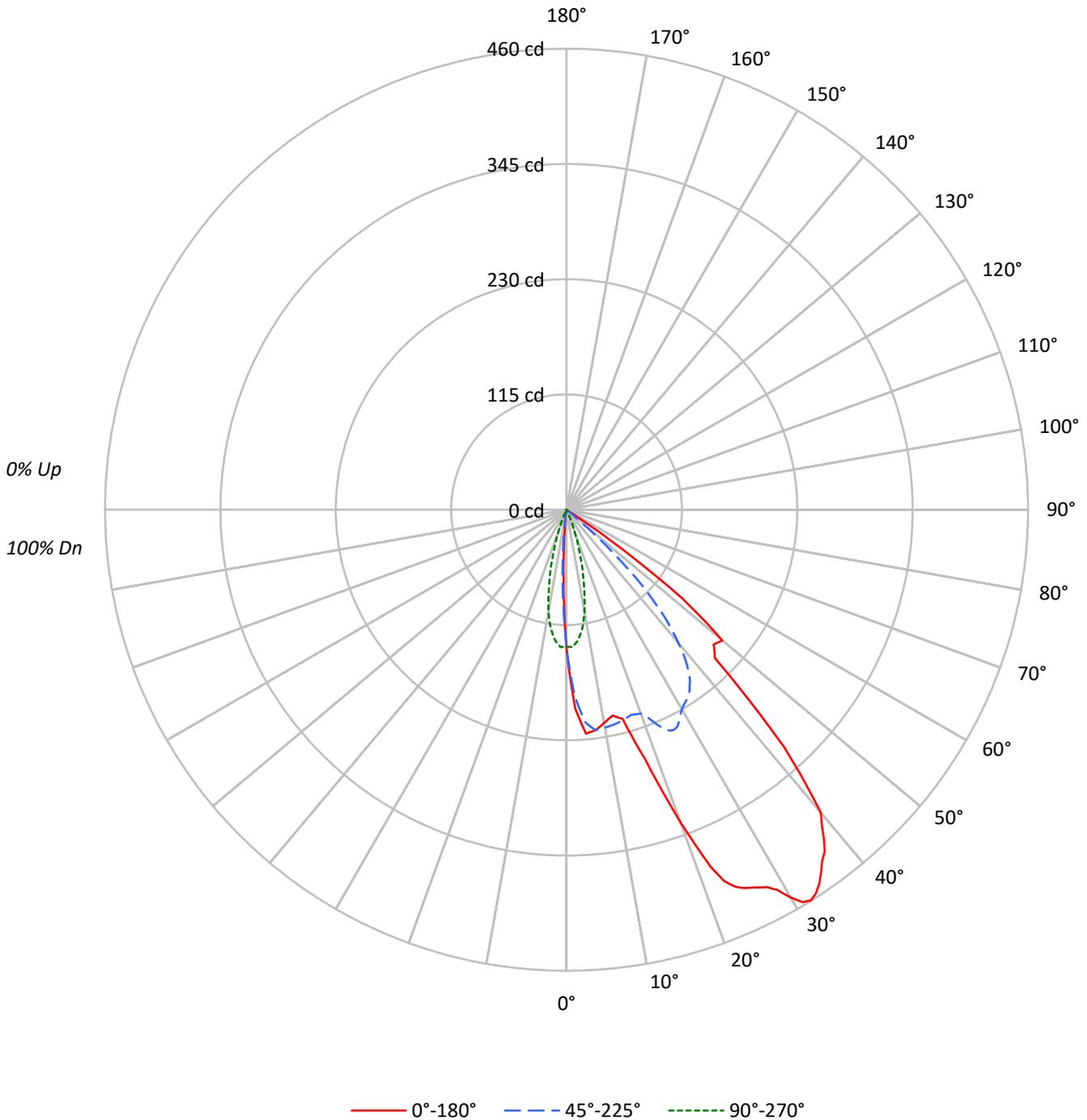
Test Method: LM-79-2019  
Report Number: P1320994  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R50B2750DE010 3LSQCA30R 1MB\_5000K  
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R50 optic, 5000K CCT AND, 80CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 220.0 lumens  
Efficiency: N/A  
Efficacy: 75.9 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.48 / 1.24  
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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91
2	105	100	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37

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

	0°	45°	90°	135°	180°
0°	23526	23526	23526	23526	23526
5°	38760	36789	22613	6708	3354
10°	37774	38613	18118	332	455
15°	38512	38744	10858	339	107
20°	60701	39661	4472	0	0
25°	79146	46214	1064	0	0
30°	88833	45699	40	0	0
35°	92970	45013	0	0	0
40°	88692	39096	0	0	0
45°	50928	25817	0	0	0
50°	54336	2947	0	0	0
55°	15493	0	0	0	0
60°	0	0	69	0	0
65°	0	82	82	0	0
70°	0	101	101	0	0
75°	0	133	133	0	0
80°	0	198	397	198	0
85°	0	395	790	395	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 45°  
 Luminance: 56238 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	11.5	5.2
10°-20°	28.9	13.1
20°-30°	55.5	25.2
30°-40°	64.6	29.4
40°-50°	46.2	21.0
50°-60°	12.9	5.9
60°-70°	0.1	0.0
70°-80°	0.1	0.1
80°-90°	0.1	0.1
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°	95.9	43.6
0°-40°	160.5	73.0
0°-60°	219.6	99.8
0°-90°	220.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	220.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	137	137	137	137	137	
5°	224	213	131	39	19	21
15°	216	217	61	2	1	70
25°	416	243	6	0	0	189
35°	442	214	0	0	0	274
45°	209	106	0	0	0	197
55°	52	0	0	0	0	65
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	0	0	0	0	0	0



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	136.6	136.6	136.6	136.6	136.6	136.6	136.6	136.6	136.6	136.6	136.6
2.5°	198.5	199.6	199.8	197.2	197.7	194.0	194.2	191.6	185.4	163.6	137.2
5°	224.2	223.6	224.2	223.3	224.2	222.0	220.8	219.7	212.8	181.9	130.8
7.5°	221.8	221.0	222.3	222.7	224.2	223.6	223.8	224.4	222.0	191.8	119.8
10°	216.0	215.8	216.4	216.4	218.2	218.4	219.2	220.5	220.8	195.3	103.6
12.5°	210.4	209.7	209.7	209.5	210.4	210.2	212.3	215.4	219.5	193.1	81.4
15°	216.0	215.4	214.5	212.1	210.4	208.5	208.7	210.6	217.3	187.5	60.9
17.5°	261.3	257.9	253.6	246.0	238.0	224.2	216.0	210.8	214.7	178.9	40.6
20°	331.2	329.7	322.8	310.5	297.6	277.3	252.0	231.8	216.4	168.1	24.4
21°	357.8	356.9	349.6	338.1	323.5	298.9	273.0	248.6	219.9	163.6	19.2
22°	385.0	381.7	375.9	363.2	347.9	323.3	294.3	267.4	226.8	157.7	14.7
23°	402.4	400.5	394.2	384.1	369.4	345.5	315.9	286.6	233.5	151.3	11.0
24°	411.5	410.9	405.9	398.8	386.3	361.9	333.8	303.6	239.1	143.7	8.0
25°	416.5	414.3	411.3	406.1	396.6	375.5	350.4	318.5	243.2	136.2	5.6
26°	419.5	418.2	413.5	408.9	399.9	382.6	361.2	327.6	244.3	126.9	3.9
27°	422.9	419.9	415.4	410.0	399.9	384.8	365.3	331.5	243.0	117.4	2.6
28°	426.6	424.5	418.2	411.3	399.2	384.8	363.8	326.3	239.1	108.3	1.5
29°	433.7	430.9	423.2	413.0	399.4	384.3	358.0	315.5	233.9	98.2	0.9
30°	446.7	440.9	431.4	417.1	400.9	383.5	348.3	299.3	229.8	86.7	0.2
31°	456.8	453.6	442.6	424.7	405.3	381.1	336.8	283.3	227.0	76.8	0.0
32°	459.6	457.3	449.3	432.4	412.6	379.1	323.9	267.8	224.9	65.8	0.0
33°	456.4	454.9	446.5	431.1	414.5	376.6	309.0	252.5	222.5	55.9	0.0
34°	450.4	448.4	441.1	425.5	409.6	365.3	294.8	240.8	219.0	46.6	0.0
35°	442.2	440.6	433.1	417.8	400.5	347.9	280.5	233.1	214.1	37.3	0.0
36°	433.3	432.9	423.2	408.1	388.9	331.0	263.3	227.2	209.1	29.6	0.0
37°	427.5	425.3	414.7	399.9	375.0	311.4	249.5	225.3	202.2	22.9	0.0
38°	416.9	417.3	405.3	391.7	361.0	294.3	238.2	223.8	194.4	16.6	0.0
39°	404.4	404.6	392.1	380.4	344.4	276.4	229.0	222.3	184.7	10.6	0.0
40°	394.5	394.2	380.0	367.5	326.5	259.6	224.0	220.1	173.9	6.0	0.0
42.5°	320.7	322.0	323.7	328.9	284.4	230.0	219.2	208.0	143.3	0.0	0.0
45°	209.1	214.1	215.4	230.9	230.7	217.9	208.0	186.4	106.0	0.0	0.0
47.5°	199.0	200.5	203.3	209.3	212.6	206.3	186.0	155.8	57.8	0.0	0.0
50°	202.8	202.6	203.3	203.3	197.4	181.3	152.6	115.0	11.0	0.0	0.0
52.5°	145.7	151.1	156.9	159.5	151.9	134.9	111.3	67.5	0.0	0.0	0.0
55°	51.6	49.8	48.6	53.1	52.0	58.5	48.3	15.8	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.2	0.9	1.9	2.6	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.4
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.4



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	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):**

	112.5°	135°	157.5°	180°
0°	136.6	136.6	136.6	136.6
2.5°	109.4	83.9	68.0	69.1
5°	76.8	38.8	24.0	19.4
7.5°	46.0	11.9	2.4	1.9
10°	21.6	1.9	2.2	2.6
12.5°	6.5	1.7	2.4	2.2
15°	1.7	1.9	1.1	0.6
17.5°	0.6	0.9	0.0	0.0
20°	0.4	0.0	0.0	0.0
21°	0.4	0.0	0.0	0.0
22°	0.2	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	0.2	0.0	0.0	0.0
67.5°	0.2	0.0	0.0	0.0
70°	0.2	0.0	0.0	0.0
72.5°	0.2	0.0	0.0	0.0
75°	0.2	0.0	0.0	0.0
77.5°	0.2	0.0	0.0	0.0
80°	0.2	0.2	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
82.5°	0.2	0.2	0.0	0.0
85°	0.2	0.2	0.0	0.0
87.5°	0.2	0.2	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)