

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: P1321016

Luminaire Tested: LDSQA3D02R50B2750DE010 3LSQCA45R 1MW\_3000K

Issue Date: 1/29/2026

**Test Information**

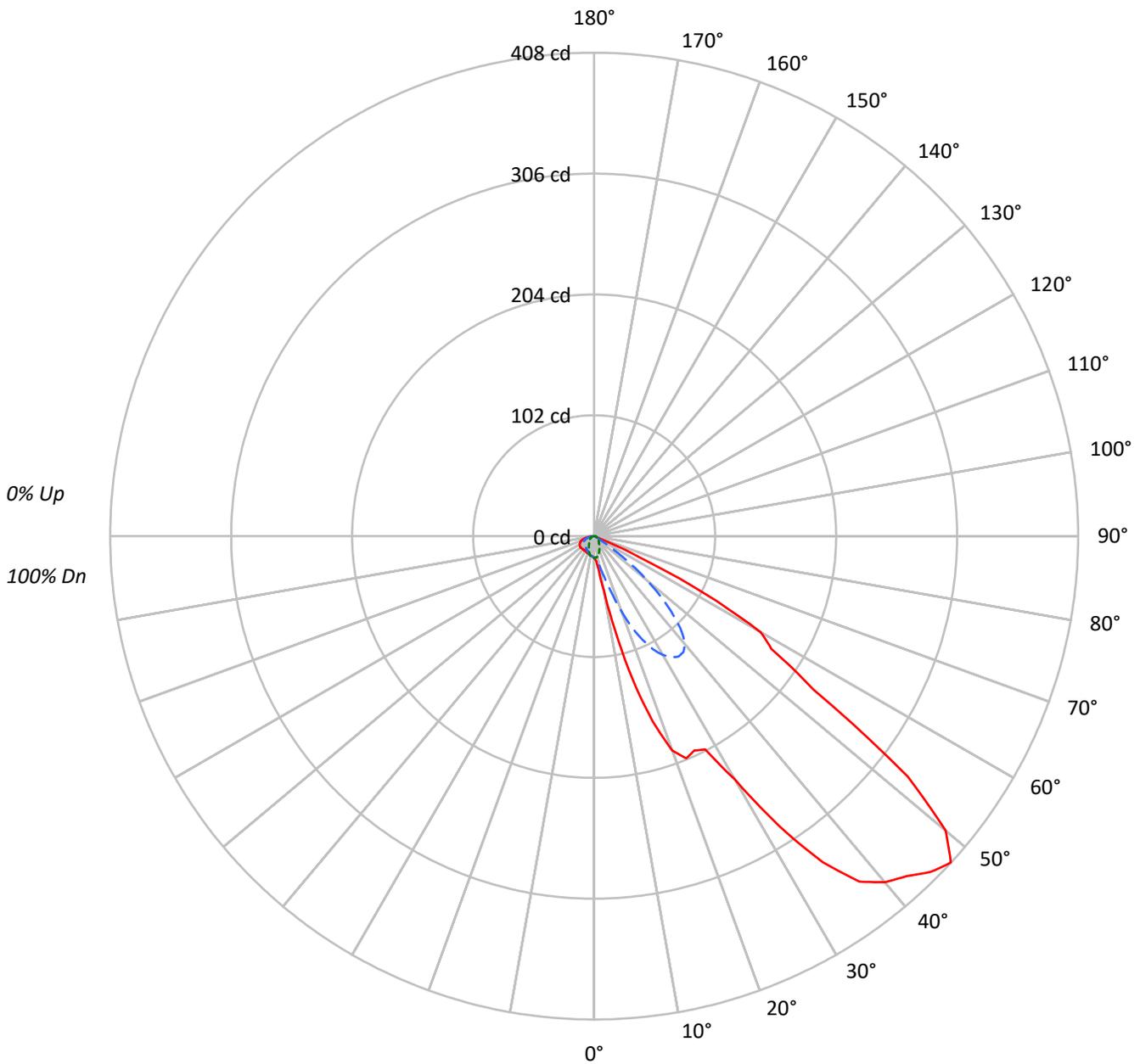
Test Method: LM-79-2019  
Report Number: P1321016  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R50B2750DE010 3LSQCA45R 1MW\_3000K  
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R50 optic, 3000K CCT AND, 90CRI , 3LSQCA45R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 230.0 lumens  
Efficiency: N/A  
Efficacy: 79.3 lumens/watt  
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91  
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



— 0°-180°    - - 45°-225°    - - - 90°-270°



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	73
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	61
4	83	71	63	56	81	70	62	55	67	60	55	65	59	54	63	58	53	51
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	43
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	37
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	31
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	27
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	23
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	20

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

	0°	45°	90°	135°	180°
0°	3152	3152	3152	3152	3152
5°	3752	3509	3129	2991	2956
10°	8062	4337	2990	2886	2920
15°	22323	7114	2692	2764	2871
20°	35281	12481	2328	2657	2804
25°	37948	18338	1995	2565	2831
30°	47091	23029	1730	2526	2923
35°	70663	26070	1514	2544	3091
40°	85702	26799	1349	2630	3260
45°	97643	22992	1315	2801	3580
50°	103636	15862	1340	3028	3992
55°	67709	6396	1321	3273	4414
60°	55835	1102	1309	3548	4857
65°	16830	571	1223	3790	5338
70°	705	604	1209	3877	5791
75°	665	665	1198	3993	6321
80°	595	595	1190	3967	6546
85°	395	790	1581	3952	6323

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 47.5°  
 Luminance: 103957 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1.9	0.8
10°-20°	10.9	4.7
20°-30°	28.0	12.2
30°-40°	50.3	21.9
40°-50°	67.2	29.2
50°-60°	51.2	22.2
60°-70°	15.5	6.8
70°-80°	3.7	1.6
80°-90°	1.4	0.6
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
<b>0°-30°</b>	<b>40.8</b>	<b>17.7</b>
<b>0°-40°</b>	<b>91.1</b>	<b>39.6</b>
<b>0°-60°</b>	<b>209.4</b>	<b>91.0</b>
<b>0°-90°</b>	<b>230.0</b>	<b>100.0</b>
90°-120°	0.0	0.0
90°-150°	0.0	0.0
<b>90°-180°</b>	<b>0.0</b>	<b>0.0</b>
<b>0°-180°</b>	<b>230.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	18	18	18	18	18	
5°	22	20	18	17	17	3
15°	125	40	15	16	16	37
25°	200	96	10	14	15	95
35°	336	124	7	12	15	206
45°	401	94	5	12	15	307
55°	226	21	4	11	15	224
65°	41	1	3	9	13	57
75°	1	1	2	6	10	1
85°	0	0	1	2	3	0
90°	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°	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3	18.3
2.5°	19.5	19.5	19.5	19.5	19.5	19.5	19.3	19.3	19.3	18.9	18.5
5°	21.7	21.9	21.7	21.7	21.3	21.3	20.9	20.9	20.3	19.1	18.1
7.5°	28.4	28.2	28.0	27.2	26.6	25.2	24.6	23.6	21.9	19.1	17.7
10°	46.1	44.9	44.1	42.3	38.5	36.2	33.0	29.8	24.8	19.1	17.1
12.5°	80.1	79.9	77.5	71.5	66.2	58.8	51.1	43.3	30.6	18.7	16.3
15°	125.2	123.4	120.0	113.0	103.5	92.0	78.1	64.4	39.9	18.1	15.1
17.5°	163.7	161.5	158.9	152.0	141.0	126.5	109.9	91.0	52.6	17.3	13.9
20°	192.5	191.1	188.9	183.4	173.0	159.9	141.2	118.4	68.1	16.3	12.7
22.5°	203.0	202.8	203.2	201.2	196.1	185.7	167.9	144.0	83.4	15.1	11.5
25°	199.7	199.5	202.0	204.6	205.8	201.6	187.9	164.7	96.5	14.1	10.5
27.5°	202.8	202.2	201.0	201.4	204.8	207.2	200.8	180.6	107.9	12.7	9.5
30°	236.8	233.4	228.1	218.9	212.2	211.6	208.8	193.1	115.8	11.3	8.7
32.5°	289.8	285.7	275.9	259.1	243.0	230.6	221.9	203.6	121.4	9.9	7.7
35°	336.1	333.2	321.8	305.1	282.1	259.1	243.2	219.1	124.0	8.7	7.2
37.5°	367.5	366.3	355.2	337.3	313.9	286.7	265.6	235.0	123.4	7.4	6.6
40°	381.2	377.7	368.3	353.2	329.6	305.1	282.9	245.1	119.2	6.0	6.0
42.5°	389.4	385.4	375.3	361.0	337.7	311.7	284.9	240.8	109.3	4.8	5.8
45°	400.9	396.7	383.4	368.1	344.7	314.5	277.1	225.3	94.4	3.6	5.4
47.5°	407.8	405.1	395.1	379.8	351.4	310.5	259.3	210.8	77.9	2.8	5.2
50°	386.8	384.0	376.7	366.1	347.1	297.2	243.6	187.3	59.2	2.2	5.0
52.5°	333.0	335.3	336.7	339.7	325.8	267.4	220.1	168.7	39.9	1.8	4.6
55°	225.5	229.1	233.0	244.9	261.2	238.0	195.5	145.8	21.3	1.8	4.4
57.5°	177.2	176.0	174.8	174.0	186.7	196.3	171.8	116.6	9.1	1.8	4.0
60°	162.1	158.5	156.1	156.7	163.1	159.3	136.1	76.1	3.2	1.8	3.8
62.5°	106.3	109.1	114.4	123.6	119.2	102.3	79.1	30.2	1.6	1.8	3.4
65°	41.3	39.9	41.3	43.9	37.9	28.2	17.7	5.4	1.4	1.6	3.0
67.5°	5.6	5.0	3.8	2.4	2.2	2.0	1.6	1.4	1.4	1.6	2.8
70°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.2	1.2	1.4	2.4
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.4	2.0
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.8
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.4
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.8	1.2
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.8	1.0
85°	0.2	0.4	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.8
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6	0.6
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°	18.3	18.3	18.3	18.3
2.5°	18.1	17.7	17.7	17.7
5°	17.7	17.3	17.3	17.1
7.5°	17.1	16.9	16.9	16.9
10°	16.7	16.5	16.7	16.7
12.5°	15.9	16.1	16.3	16.3
15°	15.1	15.5	15.9	16.1
17.5°	14.3	15.1	15.5	15.7
20°	13.5	14.5	15.1	15.3
22.5°	12.9	13.9	14.7	15.1
25°	12.1	13.5	14.5	14.9
27.5°	11.3	12.9	14.1	14.7
30°	10.7	12.7	14.1	14.7
32.5°	10.1	12.3	13.9	14.5
35°	9.7	12.1	13.9	14.7
37.5°	9.3	11.9	13.9	14.5
40°	9.1	11.7	13.9	14.5
42.5°	8.9	11.7	13.9	14.7
45°	8.5	11.5	13.9	14.7
47.5°	8.3	11.5	13.9	14.7
50°	8.1	11.3	13.9	14.9
52.5°	7.9	11.1	13.9	14.9
55°	7.5	10.9	13.7	14.7
57.5°	7.4	10.7	13.5	14.3
60°	7.0	10.3	13.1	14.1
62.5°	6.6	9.9	12.7	13.5
65°	6.0	9.3	12.1	13.1
67.5°	5.4	8.5	11.5	12.5
70°	4.8	7.7	10.7	11.5
72.5°	4.2	7.0	9.9	10.5
75°	3.6	6.0	8.7	9.5
77.5°	3.0	5.2	7.4	7.9
80°	2.2	4.0	6.0	6.6
82.5°	1.8	3.0	4.4	4.8
85°	1.2	2.0	2.8	3.2
87.5°	0.6	1.0	1.4	1.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)