

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: P1321009

Luminaire Tested: LDSQA3D02R50B2750DE010 3LSQCA45R 1MB\_5000K

Issue Date: 1/29/2026

**Test Information**

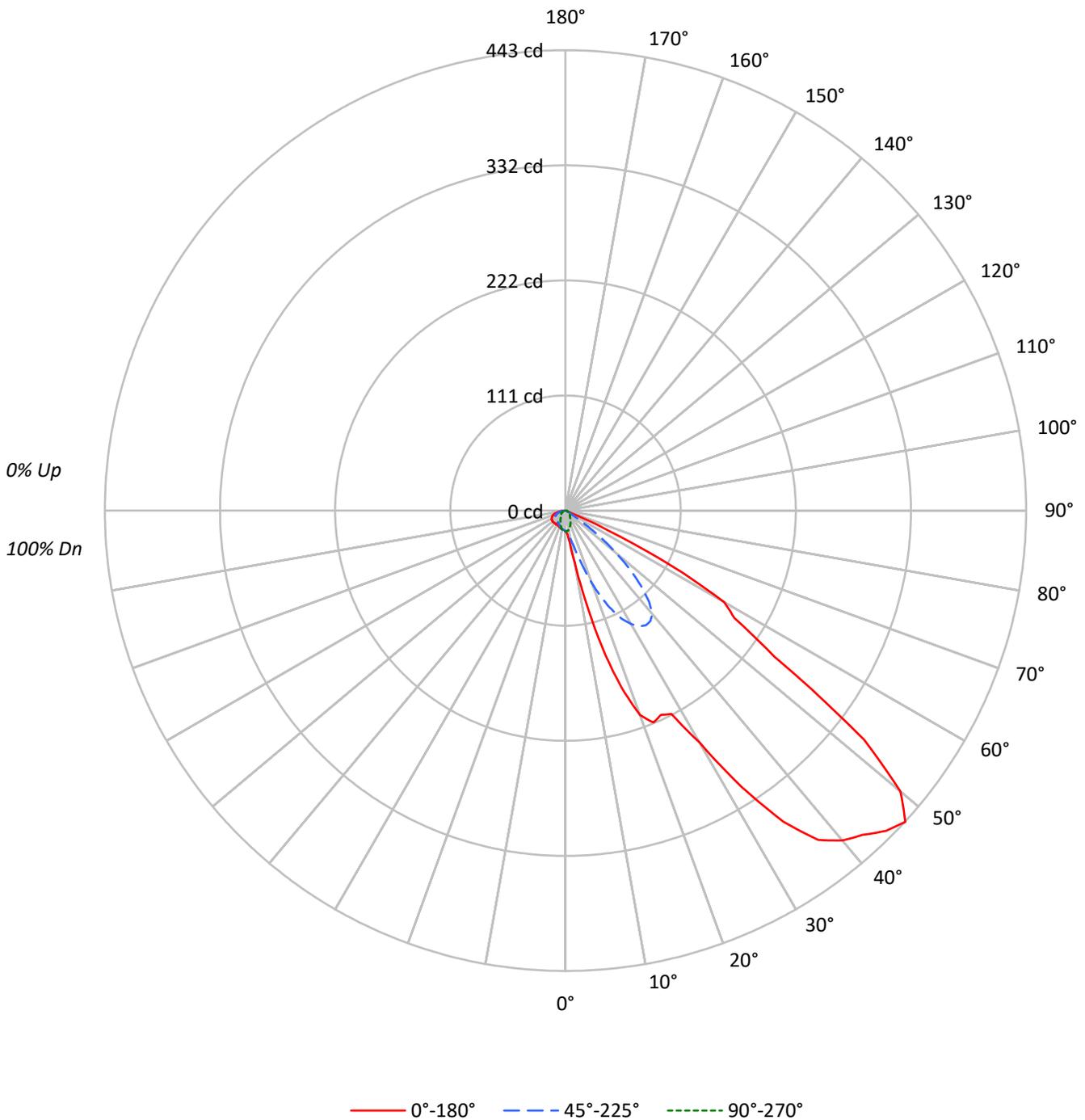
Test Method: LM-79-2019  
Report Number: P1321009  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R50B2750DE010 3LSQCA45R 1MB\_5000K  
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R50 optic, 5000K CCT AND, 80CRI , 3LSQCA45R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 250.0 lumens  
Efficiency: N/A  
Efficacy: 86.2 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





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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	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	56	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°	3427	3427	3427	3427	3427
5°	4063	3803	3406	3250	3216
10°	8761	4722	3253	3130	3165
15°	24249	7738	2924	2995	3120
20°	38341	13581	2529	2896	3042
25°	41236	19934	2166	2793	3078
30°	51188	25037	1889	2744	3182
35°	76824	28320	1640	2775	3364
40°	93166	29137	1461	2855	3552
45°	106143	24989	1413	3044	3897
50°	112638	17228	1447	3296	4340
55°	73594	6936	1441	3573	4804
60°	60691	1206	1412	3858	5270
65°	18297	611	1304	4116	5827
70°	755	655	1309	4230	6294
75°	732	732	1264	4325	6920
80°	595	595	1289	4265	7042
85°	395	790	1778	4347	6916

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 47.5°  
 Luminance: 113007 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	2.1	0.8
10°-20°	11.8	4.7
20°-30°	30.4	12.2
30°-40°	54.7	21.9
40°-50°	73.0	29.2
50°-60°	55.6	22.2
60°-70°	16.9	6.7
70°-80°	4.0	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
0°-30°	44.3	17.7
0°-40°	99.0	39.6
0°-60°	227.6	91.1
0°-90°	250.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	250.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	20	20	20	20	20	
5°	24	22	20	19	19	3
15°	136	43	16	17	18	40
25°	217	105	11	15	16	104
35°	365	135	8	13	16	224
45°	436	103	6	12	16	333
55°	245	23	5	12	16	244
65°	45	2	3	10	14	62
75°	1	1	2	6	10	1
85°	0	0	1	2	4	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°	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9	19.9
2.5°	21.2	21.2	21.2	21.2	21.2	21.2	20.9	20.9	20.9	20.5	20.1
5°	23.5	23.8	23.5	23.5	23.1	23.1	22.7	22.7	22.0	20.7	19.7
7.5°	30.9	30.7	30.4	29.6	28.9	27.4	26.8	25.7	23.8	20.7	19.2
10°	50.1	48.8	47.9	46.0	41.9	39.3	35.8	32.4	27.0	20.7	18.6
12.5°	87.0	86.8	84.2	77.7	71.9	63.9	55.5	47.1	33.3	20.3	17.7
15°	136.0	134.1	130.4	122.9	112.5	100.0	84.9	70.0	43.4	19.7	16.4
17.5°	177.9	175.6	172.7	165.2	153.3	137.6	119.4	98.9	57.2	18.8	15.1
20°	209.2	207.7	205.4	199.3	188.1	173.8	153.5	128.7	74.1	17.7	13.8
22.5°	220.7	220.5	220.9	218.7	213.1	201.9	182.5	156.6	90.7	16.4	12.5
25°	217.0	216.8	219.6	222.4	223.7	219.2	204.3	179.0	104.9	15.3	11.4
27.5°	220.5	219.8	218.5	219.0	222.6	225.2	218.3	196.3	117.3	13.8	10.4
30°	257.4	253.7	247.9	238.0	230.6	230.0	226.9	209.9	125.9	12.3	9.5
32.5°	315.0	310.5	299.9	281.6	264.1	250.7	241.2	221.3	131.9	10.8	8.4
35°	365.4	362.1	349.8	331.7	306.6	281.6	264.3	238.2	134.7	9.5	7.8
37.5°	399.5	398.2	386.1	366.7	341.2	311.6	288.7	255.5	134.1	8.0	7.1
40°	414.4	410.5	400.3	383.9	358.2	331.7	307.5	266.5	129.6	6.5	6.5
42.5°	423.2	418.9	407.9	392.4	367.1	338.8	309.7	261.7	118.8	5.2	6.3
45°	435.8	431.2	416.8	400.1	374.6	341.8	301.2	244.9	102.6	3.9	5.8
47.5°	443.3	440.3	429.5	412.9	382.0	337.5	281.8	229.1	84.6	3.0	5.6
50°	420.4	417.4	409.4	398.0	377.2	323.0	264.7	203.6	64.3	2.4	5.4
52.5°	361.9	364.5	366.0	369.2	354.1	290.6	239.3	183.3	43.4	1.9	5.0
55°	245.1	249.0	253.3	266.2	284.0	258.7	212.5	158.5	23.1	1.9	4.8
57.5°	192.6	191.3	190.0	189.2	203.0	213.3	186.8	126.8	9.9	1.9	4.3
60°	176.2	172.3	169.7	170.4	177.3	173.2	147.9	82.7	3.5	1.9	4.1
62.5°	115.5	118.5	124.4	134.3	129.6	111.2	85.9	32.8	1.7	1.9	3.7
65°	44.9	43.4	44.9	47.7	41.2	30.7	19.2	5.8	1.5	1.7	3.2
67.5°	6.0	5.4	4.1	2.6	2.4	2.2	1.7	1.5	1.5	1.7	3.0
70°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.3	1.3	1.5	2.6
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.5	2.2
75°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.3	1.9
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.5
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.9	1.3
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.9	1.1
85°	0.2	0.4	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.9
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°	19.9	19.9	19.9	19.9
2.5°	19.7	19.2	19.2	19.2
5°	19.2	18.8	18.8	18.6
7.5°	18.6	18.4	18.4	18.4
10°	18.1	17.9	18.1	18.1
12.5°	17.3	17.5	17.7	17.7
15°	16.4	16.8	17.3	17.5
17.5°	15.5	16.4	16.8	17.1
20°	14.7	15.8	16.4	16.6
22.5°	14.0	15.1	16.0	16.4
25°	13.2	14.7	15.8	16.2
27.5°	12.3	14.0	15.3	16.0
30°	11.7	13.8	15.3	16.0
32.5°	11.0	13.4	15.1	15.8
35°	10.6	13.2	15.1	16.0
37.5°	10.1	13.0	15.1	15.8
40°	9.9	12.7	15.1	15.8
42.5°	9.7	12.7	15.1	16.0
45°	9.3	12.5	15.1	16.0
47.5°	9.1	12.5	15.1	16.0
50°	8.9	12.3	15.1	16.2
52.5°	8.6	12.1	15.1	16.2
55°	8.2	11.9	14.9	16.0
57.5°	8.0	11.7	14.7	15.5
60°	7.6	11.2	14.3	15.3
62.5°	7.1	10.8	13.8	14.7
65°	6.5	10.1	13.2	14.3
67.5°	5.8	9.3	12.5	13.6
70°	5.2	8.4	11.7	12.5
72.5°	4.5	7.6	10.8	11.4
75°	3.9	6.5	9.5	10.4
77.5°	3.2	5.6	8.0	8.6
80°	2.4	4.3	6.5	7.1
82.5°	1.9	3.2	4.8	5.2
85°	1.3	2.2	3.0	3.5
87.5°	0.6	1.1	1.5	1.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)