

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: P1320954

Luminaire Tested: LDSQA3D02R45B2750DE010 3LSQCA30R 1MMS\_5000K

Issue Date: 1/29/2026

**Test Information**

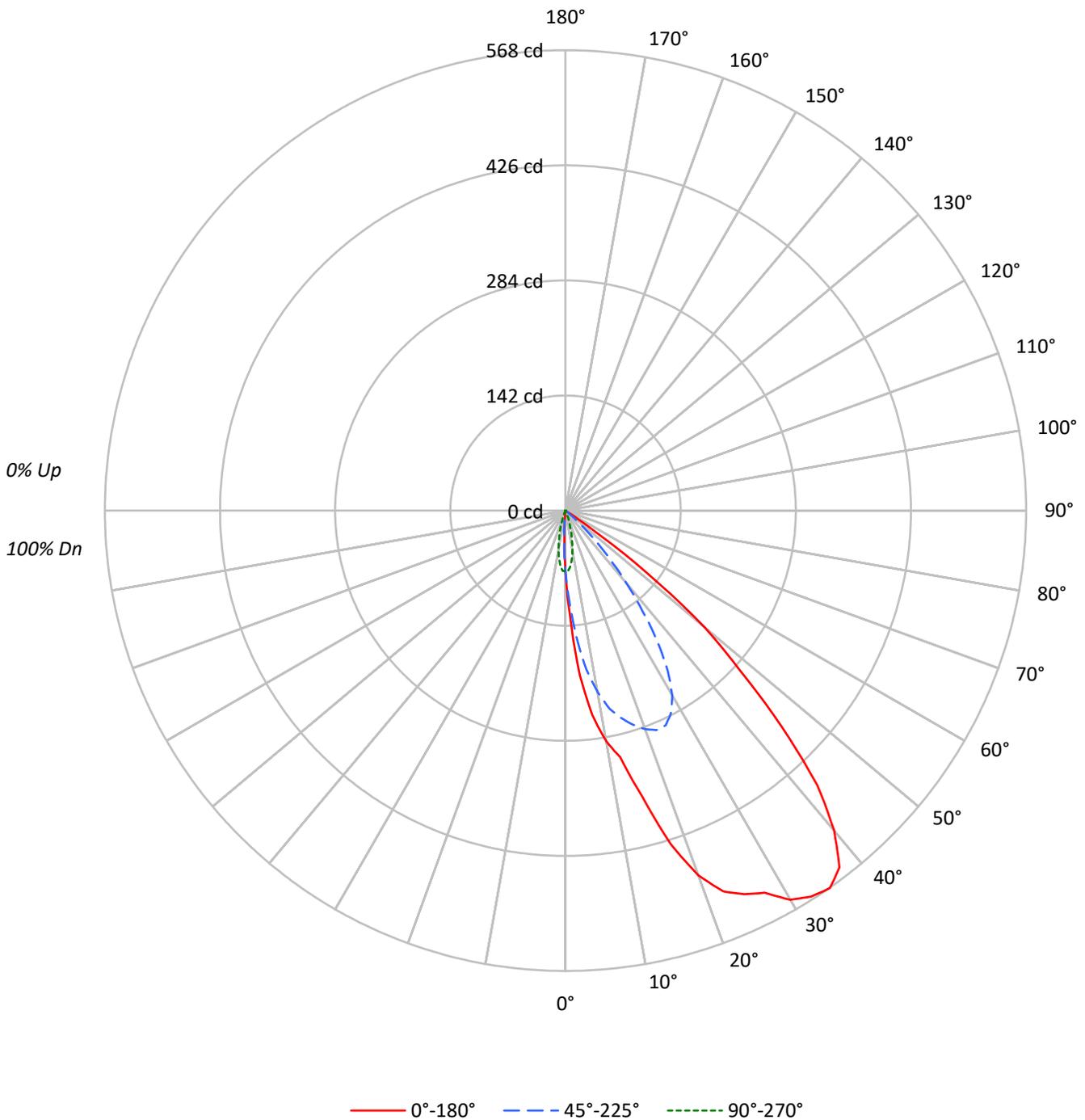
Test Method: LM-79-2019  
Report Number: P1320954  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R45B2750DE010 3LSQCA30R 1MMS\_5000K  
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R45 optic, 5000K CCT AND, 80CRI , 3LSQCA30R 1MMS TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 241.0 lumens  
Efficiency: N/A  
Efficacy: 83.1 lumens/watt  
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27  
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	98	96	96	94	93	91
2	106	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74
4	92	83	76	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37

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

	0°	45°	90°	135°	180°
0°	12882	12882	12882	12882	12882
5°	35198	27073	11929	2386	899
10°	50540	39715	8622	227	192
15°	65061	47249	4582	71	0
20°	87697	52563	1741	0	0
25°	99194	55545	456	0	0
30°	110251	52361	40	0	0
35°	119524	41755	0	0	0
40°	115850	26214	0	0	0
45°	91846	12495	0	0	0
50°	60097	1554	0	0	0
55°	10329	0	0	0	0
60°	0	0	69	0	0
65°	0	82	82	0	0
70°	0	101	201	0	0
75°	0	133	266	0	0
80°	0	198	397	198	0
85°	0	395	790	395	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 91846 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	8.9	3.7
10°-20°	34.3	14.2
20°-30°	64.3	26.7
30°-40°	75.0	31.1
40°-50°	48.9	20.3
50°-60°	9.1	3.8
60°-70°	0.1	0.0
70°-80°	0.2	0.1
80°-90°	0.2	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°	107.5	44.6
0°-40°	182.5	75.8
0°-60°	240.5	99.8
0°-90°	241.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	241.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	75	75	75	75	75	
5°	204	157	69	14	5	22
15°	365	265	26	0	0	109
25°	522	292	2	0	0	241
35°	568	199	0	0	0	349
45°	377	51	0	0	0	287
55°	34	0	0	0	0	60
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°	40°	45°	50°
0°	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
2.5°	132.0	133.0	130.9	130.0	127.2	127.8	123.1	121.1	118.1	113.1	110.8
5°	203.6	201.6	199.9	196.2	194.0	188.2	181.7	174.4	165.5	156.6	146.5
7.5°	254.6	253.1	252.5	249.4	245.1	239.0	230.6	221.3	209.8	197.9	182.6
10°	289.0	287.5	284.9	281.9	278.4	273.4	265.2	255.0	242.5	227.1	209.2
12.5°	311.5	311.3	307.0	303.5	299.2	294.8	286.4	278.2	265.9	250.1	229.7
15°	364.9	361.5	355.9	346.1	334.0	322.8	309.1	296.1	282.7	265.0	242.3
17.5°	431.6	427.7	418.2	405.8	386.4	364.9	341.6	321.0	300.9	276.9	250.1
20°	478.5	477.0	469.0	454.7	433.9	405.6	374.9	345.9	317.6	286.8	253.7
22.5°	508.6	507.7	504.5	494.7	473.5	441.7	402.1	363.2	329.0	293.1	252.7
25°	522.0	523.1	523.5	518.7	501.7	469.2	422.3	376.4	335.5	292.3	244.4
27.5°	531.5	531.5	533.2	531.1	513.8	479.6	430.1	380.9	333.4	281.7	227.1
30°	554.4	554.0	555.1	549.2	525.2	482.8	426.6	373.6	321.0	263.3	202.3
32.5°	564.4	564.8	564.6	555.3	527.4	480.7	418.2	359.5	298.3	234.5	169.4
35°	568.5	566.6	558.5	537.3	502.1	451.9	394.4	335.7	266.5	198.6	133.7
37.5°	554.9	549.2	531.5	502.5	459.5	411.2	355.0	293.1	224.3	155.8	100.6
40°	515.3	507.9	485.6	450.6	411.2	367.8	308.5	243.1	175.4	116.6	70.5
42.5°	459.3	450.8	426.8	396.3	360.4	314.8	255.7	190.4	128.5	80.5	44.8
45°	377.1	372.3	358.4	332.7	297.4	250.1	196.0	138.9	88.9	51.3	22.9
47.5°	291.6	285.5	275.6	257.9	228.4	183.4	137.1	94.3	57.1	25.3	4.8
50°	224.3	217.2	205.1	185.4	154.7	122.4	88.9	58.8	29.0	5.8	0.2
52.5°	129.1	130.7	124.8	112.3	95.2	73.3	51.5	29.6	6.5	0.2	0.0
55°	34.4	37.2	36.3	39.2	34.4	29.0	21.4	5.6	0.4	0.0	0.0
57.5°	0.0	0.0	0.2	0.4	1.3	1.9	0.6	0.2	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	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.2	0.2	0.2	0.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	74.8	74.8	74.8	74.8	74.8	74.8	74.8	74.8
2.5°	105.3	100.8	95.2	74.4	56.0	40.2	31.4	29.0
5°	136.7	125.7	111.4	69.0	34.6	13.8	6.3	5.2
7.5°	166.4	150.1	124.4	60.4	17.5	3.5	1.7	1.5
10°	189.3	167.4	133.9	49.3	6.5	1.3	1.1	1.1
12.5°	205.1	178.5	137.4	37.4	2.4	0.6	0.6	0.4
15°	214.2	182.8	134.1	25.7	0.9	0.4	0.0	0.0
17.5°	217.0	181.1	125.5	16.2	0.2	0.0	0.0	0.0
20°	214.6	172.6	111.8	9.5	0.0	0.0	0.0	0.0
22.5°	206.8	159.4	95.4	5.2	0.0	0.0	0.0	0.0
25°	192.3	140.8	76.1	2.4	0.0	0.0	0.0	0.0
27.5°	168.7	116.8	57.3	0.9	0.0	0.0	0.0	0.0
30°	141.9	91.1	40.7	0.2	0.0	0.0	0.0	0.0
32.5°	110.8	67.1	26.2	0.0	0.0	0.0	0.0	0.0
35°	83.3	46.9	15.6	0.0	0.0	0.0	0.0	0.0
37.5°	58.0	29.6	8.2	0.0	0.0	0.0	0.0	0.0
40°	36.1	16.0	2.8	0.0	0.0	0.0	0.0	0.0
42.5°	20.1	5.6	0.2	0.0	0.0	0.0	0.0	0.0
45°	4.8	0.4	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
60°	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0
62.5°	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
65°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0
67.5°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0
70°	0.2	0.2	0.2	0.4	0.2	0.0	0.0	0.0
72.5°	0.2	0.2	0.4	0.4	0.2	0.0	0.0	0.0
75°	0.2	0.2	0.4	0.4	0.2	0.0	0.0	0.0
77.5°	0.2	0.4	0.4	0.4	0.2	0.2	0.0	0.0
80°	0.2	0.4	0.4	0.4	0.4	0.2	0.0	0.0
82.5°	0.2	0.4	0.4	0.4	0.4	0.2	0.0	0.0
85°	0.2	0.4	0.4	0.4	0.2	0.2	0.0	0.0
87.5°	0.2	0.4	0.4	0.4	0.4	0.2	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)