

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: P1321094

Luminaire Tested: LDSQA3D02R60B2750DE010 3LSQCA30R 1MW\_5000K

Issue Date: 1/29/2026

**Test Information**

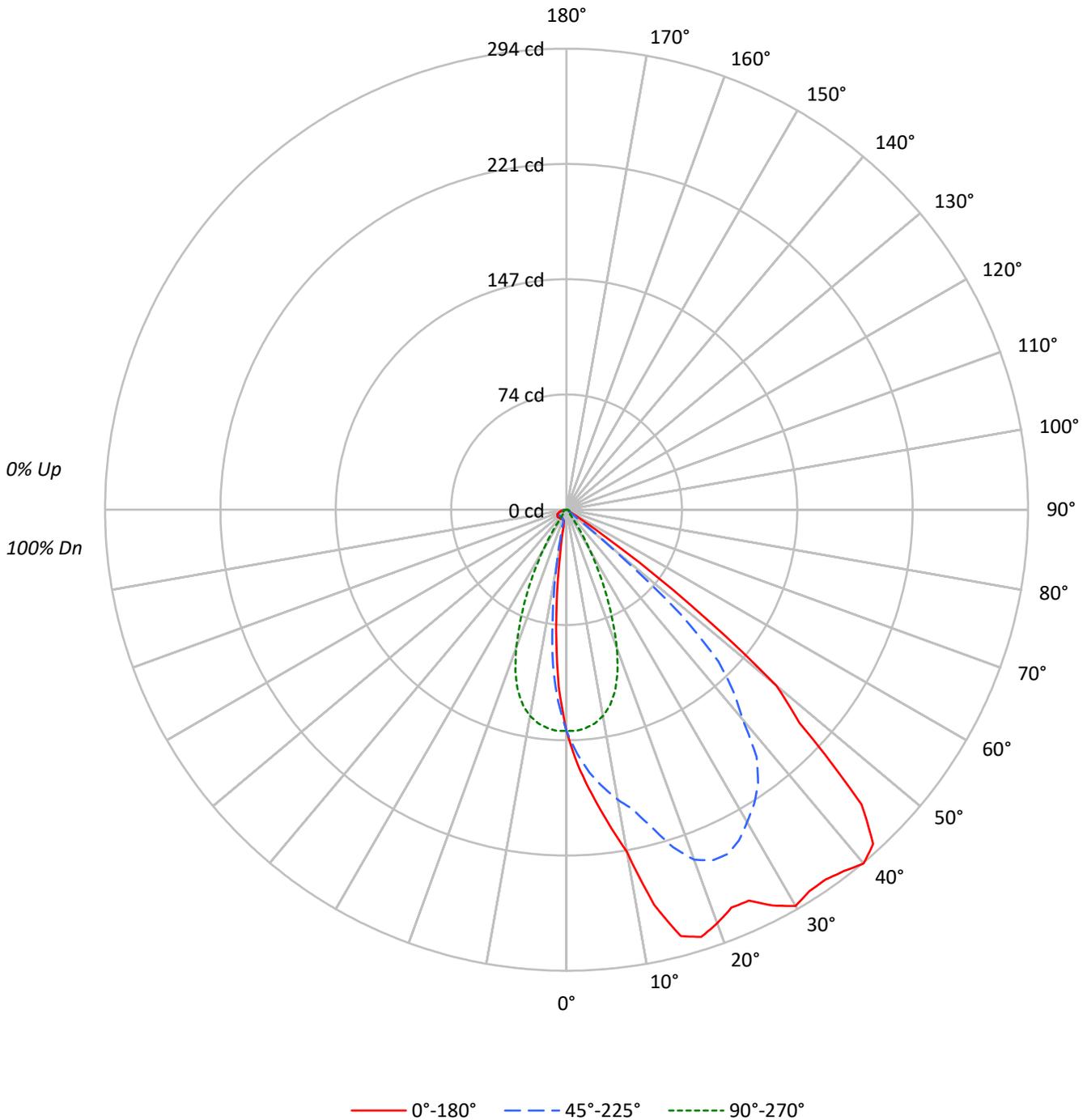
Test Method: LM-79-2019  
Report Number: P1321094  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-67)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R60B2750DE010 3LSQCA30R 1MW\_5000K  
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R60 optic, 5000K CCT AND, 80CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 229.0 lumens  
Efficiency: N/A  
Efficacy: 78.9 lumens/watt  
Spacing Criteria (0/90/45): 1.62 / 0.77 / 1.26  
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	102	102	100	
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	95	94	92	90
2	105	99	94	89	102	97	92	88	94	90	86	90	87	85	88	85	83	88	85	83	81
3	98	90	84	79	96	88	83	78	85	81	77	83	79	75	81	77	74	81	77	74	72
4	91	82	75	70	89	81	74	69	78	73	68	76	71	67	74	70	67	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	60	58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	63	58	54	52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	49	47
8	70	58	51	46	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	54	46	42	64	53	46	42	52	46	41	51	45	41	50	45	41	50	45	41	39
10	61	50	43	38	60	49	43	38	48	42	38	47	42	38	47	41	38	47	41	38	36

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

	0°	45°	90°	135°	180°
0°	24283	24283	24283	24283	24283
5°	31361	29113	24151	17202	13122
10°	38753	32825	23364	6506	1924
15°	50191	37353	21324	1426	1266
20°	51427	43510	17155	1191	1228
25°	52257	46062	11497	1159	1235
30°	58009	45739	5926	1153	1293
35°	60509	44719	1640	1219	1409
40°	66210	39231	787	1304	1551
45°	64762	33343	779	1413	1729
50°	46700	8225	857	1554	1902
55°	8948	510	901	1681	2132
60°	448	517	896	1791	2308
65°	448	530	897	1834	2486
70°	453	554	856	1863	2518
75°	399	599	865	1863	2595
80°	198	595	893	1884	2579
85°	395	395	790	1778	2569

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 64762 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	12.3	5.4
10°-20°	33.8	14.8
20°-30°	52.1	22.8
30°-40°	61.1	26.7
40°-50°	49.0	21.4
50°-60°	15.2	6.6
60°-70°	2.9	1.3
70°-80°	1.9	0.8
80°-90°	0.6	0.3
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°	98.2	42.9
0°-40°	159.3	69.6
0°-60°	223.5	97.6
0°-90°	229.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	229.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	141	141	141	141	141	
5°	181	168	140	100	76	19
15°	282	210	120	8	7	77
25°	275	242	60	6	6	130
35°	288	213	8	6	7	182
45°	266	137	3	6	7	190
55°	30	2	3	6	7	47
65°	1	1	2	4	6	1
75°	1	1	1	3	4	1
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°	141.0	141.0	141.0	141.0	141.0	141.0	141.0	141.0	141.0	141.0	141.0
2.5°	162.6	160.9	160.9	160.2	159.6	159.8	158.0	158.7	157.0	155.7	154.6
5°	181.4	179.2	179.0	177.9	176.9	176.0	173.8	172.5	169.9	168.4	165.2
7.5°	200.9	199.1	198.0	196.7	194.8	192.6	189.0	186.6	182.5	178.4	174.3
10°	221.6	220.1	217.7	216.2	210.8	207.3	202.4	199.1	193.1	187.7	181.4
12.5°	257.9	257.1	252.5	249.5	241.7	234.8	224.0	215.3	204.5	195.7	187.2
15°	281.5	280.4	278.0	275.2	270.3	262.5	252.7	240.6	225.5	209.5	195.2
17.5°	285.6	285.8	284.3	283.7	280.4	275.4	267.7	258.6	243.4	225.7	206.3
20°	280.6	282.4	281.9	283.2	283.9	281.9	276.7	267.9	254.7	237.4	215.6
22.5°	274.6	276.1	275.7	278.0	281.7	283.7	281.9	274.8	261.4	242.1	220.7
25°	275.0	276.1	272.9	274.4	279.1	283.9	284.1	277.8	263.3	242.4	220.3
27.5°	284.5	281.3	273.9	273.3	279.1	285.2	285.6	277.8	260.5	237.8	216.0
30°	291.7	289.3	281.1	280.0	285.6	289.7	287.6	275.4	253.8	230.0	209.7
32.5°	288.2	288.6	285.2	288.6	296.0	297.7	288.6	269.8	244.5	222.5	202.4
35°	287.8	289.5	291.4	296.8	301.8	297.7	283.2	259.2	234.6	212.7	190.9
37.5°	290.4	293.2	296.0	300.7	300.7	290.1	269.0	245.8	222.7	198.9	167.1
40°	294.5	296.2	297.1	296.6	290.8	275.2	252.7	229.6	207.6	174.5	151.3
42.5°	289.1	288.8	288.0	284.3	273.5	253.2	232.2	213.4	178.6	157.4	131.0
45°	265.9	265.9	263.6	257.7	247.8	230.9	212.3	184.9	162.8	136.9	97.3
47.5°	201.3	199.8	202.4	205.8	205.8	204.3	187.4	163.7	141.2	98.8	31.1
50°	174.3	171.9	168.6	169.3	168.9	170.6	159.8	141.8	104.4	30.7	2.2
52.5°	98.6	102.9	113.5	128.4	135.1	137.5	130.8	107.9	35.2	1.9	1.7
55°	29.8	30.7	34.8	42.8	58.2	74.4	75.5	35.0	2.4	1.7	1.7
57.5°	1.3	1.3	1.7	2.6	6.1	9.1	9.7	2.2	1.5	1.7	1.7
60°	1.3	1.3	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.7
62.5°	1.1	1.1	1.3	1.3	1.3	1.3	1.3	1.3	1.5	1.5	1.5
65°	1.1	1.1	1.1	1.1	1.1	1.1	1.3	1.3	1.3	1.3	1.5
67.5°	0.9	0.9	0.9	1.1	1.1	1.1	1.1	1.1	1.3	1.3	1.3
70°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.1	1.1	1.1
72.5°	0.6	0.6	0.6	0.6	0.6	0.9	0.9	0.9	0.9	0.9	1.1
75°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.9	0.9	0.9	0.9
77.5°	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.6
80°	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.6
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4
87.5°	0.0	0.0	0.0	0.0	0.2	0.2	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°	141.0	141.0	141.0	141.0	141.0	141.0	141.0	141.0
2.5°	153.1	151.3	149.4	141.2	133.2	122.4	115.0	112.9
5°	162.4	159.6	155.2	139.7	120.9	99.5	82.2	75.9
7.5°	170.2	165.8	159.8	137.5	106.2	67.5	43.5	36.8
10°	175.8	170.4	162.6	133.6	86.7	37.2	14.7	11.0
12.5°	180.5	173.4	164.1	127.8	63.1	15.1	7.6	7.6
15°	183.8	175.1	164.7	119.6	40.9	8.0	7.1	7.1
17.5°	188.3	177.1	164.7	108.1	22.3	6.9	6.9	6.9
20°	195.7	179.0	162.4	93.6	12.3	6.5	6.7	6.7
22.5°	199.6	181.8	159.3	76.8	7.8	6.3	6.5	6.5
25°	200.4	181.4	152.9	60.5	6.3	6.1	6.3	6.5
27.5°	197.4	178.4	144.2	44.1	5.6	5.8	6.3	6.5
30°	192.0	171.0	130.4	29.8	5.2	5.8	6.3	6.5
32.5°	181.8	153.3	114.2	17.9	5.0	5.8	6.3	6.7
35°	159.1	134.7	95.6	7.8	4.8	5.8	6.5	6.7
37.5°	142.7	116.1	73.9	3.9	4.8	5.8	6.5	6.9
40°	124.5	93.4	34.2	3.5	4.8	5.8	6.5	6.9
42.5°	94.9	43.2	4.1	3.5	4.5	5.8	6.7	6.9
45°	34.6	4.5	2.2	3.2	4.5	5.8	6.7	7.1
47.5°	2.6	1.7	1.9	3.2	4.5	5.8	6.7	7.1
50°	1.7	1.7	1.9	3.2	4.5	5.8	6.7	7.1
52.5°	1.7	1.9	1.9	3.0	4.3	5.8	6.7	7.1
55°	1.7	1.9	1.9	3.0	4.3	5.6	6.7	7.1
57.5°	1.7	1.7	1.9	2.8	4.1	5.4	6.7	6.9
60°	1.7	1.7	1.9	2.6	3.9	5.2	6.3	6.7
62.5°	1.7	1.7	1.7	2.4	3.7	5.0	6.1	6.5
65°	1.5	1.5	1.7	2.2	3.2	4.5	5.6	6.1
67.5°	1.3	1.5	1.5	1.9	3.0	4.1	5.2	5.6
70°	1.3	1.3	1.3	1.7	2.6	3.7	4.8	5.0
72.5°	1.1	1.1	1.3	1.5	2.4	3.2	4.3	4.5
75°	0.9	1.1	1.1	1.3	1.9	2.8	3.7	3.9
77.5°	0.9	0.9	0.9	1.1	1.7	2.4	3.0	3.2
80°	0.6	0.6	0.6	0.9	1.3	1.9	2.4	2.6
82.5°	0.4	0.6	0.6	0.6	1.1	1.3	1.7	1.9
85°	0.4	0.4	0.4	0.4	0.6	0.9	1.1	1.3
87.5°	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)