

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: P1321000

Luminaire Tested: LDSQA3D02R50B2750DE010 3LSQCA30R 1MW_2700K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1321000
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D02R50B2750DE010 3LSQCA30R 1MW_2700K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R50 optic, 2700K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

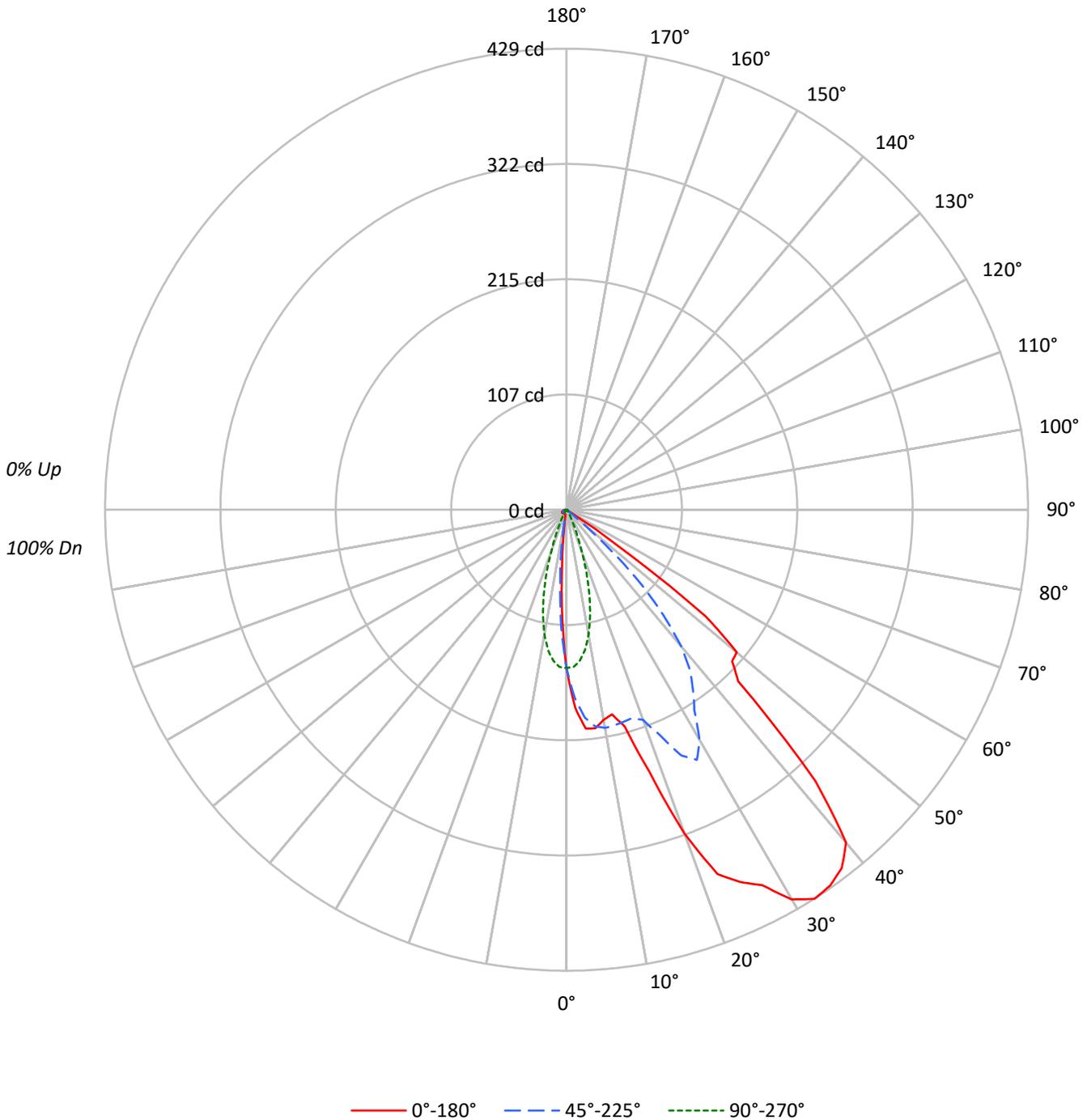
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 228.9 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
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	103	110	107	104	101	102	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	79	68	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	25351	25351	25351	25351	25351
5°	35354	33539	24376	11721	7607
10°	34714	36043	20601	2466	1067
15°	37211	36426	14567	856	820
20°	58776	38140	7679	733	770
25°	72628	47906	3059	684	760
30°	83265	49140	1253	676	795
35°	89775	43121	547	715	883
40°	90873	37140	405	809	989
45°	54923	24064	390	877	1120
50°	55328	4153	429	1018	1286
55°	16364	240	480	1141	1441
60°	276	276	482	1240	1584
65°	245	245	489	1304	1712
70°	302	302	504	1410	1913
75°	266	266	532	1464	1996
80°	198	397	595	1389	2182
85°	395	790	790	1581	1976

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 62717 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.9	5.2
10°-20°	29.6	12.9
20°-30°	55.4	24.2
30°-40°	66.2	28.9
40°-50°	47.4	20.7
50°-60°	14.6	6.4
60°-70°	1.9	0.8
70°-80°	1.4	0.6
80°-90°	0.6	0.2
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°	96.8	42.3
0°-40°	163.0	71.2
0°-60°	225.1	98.3
0°-90°	228.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	228.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	147	147	147	147	147	
5°	204	194	141	68	44	19
15°	209	204	82	5	5	67
25°	382	252	16	4	4	176
35°	427	205	3	3	4	265
45°	226	99	2	4	5	207
55°	54	1	2	4	5	70
65°	1	1	1	3	4	1
75°	0	0	1	2	3	0
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°	147.2	147.2	147.2	147.2	147.2	147.2	147.2	147.2	147.2	147.2	147.2
2.5°	184.1	184.5	185.1	183.5	182.5	181.7	180.3	179.9	176.5	175.1	173.6
5°	204.5	204.1	204.5	203.9	203.5	202.3	201.1	199.1	196.8	194.0	190.8
7.5°	205.1	204.7	205.5	205.5	206.3	206.3	206.3	206.5	205.3	203.3	200.5
10°	198.5	198.5	199.3	198.9	200.3	200.9	202.3	204.7	205.9	206.1	205.3
12.5°	195.0	195.0	195.2	194.4	194.8	195.4	197.0	199.9	202.7	205.5	207.1
15°	208.7	209.1	206.3	202.3	199.3	196.0	195.0	196.8	199.9	204.3	207.9
17.5°	255.3	255.9	252.9	243.2	234.0	220.6	208.7	202.9	199.7	203.3	208.1
20°	320.7	318.5	313.2	302.9	289.4	268.8	250.3	231.5	213.6	208.1	209.7
22.5°	366.9	366.1	361.8	350.3	338.6	319.5	295.9	269.6	243.6	227.1	218.4
25°	382.2	381.6	377.7	370.9	364.4	349.9	328.7	302.3	275.1	252.1	230.3
27.5°	393.7	392.9	386.8	379.2	372.5	357.8	338.4	318.5	293.4	262.4	228.9
30°	418.7	416.5	408.0	394.3	381.6	361.2	339.8	315.0	281.1	247.1	214.4
32.5°	429.2	428.0	420.7	409.6	395.7	369.1	336.6	295.1	250.5	221.0	197.2
35°	427.0	425.1	417.7	405.0	388.0	362.4	319.1	262.0	225.7	205.1	178.3
37.5°	420.3	417.7	408.8	393.9	373.3	339.8	283.2	235.2	211.8	188.6	152.5
40°	404.2	399.9	389.6	374.1	353.5	309.6	250.5	219.0	197.2	165.2	123.6
42.5°	342.5	340.2	345.3	342.7	324.5	272.7	227.3	204.3	174.3	133.5	89.5
45°	225.5	229.3	238.4	253.9	257.5	234.6	208.3	180.1	143.4	98.8	51.6
47.5°	208.7	207.9	210.2	213.2	213.8	204.1	180.3	148.8	106.5	56.5	14.3
50°	206.5	205.3	203.5	199.9	192.2	173.4	146.4	108.5	61.5	15.5	1.0
52.5°	163.2	162.0	162.0	156.7	146.8	128.7	101.0	59.7	17.1	1.0	0.8
55°	54.5	58.1	57.5	57.3	61.7	56.9	43.6	15.3	1.4	0.8	0.8
57.5°	1.0	1.0	1.0	1.8	2.8	4.0	2.4	1.2	0.8	0.8	0.8
60°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
62.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
65°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.8
67.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
70°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
72.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.6
75°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6
77.5°	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.4	0.4
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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°	147.2	147.2	147.2	147.2	147.2	147.2	147.2	147.2
2.5°	170.4	167.6	162.2	146.6	129.5	109.9	96.6	95.0
5°	185.7	181.5	172.6	141.0	101.8	67.8	50.4	44.0
7.5°	195.8	190.2	179.3	131.7	74.2	35.7	19.2	15.3
10°	201.9	196.6	182.7	117.8	47.2	14.1	6.5	6.1
12.5°	205.1	200.1	183.9	101.0	26.6	6.5	5.0	5.0
15°	207.3	201.9	182.1	81.7	13.3	4.8	4.6	4.6
17.5°	208.3	201.7	176.9	61.5	7.1	4.4	4.4	4.4
20°	208.9	199.5	167.2	41.9	4.8	4.0	4.2	4.2
22.5°	209.5	194.0	154.5	26.6	3.8	3.8	4.0	4.0
25°	208.3	184.5	136.5	16.1	3.4	3.6	3.8	4.0
27.5°	199.7	170.2	114.8	9.9	3.0	3.4	3.8	4.0
30°	184.7	149.2	89.5	6.3	2.8	3.4	3.8	4.0
32.5°	165.4	125.2	63.9	3.8	2.8	3.4	3.8	4.0
35°	139.4	95.8	41.5	2.6	2.8	3.4	4.0	4.2
37.5°	110.1	67.0	22.4	2.0	2.8	3.4	4.0	4.2
40°	79.3	40.1	8.1	1.8	2.6	3.6	4.2	4.4
42.5°	46.4	14.9	1.4	1.6	2.6	3.6	4.2	4.4
45°	13.3	1.6	0.8	1.6	2.6	3.6	4.4	4.6
47.5°	1.0	0.6	0.8	1.6	2.6	3.6	4.4	4.8
50°	0.6	0.6	0.6	1.6	2.6	3.8	4.6	4.8
52.5°	0.8	0.8	0.8	1.6	2.6	3.8	4.6	4.8
55°	0.8	0.8	0.8	1.6	2.6	3.8	4.6	4.8
57.5°	0.8	0.8	0.8	1.6	2.6	3.6	4.6	4.8
60°	0.8	0.8	0.8	1.4	2.4	3.6	4.4	4.6
62.5°	0.8	0.8	0.8	1.4	2.4	3.4	4.4	4.4
65°	0.8	0.8	0.8	1.2	2.2	3.2	4.0	4.2
67.5°	0.8	0.8	0.8	1.2	2.0	3.0	3.8	4.0
70°	0.6	0.8	0.8	1.0	1.8	2.8	3.6	3.8
72.5°	0.6	0.6	0.8	1.0	1.6	2.4	3.2	3.4
75°	0.6	0.6	0.6	0.8	1.4	2.2	2.8	3.0
77.5°	0.6	0.6	0.6	0.8	1.2	1.8	2.6	2.6
80°	0.4	0.6	0.6	0.6	1.0	1.4	2.0	2.2
82.5°	0.4	0.4	0.4	0.6	0.8	1.2	1.6	1.6
85°	0.4	0.4	0.4	0.4	0.6	0.8	1.0	1.0
87.5°	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)