

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: P1321003

Luminaire Tested: LDSQA3D02R50B2750DE010 3LSQCA30R 1MW_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1321003
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_4000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R50 optic, 4000K CCT AND, 80CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

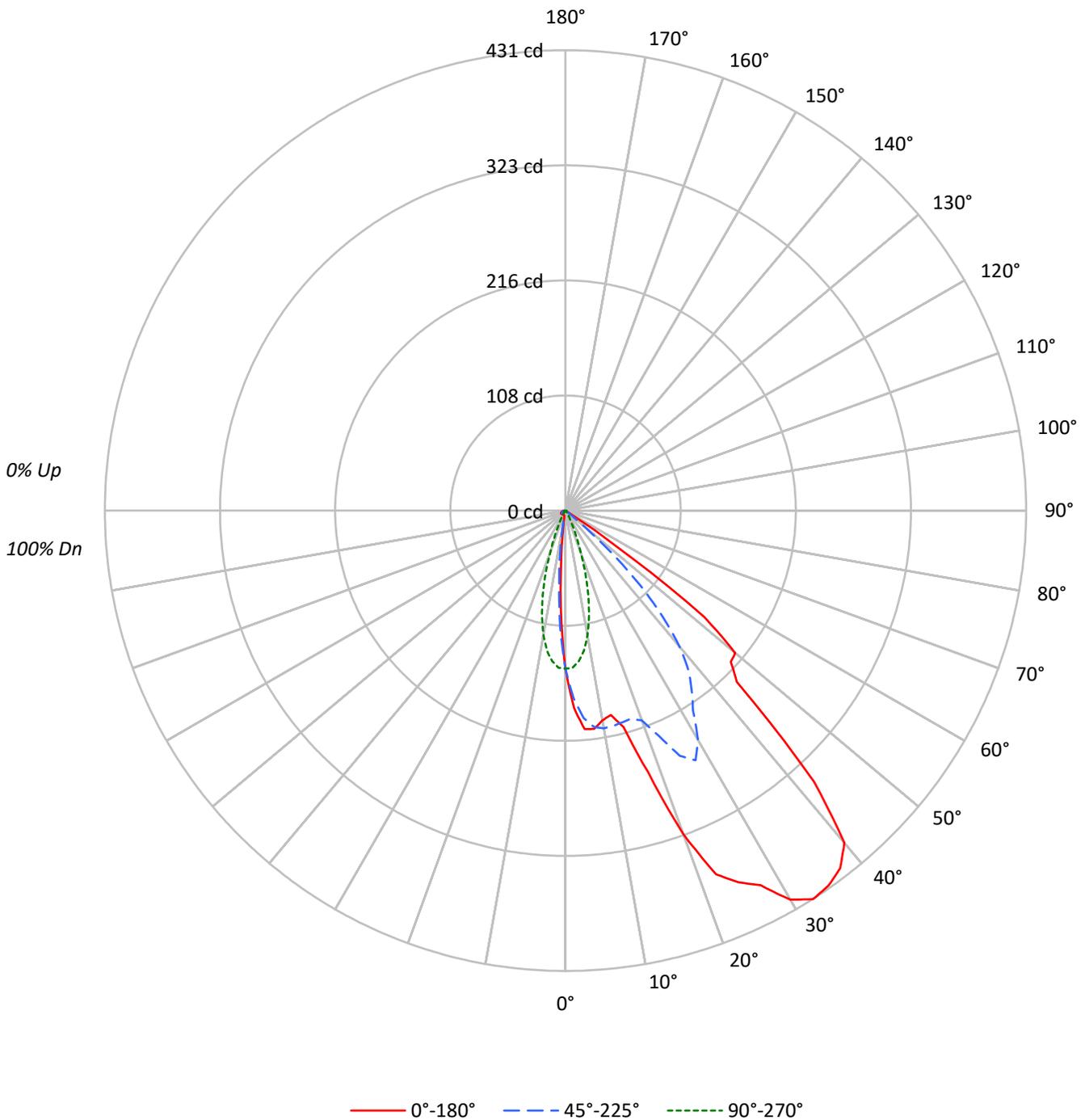
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 229.9 lumens
Efficiency: N/A
Efficacy: 79.3 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

TEST NUMBER: P1321003
CATALOG NUMBER: LDSQA3D02R50B2750DE010 3LSQA30R 1MW_4000K

Luminous Intensity Polar Plot





TEST NUMBER: P1321003

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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°	25472	25472	25472	25472	25472
5°	35510	33694	24480	11773	7641
10°	34853	36200	20688	2483	1067
15°	37389	36587	14620	874	838
20°	59033	38305	7716	751	788
25°	72951	48115	3078	684	779
30°	83623	49339	1253	676	815
35°	90153	43310	547	715	904
40°	91255	37298	405	809	1012
45°	55166	24185	390	877	1145
50°	55569	4180	429	1018	1313
55°	16424	240	480	1141	1471
60°	276	276	482	1240	1619
65°	245	245	489	1304	1752
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: 63009 cd/sqm



TEST NUMBER: P1321003

CATALOG NUMBER: LDSQA3D02R50B2750DE010 3LSQCA30R 1MW_4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.0	5.2
10°-20°	29.7	12.9
20°-30°	55.6	24.2
30°-40°	66.5	28.9
40°-50°	47.7	20.7
50°-60°	14.7	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°	97.3	42.3
0°-40°	163.8	71.2
0°-60°	226.1	98.3
0°-90°	229.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	229.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	148	148	148	148	148	
5°	205	195	142	68	44	19
15°	210	205	82	5	5	67
25°	384	253	16	4	4	177
35°	429	206	3	3	4	266
45°	226	99	2	4	5	208
55°	55	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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CATALOG NUMBER: LDSQA3D02R50B2750DE010 3LSQCA30R 1MW_4000K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	147.9	147.9	147.9	147.9	147.9	147.9	147.9	147.9	147.9	147.9	147.9
2.5°	184.9	185.3	186.0	184.3	183.3	182.5	181.1	180.7	177.2	175.8	174.4
5°	205.4	205.0	205.4	204.8	204.4	203.2	202.0	199.9	197.7	194.9	191.6
7.5°	206.0	205.6	206.4	206.4	207.2	207.2	207.2	207.4	206.2	204.2	201.3
10°	199.3	199.3	200.1	199.7	201.1	201.8	203.2	205.6	206.8	207.0	206.2
12.5°	195.9	195.9	196.1	195.3	195.7	196.3	197.9	200.7	203.6	206.4	208.0
15°	209.7	210.1	207.2	203.2	200.1	196.9	195.9	197.7	200.7	205.2	208.8
17.5°	256.4	257.1	254.0	244.3	235.0	221.6	209.7	203.8	200.5	204.2	209.0
20°	322.1	319.8	314.6	304.2	290.7	270.0	251.4	232.5	214.5	209.0	210.7
22.5°	368.5	367.7	363.4	351.9	340.1	320.9	297.2	270.8	244.7	228.1	219.4
25°	383.9	383.2	379.4	372.5	366.0	351.4	330.2	303.6	276.3	253.2	231.3
27.5°	395.4	394.6	388.5	380.8	374.1	359.3	339.9	319.8	294.7	263.5	229.9
30°	420.5	418.3	409.8	396.0	383.2	362.8	341.3	316.4	282.4	248.1	215.3
32.5°	431.1	429.8	422.5	411.4	397.4	370.7	338.1	296.3	251.6	222.0	198.1
35°	428.8	427.0	419.5	406.7	389.7	364.0	320.5	263.1	226.7	206.0	179.1
37.5°	422.1	419.5	410.6	395.6	374.9	341.3	284.4	236.2	212.7	189.4	153.1
40°	405.9	401.7	391.4	375.8	355.1	310.9	251.6	220.0	198.1	165.9	124.2
42.5°	344.0	341.7	346.8	344.2	325.9	273.9	228.3	205.2	175.0	134.1	89.9
45°	226.5	230.3	239.4	255.0	258.7	235.6	209.2	180.9	144.0	99.3	51.9
47.5°	209.7	208.8	211.1	214.1	214.7	205.0	181.1	149.5	107.0	56.7	14.4
50°	207.4	206.2	204.4	200.7	193.0	174.2	147.1	109.0	61.8	15.6	1.0
52.5°	163.9	162.7	162.7	157.4	147.5	129.2	101.5	60.0	17.2	1.0	0.8
55°	54.7	58.3	57.7	57.5	62.0	57.1	43.8	15.4	1.4	0.8	0.8
57.5°	1.0	1.0	1.0	1.8	2.8	4.1	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



TEST NUMBER: P1321003

CATALOG NUMBER: LDSQA3D02R50B2750DE010 3LSQCA30R 1MW_4000K

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	147.9	147.9	147.9	147.9	147.9	147.9	147.9	147.9
2.5°	171.2	168.3	162.9	147.3	130.0	110.4	97.0	95.4
5°	186.6	182.3	173.4	141.6	102.3	68.1	50.6	44.2
7.5°	196.7	191.0	180.1	132.3	74.5	35.9	19.2	15.4
10°	202.8	197.5	183.5	118.3	47.4	14.2	6.5	6.1
12.5°	206.0	200.9	184.7	101.5	26.7	6.5	5.1	5.1
15°	208.2	202.8	182.9	82.0	13.4	4.9	4.7	4.7
17.5°	209.2	202.6	177.6	61.8	7.1	4.5	4.5	4.5
20°	209.9	200.3	167.9	42.1	4.9	4.1	4.3	4.3
22.5°	210.5	194.9	155.2	26.7	3.8	3.8	4.1	4.1
25°	209.2	185.3	137.1	16.2	3.4	3.6	3.8	4.1
27.5°	200.5	171.0	115.3	9.9	3.0	3.4	3.8	4.1
30°	185.5	149.9	89.9	6.3	2.8	3.4	3.8	4.1
32.5°	166.1	125.8	64.2	3.8	2.8	3.4	3.8	4.1
35°	140.0	96.2	41.7	2.6	2.8	3.4	4.1	4.3
37.5°	110.6	67.3	22.5	2.0	2.8	3.4	4.1	4.3
40°	79.6	40.3	8.1	1.8	2.6	3.6	4.3	4.5
42.5°	46.6	15.0	1.4	1.6	2.6	3.6	4.3	4.5
45°	13.4	1.6	0.8	1.6	2.6	3.6	4.5	4.7
47.5°	1.0	0.6	0.8	1.6	2.6	3.6	4.5	4.9
50°	0.6	0.6	0.6	1.6	2.6	3.8	4.7	4.9
52.5°	0.8	0.8	0.8	1.6	2.6	3.8	4.7	4.9
55°	0.8	0.8	0.8	1.6	2.6	3.8	4.7	4.9
57.5°	0.8	0.8	0.8	1.6	2.6	3.6	4.7	4.9
60°	0.8	0.8	0.8	1.4	2.4	3.6	4.5	4.7
62.5°	0.8	0.8	0.8	1.4	2.4	3.4	4.5	4.5
65°	0.8	0.8	0.8	1.2	2.2	3.2	4.1	4.3
67.5°	0.8	0.8	0.8	1.2	2.0	3.0	3.8	4.1
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)