

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: P1321064

Luminaire Tested: LDSQA3D02R55B2750DE010 3LSQCA45R 1MW_5000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1321064
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-80)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D02R55B2750DE010 3LSQCA45R 1MW_5000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R55 optic, 5000K CCT AND, 80CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

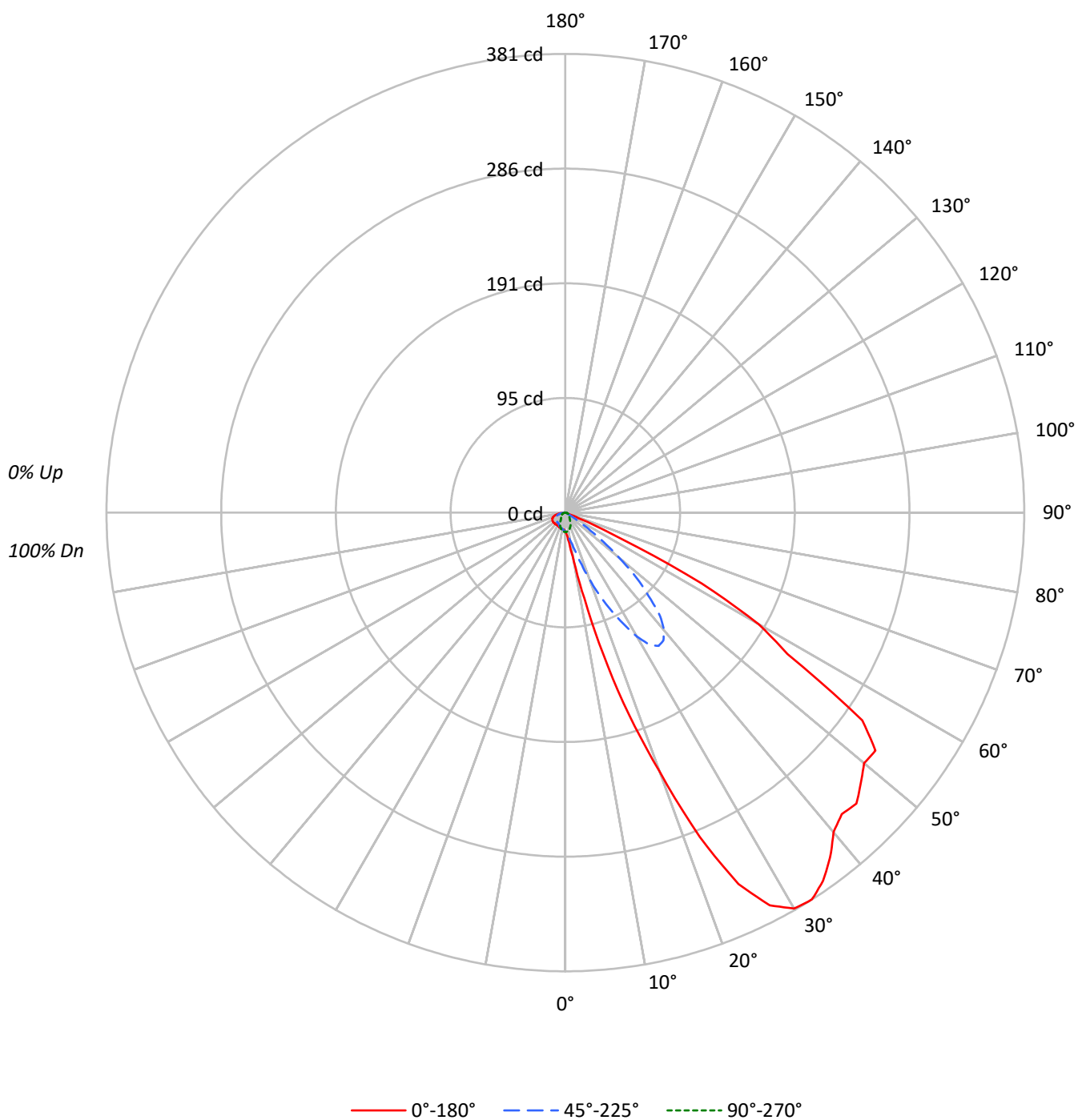
Lumens per Lamp: N/A
Luminaire Lumens: 245.0 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.91 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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
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	100		
1	110	106	102	99	107	104	100	97	99	97	94	95	93	91	92	90	88	86		
2	100	93	86	81	98	91	85	80	87	83	78	84	80	77	81	78	75	73		
3	91	81	73	67	89	80	72	67	77	71	65	74	69	64	72	67	63	61		
4	83	71	63	56	81	70	62	56	68	61	55	65	59	54	63	58	54	51		
5	76	63	54	47	74	62	53	47	60	52	47	58	51	46	56	50	46	43		
6	69	56	47	40	68	55	46	40	53	46	40	51	45	39	50	44	39	37		
7	64	50	41	35	62	49	41	35	48	40	34	46	39	34	45	38	34	32		
8	59	45	36	30	57	44	36	30	43	35	30	41	35	29	40	34	29	27		
9	54	40	32	26	53	40	32	26	39	31	26	38	31	26	36	30	26	24		
10	50	37	28	23	49	36	28	23	35	28	23	34	27	23	33	27	23	21		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	2721	2721	2721	2721	2721
5°	3475	3181	2732	2541	2472
10°	7083	4057	2658	2431	2431
15°	21735	6223	2478	2354	2425
20°	42007	10868	2218	2309	2419
25°	64666	16912	1938	2223	2432
30°	75509	23625	1591	2188	2506
35°	78463	28404	1325	2187	2586
40°	77878	28665	1214	2293	2833
45°	83249	23723	1169	2484	3069
50°	86756	15647	1152	2679	3430
55°	90349	6816	1171	2913	3783
60°	63826	1550	1206	3203	4237
65°	20824	530	1141	3423	4768
70°	655	554	1209	3726	5438
75°	599	599	998	3859	6055
80°	397	595	1091	3868	6447
85°	395	790	1186	3754	6323

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 91803 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.7	0.7
10°-20°	10.4	4.2
20°-30°	34.9	14.2
30°-40°	57.3	23.4
40°-50°	63.9	26.1
50°-60°	53.8	21.9
60°-70°	18.2	7.4
70°-80°	3.6	1.5
80°-90°	1.3	0.5
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°	47.0	19.2
0°-40°	104.2	42.5
0°-60°	221.9	90.6
0°-90°	245.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	245.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	16	16	16	16	16	
5°	20	18	16	15	14	3
15°	122	35	14	13	14	39
25°	340	89	10	12	13	153
35°	373	135	6	10	12	232
45°	342	97	5	10	13	261
55°	301	23	4	10	13	245
65°	51	1	3	8	12	69
75°	1	1	2	6	9	1
85°	0	0	1	2	3	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	45°	67.5°	90°	112.5°	135°
0°	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8	15.8
2.5°	17.3	17.3	17.3	17.3	17.3	17.3	17.1	16.5	16.0	15.4	15.2
5°	20.1	20.1	20.1	19.9	19.9	19.5	18.4	16.9	15.8	14.9	14.7
7.5°	26.0	25.8	25.3	25.1	24.5	24.2	20.3	17.3	15.6	14.5	14.3
10°	40.5	40.0	39.4	37.0	34.9	33.3	23.2	17.5	15.2	14.1	13.9
12.5°	73.0	72.1	68.8	63.9	57.8	54.8	27.7	17.8	14.5	13.6	13.6
15°	121.9	120.8	114.7	107.8	96.8	90.7	34.9	17.5	13.9	13.0	13.2
17.5°	176.0	173.0	166.7	157.6	142.7	135.5	45.5	17.1	13.0	12.6	13.0
20°	229.2	228.4	218.0	205.6	187.2	177.7	59.3	16.5	12.1	11.9	12.6
22.5°	291.6	287.9	276.9	263.7	238.3	225.8	74.2	15.6	11.3	11.3	12.1
25°	340.3	336.0	327.3	311.9	287.9	274.5	89.0	14.5	10.2	10.6	11.7
27.5°	367.6	362.6	356.1	342.9	324.3	312.4	103.7	13.2	9.1	10.0	11.3
30°	379.7	378.4	373.6	363.9	346.8	336.2	118.8	11.7	8.0	9.3	11.0
32.5°	381.0	381.6	379.7	373.4	360.4	351.3	130.1	10.4	7.1	8.9	10.6
35°	373.2	375.6	376.9	374.3	365.8	358.5	135.1	8.9	6.3	8.4	10.4
37.5°	361.1	365.4	369.7	370.4	365.2	360.4	133.8	7.6	5.8	8.2	10.4
40°	346.4	350.3	359.1	364.8	363.0	359.6	127.5	6.3	5.4	7.8	10.2
42.5°	339.6	340.5	350.0	359.6	359.1	356.3	116.5	5.0	5.0	7.8	10.2
45°	341.8	337.9	344.2	355.2	354.6	350.9	97.4	3.9	4.8	7.6	10.2
47.5°	332.7	327.3	337.9	350.9	348.5	343.1	80.5	2.8	4.5	7.4	10.0
50°	323.8	323.0	331.2	337.7	334.4	331.4	58.4	2.2	4.3	7.1	10.0
52.5°	324.5	323.0	323.8	323.6	317.1	313.9	40.0	1.7	4.1	6.9	10.0
55°	300.9	296.1	291.6	292.9	293.3	291.2	22.7	1.5	3.9	6.9	9.7
57.5°	218.6	217.3	222.3	236.4	247.4	248.7	11.0	1.5	3.7	6.7	9.5
60°	185.3	184.4	184.7	188.8	194.6	190.9	4.5	1.5	3.5	6.5	9.3
62.5°	127.7	136.2	139.6	149.1	145.3	140.1	1.7	1.7	3.2	6.1	9.1
65°	51.1	50.9	55.6	60.2	58.9	55.0	1.3	1.5	2.8	5.6	8.4
67.5°	11.9	10.8	9.3	8.0	6.7	5.4	1.3	1.5	2.6	5.2	8.0
70°	1.3	1.3	1.3	1.3	1.3	1.1	1.1	1.5	2.4	4.8	7.4
72.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.3	1.9	4.1	6.7
75°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.5	3.5	5.8
77.5°	0.6	0.6	0.6	0.9	0.6	0.9	0.9	1.1	1.3	2.8	5.0
80°	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.9	1.1	2.4	3.9
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.9	1.7	2.8
85°	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.6	0.6	1.3	1.9
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.6	0.6	0.9
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):

	157.5°	180°
0°	15.8	15.8
2.5°	14.9	14.9
5°	14.5	14.3
7.5°	14.1	14.1
10°	13.9	13.9
12.5°	13.6	13.9
15°	13.6	13.6
17.5°	13.2	13.4
20°	13.0	13.2
22.5°	12.8	13.0
25°	12.6	12.8
27.5°	12.3	12.6
30°	12.1	12.6
32.5°	11.9	12.3
35°	11.9	12.3
37.5°	11.9	12.6
40°	11.9	12.6
42.5°	11.9	12.6
45°	11.9	12.6
47.5°	11.9	12.6
50°	11.9	12.8
52.5°	11.9	12.8
55°	11.9	12.6
57.5°	11.7	12.6
60°	11.7	12.3
62.5°	11.5	12.1
65°	11.0	11.7
67.5°	10.6	11.5
70°	10.0	10.8
72.5°	9.3	10.0
75°	8.4	9.1
77.5°	7.4	7.8
80°	5.8	6.5
82.5°	4.5	5.0
85°	3.0	3.2
87.5°	1.3	1.5
90°	0.0	0.0

(END OF REPORT)