

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: P1321058

Luminaire Tested: LDSQA3D02R55B2750DE010 3LSQCA45R 1MMS_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1321058
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 1MMS_4000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R55 optic, 4000K CCT AND, 80CRI , 3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

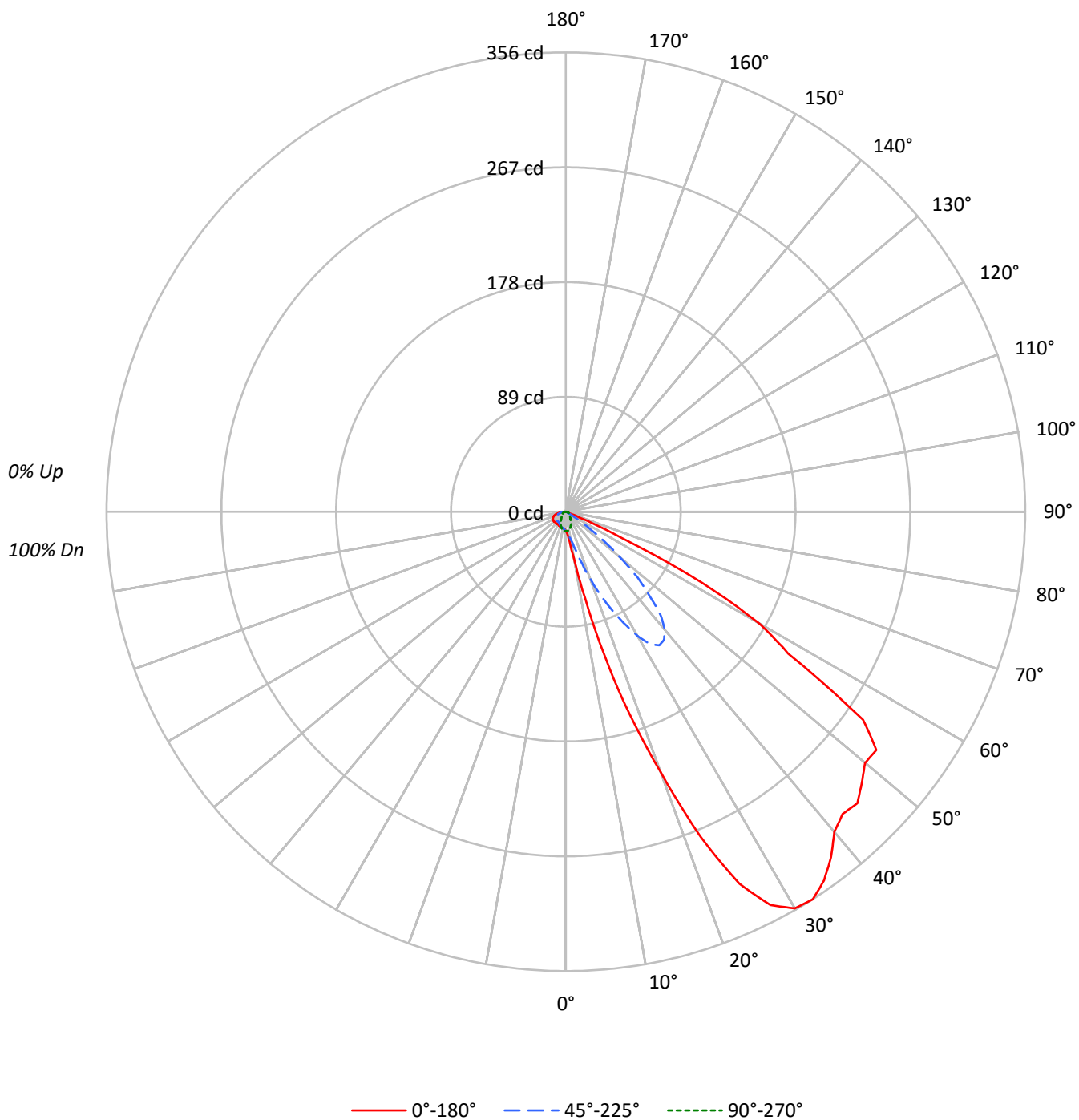
Lumens per Lamp: N/A
Luminaire Lumens: 229.0 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Spacing Criteria (0/90/45): 3.75 / 0.9 / 1.94
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	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°	2549	2549	2549	2549	2549
5°	3250	2974	2559	2386	2317
10°	6610	3777	2483	2256	2256
15°	20308	5813	2300	2193	2264
20°	39276	10153	2071	2144	2254
25°	60447	15810	1805	2071	2261
30°	70577	22094	1491	2048	2327
35°	73333	26554	1240	2039	2418
40°	72774	26799	1147	2136	2630
45°	77817	22188	1096	2314	2850
50°	81103	14629	1072	2492	3188
55°	84433	6366	1081	2732	3513
60°	59658	1447	1102	2997	3961
65°	19479	489	1060	3219	4442
70°	604	504	1108	3474	5086
75°	532	532	932	3660	5656
80°	397	595	992	3570	6050
85°	395	790	1186	3557	5928

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 85806 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.6	0.7
10°-20°	9.7	4.2
20°-30°	32.6	14.2
30°-40°	53.5	23.4
40°-50°	59.7	26.1
50°-60°	50.2	21.9
60°-70°	17.0	7.4
70°-80°	3.3	1.5
80°-90°	1.2	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°	43.9	19.2
0°-40°	97.4	42.5
0°-60°	207.3	90.6
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°	15	15	15	15	15	
5°	19	17	15	14	13	2
15°	114	33	13	12	13	36
25°	318	83	10	11	12	143
35°	349	126	6	10	12	217
45°	320	91	4	10	12	244
55°	281	21	4	9	12	229
65°	48	1	3	8	11	65
75°	1	1	1	6	8	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°	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8	14.8
2.5°	16.2	16.2	16.2	16.2	16.2	16.2	16.0	15.4	15.0	14.4	14.2
5°	18.8	18.8	18.8	18.6	18.6	18.2	17.2	15.8	14.8	14.0	13.8
7.5°	24.3	24.1	23.7	23.5	22.9	22.7	19.0	16.2	14.6	13.6	13.4
10°	37.8	37.4	36.8	34.6	32.6	31.2	21.6	16.4	14.2	13.2	12.9
12.5°	68.2	67.4	64.3	59.7	54.0	51.2	25.9	16.6	13.6	12.7	12.7
15°	113.9	112.9	107.2	100.8	90.4	84.8	32.6	16.4	12.9	12.1	12.3
17.5°	164.5	161.7	155.8	147.3	133.3	126.7	42.5	16.0	12.1	11.7	12.1
20°	214.3	213.5	203.8	192.2	175.0	166.1	55.4	15.4	11.3	11.1	11.7
22.5°	272.5	269.1	258.8	246.4	222.8	211.0	69.4	14.6	10.5	10.5	11.3
25°	318.1	314.0	305.9	291.6	269.1	256.6	83.2	13.6	9.5	9.9	10.9
27.5°	343.6	338.9	332.8	320.5	303.1	292.0	96.9	12.3	8.5	9.3	10.5
30°	354.9	353.7	349.2	340.1	324.1	314.2	111.1	10.9	7.5	8.7	10.3
32.5°	356.1	356.7	354.9	349.0	336.9	328.4	121.6	9.7	6.7	8.3	9.9
35°	348.8	351.1	352.3	349.8	341.9	335.1	126.3	8.3	5.9	7.9	9.7
37.5°	337.5	341.5	345.6	346.2	341.3	336.9	125.0	7.1	5.5	7.7	9.7
40°	323.7	327.4	335.7	340.9	339.3	336.1	119.2	5.9	5.1	7.3	9.5
42.5°	317.5	318.3	327.2	336.1	335.7	333.0	108.9	4.7	4.7	7.3	9.5
45°	319.5	315.8	321.7	332.0	331.4	328.0	91.1	3.6	4.5	7.1	9.5
47.5°	311.0	305.9	315.8	328.0	325.8	320.7	75.3	2.6	4.2	6.9	9.3
50°	302.7	301.9	309.6	315.6	312.6	309.8	54.6	2.0	4.0	6.7	9.3
52.5°	303.3	301.9	302.7	302.5	296.4	293.4	37.4	1.6	3.8	6.5	9.3
55°	281.2	276.8	272.5	273.8	274.2	272.1	21.2	1.4	3.6	6.5	9.1
57.5°	204.4	203.1	207.8	221.0	231.3	232.5	10.3	1.4	3.4	6.3	8.9
60°	173.2	172.4	172.6	176.4	181.9	178.5	4.2	1.4	3.2	6.1	8.7
62.5°	119.4	127.3	130.5	139.4	135.8	130.9	1.6	1.6	3.0	5.7	8.5
65°	47.8	47.5	52.0	56.2	55.0	51.4	1.2	1.4	2.6	5.3	7.9
67.5°	11.1	10.1	8.7	7.5	6.3	5.1	1.2	1.4	2.4	4.9	7.5
70°	1.2	1.2	1.2	1.2	1.2	1.0	1.0	1.4	2.2	4.5	6.9
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.8	3.8	6.3
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.4	3.2	5.5
77.5°	0.6	0.6	0.6	0.8	0.6	0.8	0.8	1.0	1.2	2.6	4.7
80°	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.8	1.0	2.2	3.6
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.8	1.6	2.6
85°	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.6	0.6	1.2	1.8
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	0.6	0.6	0.8
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°	14.8	14.8
2.5°	14.0	14.0
5°	13.6	13.4
7.5°	13.2	13.2
10°	12.9	12.9
12.5°	12.7	12.9
15°	12.7	12.7
17.5°	12.3	12.5
20°	12.1	12.3
22.5°	11.9	12.1
25°	11.7	11.9
27.5°	11.5	11.7
30°	11.3	11.7
32.5°	11.1	11.5
35°	11.1	11.5
37.5°	11.1	11.7
40°	11.1	11.7
42.5°	11.1	11.7
45°	11.1	11.7
47.5°	11.1	11.7
50°	11.1	11.9
52.5°	11.1	11.9
55°	11.1	11.7
57.5°	10.9	11.7
60°	10.9	11.5
62.5°	10.7	11.3
65°	10.3	10.9
67.5°	9.9	10.7
70°	9.3	10.1
72.5°	8.7	9.3
75°	7.9	8.5
77.5°	6.9	7.3
80°	5.5	6.1
82.5°	4.2	4.7
85°	2.8	3.0
87.5°	1.2	1.4
90°	0.0	0.0

(END OF REPORT)