

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: P1321051

Luminaire Tested: LDSQA3D02R55B2750DE010 3LSQCA45R 1MB_3000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1321051
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 1MB_3000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R55 optic, 3000K CCT AND, 90CRI , 3LSQCA45R 1MB TRIM
Light Source: -
Ballast/Driver: -

Summary

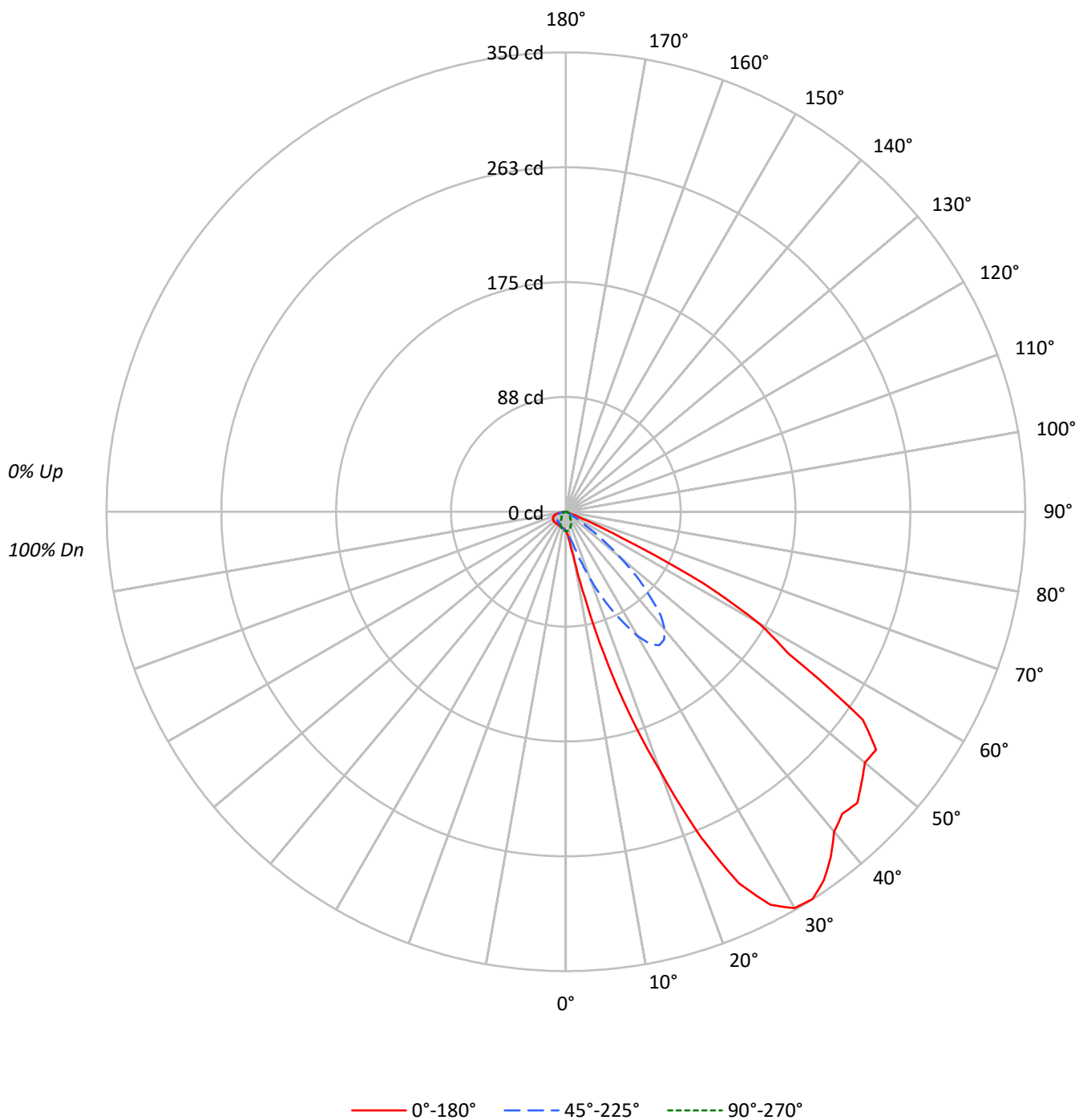
Lumens per Lamp: N/A
Luminaire Lumens: 225.0 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Spacing Criteria (0/90/45): 3.76 / 0.9 / 1.95
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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				0			
RW	70	50	30	10	70	50	30	10	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	110	106	102	99	107	104	100	97	99	96	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°	2497	2497	2497	2497	2497
5°	3198	2922	2507	2334	2265
10°	6506	3725	2431	2221	2221
15°	19952	5706	2264	2157	2229
20°	38579	9989	2034	2108	2218
25°	59383	15525	1767	2033	2223
30°	69344	21696	1472	2009	2287
35°	72051	26091	1219	1997	2376
40°	71515	26327	1124	2091	2585
45°	76453	21799	1072	2265	2801
50°	79683	14388	1072	2438	3135
55°	82962	6275	1081	2672	3453
60°	58625	1447	1102	2928	3892
65°	19112	489	1060	3179	4360
70°	604	504	1108	3424	4985
75°	532	532	932	3593	5523
80°	397	595	992	3570	5951
85°	395	790	1186	3557	5928

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 52.5°

Luminance: 84306 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.5	0.7
10°-20°	9.5	4.2
20°-30°	32.0	14.2
30°-40°	52.6	23.4
40°-50°	58.7	26.1
50°-60°	49.4	21.9
60°-70°	16.8	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°	43.1	19.2
0°-40°	95.7	42.5
0°-60°	203.7	90.5
0°-90°	225.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	225.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	14	14	14	14	14	
5°	18	17	14	14	13	2
15°	112	32	13	12	12	35
25°	312	82	9	11	12	140
35°	343	124	6	10	11	213
45°	314	90	4	9	12	240
55°	276	21	4	9	12	225
65°	47	1	3	8	11	64
75°	1	1	1	5	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°	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5
2.5°	15.9	15.9	15.9	15.9	15.9	15.9	15.7	15.1	14.7	14.1	13.9
5°	18.5	18.5	18.5	18.3	18.3	17.9	16.9	15.5	14.5	13.7	13.5
7.5°	23.9	23.7	23.3	23.1	22.5	22.3	18.7	15.9	14.3	13.3	13.1
10°	37.2	36.8	36.2	34.0	32.0	30.6	21.3	16.1	13.9	12.9	12.7
12.5°	67.0	66.2	63.2	58.6	53.1	50.3	25.4	16.3	13.3	12.5	12.5
15°	111.9	110.9	105.4	99.0	88.9	83.3	32.0	16.1	12.7	11.9	12.1
17.5°	161.6	158.8	153.1	144.7	131.0	124.4	41.7	15.7	11.9	11.5	11.9
20°	210.5	209.7	200.2	188.9	172.0	163.2	54.5	15.1	11.1	10.9	11.5
22.5°	267.8	264.4	254.3	242.1	218.9	207.3	68.2	14.3	10.3	10.3	11.1
25°	312.5	308.5	300.6	286.5	264.4	252.1	81.7	13.3	9.3	9.7	10.7
27.5°	337.6	333.0	327.0	314.9	297.8	286.9	95.2	12.1	8.3	9.1	10.3
30°	348.7	347.5	343.1	334.2	318.5	308.7	109.1	10.7	7.4	8.5	10.1
32.5°	349.9	350.5	348.7	342.9	331.0	322.7	119.5	9.5	6.6	8.2	9.7
35°	342.7	344.9	346.1	343.7	336.0	329.2	124.1	8.2	5.8	7.8	9.5
37.5°	331.6	335.6	339.6	340.1	335.4	331.0	122.9	7.0	5.4	7.6	9.5
40°	318.1	321.7	329.8	335.0	333.4	330.2	117.1	5.8	5.0	7.2	9.3
42.5°	311.9	312.7	321.5	330.2	329.8	327.2	107.0	4.6	4.6	7.2	9.3
45°	313.9	310.3	316.1	326.2	325.6	322.3	89.5	3.6	4.4	7.0	9.3
47.5°	305.6	300.6	310.3	322.3	320.1	315.1	74.0	2.6	4.2	6.8	9.1
50°	297.4	296.6	304.2	310.1	307.1	304.4	53.7	2.0	4.0	6.6	9.1
52.5°	298.0	296.6	297.4	297.2	291.2	288.3	36.8	1.6	3.8	6.4	9.1
55°	276.3	272.0	267.8	269.0	269.4	267.4	20.9	1.4	3.6	6.4	8.9
57.5°	200.8	199.6	204.2	217.1	227.2	228.4	10.1	1.4	3.4	6.2	8.7
60°	170.2	169.4	169.6	173.4	178.7	175.3	4.2	1.4	3.2	6.0	8.5
62.5°	117.3	125.0	128.2	137.0	133.4	128.6	1.6	1.6	3.0	5.6	8.3
65°	46.9	46.7	51.1	55.3	54.1	50.5	1.2	1.4	2.6	5.2	7.8
67.5°	10.9	9.9	8.5	7.4	6.2	5.0	1.2	1.4	2.4	4.8	7.4
70°	1.2	1.2	1.2	1.2	1.2	1.0	1.0	1.4	2.2	4.4	6.8
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.8	3.8	6.2
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.4	3.2	5.4
77.5°	0.6	0.6	0.6	0.8	0.6	0.8	0.8	1.0	1.2	2.6	4.6
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°	14.5	14.5
2.5°	13.7	13.7
5°	13.3	13.1
7.5°	12.9	12.9
10°	12.7	12.7
12.5°	12.5	12.7
15°	12.5	12.5
17.5°	12.1	12.3
20°	11.9	12.1
22.5°	11.7	11.9
25°	11.5	11.7
27.5°	11.3	11.5
30°	11.1	11.5
32.5°	10.9	11.3
35°	10.9	11.3
37.5°	10.9	11.5
40°	10.9	11.5
42.5°	10.9	11.5
45°	10.9	11.5
47.5°	10.9	11.5
50°	10.9	11.7
52.5°	10.9	11.7
55°	10.9	11.5
57.5°	10.7	11.5
60°	10.7	11.3
62.5°	10.5	11.1
65°	10.1	10.7
67.5°	9.7	10.5
70°	9.1	9.9
72.5°	8.5	9.1
75°	7.8	8.3
77.5°	6.8	7.2
80°	5.4	6.0
82.5°	4.2	4.6
85°	2.8	3.0
87.5°	1.2	1.4
90°	0.0	0.0

(END OF REPORT)