

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: P1320948

Luminaire Tested: LDSQA3D02R45B2750DE010 3LSQCA30R 1MB_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320948
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D02R45B2750DE010 3LSQCA30R 1MB_4000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R45 optic, 4000K CCT AND, 80CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

Summary

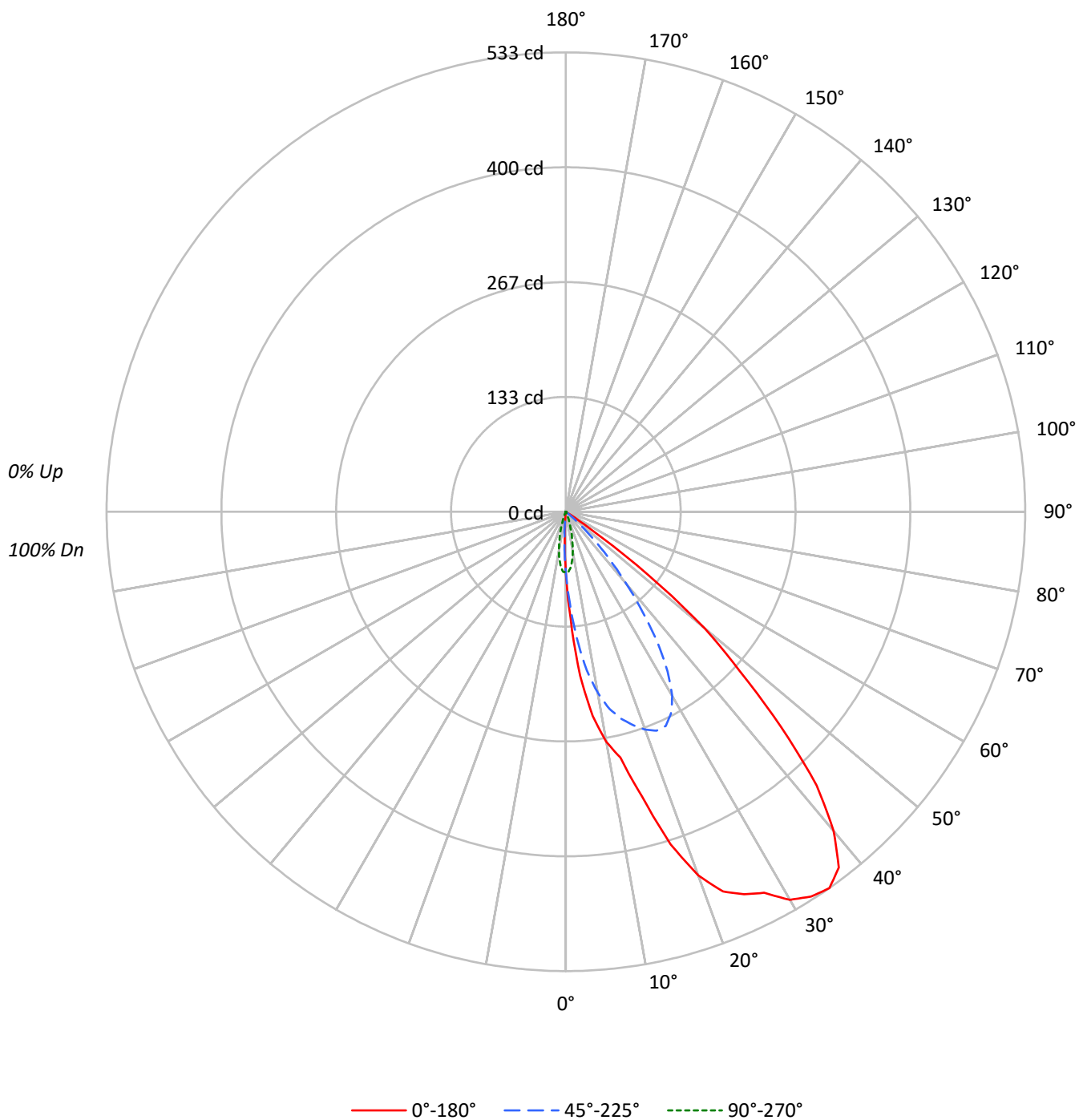
Lumens per Lamp: N/A
Luminaire Lumens: 226.0 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	112	109	106	104	110	107	104	102	103	101	99	99	98	96	96	94	93	91		
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82		
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60		
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	54		
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	49		
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44		
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	40		
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	12090	12090	12090	12090	12090
5°	33003	25396	11185	2247	847
10°	47392	37249	8097	210	175
15°	61014	44307	4297	71	0
20°	82236	49301	1631	0	0
25°	93018	52086	418	0	0
30°	103390	49100	40	0	0
35°	112082	39148	0	0	0
40°	108633	24573	0	0	0
45°	86123	11715	0	0	0
50°	56373	1474	0	0	0
55°	9698	0	0	0	0
60°	0	0	69	0	0
65°	0	82	82	0	0
70°	0	101	201	0	0
75°	0	133	266	0	0
80°	0	198	397	198	0
85°	0	395	790	395	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 86123 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.4	3.7
10°-20°	32.2	14.2
20°-30°	60.3	26.7
30°-40°	70.3	31.1
40°-50°	45.9	20.3
50°-60°	8.5	3.8
60°-70°	0.1	0.0
70°-80°	0.2	0.1
80°-90°	0.2	0.1
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°	100.8	44.6
0°-40°	171.2	75.7
0°-60°	225.6	99.8
0°-90°	226.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	226.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	70	70	70	70	70	
5°	191	147	65	13	5	20
15°	342	248	24	0	0	102
25°	490	274	2	0	0	226
35°	533	186	0	0	0	327
45°	354	48	0	0	0	269
55°	32	0	0	0	0	56
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	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°	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
2.5°	123.7	124.8	122.7	121.9	119.3	119.9	115.4	113.6	110.8	106.1	103.9
5°	190.9	189.1	187.4	184.0	182.0	176.5	170.4	163.5	155.2	146.9	137.3
7.5°	238.8	237.3	236.7	233.9	229.8	224.2	216.2	207.5	196.8	185.6	171.2
10°	271.0	269.6	267.2	264.3	261.1	256.4	248.7	239.2	227.4	213.0	196.2
12.5°	292.1	291.9	287.9	284.6	280.6	276.5	268.6	260.9	249.3	234.5	215.4
15°	342.2	339.0	333.7	324.6	313.2	302.7	289.9	277.7	265.1	248.5	227.2
17.5°	404.7	401.1	392.1	380.6	362.3	342.2	320.3	301.0	282.2	259.7	234.5
20°	448.7	447.3	439.8	426.4	406.9	380.4	351.6	324.4	297.8	269.0	238.0
22.5°	476.9	476.1	473.1	463.9	444.1	414.2	377.1	340.6	308.6	274.9	236.9
25°	489.5	490.5	490.9	486.5	470.4	440.0	396.0	353.0	314.6	274.1	229.2
27.5°	498.4	498.4	500.1	498.0	481.8	449.7	403.3	357.2	312.6	264.1	213.0
30°	519.9	519.5	520.5	515.1	492.5	452.8	400.0	350.3	301.0	246.9	189.7
32.5°	529.3	529.7	529.5	520.7	494.6	450.8	392.1	337.2	279.7	219.9	158.8
35°	533.1	531.3	523.8	503.9	470.8	423.8	369.8	314.8	249.9	186.2	125.4
37.5°	520.3	515.1	498.4	471.2	430.9	385.6	332.9	274.9	210.4	146.1	94.3
40°	483.2	476.3	455.4	422.6	385.6	344.9	289.3	228.0	164.5	109.3	66.1
42.5°	430.7	422.8	400.2	371.6	338.0	295.2	239.8	178.5	120.5	75.5	42.0
45°	353.6	349.1	336.1	312.0	278.9	234.5	183.8	130.2	83.4	48.1	21.5
47.5°	273.5	267.8	258.4	241.8	214.2	172.0	128.6	88.4	53.6	23.7	4.5
50°	210.4	203.7	192.3	173.9	145.0	114.8	83.4	55.2	27.2	5.5	0.2
52.5°	121.1	122.5	117.1	105.3	89.3	68.8	48.3	27.8	6.1	0.2	0.0
55°	32.3	34.9	34.1	36.7	32.3	27.2	20.1	5.3	0.4	0.0	0.0
57.5°	0.0	0.0	0.2	0.4	1.2	1.8	0.6	0.2	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	70.2	70.2	70.2	70.2	70.2	70.2	70.2	70.2
2.5°	98.8	94.5	89.3	69.8	52.5	37.7	29.4	27.2
5°	128.2	117.9	104.5	64.7	32.5	13.0	5.9	4.9
7.5°	156.0	140.8	116.6	56.6	16.4	3.2	1.6	1.4
10°	177.5	157.0	125.6	46.3	6.1	1.2	1.0	1.0
12.5°	192.3	167.4	128.8	35.1	2.2	0.6	0.6	0.4
15°	200.8	171.4	125.8	24.1	0.8	0.4	0.0	0.0
17.5°	203.5	169.8	117.7	15.2	0.2	0.0	0.0	0.0
20°	201.2	161.9	104.9	8.9	0.0	0.0	0.0	0.0
22.5°	193.9	149.5	89.5	4.9	0.0	0.0	0.0	0.0
25°	180.3	132.1	71.4	2.2	0.0	0.0	0.0	0.0
27.5°	158.2	109.5	53.8	0.8	0.0	0.0	0.0	0.0
30°	133.1	85.4	38.1	0.2	0.0	0.0	0.0	0.0
32.5°	103.9	62.9	24.5	0.0	0.0	0.0	0.0	0.0
35°	78.1	44.0	14.6	0.0	0.0	0.0	0.0	0.0
37.5°	54.4	27.8	7.7	0.0	0.0	0.0	0.0	0.0
40°	33.9	15.0	2.6	0.0	0.0	0.0	0.0	0.0
42.5°	18.9	5.3	0.2	0.0	0.0	0.0	0.0	0.0
45°	4.5	0.4	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.0
60°	0.0	0.2	0.2	0.2	0.0	0.0	0.0	0.0
62.5°	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
65°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0
67.5°	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0
70°	0.2	0.2	0.2	0.4	0.2	0.0	0.0	0.0
72.5°	0.2	0.2	0.4	0.4	0.2	0.0	0.0	0.0
75°	0.2	0.2	0.4	0.4	0.2	0.0	0.0	0.0
77.5°	0.2	0.4	0.4	0.4	0.2	0.2	0.0	0.0
80°	0.2	0.4	0.4	0.4	0.4	0.2	0.0	0.0
82.5°	0.2	0.4	0.4	0.4	0.4	0.2	0.0	0.0
85°	0.2	0.4	0.4	0.4	0.2	0.2	0.0	0.0
87.5°	0.2	0.4	0.4	0.4	0.4	0.2	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)