

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: P1321018

Luminaire Tested: LDSQA3D02R50B2750DE010 3LSQCA45R 1MW_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1321018
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-79)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D02R50B2750DE010 3LSQCA45R 1MW_4000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R50 optic, 4000K CCT AND, 80CRI , 3LSQCA45R 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

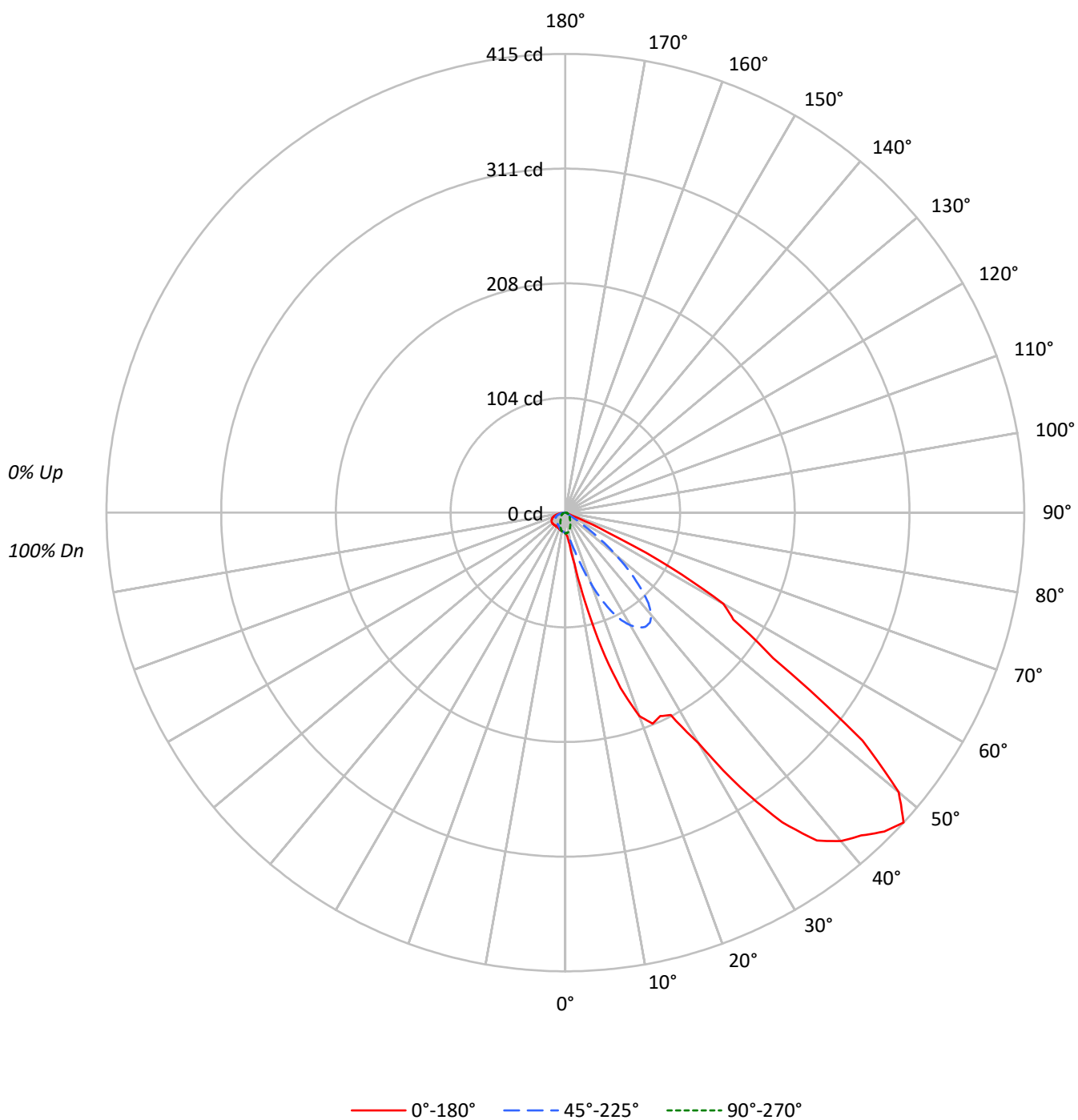
Lumens per Lamp: N/A
Luminaire Lumens: 234.0 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Spacing Criteria (0/90/45): 3.58 / 0.82 / 1.91
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	102	102	100
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	88	88	86
2	100	93	86	81	98	91	85	80	87	82	78	84	80	76	81	78	75	75	75	73
3	91	81	73	67	89	80	72	66	77	70	65	74	69	64	71	67	63	63	63	61
4	83	71	63	56	81	70	62	56	67	60	55	65	59	54	63	58	53	53	53	51
5	76	63	54	47	74	62	53	47	60	52	46	58	51	46	56	50	45	45	45	43
6	69	56	47	40	67	55	46	40	53	45	39	51	44	39	50	43	39	39	39	37
7	63	50	41	34	62	49	40	34	47	39	34	46	39	34	44	38	33	33	33	31
8	58	44	36	30	57	44	35	29	42	35	29	41	34	29	40	34	29	29	29	27
9	54	40	31	26	53	39	31	26	38	31	25	37	30	25	36	30	25	25	25	23
10	50	36	28	23	49	36	28	22	35	27	22	34	27	22	33	27	22	22	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3203	3203	3203	3203	3203
5°	3803	3561	3181	3043	3008
10°	8202	4424	3043	2938	2973
15°	22697	7239	2746	2817	2924
20°	35885	12701	2364	2712	2859
25°	38594	18661	2033	2603	2888
30°	47907	23426	1770	2565	2983
35°	71904	26512	1535	2586	3154
40°	87208	27271	1371	2675	3327
45°	99348	23382	1340	2850	3653
50°	105431	16129	1366	3081	4073
55°	68880	6486	1321	3333	4504
60°	56799	1102	1309	3617	4960
65°	17116	571	1223	3871	5420
70°	705	604	1209	3978	5891
75°	665	665	1198	4059	6455
80°	595	595	1190	3967	6645
85°	395	790	1581	3952	6323

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 47.5°

Luminance: 105767 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1.9	0.8
10°-20°	11.1	4.7
20°-30°	28.5	12.2
30°-40°	51.2	21.9
40°-50°	68.3	29.2
50°-60°	52.0	22.2
60°-70°	15.8	6.7
70°-80°	3.8	1.6
80°-90°	1.4	0.6
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°	41.5	17.7
0°-40°	92.7	39.6
0°-60°	213.1	91.1
0°-90°	234.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	234.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	19	19	19	19	19	
5°	22	21	18	18	17	3
15°	127	41	15	16	16	37
25°	203	98	11	14	15	97
35°	342	126	7	12	15	210
45°	408	96	6	12	15	312
55°	229	22	4	11	15	228
65°	42	1	3	10	13	58
75°	1	1	2	6	10	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°	25°	30°	35°	45°	67.5°	90°
0°	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6	18.6
2.5°	19.8	19.8	19.8	19.8	19.8	19.8	19.6	19.6	19.6	19.2	18.8
5°	22.0	22.2	22.0	22.0	21.6	21.6	21.2	21.2	20.6	19.4	18.4
7.5°	28.9	28.7	28.5	27.7	27.1	25.7	25.1	24.1	22.2	19.4	18.0
10°	46.9	45.7	44.9	43.1	39.2	36.8	33.6	30.3	25.3	19.4	17.4
12.5°	81.5	81.3	78.8	72.8	67.3	59.8	51.9	44.1	31.1	19.0	16.6
15°	127.3	125.5	122.1	115.0	105.3	93.6	79.4	65.5	40.6	18.4	15.4
17.5°	166.5	164.3	161.7	154.6	143.5	128.7	111.8	92.6	53.6	17.6	14.1
20°	195.8	194.4	192.2	186.6	176.0	162.7	143.7	120.5	69.3	16.6	12.9
22.5°	206.6	206.4	206.8	204.7	199.5	189.0	170.8	146.5	84.9	15.4	11.7
25°	203.1	202.9	205.6	208.2	209.4	205.1	191.2	167.6	98.2	14.4	10.7
27.5°	206.4	205.8	204.5	204.9	208.4	210.8	204.3	183.7	109.7	12.9	9.7
30°	240.9	237.5	232.0	222.7	215.9	215.3	212.4	196.5	117.8	11.5	8.9
32.5°	294.9	290.6	280.7	263.6	247.2	234.7	225.8	207.2	123.5	10.1	7.9
35°	342.0	338.9	327.4	310.4	287.0	263.6	247.4	222.9	126.1	8.9	7.3
37.5°	373.9	372.7	361.4	343.2	319.3	291.7	270.2	239.1	125.5	7.5	6.7
40°	387.9	384.2	374.7	359.4	335.3	310.4	287.8	249.4	121.3	6.1	6.1
42.5°	396.1	392.1	381.8	367.2	343.6	317.1	289.8	245.0	111.2	4.9	5.9
45°	407.9	403.6	390.1	374.5	350.7	319.9	282.0	229.2	96.0	3.6	5.5
47.5°	414.9	412.1	402.0	386.4	357.5	315.9	263.8	214.4	79.2	2.8	5.3
50°	393.5	390.7	383.2	372.5	353.1	302.4	247.8	190.6	60.2	2.2	5.1
52.5°	338.7	341.2	342.6	345.6	331.5	272.0	223.9	171.6	40.6	1.8	4.6
55°	229.4	233.0	237.1	249.2	265.8	242.1	198.9	148.4	21.6	1.8	4.4
57.5°	180.3	179.1	177.9	177.1	190.0	199.7	174.8	118.6	9.3	1.8	4.0
60°	164.9	161.3	158.9	159.5	165.9	162.1	138.4	77.4	3.2	1.8	3.8
62.5°	108.1	111.0	116.4	125.7	121.3	104.1	80.4	30.7	1.6	1.8	3.4
65°	42.0	40.6	42.0	44.7	38.6	28.7	18.0	5.5	1.4	1.6	3.0
67.5°	5.7	5.1	3.8	2.4	2.2	2.0	1.6	1.4	1.4	1.6	2.8
70°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.2	1.2	1.4	2.4
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.4	2.0
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.8
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.4
80°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.8	1.2
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.6	0.8	1.0
85°	0.2	0.4	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.8
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.6	0.6
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):

	112.5°	135°	157.5°	180°
0°	18.6	18.6	18.6	18.6
2.5°	18.4	18.0	18.0	18.0
5°	18.0	17.6	17.6	17.4
7.5°	17.4	17.2	17.2	17.2
10°	17.0	16.8	17.0	17.0
12.5°	16.2	16.4	16.6	16.6
15°	15.4	15.8	16.2	16.4
17.5°	14.6	15.4	15.8	16.0
20°	13.7	14.8	15.4	15.6
22.5°	13.1	14.1	15.0	15.4
25°	12.3	13.7	14.8	15.2
27.5°	11.5	13.1	14.4	15.0
30°	10.9	12.9	14.4	15.0
32.5°	10.3	12.5	14.1	14.8
35°	9.9	12.3	14.1	15.0
37.5°	9.5	12.1	14.1	14.8
40°	9.3	11.9	14.1	14.8
42.5°	9.1	11.9	14.1	15.0
45°	8.7	11.7	14.1	15.0
47.5°	8.5	11.7	14.1	15.0
50°	8.3	11.5	14.1	15.2
52.5°	8.1	11.3	14.1	15.2
55°	7.7	11.1	13.9	15.0
57.5°	7.5	10.9	13.7	14.6
60°	7.1	10.5	13.3	14.4
62.5°	6.7	10.1	12.9	13.7
65°	6.1	9.5	12.3	13.3
67.5°	5.5	8.7	11.7	12.7
70°	4.9	7.9	10.9	11.7
72.5°	4.2	7.1	10.1	10.7
75°	3.6	6.1	8.9	9.7
77.5°	3.0	5.3	7.5	8.1
80°	2.2	4.0	6.1	6.7
82.5°	1.8	3.0	4.4	4.9
85°	1.2	2.0	2.8	3.2
87.5°	0.6	1.0	1.4	1.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)