

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: P1321104

Luminaire Tested: LDSQA3D02R60B2750DE010 3LSQCA45R 1MMS_5000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1321104
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-81)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D02R60B2750DE010 3LSQCA45R 1MMS_5000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R60 optic, 5000K CCT AND, 80CRI , 3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

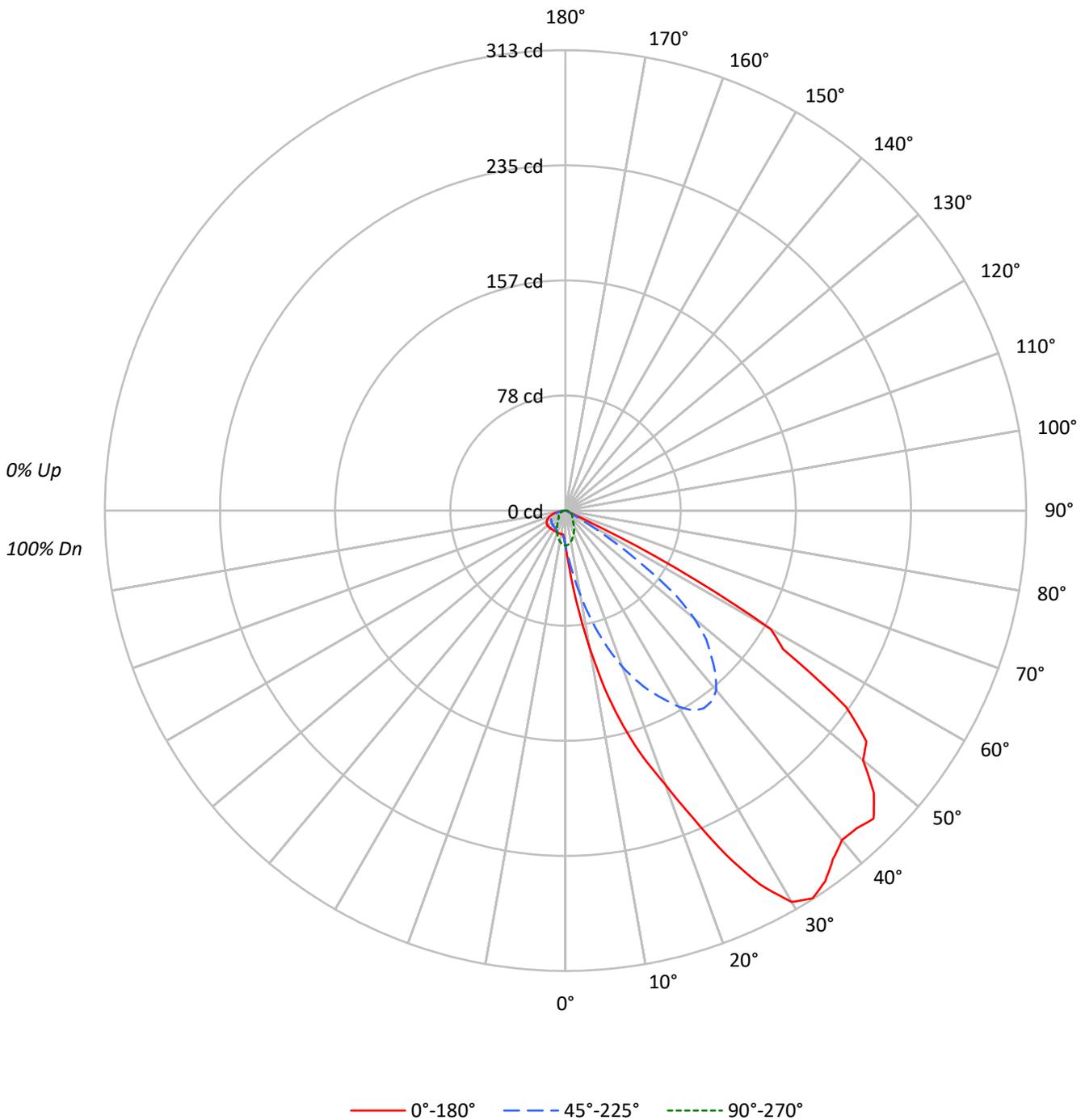
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 238.0 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	94	94	94	87		
1	110	106	102	99	108	104	100	97	100	97	94	96	94	91	92	90	89	87	87	87	81	81	81	74		
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	79	76	74	74	74	68	68	68	62		
3	92	82	74	68	90	81	73	68	78	72	67	75	70	65	72	68	64	62	62	62	58	58	58	53		
4	84	72	64	58	82	71	63	57	69	62	56	66	60	56	64	59	55	53	53	53	49	49	49	45		
5	77	64	55	49	75	63	55	49	61	54	48	59	53	48	57	52	47	45	45	45	42	42	42	39		
6	70	57	48	42	69	56	48	42	54	47	41	53	46	41	51	45	41	39	39	39	36	36	36	33		
7	65	51	42	36	63	50	42	36	49	41	36	47	41	36	46	40	35	33	33	33	32	32	32	29		
8	60	46	38	32	58	45	37	32	44	37	31	43	36	31	42	36	31	29	29	29	28	28	28	25		
9	55	42	33	28	54	41	33	28	40	33	28	39	32	27	38	32	27	25	25	25	25	25	25	22		
10	52	38	30	25	50	38	30	25	37	29	24	36	29	24	35	29	24	22	22	22	22	22	22	22		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	4064	4064	4064	4064	4064
5°	8004	6241	3994	3025	2887
10°	16526	10178	3742	2763	2798
15°	27048	15280	3352	2781	2853
20°	36289	20692	3006	2767	2896
25°	49084	25692	2622	2755	3002
30°	61092	30586	2188	2744	3142
35°	64671	34480	1871	2817	3280
40°	65715	35836	1709	2923	3552
45°	72142	34147	1632	3118	3848
50°	70707	30598	1634	3296	4233
55°	69901	18766	1621	3573	4684
60°	55456	4478	1722	3789	5063
65°	3545	774	1671	3871	5461
70°	755	856	1611	4028	5791
75°	732	865	1464	3859	5922
80°	595	893	1488	3868	5554
85°	395	790	1778	3359	5533

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 52.5°
 Luminance: 76130 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.9	1.2
10°-20°	14.8	6.2
20°-30°	34.4	14.5
30°-40°	53.5	22.5
40°-50°	61.0	25.6
50°-60°	51.3	21.6
60°-70°	14.9	6.3
70°-80°	3.8	1.6
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°	52.2	21.9
0°-40°	105.7	44.4
0°-60°	218.0	91.6
0°-90°	238.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	238.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	24	24	24	24	24	
5°	46	36	23	18	17	6
15°	152	86	19	16	16	44
25°	258	135	14	14	16	120
35°	308	164	9	13	16	191
45°	296	140	7	13	16	223
55°	233	62	5	12	16	196
65°	9	2	4	10	13	43
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°	25°	30°	35°	45°	67.5°	90°
0°	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6	23.6
2.5°	31.8	31.6	31.6	31.4	31.2	30.9	30.3	30.1	28.8	26.2	23.6
5°	46.3	46.1	45.4	45.2	44.1	42.6	41.1	39.6	36.1	28.8	23.1
7.5°	67.1	67.5	67.1	64.7	63.2	60.8	56.2	53.0	46.1	31.4	22.3
10°	94.5	94.5	93.9	90.2	87.0	82.4	76.6	71.0	58.2	33.7	21.4
12.5°	124.4	125.0	121.8	118.8	112.9	107.3	99.3	90.9	72.0	35.7	20.3
15°	151.7	151.2	148.0	144.1	138.0	130.2	121.8	111.0	85.7	37.0	18.8
17.5°	175.9	175.0	172.2	167.9	160.5	151.9	141.1	129.4	99.7	38.1	17.7
20°	198.0	194.9	191.7	187.1	180.0	170.9	159.7	146.5	112.9	38.1	16.4
22.5°	225.9	222.8	218.3	211.4	201.9	190.6	177.4	162.5	124.6	37.2	15.1
25°	258.3	255.9	248.1	239.3	226.9	213.5	198.2	178.1	135.2	35.9	13.8
27.5°	286.7	284.1	276.3	263.3	248.4	232.4	216.1	195.6	144.5	33.5	12.3
30°	307.2	304.0	297.9	285.6	267.4	247.9	228.7	209.0	153.8	30.7	11.0
32.5°	312.6	312.2	307.6	298.6	282.3	260.9	238.0	216.6	161.2	27.0	10.0
35°	307.6	308.3	307.4	302.9	291.0	270.0	244.0	220.7	164.0	23.4	8.9
37.5°	298.6	299.4	300.9	301.6	294.0	275.4	247.5	222.4	163.3	19.7	8.2
40°	292.3	291.8	291.8	296.2	294.7	277.8	247.9	221.1	159.4	15.8	7.6
42.5°	292.9	288.2	284.9	291.8	294.0	276.7	245.1	217.6	151.0	12.1	6.9
45°	296.2	286.0	280.4	289.3	292.7	273.0	239.9	212.5	140.2	8.4	6.7
47.5°	284.1	277.4	276.5	289.0	290.3	266.8	231.9	204.2	129.8	5.8	6.3
50°	263.9	262.9	267.4	280.4	280.6	256.4	222.8	189.3	114.2	4.1	6.1
52.5°	257.7	258.3	262.4	269.1	262.9	238.8	206.4	176.8	94.5	3.2	5.8
55°	232.8	233.9	237.8	241.9	237.3	217.4	186.5	161.6	62.5	3.0	5.4
57.5°	175.2	178.1	185.2	188.9	189.3	177.2	169.0	139.3	35.3	3.0	5.2
60°	161.0	157.3	154.0	146.5	139.5	138.0	138.9	104.5	13.0	2.8	5.0
62.5°	84.2	82.4	87.4	90.6	91.5	96.3	90.0	55.2	2.8	2.8	4.5
65°	8.7	8.7	10.6	14.1	23.4	31.2	29.6	16.0	1.9	2.6	4.1
67.5°	2.6	2.6	2.6	3.0	3.9	3.9	3.2	2.4	1.9	2.4	3.7
70°	1.5	1.5	1.5	1.5	1.5	1.5	1.7	1.5	1.7	2.2	3.2
72.5°	1.3	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.9	2.8
75°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.3	1.3	1.5	2.2
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.1	1.1	1.1	1.3	1.7
80°	0.6	0.6	0.6	0.6	0.6	0.9	0.9	0.9	0.9	1.1	1.5
82.5°	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.9	1.1
85°	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.6	0.9
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.4	0.4	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°	23.6	23.6	23.6	23.6
2.5°	21.4	19.9	19.0	18.6
5°	19.5	17.5	16.9	16.7
7.5°	17.7	16.4	16.2	16.2
10°	16.7	15.8	16.0	16.0
12.5°	16.0	15.8	16.0	16.2
15°	15.4	15.6	16.0	16.0
17.5°	14.9	15.4	15.8	16.0
20°	14.3	15.1	15.8	15.8
22.5°	13.8	14.9	15.6	15.8
25°	13.4	14.5	15.4	15.8
27.5°	12.8	14.3	15.4	15.6
30°	12.1	13.8	15.1	15.8
32.5°	11.5	13.6	15.1	15.6
35°	11.0	13.4	15.1	15.6
37.5°	10.6	13.2	15.1	15.8
40°	10.4	13.0	14.9	15.8
42.5°	10.0	13.0	14.9	15.8
45°	9.7	12.8	14.9	15.8
47.5°	9.5	12.5	14.9	15.8
50°	9.1	12.3	14.7	15.8
52.5°	8.9	12.1	14.7	15.8
55°	8.4	11.9	14.5	15.6
57.5°	8.2	11.5	14.3	15.1
60°	7.8	11.0	13.8	14.7
62.5°	7.1	10.4	13.2	14.3
65°	6.5	9.5	12.5	13.4
67.5°	5.8	8.9	11.7	12.5
70°	5.2	8.0	10.6	11.5
72.5°	4.5	6.9	9.5	10.2
75°	3.9	5.8	8.0	8.9
77.5°	3.0	4.8	6.7	7.4
80°	2.4	3.9	5.2	5.6
82.5°	1.9	2.8	3.9	4.1
85°	1.3	1.7	2.4	2.8
87.5°	0.6	0.9	1.1	1.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)