

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: P1321103

Luminaire Tested: LDSQA3D02R60B2750DE010 3LSQCA45R 1MMS_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1321103
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_4000K
Description: 3in Adjustable Boosted Cyan Tunable White LED luminaire with, R60 optic, 4000K CCT AND, 80CRI , 3LSQCA45R 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

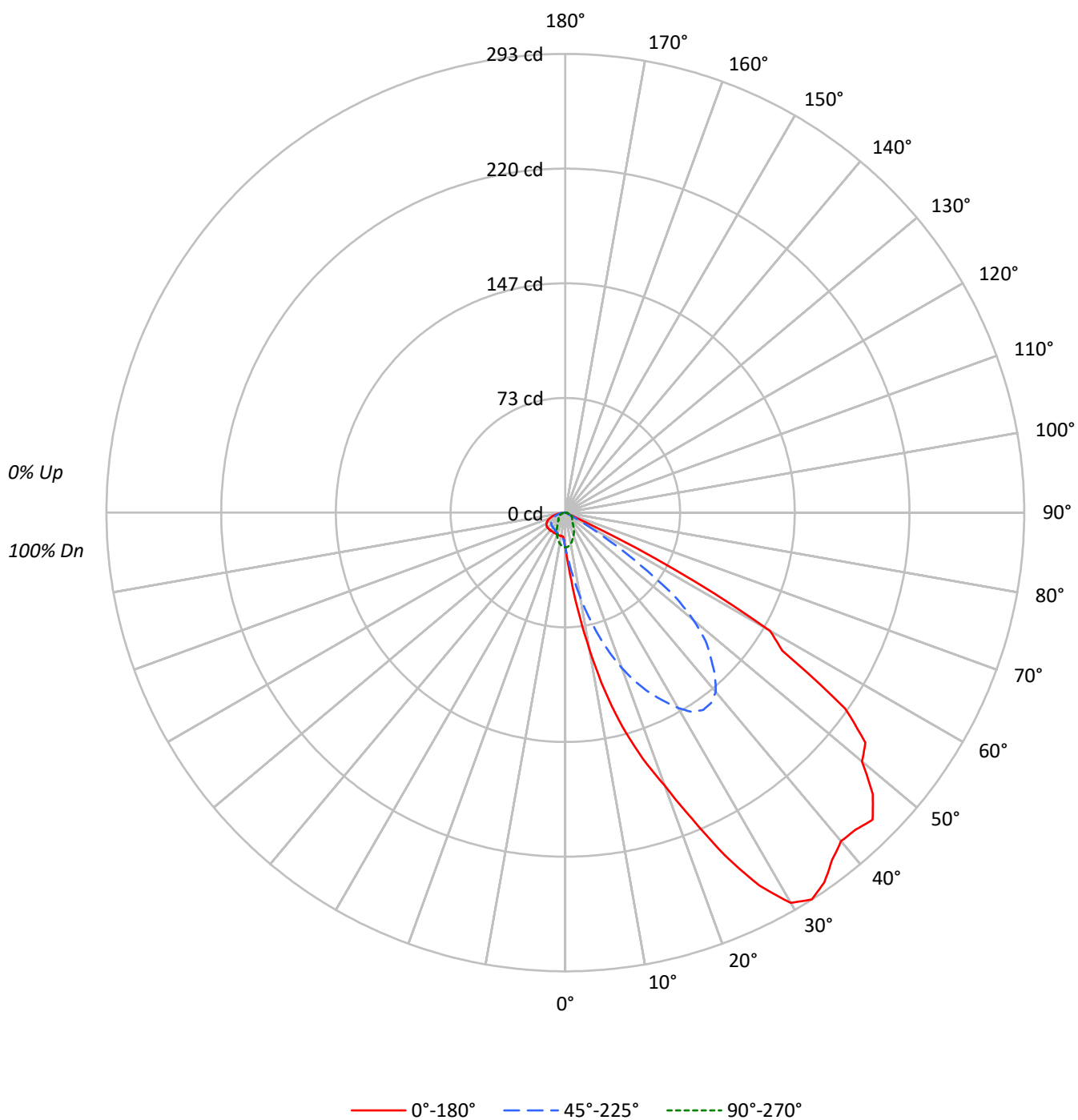
Lumens per Lamp: N/A
Luminaire Lumens: 223.0 lumens
Efficiency: N/A
Efficacy: 76.9 lumens/watt
Spacing Criteria (0/90/45): 3.38 / 0.84 / 2.07
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

TEST NUMBER: P1321103

CATALOG NUMBER: LDSQA3D02R60B2750DE010 3LSQCA45R 1MMS_4000K

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	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	108	104	100	97	100	97	94		96	94	91		92	90	89	87
2	101	93	87	82	98	92	86	81	88	83	79		85	81	77		82	79	76	74
3	92	82	74	68	90	81	73	68	78	72	67		75	70	65		72	68	64	62
4	84	72	64	58	82	71	63	57	69	62	56		66	60	56		64	59	55	53
5	77	64	55	49	75	63	55	49	61	54	48		59	53	48		57	52	47	45
6	70	57	48	42	69	56	48	42	54	47	41		53	46	41		51	45	41	39
7	65	51	42	36	63	50	42	36	49	41	36		47	41	36		46	40	35	33
8	60	46	38	32	58	45	37	32	44	37	31		43	36	31		42	36	31	29
9	55	42	33	28	54	41	33	28	40	33	28		39	32	27		38	32	27	25
10	52	38	30	25	50	38	30	25	37	29	24		36	29	24		35	29	24	22

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	3806	3806	3806	3806	3806
5°	7503	5861	3752	2835	2697
10°	15494	9531	3515	2588	2623
15°	25336	14317	3138	2603	2674
20°	33998	19391	2822	2603	2712
25°	45986	24076	2470	2584	2812
30°	57234	28657	2048	2585	2943
35°	60614	32315	1745	2649	3070
40°	61578	33588	1596	2743	3327
45°	67588	32004	1534	2923	3605
50°	66259	28669	1527	3108	3965
55°	65487	17595	1531	3333	4384
60°	51942	4202	1619	3548	4753
65°	3301	734	1589	3627	5135
70°	705	806	1511	3777	5388
75°	665	799	1331	3660	5523
80°	595	793	1389	3570	5256
85°	395	790	1581	3162	5138

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°

Vertical Angle: 52.5°

Luminance: 71349 cd/sqm

TEST NUMBER: P1321103

CATALOG NUMBER: LDSQA3D02R60B2750DE010 3LSQCA45R 1MMS_4000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	2.8	1.2
10°-20°	13.9	6.2
20°-30°	32.2	14.5
30°-40°	50.1	22.5
40°-50°	57.1	25.6
50°-60°	48.1	21.6
60°-70°	14.0	6.3
70°-80°	3.6	1.6
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°	48.9	21.9
0°-40°	99.0	44.4
0°-60°	204.3	91.6
0°-90°	223.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	223.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	22	22	22	22	22	
5°	43	34	22	16	16	6
15°	142	80	18	15	15	41
25°	242	127	13	14	15	112
35°	288	154	8	13	15	179
45°	278	131	6	12	15	209
55°	218	59	5	11	15	184
65°	8	2	4	9	13	40
75°	1	1	2	6	8	1
85°	0	0	1	2	3	0
90°	0	0	0	0	0	

TEST NUMBER: P1321103

CATALOG NUMBER: LDSQA3D02R60B2750DE010 3LSQCA45R 1MMS_4000K

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1	22.1
2.5°	29.8	29.6	29.6	29.4	29.2	29.0	28.4	28.2	27.0	24.5	22.1
5°	43.4	43.2	42.6	42.4	41.4	39.9	38.5	37.1	33.9	27.0	21.7
7.5°	62.8	63.2	62.8	60.6	59.2	57.0	52.7	49.7	43.2	29.4	20.9
10°	88.6	88.6	88.0	84.5	81.5	77.2	71.8	66.5	54.5	31.6	20.1
12.5°	116.6	117.2	114.1	111.3	105.8	100.5	93.0	85.1	67.5	33.4	19.1
15°	142.1	141.7	138.7	135.0	129.3	122.0	114.1	104.0	80.3	34.7	17.6
17.5°	164.8	164.0	161.4	157.3	150.4	142.3	132.2	121.2	93.4	35.7	16.6
20°	185.5	182.6	179.6	175.3	168.7	160.1	149.6	137.2	105.8	35.7	15.4
22.5°	211.6	208.8	204.5	198.0	189.1	178.6	166.2	152.2	116.8	34.9	14.2
25°	242.0	239.8	232.5	224.2	212.6	200.1	185.7	166.8	126.7	33.6	13.0
27.5°	268.6	266.2	258.9	246.7	232.7	217.7	202.5	183.2	135.4	31.4	11.6
30°	287.8	284.8	279.1	267.6	250.5	232.3	214.3	195.8	144.1	28.8	10.3
32.5°	292.9	292.5	288.3	279.7	264.5	244.5	223.0	202.9	151.0	25.3	9.3
35°	288.3	288.9	288.1	283.8	272.6	253.0	228.7	206.8	153.7	21.9	8.3
37.5°	279.7	280.6	282.0	282.6	275.5	258.0	231.9	208.4	153.0	18.4	7.7
40°	273.9	273.5	273.5	277.5	276.1	260.3	232.3	207.2	149.4	14.8	7.1
42.5°	274.5	270.0	267.0	273.5	275.5	259.3	229.7	203.9	141.5	11.4	6.5
45°	277.5	268.0	262.7	271.0	274.3	255.8	224.8	199.1	131.4	7.9	6.3
47.5°	266.2	259.9	259.1	270.8	272.0	249.9	217.3	191.4	121.6	5.5	5.9
50°	247.3	246.3	250.5	262.7	262.9	240.2	208.8	177.4	107.0	3.9	5.7
52.5°	241.4	242.0	245.9	252.2	246.3	223.8	193.4	165.6	88.6	3.0	5.5
55°	218.1	219.1	222.8	226.6	222.4	203.7	174.7	151.4	58.6	2.8	5.1
57.5°	164.2	166.8	173.5	177.0	177.4	166.0	158.3	130.5	33.0	2.8	4.9
60°	150.8	147.4	144.3	137.2	130.7	129.3	130.1	97.9	12.2	2.6	4.7
62.5°	78.9	77.2	81.9	84.9	85.7	90.2	84.3	51.7	2.6	2.6	4.3
65°	8.1	8.1	9.9	13.2	21.9	29.2	27.8	15.0	1.8	2.4	3.9
67.5°	2.4	2.4	2.4	2.8	3.6	3.6	3.0	2.2	1.8	2.2	3.4
70°	1.4	1.4	1.4	1.4	1.4	1.4	1.6	1.4	1.6	2.0	3.0
72.5°	1.2	1.2	1.2	1.2	1.4	1.4	1.4	1.4	1.4	1.8	2.6
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.2	1.2	1.4	2.0
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.0	1.0	1.0	1.2	1.6
80°	0.6	0.6	0.6	0.6	0.6	0.8	0.8	0.8	0.8	1.0	1.4
82.5°	0.4	0.4	0.4	0.4	0.6	0.6	0.6	0.6	0.6	0.8	1.0
85°	0.2	0.4	0.4	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	0.4	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

TEST NUMBER: P1321103

CATALOG NUMBER: LDSQA3D02R60B2750DE010 3LSQCA45R 1MMS_4000K

CANDELA DISTRIBUTION (continued):

	112.5°	135°	157.5°	180°
0°	22.1	22.1	22.1	22.1
2.5°	20.1	18.6	17.8	17.4
5°	18.2	16.4	15.8	15.6
7.5°	16.6	15.4	15.2	15.2
10°	15.6	14.8	15.0	15.0
12.5°	15.0	14.8	15.0	15.2
15°	14.4	14.6	15.0	15.0
17.5°	14.0	14.4	14.8	15.0
20°	13.4	14.2	14.8	14.8
22.5°	13.0	14.0	14.6	14.8
25°	12.6	13.6	14.4	14.8
27.5°	12.0	13.4	14.4	14.6
30°	11.4	13.0	14.2	14.8
32.5°	10.7	12.8	14.2	14.6
35°	10.3	12.6	14.2	14.6
37.5°	9.9	12.4	14.2	14.8
40°	9.7	12.2	14.0	14.8
42.5°	9.3	12.2	14.0	14.8
45°	9.1	12.0	14.0	14.8
47.5°	8.9	11.8	14.0	14.8
50°	8.5	11.6	13.8	14.8
52.5°	8.3	11.4	13.8	14.8
55°	7.9	11.1	13.6	14.6
57.5°	7.7	10.7	13.4	14.2
60°	7.3	10.3	13.0	13.8
62.5°	6.7	9.7	12.4	13.4
65°	6.1	8.9	11.8	12.6
67.5°	5.5	8.3	10.9	11.8
70°	4.9	7.5	9.9	10.7
72.5°	4.3	6.5	8.9	9.5
75°	3.6	5.5	7.5	8.3
77.5°	2.8	4.5	6.3	6.9
80°	2.2	3.6	4.9	5.3
82.5°	1.8	2.6	3.6	3.9
85°	1.2	1.6	2.2	2.6
87.5°	0.6	0.8	1.0	1.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)