

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: P1327248

Luminaire Tested: LDSQA3D09R70W2N902750DE010 3LSQCLSWWR 1MB_3000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1327248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-72)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R70W2N902750DE010 3LSQCLSWWR 1MB_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 3000K CCT AND, 90CRI ,
3LSQCLSWWR 1MB TRIM
Light Source: -
Ballast/Driver: -

Summary

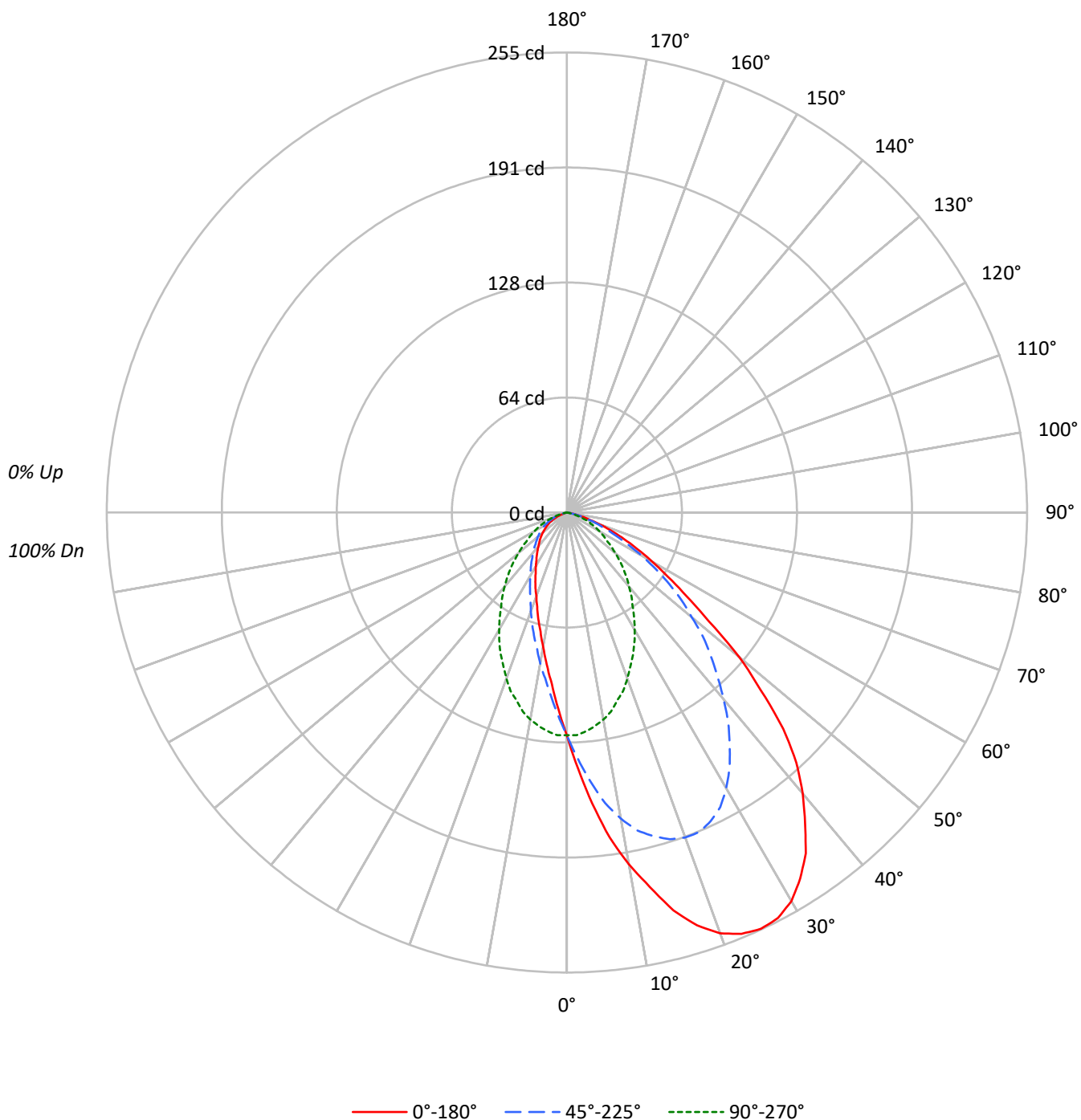
Lumens per Lamp: N/A
Luminaire Lumens: 277.0 lumens
Efficiency: N/A
Efficacy: 30.8 lumens/watt
Spacing Criteria (0/90/45): 1.52 / 0.97 / 1.29
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79
3	95	86	79	73	93	84	78	73	82	76	72	79	74	70	76	73	69
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54
6	75	64	55	50	74	63	55	49	61	54	49	59	53	49	58	52	48
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43
8	66	53	45	40	64	53	45	40	51	45	40	50	44	39	49	43	39
9	62	49	41	36	60	49	41	36	47	41	36	46	40	36	45	40	36
10	58	45	38	33	57	45	38	33	44	37	33	43	37	33	42	37	33

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	21269	21269	21269	21269	21269
5°	27989	25880	21040	17617	16510
10°	34644	30149	20373	14865	13238
15°	40723	33128	19221	12570	10912
20°	45489	35134	17943	10685	9072
25°	48381	35858	16494	9178	7867
30°	49458	35100	14935	7994	6841
35°	48504	33072	13351	7232	6118
40°	45706	30373	12050	6542	5508
45°	41283	27522	10790	5967	5115
50°	33411	24194	9378	5627	4689
55°	24321	20808	8047	5255	4204
60°	18876	16464	7233	4822	3823
65°	14263	11859	5950	4279	2853
70°	9970	8510	4381	3223	1762
75°	5789	5057	2329	1530	399
80°	1190	1686	595	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 41283 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.1	4.4
10°-20°	36.0	13.0
20°-30°	54.3	19.6
30°-40°	60.3	21.8
40°-50°	53.5	19.3
50°-60°	36.3	13.1
60°-70°	19.0	6.9
70°-80°	5.4	1.9
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°	102.3	36.9
0°-40°	162.7	58.7
0°-60°	252.4	91.1
0°-90°	277.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	277.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	124	124	124	124	124	
5°	162	150	122	102	96	17
15°	228	186	108	70	61	65
25°	255	189	87	48	41	117
35°	231	157	64	34	29	143
45°	170	113	44	24	21	128
55°	81	69	27	18	14	75
65°	35	29	15	10	7	35
75°	9	8	4	2	1	10
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°	123.5	123.5	123.5	123.5	123.5	123.5	123.5	123.5	123.5	123.5	123.5
2.5°	142.1	141.6	141.0	141.0	140.4	139.8	138.6	138.6	137.5	136.3	135.1
5°	161.9	161.9	161.9	160.2	160.2	157.9	156.7	154.4	152.0	149.7	146.8
7.5°	181.7	181.7	180.0	179.4	177.7	175.3	173.6	170.1	166.0	162.5	157.9
10°	198.1	198.1	196.3	195.1	191.7	189.3	185.8	181.7	177.7	172.4	166.6
12.5°	212.6	213.2	210.9	208.5	205.0	201.6	196.9	191.7	186.4	180.6	173.0
15°	228.4	227.8	224.9	221.9	217.9	212.6	206.8	199.8	192.8	185.8	177.7
17.5°	240.0	239.4	236.5	233.0	227.8	221.4	215.0	206.8	198.6	189.9	180.0
20°	248.2	247.6	244.7	240.0	234.8	227.8	220.2	210.9	202.1	191.7	180.6
22.5°	252.8	252.2	248.7	244.7	238.3	230.7	222.5	212.6	202.7	191.7	179.4
25°	254.6	253.4	249.9	245.2	238.8	230.7	221.4	210.9	200.4	188.7	175.9
27.5°	253.4	252.2	248.2	242.9	235.9	226.6	217.3	206.8	195.7	184.1	170.7
30°	248.7	247.0	243.5	238.3	230.7	221.4	211.5	200.4	188.7	176.5	163.1
32.5°	240.6	239.4	235.9	230.1	222.5	213.2	203.3	191.7	180.0	167.8	154.4
35°	230.7	228.4	224.9	219.6	212.0	202.7	192.8	180.6	169.5	157.3	144.5
37.5°	216.7	216.1	212.0	208.0	200.4	190.5	181.2	169.5	158.4	146.8	134.0
40°	203.3	202.1	198.6	194.0	186.4	177.7	167.8	157.3	146.2	135.1	123.5
42.5°	188.2	186.4	184.1	179.4	172.4	163.7	154.4	143.9	134.0	123.5	113.0
45°	169.5	168.9	166.0	163.7	157.3	149.7	140.4	131.1	121.2	113.0	104.9
47.5°	145.6	145.0	144.5	142.7	139.2	134.0	127.0	118.3	110.7	102.5	91.5
50°	124.7	124.1	122.9	122.3	119.4	116.5	111.3	106.0	99.6	90.3	81.6
52.5°	99.0	99.6	101.4	101.9	101.4	99.0	96.7	95.0	86.2	80.4	72.2
55°	81.0	81.0	80.4	81.0	81.6	82.7	82.7	80.4	74.6	69.3	62.3
57.5°	66.4	66.4	66.4	66.4	66.4	67.0	67.0	66.4	63.5	58.3	51.8
60°	54.8	54.2	54.2	54.8	54.2	54.2	54.8	54.8	51.8	47.8	41.9
62.5°	44.3	44.3	44.3	43.7	43.7	44.3	44.3	43.7	41.4	37.3	33.2
65°	35.0	35.0	35.0	35.0	35.0	35.5	35.0	34.4	32.0	29.1	26.2
67.5°	26.8	26.8	27.4	26.8	27.4	27.4	27.4	26.2	24.5	22.1	20.4
70°	19.8	19.8	19.8	20.4	21.0	21.0	20.4	19.2	18.1	16.9	15.1
72.5°	13.4	14.0	14.0	14.0	14.6	14.6	14.0	13.4	12.8	11.7	11.1
75°	8.7	8.2	8.7	8.7	9.3	9.3	8.7	8.7	8.2	7.6	7.0
77.5°	4.1	4.1	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.1	4.1
80°	1.2	1.2	1.2	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
82.5°	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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°	123.5	123.5	123.5	123.5	123.5	123.5	123.5	123.5
2.5°	134.0	132.2	129.9	123.5	117.7	112.4	109.5	108.9
5°	143.3	141.0	135.1	121.7	110.7	101.9	96.7	95.5
7.5°	153.2	148.5	140.4	119.4	103.7	92.6	86.8	85.0
10°	160.8	155.0	143.9	116.5	96.7	85.0	78.1	75.7
12.5°	166.0	159.0	146.8	113.0	90.9	76.9	69.9	67.6
15°	168.9	161.4	147.4	107.8	83.9	70.5	62.9	61.2
17.5°	170.1	161.4	146.2	103.7	77.5	64.1	57.1	54.8
20°	169.5	159.0	143.3	97.9	71.7	58.3	51.3	49.5
22.5°	167.2	155.5	138.6	92.0	65.8	52.4	46.6	45.4
25°	163.7	150.9	133.4	86.8	60.6	48.3	42.5	41.4
27.5°	157.9	145.0	126.4	81.0	55.9	44.3	39.0	37.3
30°	150.3	138.1	119.4	75.1	51.3	40.2	35.5	34.4
32.5°	142.1	129.9	112.4	69.3	47.2	37.3	32.6	31.5
35°	132.8	121.2	103.7	63.5	43.1	34.4	29.7	29.1
37.5°	123.5	111.8	96.1	58.8	39.6	31.5	27.4	26.8
40°	113.0	103.7	92.0	53.6	36.7	29.1	25.6	24.5
42.5°	106.6	93.8	79.2	48.9	33.8	26.8	23.3	22.7
45°	92.6	83.3	71.7	44.3	30.9	24.5	21.6	21.0
47.5°	83.3	75.1	64.1	39.6	28.5	22.7	19.8	19.2
50°	74.0	66.4	55.9	35.0	26.2	21.0	18.1	17.5
52.5°	64.7	57.1	47.8	30.9	23.3	19.2	16.3	15.7
55°	55.3	48.3	39.6	26.8	21.0	17.5	15.1	14.0
57.5°	45.4	39.6	33.8	23.9	18.6	15.7	13.4	12.2
60°	36.7	33.2	28.5	21.0	16.3	14.0	11.7	11.1
62.5°	29.7	26.8	23.9	18.1	14.6	12.2	10.5	8.7
65°	23.9	22.1	19.8	14.6	12.2	10.5	8.7	7.0
67.5°	18.6	17.5	15.7	12.2	9.9	8.7	6.4	5.2
70°	14.6	13.4	12.2	8.7	7.6	6.4	4.7	3.5
72.5°	10.5	9.3	8.7	6.4	5.2	4.7	2.9	1.7
75°	6.4	6.4	5.2	3.5	2.9	2.3	1.2	0.6
77.5°	3.5	3.5	2.9	1.7	1.7	0.6	0.0	0.0
80°	1.7	1.2	1.2	0.6	0.6	0.0	0.0	0.0
82.5°	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)