

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: P1327252

Luminaire Tested: LDSQA3D09R70W2N902750DE010 3LSQCLSWWR 1MMS_2700K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1327252
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 1MMS_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 2700K CCT AND, 90CRI ,
3LSQCLSWWR 1MMS TRIM
Light Source: -
Ballast/Driver: -

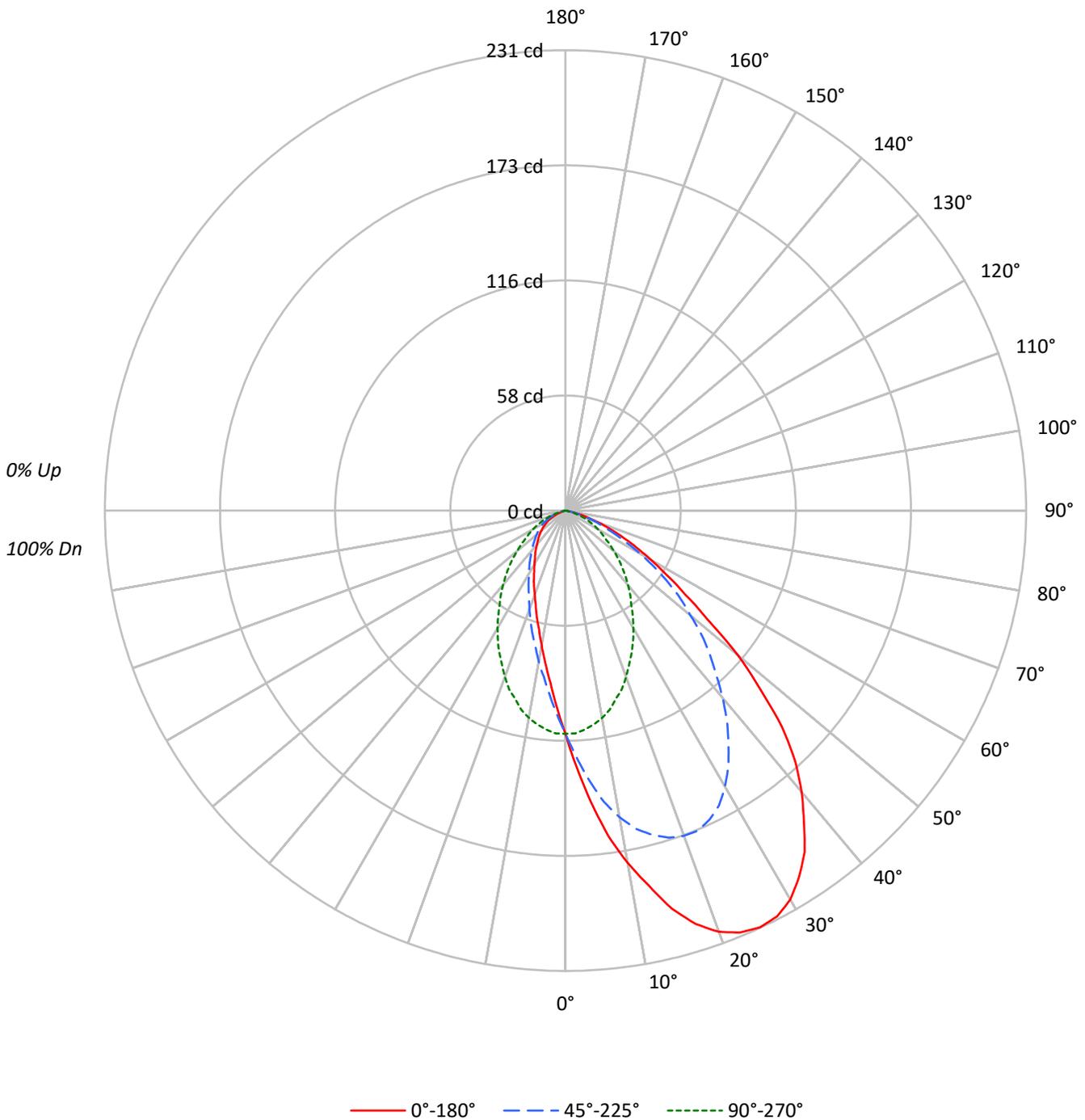
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 251.0 lumens
Efficiency: N/A
Efficacy: 27.9 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		0	
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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89		
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77		
3	95	86	79	73	93	84	78	73	82	76	72	79	74	70	76	73	69	67		
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61	59		
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52		
6	75	63	55	50	74	63	55	49	61	54	49	59	53	49	58	52	48	46		
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42		
8	66	53	45	40	64	53	45	40	51	45	40	50	44	39	49	43	39	38		
9	62	49	41	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34		
10	58	45	38	33	57	45	38	33	44	37	33	43	37	33	42	37	33	31		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	19272	19272	19272	19272	19272
5°	25362	23460	19069	15974	14971
10°	31391	27316	18467	13483	11997
15°	36890	30025	17420	11393	9878
20°	41219	31835	16257	9677	8229
25°	43839	32495	14936	8323	7126
30°	44824	31799	13543	7239	6185
35°	43941	29960	12089	6539	5550
40°	41412	27541	10926	5935	4991
45°	37411	24941	9767	5407	4628
50°	30276	21917	8493	5091	4233
55°	22039	18856	7296	4744	3813
60°	17084	14914	6544	4374	3444
65°	12918	10758	5379	3871	2567
70°	9013	7704	3978	2921	1611
75°	5257	4591	2129	1397	333
80°	1091	1587	496	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 37411 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.9	4.4
10°-20°	32.6	13.0
20°-30°	49.2	19.6
30°-40°	54.7	21.8
40°-50°	48.4	19.3
50°-60°	32.9	13.1
60°-70°	17.3	6.9
70°-80°	4.9	1.9
80°-90°	0.1	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°	92.7	36.9
0°-40°	147.4	58.7
0°-60°	228.7	91.1
0°-90°	251.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	251.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	112	112	112	112	112	
5°	147	136	110	92	87	15
15°	207	168	98	64	55	59
25°	231	171	79	44	38	106
35°	209	142	58	31	26	130
45°	154	102	40	22	19	116
55°	73	63	24	16	13	68
65°	32	26	13	10	6	32
75°	8	7	3	2	0	9
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°	111.9	111.9	111.9	111.9	111.9	111.9	111.9	111.9	111.9	111.9	111.9
2.5°	128.8	128.3	127.7	127.7	127.2	126.7	125.6	125.6	124.6	123.5	122.5
5°	146.7	146.7	146.7	145.2	145.2	143.0	142.0	139.9	137.8	135.7	133.0
7.5°	164.7	164.7	163.1	162.6	161.0	158.9	157.3	154.1	150.4	147.3	143.0
10°	179.5	179.5	177.9	176.8	173.7	171.6	168.4	164.7	161.0	156.2	151.0
12.5°	192.7	193.2	191.1	189.0	185.8	182.6	178.4	173.7	168.9	163.6	156.8
15°	206.9	206.4	203.7	201.1	197.4	192.7	187.4	181.1	174.7	168.4	161.0
17.5°	217.5	216.9	214.3	211.1	206.4	200.6	194.8	187.4	180.0	172.1	163.1
20°	224.9	224.3	221.7	217.5	212.7	206.4	199.5	191.1	183.2	173.7	163.6
22.5°	229.1	228.6	225.4	221.7	215.9	209.0	201.6	192.7	183.7	173.7	162.6
25°	230.7	229.6	226.4	222.2	216.4	209.0	200.6	191.1	181.6	171.0	159.4
27.5°	229.6	228.6	224.9	220.1	213.8	205.3	196.9	187.4	177.4	166.8	154.7
30°	225.4	223.8	220.6	215.9	209.0	200.6	191.6	181.6	171.0	159.9	147.8
32.5°	218.0	216.9	213.8	208.5	201.6	193.2	184.2	173.7	163.1	152.0	139.9
35°	209.0	206.9	203.7	199.0	192.1	183.7	174.7	163.6	153.6	142.5	130.9
37.5°	196.4	195.8	192.1	188.4	181.6	172.6	164.2	153.6	143.6	133.0	121.4
40°	184.2	183.2	180.0	175.8	168.9	161.0	152.0	142.5	132.5	122.5	111.9
42.5°	170.5	168.9	166.8	162.6	156.2	148.3	139.9	130.4	121.4	111.9	102.4
45°	153.6	153.1	150.4	148.3	142.5	135.7	127.2	118.8	109.8	102.4	95.0
47.5°	132.0	131.4	130.9	129.3	126.2	121.4	115.1	107.2	100.3	92.9	82.9
50°	113.0	112.4	111.4	110.8	108.2	105.6	100.8	96.1	90.3	81.8	73.9
52.5°	89.7	90.3	91.8	92.4	91.8	89.7	87.6	86.0	78.1	72.8	65.5
55°	73.4	73.4	72.8	73.4	73.9	75.0	75.0	72.8	67.6	62.8	56.5
57.5°	60.2	60.2	60.2	60.2	60.2	60.7	60.7	60.2	57.5	52.8	47.0
60°	49.6	49.1	49.1	49.6	49.1	49.1	49.6	49.6	47.0	43.3	38.0
62.5°	40.1	40.1	40.1	39.6	39.6	40.1	40.1	39.6	37.5	33.8	30.1
65°	31.7	31.7	31.7	31.7	31.7	32.2	31.7	31.1	29.0	26.4	23.8
67.5°	24.3	24.3	24.8	24.3	24.8	24.8	24.8	23.8	22.2	20.1	18.5
70°	17.9	17.9	17.9	18.5	19.0	19.0	18.5	17.4	16.4	15.3	13.7
72.5°	12.1	12.7	12.7	12.7	13.2	13.2	12.7	12.1	11.6	10.6	10.0
75°	7.9	7.4	7.9	7.9	8.4	8.4	7.9	7.9	7.4	6.9	6.3
77.5°	3.7	3.7	4.2	4.2	4.2	4.2	4.2	4.2	4.2	3.7	3.7
80°	1.1	1.1	1.1	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
82.5°	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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°	111.9	111.9	111.9	111.9	111.9	111.9	111.9	111.9
2.5°	121.4	119.8	117.7	111.9	106.6	101.9	99.2	98.7
5°	129.9	127.7	122.5	110.3	100.3	92.4	87.6	86.6
7.5°	138.8	134.6	127.2	108.2	94.0	83.9	78.6	77.1
10°	145.7	140.4	130.4	105.6	87.6	77.1	70.7	68.6
12.5°	150.4	144.1	133.0	102.4	82.3	69.7	63.3	61.2
15°	153.1	146.2	133.5	97.7	76.0	63.9	57.0	55.4
17.5°	154.1	146.2	132.5	94.0	70.2	58.1	51.7	49.6
20°	153.6	144.1	129.9	88.7	64.9	52.8	46.5	44.9
22.5°	151.5	140.9	125.6	83.4	59.6	47.5	42.2	41.2
25°	148.3	136.7	120.9	78.6	54.9	43.8	38.5	37.5
27.5°	143.0	131.4	114.5	73.4	50.7	40.1	35.4	33.8
30°	136.2	125.1	108.2	68.1	46.5	36.4	32.2	31.1
32.5°	128.8	117.7	101.9	62.8	42.8	33.8	29.6	28.5
35°	120.3	109.8	94.0	57.5	39.1	31.1	26.9	26.4
37.5°	111.9	101.3	87.1	53.3	35.9	28.5	24.8	24.3
40°	102.4	94.0	83.4	48.6	33.3	26.4	23.2	22.2
42.5°	96.6	85.0	71.8	44.3	30.6	24.3	21.1	20.6
45°	83.9	75.5	64.9	40.1	28.0	22.2	19.5	19.0
47.5°	75.5	68.1	58.1	35.9	25.9	20.6	17.9	17.4
50°	67.0	60.2	50.7	31.7	23.8	19.0	16.4	15.8
52.5°	58.6	51.7	43.3	28.0	21.1	17.4	14.8	14.3
55°	50.1	43.8	35.9	24.3	19.0	15.8	13.7	12.7
57.5°	41.2	35.9	30.6	21.6	16.9	14.3	12.1	11.1
60°	33.3	30.1	25.9	19.0	14.8	12.7	10.6	10.0
62.5°	26.9	24.3	21.6	16.4	13.2	11.1	9.5	7.9
65°	21.6	20.1	17.9	13.2	11.1	9.5	7.9	6.3
67.5°	16.9	15.8	14.3	11.1	9.0	7.9	5.8	4.8
70°	13.2	12.1	11.1	7.9	6.9	5.8	4.2	3.2
72.5°	9.5	8.4	7.9	5.8	4.8	4.2	2.6	1.6
75°	5.8	5.8	4.8	3.2	2.6	2.1	1.1	0.5
77.5°	3.2	3.2	2.6	1.6	1.6	0.5	0.0	0.0
80°	1.6	1.1	1.1	0.5	0.5	0.0	0.0	0.0
82.5°	0.5	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)