

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: P1327251

Luminaire Tested: LDSQA3D09R70W2N902750DE010 3LSQCLSWWR 1MB_5000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1327251
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_5000K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 5000K CCT AND, 90CRI ,
3LSQCLSWWR 1MB TRIM
Light Source: -
Ballast/Driver: -

Summary

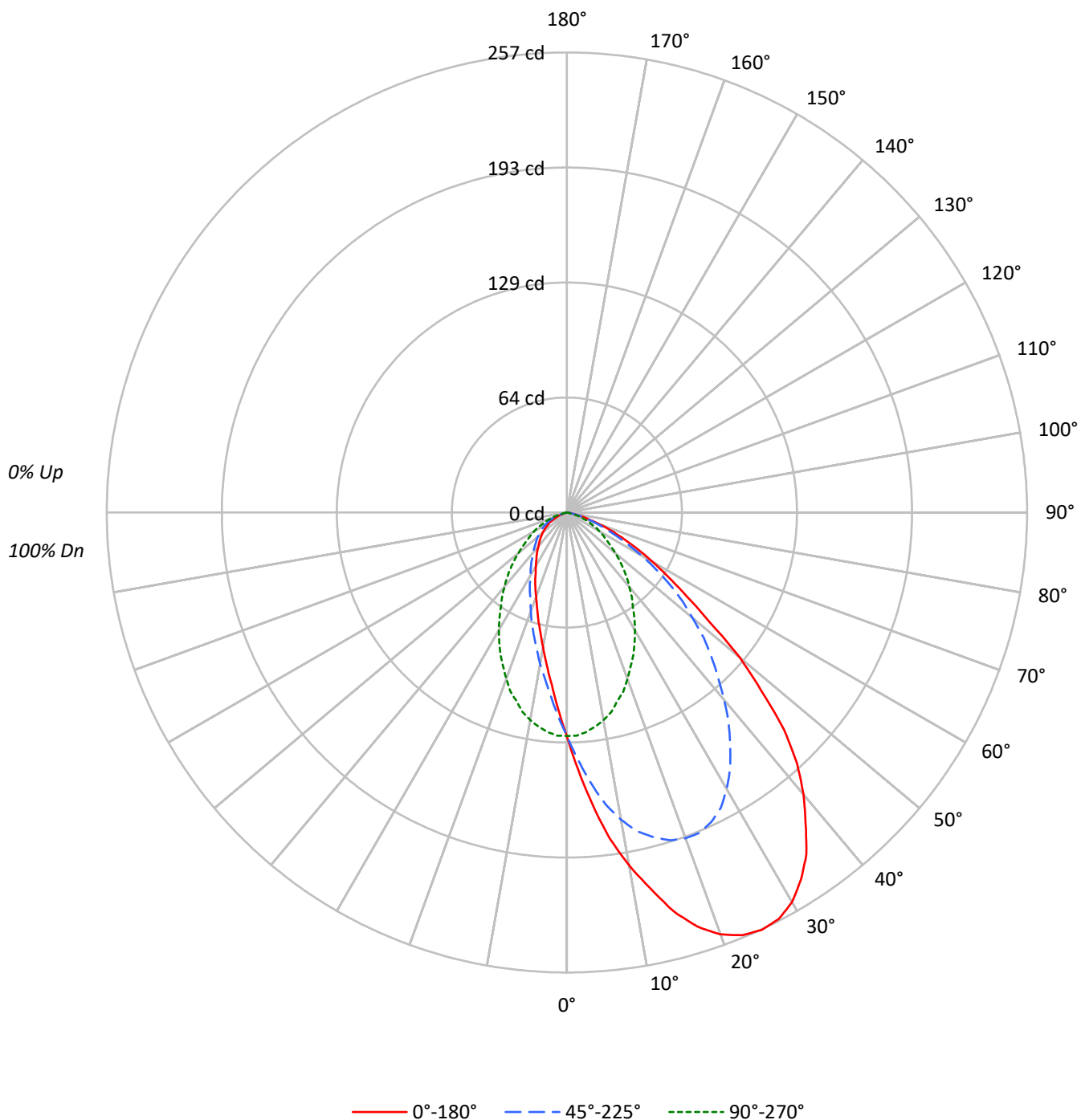
Lumens per Lamp: N/A
Luminaire Lumens: 280.0 lumens
Efficiency: N/A
Efficacy: 31.1 lumens/watt
Spacing Criteria (0/90/45): 1.52 / 0.97 / 1.29
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	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°	21493	21493	21493	21493	21493
5°	28301	26157	21282	17807	16700
10°	35011	30481	20601	15040	13378
15°	41151	33484	19417	12695	11019
20°	45965	35500	18126	10795	9182
25°	48894	36257	16665	9292	7943
30°	49995	35478	15114	8074	6901
35°	49029	33429	13498	7296	6181
40°	46201	30711	12185	6610	5553
45°	41746	27815	10911	6016	5163
50°	33759	24462	9458	5680	4742
55°	24561	21048	8137	5315	4234
60°	19082	16637	7302	4857	3858
65°	14385	11981	5990	4320	2893
70°	10071	8611	4431	3273	1762
75°	5856	5124	2329	1597	399
80°	1190	1785	595	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 41746 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.2	4.4
10°-20°	36.4	13.0
20°-30°	54.8	19.6
30°-40°	61.0	21.8
40°-50°	54.0	19.3
50°-60°	36.7	13.1
60°-70°	19.2	6.9
70°-80°	5.5	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°	103.4	36.9
0°-40°	164.4	58.7
0°-60°	255.1	91.1
0°-90°	280.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	280.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	125	125	125	125	125	
5°	164	151	123	103	97	17
15°	231	188	109	71	62	66
25°	257	191	88	49	42	118
35°	233	159	64	35	29	145
45°	171	114	45	25	21	130
55°	82	70	27	18	14	76
65°	35	29	15	11	7	36
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°	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8
2.5°	143.7	143.1	142.5	142.5	141.9	141.3	140.1	140.1	139.0	137.8	136.6
5°	163.7	163.7	163.7	161.9	161.9	159.6	158.4	156.0	153.7	151.3	148.4
7.5°	183.7	183.7	182.0	181.4	179.6	177.2	175.5	171.9	167.8	164.3	159.6
10°	200.2	200.2	198.4	197.3	193.7	191.4	187.8	183.7	179.6	174.3	168.4
12.5°	214.9	215.5	213.2	210.8	207.3	203.7	199.0	193.7	188.4	182.5	174.9
15°	230.8	230.2	227.3	224.3	220.2	214.9	209.0	202.0	194.9	187.8	179.6
17.5°	242.6	242.0	239.1	235.5	230.2	223.8	217.3	209.0	200.8	192.0	182.0
20°	250.8	250.3	247.3	242.6	237.3	230.2	222.6	213.2	204.3	193.7	182.5
22.5°	255.6	255.0	251.4	247.3	240.8	233.2	224.9	214.9	204.9	193.7	181.4
25°	257.3	256.1	252.6	247.9	241.4	233.2	223.8	213.2	202.6	190.8	177.8
27.5°	256.1	255.0	250.8	245.5	238.5	229.1	219.6	209.0	197.8	186.1	172.5
30°	251.4	249.7	246.1	240.8	233.2	223.8	213.7	202.6	190.8	178.4	164.9
32.5°	243.2	242.0	238.5	232.6	224.9	215.5	205.5	193.7	182.0	169.6	156.0
35°	233.2	230.8	227.3	222.0	214.3	204.9	194.9	182.5	171.4	159.0	146.0
37.5°	219.0	218.5	214.3	210.2	202.6	192.5	183.1	171.4	160.2	148.4	135.4
40°	205.5	204.3	200.8	196.1	188.4	179.6	169.6	159.0	147.8	136.6	124.8
42.5°	190.2	188.4	186.1	181.4	174.3	165.5	156.0	145.4	135.4	124.8	114.2
45°	171.4	170.8	167.8	165.5	159.0	151.3	141.9	132.5	122.5	114.2	106.0
47.5°	147.2	146.6	146.0	144.3	140.7	135.4	128.4	119.5	111.9	103.6	92.4
50°	126.0	125.4	124.2	123.7	120.7	117.8	112.5	107.2	100.7	91.3	82.4
52.5°	100.1	100.7	102.5	103.0	102.5	100.1	97.7	96.0	87.1	81.3	73.0
55°	81.8	81.8	81.3	81.8	82.4	83.6	83.6	81.3	75.4	70.1	63.0
57.5°	67.1	67.1	67.1	67.1	67.1	67.7	67.7	67.1	64.2	58.9	52.4
60°	55.4	54.8	54.8	55.4	54.8	54.8	55.4	55.4	52.4	48.3	42.4
62.5°	44.8	44.8	44.8	44.2	44.2	44.8	44.8	44.2	41.8	37.7	33.6
65°	35.3	35.3	35.3	35.3	35.3	35.9	35.3	34.7	32.4	29.4	26.5
67.5°	27.1	27.1	27.7	27.1	27.7	27.7	27.7	26.5	24.7	22.4	20.6
70°	20.0	20.0	20.0	20.6	21.2	21.2	20.6	19.4	18.3	17.1	15.3
72.5°	13.5	14.1	14.1	14.1	14.7	14.7	14.1	13.5	13.0	11.8	11.2
75°	8.8	8.2	8.8	8.8	9.4	9.4	8.8	8.8	8.2	7.7	7.1
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	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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°	124.8	124.8	124.8	124.8	124.8	124.8	124.8	124.8
2.5°	135.4	133.7	131.3	124.8	118.9	113.6	110.7	110.1
5°	144.9	142.5	136.6	123.1	111.9	103.0	97.7	96.6
7.5°	154.9	150.2	141.9	120.7	104.8	93.6	87.7	86.0
10°	162.5	156.6	145.4	117.8	97.7	86.0	78.9	76.5
12.5°	167.8	160.8	148.4	114.2	91.9	77.7	70.7	68.3
15°	170.8	163.1	149.0	108.9	84.8	71.2	63.6	61.8
17.5°	171.9	163.1	147.8	104.8	78.3	64.8	57.7	55.4
20°	171.4	160.8	144.9	98.9	72.4	58.9	51.8	50.1
22.5°	169.0	157.2	140.1	93.0	66.5	53.0	47.1	45.9
25°	165.5	152.5	134.8	87.7	61.2	48.9	43.0	41.8
27.5°	159.6	146.6	127.8	81.8	56.5	44.8	39.5	37.7
30°	151.9	139.6	120.7	76.0	51.8	40.6	35.9	34.7
32.5°	143.7	131.3	113.6	70.1	47.7	37.7	33.0	31.8
35°	134.3	122.5	104.8	64.2	43.6	34.7	30.0	29.4
37.5°	124.8	113.1	97.2	59.5	40.0	31.8	27.7	27.1
40°	114.2	104.8	93.0	54.2	37.1	29.4	25.9	24.7
42.5°	107.8	94.8	80.1	49.5	34.2	27.1	23.6	23.0
45°	93.6	84.2	72.4	44.8	31.2	24.7	21.8	21.2
47.5°	84.2	76.0	64.8	40.0	28.9	23.0	20.0	19.4
50°	74.8	67.1	56.5	35.3	26.5	21.2	18.3	17.7
52.5°	65.4	57.7	48.3	31.2	23.6	19.4	16.5	15.9
55°	55.9	48.9	40.0	27.1	21.2	17.7	15.3	14.1
57.5°	45.9	40.0	34.2	24.1	18.8	15.9	13.5	12.4
60°	37.1	33.6	28.9	21.2	16.5	14.1	11.8	11.2
62.5°	30.0	27.1	24.1	18.3	14.7	12.4	10.6	8.8
65°	24.1	22.4	20.0	14.7	12.4	10.6	8.8	7.1
67.5°	18.8	17.7	15.9	12.4	10.0	8.8	6.5	5.3
70°	14.7	13.5	12.4	8.8	7.7	6.5	4.7	3.5
72.5°	10.6	9.4	8.8	6.5	5.3	4.7	2.9	1.8
75°	6.5	6.5	5.3	3.5	2.9	2.4	1.2	0.6
77.5°	3.5	3.5	2.9	1.8	1.8	0.6	0.0	0.0
80°	1.8	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)