

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: P1327347

Luminaire Tested: LDSQA3D09R70W2N902765DE010 3LSQCLSWWR 1MW_3000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1327347
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-71)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R70W2N902765DE010 3LSQCLSWWR 1MW_3000K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 3000K CCT AND, 90CRI ,
3LSQCLSWWR 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

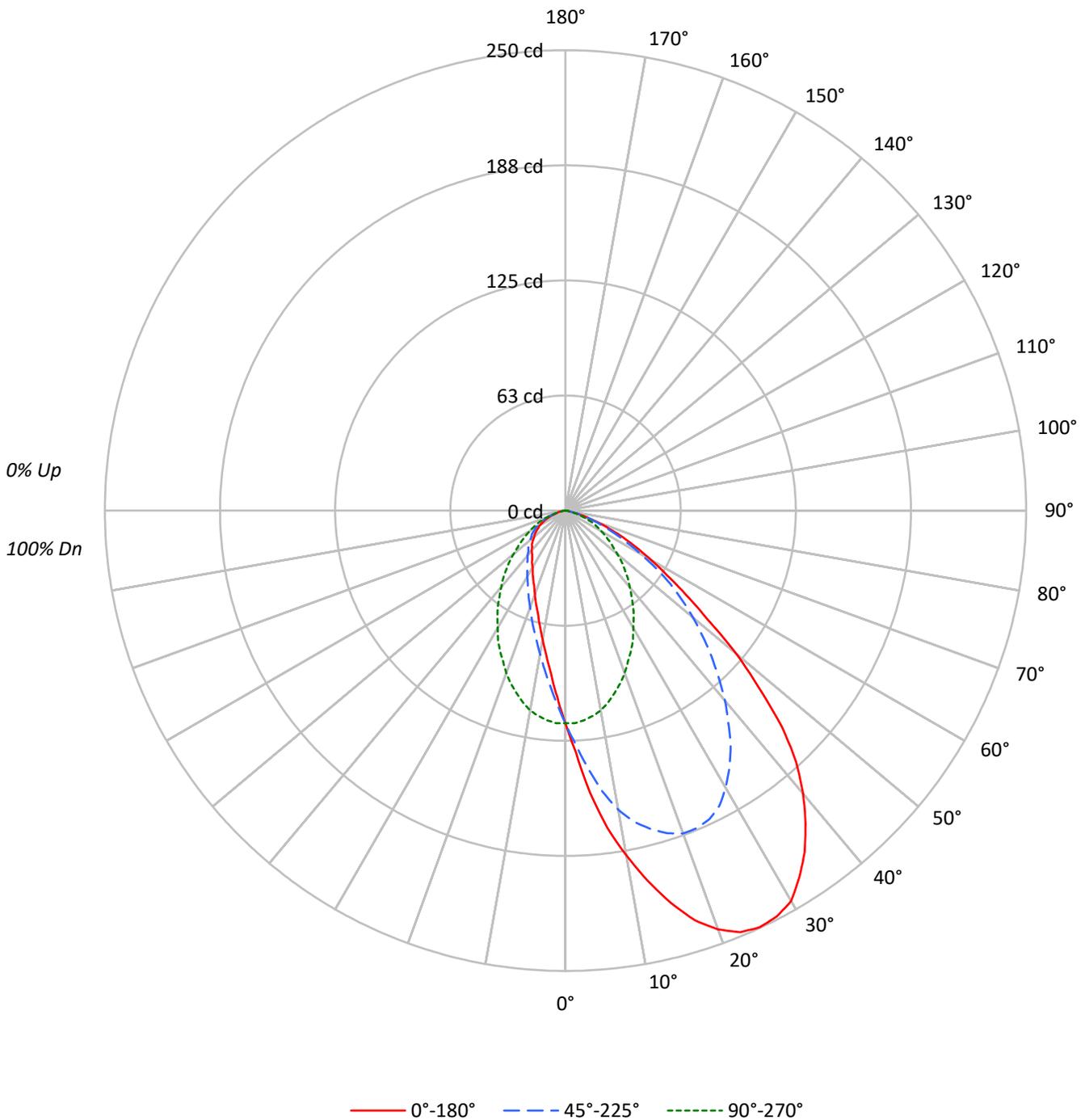
Lumens per Lamp: N/A
Luminaire Lumens: 282.0 lumens
Efficiency: N/A
Efficacy: 31.3 lumens/watt
Spacing Criteria (0/90/45): 1.58 / 1 / 1.33
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76
3	94	85	78	72	92	83	77	72	81	75	70	78	73	69	75	71	68	66
4	87	76	68	62	85	75	68	62	73	66	61	70	65	60	68	64	60	58
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	19892	19892	19892	19892	19892
5°	26606	24290	19760	16527	15421
10°	33245	28855	19272	13868	12434
15°	39297	31915	18293	11857	10288
20°	44353	34199	17210	10263	8871
25°	47431	35136	15962	9083	7867
30°	48702	34563	14617	8233	7080
35°	47578	32861	13477	7611	6623
40°	45099	30283	12185	7217	6430
45°	40480	27279	11082	6966	6259
50°	32500	24221	9833	6725	5948
55°	23991	20838	8768	6666	5765
60°	18462	16258	7819	6441	5614
65°	14018	12103	6887	5950	4972
70°	9416	8510	5287	5287	4129
75°	5057	5057	3460	3460	3127
80°	1190	2281	1686	2281	2876
85°	0	1186	1186	2371	2371

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 40480 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.4	4.0
10°-20°	34.6	12.3
20°-30°	53.3	18.9
30°-40°	60.5	21.5
40°-50°	54.8	19.4
50°-60°	38.3	13.6
60°-70°	21.0	7.5
70°-80°	7.0	2.5
80°-90°	0.9	0.3
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°	99.4	35.2
0°-40°	159.9	56.7
0°-60°	253.0	89.7
0°-90°	282.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	282.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	116	116	116	116	116	
5°	154	140	114	96	89	16
15°	220	179	103	66	58	63
25°	250	185	84	48	41	115
35°	226	156	64	36	32	141
45°	166	112	46	29	26	126
55°	80	69	29	22	19	73
65°	34	30	17	15	12	34
75°	8	8	5	5	5	9
85°	0	1	1	1	1	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°	115.5	115.5	115.5	115.5	115.5	115.5	115.5	115.5	115.5	115.5	115.5
2.5°	131.8	133.0	133.5	132.4	131.8	131.2	130.0	129.5	128.3	127.1	126.5
5°	153.9	153.9	153.9	152.8	151.0	149.9	147.5	145.8	142.9	140.5	138.2
7.5°	173.8	173.8	173.2	171.4	170.3	167.4	164.4	162.1	157.4	153.9	149.3
10°	190.1	190.1	189.5	186.6	184.9	181.4	178.4	174.4	169.7	165.0	159.8
12.5°	205.8	205.8	203.5	201.2	197.7	193.0	188.9	184.9	178.4	173.2	166.8
15°	220.4	220.4	219.3	215.2	210.5	205.3	199.4	193.6	186.0	179.0	172.0
17.5°	233.2	232.7	230.9	226.3	221.6	215.2	208.2	201.2	191.8	183.7	174.9
20°	242.0	242.0	239.7	234.4	229.2	222.2	214.6	206.4	196.5	186.6	176.1
22.5°	247.8	247.2	244.9	239.7	233.2	226.3	217.5	208.8	197.7	186.6	175.5
25°	249.6	249.0	246.7	240.8	234.4	226.8	217.5	208.2	196.5	184.9	172.6
27.5°	248.4	247.8	245.5	239.1	232.7	223.9	214.6	204.7	193.0	180.8	168.5
30°	244.9	243.2	240.8	235.0	228.0	219.3	209.3	198.3	186.6	173.8	161.5
32.5°	236.2	236.2	233.2	227.4	220.4	211.1	201.2	190.7	177.9	165.6	152.8
35°	226.3	225.7	223.3	216.9	210.5	201.8	191.8	180.8	168.5	156.3	144.0
37.5°	214.0	213.4	211.1	205.3	198.3	190.1	179.6	169.1	157.4	145.2	134.1
40°	200.6	199.4	196.5	191.8	186.0	176.7	167.4	156.9	145.8	134.7	123.6
42.5°	185.4	184.3	181.9	178.4	171.4	163.3	154.5	144.6	134.1	123.0	114.9
45°	166.2	166.2	165.0	161.5	156.3	149.9	140.5	131.8	121.9	112.0	103.2
47.5°	142.3	143.4	142.9	141.1	138.8	133.0	126.5	119.0	109.6	100.9	92.7
50°	121.3	121.9	122.5	121.3	119.5	115.5	111.4	106.7	98.5	90.4	82.8
52.5°	97.4	99.1	99.1	99.7	99.7	98.5	97.4	92.1	88.1	79.9	72.9
55°	79.9	79.9	79.9	81.1	81.6	82.2	81.1	79.9	75.2	69.4	63.0
57.5°	65.3	65.3	66.5	65.9	65.9	67.1	67.1	66.5	63.6	58.3	52.5
60°	53.6	53.6	53.6	53.6	54.2	54.2	54.2	54.2	51.9	47.2	42.6
62.5°	43.2	43.2	43.2	43.7	43.7	43.7	44.3	43.7	41.4	37.9	33.8
65°	34.4	33.8	34.4	34.4	35.0	35.0	35.0	34.4	32.1	29.7	26.8
67.5°	25.7	26.2	26.2	26.2	26.8	27.4	26.8	26.2	24.5	22.2	21.0
70°	18.7	19.2	19.2	19.2	19.8	20.4	19.8	19.2	18.1	16.9	15.7
72.5°	12.2	12.8	12.8	13.4	14.0	14.0	13.4	13.4	12.8	11.7	11.1
75°	7.6	7.6	8.2	8.2	8.7	8.7	8.7	8.2	8.2	7.6	7.6
77.5°	3.5	3.5	4.1	4.1	4.1	4.7	4.7	4.7	4.7	4.7	4.1
80°	1.2	1.2	1.2	1.2	1.2	1.7	1.7	1.7	2.3	2.3	2.3
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6
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°	115.5	115.5	115.5	115.5	115.5	115.5	115.5	115.5
2.5°	125.4	123.6	121.3	115.5	109.6	105.0	102.0	101.5
5°	135.3	132.4	127.1	114.3	103.8	95.6	91.0	89.2
7.5°	145.2	139.9	132.4	112.5	96.8	86.9	81.6	79.3
10°	153.4	146.9	137.0	110.2	91.0	79.3	72.9	71.1
12.5°	159.8	152.2	139.9	106.7	85.1	72.3	65.9	64.1
15°	163.9	155.7	141.7	102.6	79.3	66.5	60.1	57.7
17.5°	165.6	155.7	141.1	98.5	74.1	61.2	54.8	53.1
20°	165.6	154.5	139.4	93.9	68.8	56.0	50.1	48.4
22.5°	163.9	152.2	135.3	88.6	64.1	51.9	46.1	44.3
25°	160.4	147.5	130.6	84.0	59.5	47.8	42.6	41.4
27.5°	155.1	142.3	124.8	79.3	55.4	44.3	39.7	38.5
30°	148.7	135.9	118.4	73.5	51.3	41.4	37.3	35.6
32.5°	140.5	128.3	111.4	68.8	47.8	38.5	35.0	33.8
35°	131.8	120.7	103.8	64.1	44.3	36.2	32.7	31.5
37.5°	123.0	111.4	97.4	58.9	41.4	33.8	30.9	29.7
40°	113.7	105.0	90.4	54.2	39.1	32.1	29.2	28.6
42.5°	104.4	95.0	80.5	50.1	36.2	29.7	27.4	26.8
45°	93.3	84.6	72.9	45.5	33.8	28.6	26.2	25.7
47.5°	84.0	75.8	65.3	41.4	31.5	26.8	24.5	23.9
50°	75.2	67.1	57.1	36.7	29.2	25.1	23.3	22.2
52.5°	65.3	58.3	49.6	32.7	26.8	23.3	21.6	21.0
55°	56.6	49.6	41.4	29.2	24.5	22.2	19.8	19.2
57.5°	46.6	40.8	35.0	25.7	22.2	19.8	18.7	17.5
60°	37.9	33.8	29.7	22.7	19.8	18.7	16.9	16.3
62.5°	30.9	28.0	25.1	19.8	17.5	16.3	15.2	14.0
65°	24.5	22.7	20.4	16.9	15.2	14.6	13.4	12.2
67.5°	19.2	18.1	16.3	13.4	12.8	12.2	11.1	9.9
70°	14.6	14.0	12.8	10.5	9.9	10.5	9.3	8.2
72.5°	10.5	9.9	9.3	7.6	7.6	7.6	7.0	5.8
75°	7.0	6.4	5.8	5.2	5.2	5.2	5.2	4.7
77.5°	4.1	4.1	3.5	2.9	3.5	3.5	4.1	4.1
80°	1.7	1.7	1.7	1.7	2.3	2.3	2.9	2.9
82.5°	1.2	1.2	1.2	1.2	1.7	1.7	1.7	1.7
85°	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)