

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: P1327350

Luminaire Tested: LDSQA3D09R70W2N902765DE010 3LSQCLSWWR 1MW\_5000K

Issue Date: 1/29/2026

**Test Information**

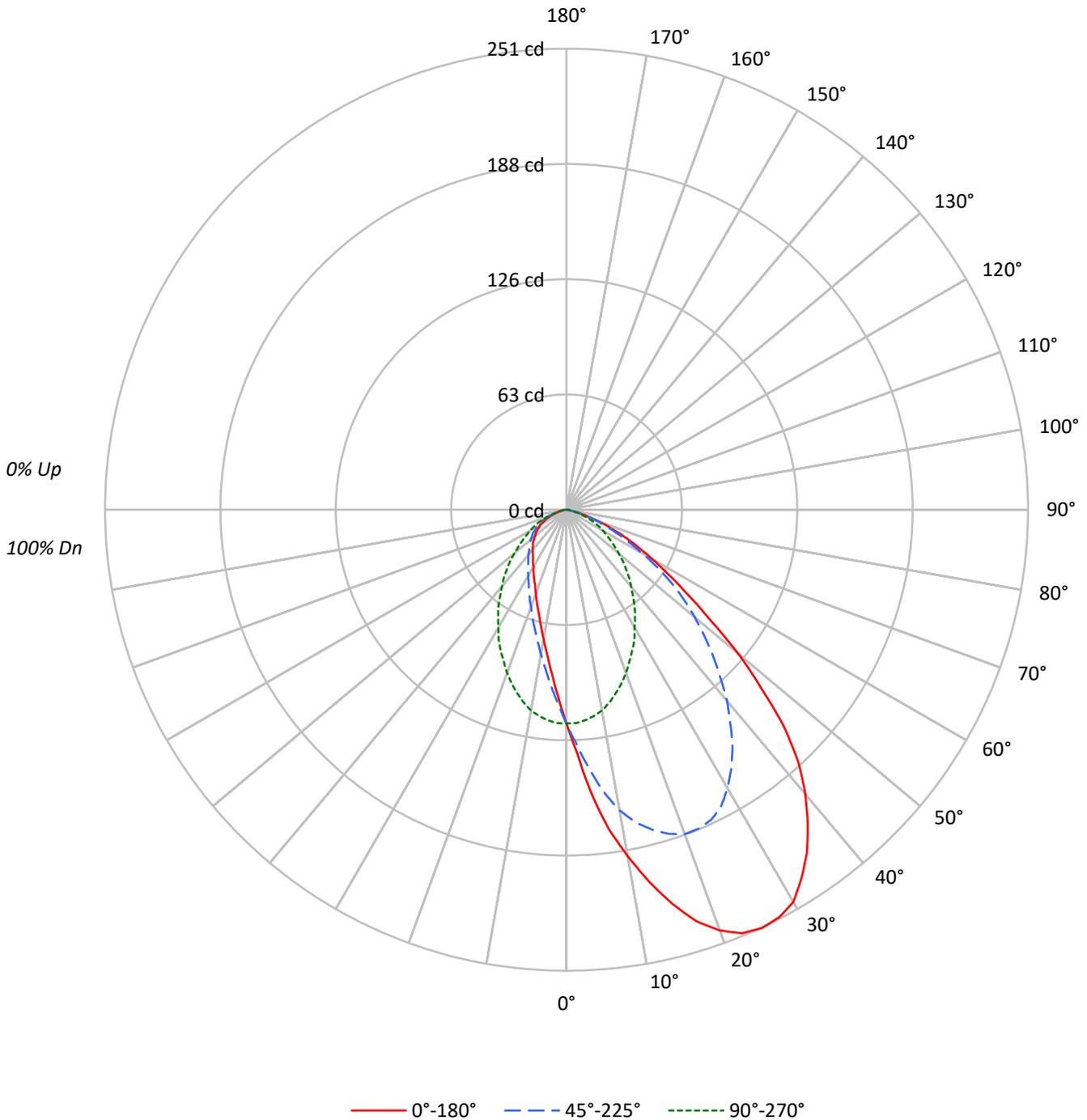
Test Method: LM-79-2019  
Report Number: P1327350  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-71)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R70W2N902765DE010 3LSQCLSWWR 1MW\_5000K  
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 5000K CCT AND, 90CRI ,  
3LSQCLSWWR 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 284.0 lumens  
Efficiency: N/A  
Efficacy: 31.6 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	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	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°	20029	20029	20029	20029	20029
5°	26796	24463	19899	16648	15542
10°	33472	29065	19412	13973	12521
15°	39582	32147	18436	11928	10359
20°	44664	34437	17320	10337	8926
25°	47754	35383	16076	9159	7924
30°	49040	34801	14716	8293	7119
35°	47915	33093	13582	7653	6665
40°	45414	30508	12275	7262	6475
45°	40772	27474	11155	7015	6284
50°	32741	24382	9913	6779	5975
55°	24171	20988	8828	6696	5825
60°	18600	16396	7888	6476	5649
65°	14100	12225	6928	5990	5012
70°	9467	8560	5338	5338	4129
75°	5057	5057	3527	3527	3127
80°	1190	2281	1785	2281	2876
85°	0	1186	1186	2371	2371

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 40772 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	11.5	4.0
10°-20°	34.9	12.3
20°-30°	53.7	18.9
30°-40°	61.0	21.5
40°-50°	55.2	19.4
50°-60°	38.6	13.6
60°-70°	21.2	7.5
70°-80°	7.1	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°	100.1	35.2
0°-40°	161.0	56.7
0°-60°	254.8	89.7
0°-90°	284.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	284.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	116	116	116	116	116	
5°	155	142	115	96	90	16
15°	222	180	103	67	58	63
25°	251	186	85	48	42	115
35°	228	157	65	36	32	142
45°	167	113	46	29	26	127
55°	80	70	29	22	19	74
65°	35	30	17	15	12	35
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°	116.3	116.3	116.3	116.3	116.3	116.3	116.3	116.3	116.3	116.3	116.3
2.5°	132.7	133.9	134.5	133.3	132.7	132.1	131.0	130.4	129.2	128.0	127.4
5°	155.0	155.0	155.0	153.9	152.1	150.9	148.6	146.8	143.9	141.5	139.2
7.5°	175.0	175.0	174.4	172.7	171.5	168.5	165.6	163.3	158.6	155.0	150.3
10°	191.4	191.4	190.9	187.9	186.2	182.6	179.7	175.6	170.9	166.2	160.9
12.5°	207.3	207.3	205.0	202.6	199.1	194.4	190.3	186.2	179.7	174.4	168.0
15°	222.0	222.0	220.8	216.7	212.0	206.7	200.8	195.0	187.3	180.3	173.2
17.5°	234.9	234.3	232.6	227.9	223.2	216.7	209.7	202.6	193.2	185.0	176.2
20°	243.7	243.7	241.4	236.1	230.8	223.7	216.1	207.9	197.9	187.9	177.4
22.5°	249.6	249.0	246.6	241.4	234.9	227.9	219.0	210.2	199.1	187.9	176.8
25°	251.3	250.8	248.4	242.5	236.1	228.4	219.0	209.7	197.9	186.2	173.8
27.5°	250.2	249.6	247.2	240.8	234.3	225.5	216.1	206.1	194.4	182.1	169.7
30°	246.6	244.9	242.5	236.7	229.6	220.8	210.8	199.7	187.9	175.0	162.7
32.5°	237.8	237.8	234.9	229.0	222.0	212.6	202.6	192.0	179.1	166.8	153.9
35°	227.9	227.3	224.9	218.5	212.0	203.2	193.2	182.1	169.7	157.4	145.1
37.5°	215.5	214.9	212.6	206.7	199.7	191.4	180.9	170.3	158.6	146.2	135.1
40°	202.0	200.8	197.9	193.2	187.3	177.9	168.5	158.0	146.8	135.7	124.5
42.5°	186.7	185.6	183.2	179.7	172.7	164.4	155.6	145.6	135.1	123.9	115.7
45°	167.4	167.4	166.2	162.7	157.4	150.9	141.5	132.7	122.7	112.8	103.9
47.5°	143.3	144.5	143.9	142.1	139.8	133.9	127.4	119.8	110.4	101.6	93.4
50°	122.2	122.7	123.3	122.2	120.4	116.3	112.2	107.5	99.2	91.0	83.4
52.5°	98.1	99.8	99.8	100.4	100.4	99.2	98.1	92.8	88.7	80.5	73.4
55°	80.5	80.5	80.5	81.6	82.2	82.8	81.6	80.5	75.8	69.9	63.4
57.5°	65.8	65.8	66.9	66.4	66.4	67.5	67.5	66.9	64.0	58.7	52.9
60°	54.0	54.0	54.0	54.0	54.6	54.6	54.6	54.6	52.3	47.6	42.9
62.5°	43.5	43.5	43.5	44.0	44.0	44.0	44.6	44.0	41.7	38.2	34.1
65°	34.6	34.1	34.6	34.6	35.2	35.2	35.2	34.6	32.3	30.0	27.0
67.5°	25.8	26.4	26.4	26.4	27.0	27.6	27.0	26.4	24.7	22.3	21.1
70°	18.8	19.4	19.4	19.4	20.0	20.6	20.0	19.4	18.2	17.0	15.9
72.5°	12.3	12.9	12.9	13.5	14.1	14.1	13.5	13.5	12.9	11.7	11.2
75°	7.6	7.6	8.2	8.2	8.8	8.8	8.8	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	1.8	1.8	1.8	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°	116.3	116.3	116.3	116.3	116.3	116.3	116.3	116.3
2.5°	126.3	124.5	122.2	116.3	110.4	105.7	102.8	102.2
5°	136.2	133.3	128.0	115.1	104.5	96.3	91.6	89.9
7.5°	146.2	140.9	133.3	113.3	97.5	87.5	82.2	79.9
10°	154.4	148.0	138.0	111.0	91.6	79.9	73.4	71.6
12.5°	160.9	153.3	140.9	107.5	85.7	72.8	66.4	64.6
15°	165.0	156.8	142.7	103.4	79.9	66.9	60.5	58.1
17.5°	166.8	156.8	142.1	99.2	74.6	61.7	55.2	53.4
20°	166.8	155.6	140.4	94.5	69.3	56.4	50.5	48.7
22.5°	165.0	153.3	136.2	89.3	64.6	52.3	46.4	44.6
25°	161.5	148.6	131.5	84.6	59.9	48.2	42.9	41.7
27.5°	156.2	143.3	125.7	79.9	55.8	44.6	39.9	38.8
30°	149.8	136.8	119.2	74.0	51.7	41.7	37.6	35.8
32.5°	141.5	129.2	112.2	69.3	48.2	38.8	35.2	34.1
35°	132.7	121.6	104.5	64.6	44.6	36.4	32.9	31.7
37.5°	123.9	112.2	98.1	59.3	41.7	34.1	31.1	30.0
40°	114.5	105.7	91.0	54.6	39.3	32.3	29.4	28.8
42.5°	105.1	95.7	81.0	50.5	36.4	30.0	27.6	27.0
45°	94.0	85.2	73.4	45.8	34.1	28.8	26.4	25.8
47.5°	84.6	76.3	65.8	41.7	31.7	27.0	24.7	24.1
50°	75.8	67.5	57.6	37.0	29.4	25.3	23.5	22.3
52.5°	65.8	58.7	49.9	32.9	27.0	23.5	21.7	21.1
55°	57.0	49.9	41.7	29.4	24.7	22.3	20.0	19.4
57.5°	47.0	41.1	35.2	25.8	22.3	20.0	18.8	17.6
60°	38.2	34.1	30.0	22.9	20.0	18.8	17.0	16.4
62.5°	31.1	28.2	25.3	20.0	17.6	16.4	15.3	14.1
65°	24.7	22.9	20.6	17.0	15.3	14.7	13.5	12.3
67.5°	19.4	18.2	16.4	13.5	12.9	12.3	11.2	10.0
70°	14.7	14.1	12.9	10.6	10.0	10.6	9.4	8.2
72.5°	10.6	10.0	9.4	7.6	7.6	7.6	7.0	5.9
75°	7.0	6.5	5.9	5.3	5.3	5.3	5.3	4.7
77.5°	4.1	4.1	3.5	2.9	3.5	3.5	4.1	4.1
80°	1.8	1.8	1.8	1.8	2.3	2.3	2.9	2.9
82.5°	1.2	1.2	1.2	1.2	1.8	1.8	1.8	1.8
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)