

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: P1327349

Luminaire Tested: LDSQA3D09R70W2N902765DE010 3LSQCLSWWR 1MW_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1327349
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_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 4000K CCT AND, 90CRI ,
3LSQCLSWWR 1MW TRIM
Light Source: -
Ballast/Driver: -

Summary

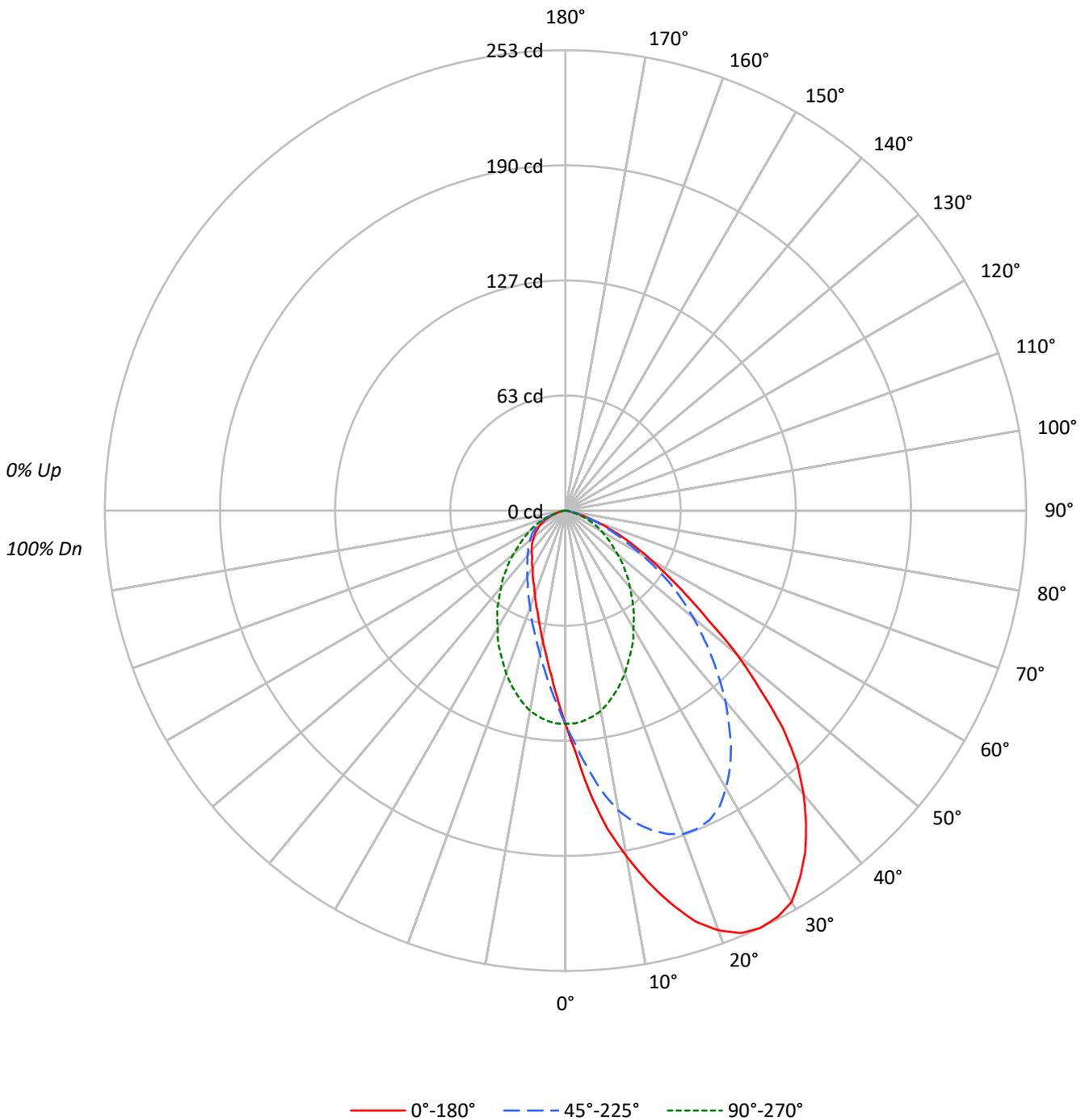
Lumens per Lamp: N/A
Luminaire Lumens: 286.0 lumens
Efficiency: N/A
Efficacy: 31.8 lumens/watt
Spacing Criteria (0/90/45): 1.58 / 1 / 1.33
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	20167	20167	20167	20167	20167
5°	26987	24635	20037	16769	15646
10°	33717	29275	19552	14060	12626
15°	39850	32379	18561	12017	10430
20°	44976	34676	17448	10410	8999
25°	48096	35630	16190	9216	7981
30°	49398	35040	14815	8352	7179
35°	48251	33324	13687	7716	6707
40°	45729	30711	12365	7307	6520
45°	41040	27644	11228	7063	6333
50°	32955	24569	9994	6805	6028
55°	24321	21138	8888	6756	5855
60°	18738	16499	7957	6510	5718
65°	14222	12307	7009	6031	5053
70°	9517	8661	5338	5338	4179
75°	5124	5124	3527	3527	3127
80°	1190	2380	1785	2380	2975
85°	0	1186	1186	2371	2371

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 41040 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.6	4.0
10°-20°	35.1	12.3
20°-30°	54.1	18.9
30°-40°	61.4	21.5
40°-50°	55.6	19.4
50°-60°	38.9	13.6
60°-70°	21.4	7.5
70°-80°	7.1	2.5
80°-90°	1.0	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°	100.8	35.2
0°-40°	162.2	56.7
0°-60°	256.6	89.7
0°-90°	286.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	286.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	117	117	117	117	117	
5°	156	142	116	97	90	16
15°	224	182	104	67	58	64
25°	253	188	85	48	42	116
35°	230	158	65	37	32	143
45°	168	114	46	29	26	128
55°	81	70	30	22	20	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°	117.1	117.1	117.1	117.1	117.1	117.1	117.1	117.1	117.1	117.1	117.1
2.5°	133.7	134.8	135.4	134.2	133.7	133.1	131.9	131.3	130.1	128.9	128.3
5°	156.1	156.1	156.1	154.9	153.2	152.0	149.6	147.8	144.9	142.5	140.2
7.5°	176.2	176.2	175.6	173.9	172.7	169.7	166.8	164.4	159.7	156.1	151.4
10°	192.8	192.8	192.2	189.2	187.5	183.9	181.0	176.8	172.1	167.4	162.0
12.5°	208.8	208.8	206.4	204.0	200.5	195.8	191.6	187.5	181.0	175.6	169.1
15°	223.5	223.5	222.4	218.2	213.5	208.2	202.3	196.3	188.7	181.6	174.5
17.5°	236.6	236.0	234.2	229.5	224.7	218.2	211.1	204.0	194.6	186.3	177.4
20°	245.4	245.4	243.1	237.7	232.4	225.3	217.6	209.4	199.3	189.2	178.6
22.5°	251.3	250.8	248.4	243.1	236.6	229.5	220.6	211.7	200.5	189.2	178.0
25°	253.1	252.5	250.2	244.2	237.7	230.1	220.6	211.1	199.3	187.5	175.1
27.5°	251.9	251.3	249.0	242.5	236.0	227.1	217.6	207.6	195.8	183.3	170.9
30°	248.4	246.6	244.2	238.3	231.2	222.4	212.3	201.1	189.2	176.2	163.8
32.5°	239.5	239.5	236.6	230.6	223.5	214.1	204.0	193.4	180.4	168.0	154.9
35°	229.5	228.9	226.5	220.0	213.5	204.6	194.6	183.3	170.9	158.5	146.1
37.5°	217.0	216.5	214.1	208.2	201.1	192.8	182.1	171.5	159.7	147.3	136.0
40°	203.4	202.3	199.3	194.6	188.7	179.2	169.7	159.1	147.8	136.6	125.4
42.5°	188.1	186.9	184.5	181.0	173.9	165.6	156.7	146.7	136.0	124.8	116.5
45°	168.5	168.5	167.4	163.8	158.5	152.0	142.5	133.7	123.6	113.5	104.7
47.5°	144.3	145.5	144.9	143.1	140.8	134.8	128.3	120.6	111.2	102.3	94.0
50°	123.0	123.6	124.2	123.0	121.2	117.1	113.0	108.2	99.9	91.7	84.0
52.5°	98.8	100.5	100.5	101.1	101.1	99.9	98.8	93.4	89.3	81.0	73.9
55°	81.0	81.0	81.0	82.2	82.8	83.4	82.2	81.0	76.3	70.4	63.9
57.5°	66.2	66.2	67.4	66.8	66.8	68.0	68.0	67.4	64.5	59.1	53.2
60°	54.4	54.4	54.4	54.4	55.0	55.0	55.0	55.0	52.6	47.9	43.2
62.5°	43.8	43.8	43.8	44.4	44.4	44.4	44.9	44.4	42.0	38.4	34.3
65°	34.9	34.3	34.9	34.9	35.5	35.5	35.5	34.9	32.5	30.2	27.2
67.5°	26.0	26.6	26.6	26.6	27.2	27.8	27.2	26.6	24.8	22.5	21.3
70°	18.9	19.5	19.5	19.5	20.1	20.7	20.1	19.5	18.3	17.2	16.0
72.5°	12.4	13.0	13.0	13.6	14.2	14.2	13.6	13.6	13.0	11.8	11.2
75°	7.7	7.7	8.3	8.3	8.9	8.9	8.9	8.3	8.3	7.7	7.7
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	2.4	2.4	2.4
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°	117.1	117.1	117.1	117.1	117.1	117.1	117.1	117.1
2.5°	127.2	125.4	123.0	117.1	111.2	106.5	103.5	102.9
5°	137.2	134.2	128.9	115.9	105.3	97.0	92.3	90.5
7.5°	147.3	141.9	134.2	114.1	98.2	88.1	82.8	80.4
10°	155.5	149.0	139.0	111.8	92.3	80.4	73.9	72.2
12.5°	162.0	154.4	141.9	108.2	86.3	73.3	66.8	65.1
15°	166.2	157.9	143.7	104.1	80.4	67.4	60.9	58.5
17.5°	168.0	157.9	143.1	99.9	75.1	62.1	55.6	53.8
20°	168.0	156.7	141.3	95.2	69.8	56.8	50.9	49.1
22.5°	166.2	154.4	137.2	89.9	65.1	52.6	46.7	44.9
25°	162.6	149.6	132.5	85.2	60.3	48.5	43.2	42.0
27.5°	157.3	144.3	126.6	80.4	56.2	44.9	40.2	39.0
30°	150.8	137.8	120.1	74.5	52.0	42.0	37.8	36.1
32.5°	142.5	130.1	113.0	69.8	48.5	39.0	35.5	34.3
35°	133.7	122.4	105.3	65.1	44.9	36.7	33.1	31.9
37.5°	124.8	113.0	98.8	59.7	42.0	34.3	31.3	30.2
40°	115.3	106.5	91.7	55.0	39.6	32.5	29.6	29.0
42.5°	105.9	96.4	81.6	50.9	36.7	30.2	27.8	27.2
45°	94.6	85.8	73.9	46.1	34.3	29.0	26.6	26.0
47.5°	85.2	76.9	66.2	42.0	31.9	27.2	24.8	24.2
50°	76.3	68.0	58.0	37.3	29.6	25.4	23.7	22.5
52.5°	66.2	59.1	50.3	33.1	27.2	23.7	21.9	21.3
55°	57.4	50.3	42.0	29.6	24.8	22.5	20.1	19.5
57.5°	47.3	41.4	35.5	26.0	22.5	20.1	18.9	17.7
60°	38.4	34.3	30.2	23.1	20.1	18.9	17.2	16.6
62.5°	31.3	28.4	25.4	20.1	17.7	16.6	15.4	14.2
65°	24.8	23.1	20.7	17.2	15.4	14.8	13.6	12.4
67.5°	19.5	18.3	16.6	13.6	13.0	12.4	11.2	10.1
70°	14.8	14.2	13.0	10.6	10.1	10.6	9.5	8.3
72.5°	10.6	10.1	9.5	7.7	7.7	7.7	7.1	5.9
75°	7.1	6.5	5.9	5.3	5.3	5.3	5.3	4.7
77.5°	4.1	4.1	3.5	3.0	3.5	3.5	4.1	4.1
80°	1.8	1.8	1.8	1.8	2.4	2.4	3.0	3.0
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)