

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: P1325646

Luminaire Tested: LDSQA3D05R70W2N902750DE010 3LSQCLSWWR 1MMS_2700K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325646
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: LDSQA3D05R70W2N902750DE010 3LSQCLSWWR 1MMS_2700K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 2700K CCT AND, 90CRI ,
3LSQCLSWWR 1MMS TRIM
Light Source: -
Ballast/Driver: -

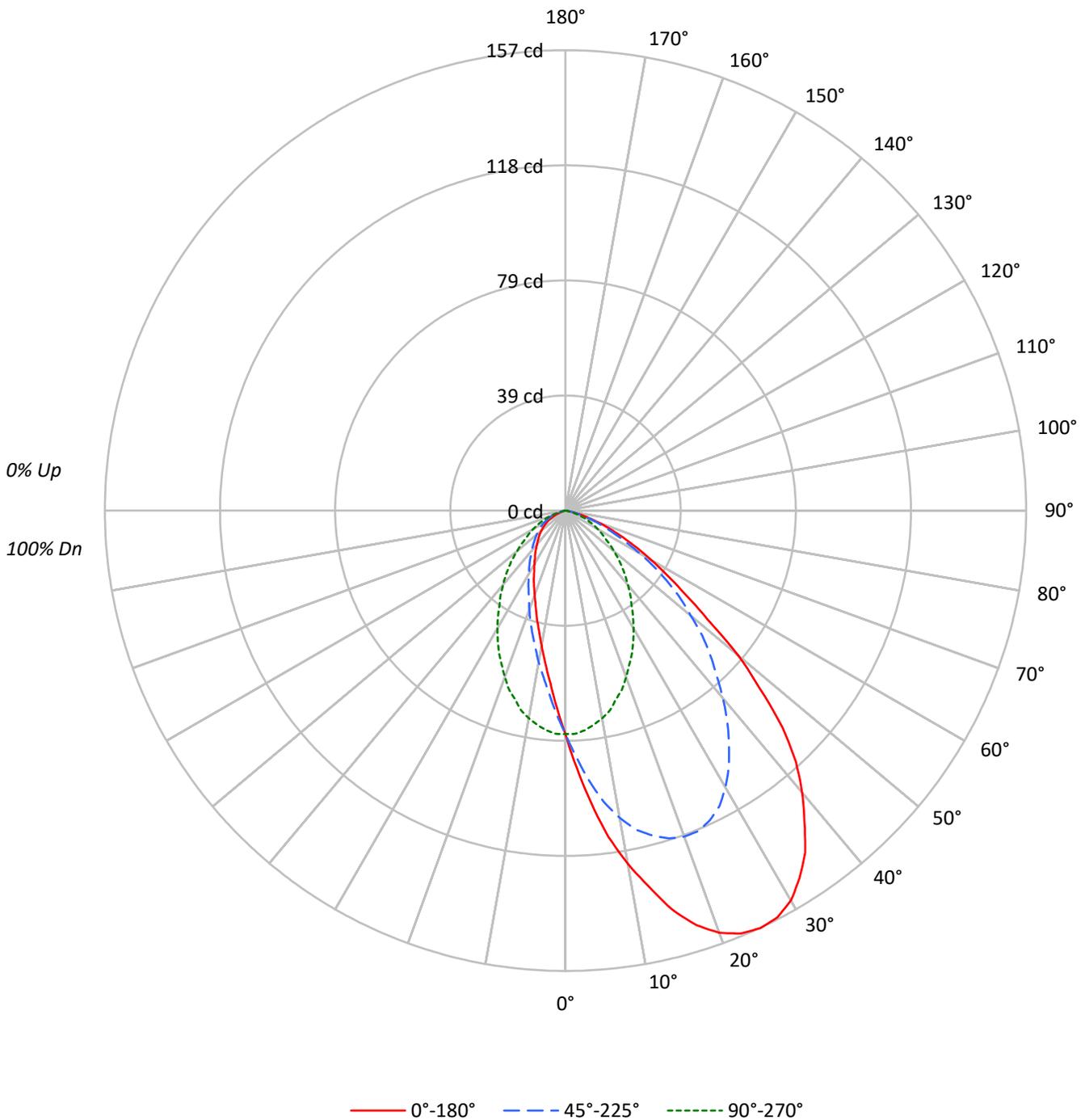
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 171.0 lumens
Efficiency: N/A
Efficacy: 29.0 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): 5.9
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	100	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89	89	89
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77	77	77
3	95	86	79	73	93	84	78	73	82	76	72	79	74	70	76	73	69	67	67	67
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61	59	59	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52	52	52
6	75	63	55	50	74	63	55	49	61	54	49	59	53	49	58	52	48	46	46	46
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42	42	42
8	66	53	45	40	64	53	45	40	51	45	40	50	44	39	49	43	39	38	38	38
9	62	49	41	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34	34	34
10	58	45	38	33	57	45	38	33	44	37	33	43	37	33	42	37	33	31	31	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	13123	13123	13123	13123	13123
5°	17288	15974	13001	10874	10200
10°	21388	18607	12574	9181	8167
15°	25140	20451	11857	7756	6740
20°	28078	21681	11070	6598	5608
25°	29853	22138	10185	5663	4846
30°	30546	21676	9227	4932	4216
35°	29939	20415	8242	4457	3784
40°	28215	18750	7442	4047	3395
45°	25476	17000	6649	3678	3142
50°	20631	14924	5787	3456	2894
55°	15013	12851	4954	3243	2582
60°	11642	10161	4443	2962	2342
65°	8802	7335	3668	2649	1752
70°	6143	5237	2719	2014	1108
75°	3593	3127	1464	932	266
80°	694	1091	397	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 25476 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.5	4.4
10°-20°	22.2	13.0
20°-30°	33.5	19.6
30°-40°	37.2	21.8
40°-50°	33.0	19.3
50°-60°	22.4	13.1
60°-70°	11.8	6.9
70°-80°	3.3	2.0
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°	63.2	36.9
0°-40°	100.4	58.7
0°-60°	155.8	91.1
0°-90°	171.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	171.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	76	76	76	76	76	
5°	100	92	75	63	59	10
15°	141	115	66	44	38	40
25°	157	116	54	30	26	72
35°	142	97	39	21	18	88
45°	105	70	27	15	13	79
55°	50	43	16	11	9	46
65°	22	18	9	6	4	22
75°	5	5	2	1	0	6
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°	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
2.5°	87.7	87.4	87.0	87.0	86.7	86.3	85.6	85.6	84.9	84.1	83.4
5°	100.0	100.0	100.0	98.9	98.9	97.5	96.7	95.3	93.9	92.4	90.6
7.5°	112.2	112.2	111.1	110.8	109.7	108.2	107.2	105.0	102.5	100.3	97.5
10°	122.3	122.3	121.2	120.5	118.3	116.9	114.7	112.2	109.7	106.4	102.8
12.5°	131.3	131.6	130.2	128.7	126.6	124.4	121.5	118.3	115.1	111.5	106.8
15°	141.0	140.6	138.8	137.0	134.5	131.3	127.7	123.3	119.0	114.7	109.7
17.5°	148.2	147.8	146.0	143.8	140.6	136.7	132.7	127.7	122.6	117.2	111.1
20°	153.2	152.8	151.0	148.2	144.9	140.6	135.9	130.2	124.8	118.3	111.5
22.5°	156.1	155.7	153.6	151.0	147.1	142.4	137.4	131.3	125.1	118.3	110.8
25°	157.1	156.4	154.3	151.4	147.4	142.4	136.7	130.2	123.7	116.5	108.6
27.5°	156.4	155.7	153.2	150.0	145.6	139.9	134.1	127.7	120.8	113.6	105.4
30°	153.6	152.5	150.3	147.1	142.4	136.7	130.5	123.7	116.5	109.0	100.7
32.5°	148.5	147.8	145.6	142.0	137.4	131.6	125.5	118.3	111.1	103.6	95.3
35°	142.4	141.0	138.8	135.6	130.9	125.1	119.0	111.5	104.6	97.1	89.2
37.5°	133.8	133.4	130.9	128.4	123.7	117.6	111.8	104.6	97.8	90.6	82.7
40°	125.5	124.8	122.6	119.8	115.1	109.7	103.6	97.1	90.3	83.4	76.2
42.5°	116.2	115.1	113.6	110.8	106.4	101.1	95.3	88.8	82.7	76.2	69.8
45°	104.6	104.3	102.5	101.1	97.1	92.4	86.7	80.9	74.8	69.8	64.7
47.5°	89.9	89.5	89.2	88.1	85.9	82.7	78.4	73.0	68.3	63.3	56.5
50°	77.0	76.6	75.9	75.5	73.7	71.9	68.7	65.4	61.5	55.7	50.3
52.5°	61.1	61.5	62.6	62.9	62.6	61.1	59.7	58.6	53.2	49.6	44.6
55°	50.0	50.0	49.6	50.0	50.3	51.1	51.1	49.6	46.0	42.8	38.5
57.5°	41.0	41.0	41.0	41.0	41.0	41.4	41.4	41.0	39.2	36.0	32.0
60°	33.8	33.4	33.4	33.8	33.4	33.4	33.8	33.8	32.0	29.5	25.9
62.5°	27.3	27.3	27.3	27.0	27.0	27.3	27.3	27.0	25.5	23.0	20.5
65°	21.6	21.6	21.6	21.6	21.6	21.9	21.6	21.2	19.8	18.0	16.2
67.5°	16.5	16.5	16.9	16.5	16.9	16.9	16.9	16.2	15.1	13.7	12.6
70°	12.2	12.2	12.2	12.6	12.9	12.9	12.6	11.9	11.1	10.4	9.3
72.5°	8.3	8.6	8.6	8.6	9.0	9.0	8.6	8.3	7.9	7.2	6.8
75°	5.4	5.0	5.4	5.4	5.8	5.8	5.4	5.4	5.0	4.7	4.3
77.5°	2.5	2.5	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.5	2.5
80°	0.7	0.7	0.7	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	0.0	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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°	76.2	76.2	76.2	76.2	76.2	76.2	76.2	76.2
2.5°	82.7	81.6	80.2	76.2	72.6	69.4	67.6	67.2
5°	88.5	87.0	83.4	75.2	68.3	62.9	59.7	59.0
7.5°	94.6	91.7	86.7	73.7	64.0	57.2	53.6	52.5
10°	99.3	95.7	88.8	71.9	59.7	52.5	48.2	46.7
12.5°	102.5	98.2	90.6	69.8	56.1	47.5	43.2	41.7
15°	104.3	99.6	91.0	66.5	51.8	43.5	38.8	37.8
17.5°	105.0	99.6	90.3	64.0	47.8	39.6	35.2	33.8
20°	104.6	98.2	88.5	60.4	44.2	36.0	31.6	30.6
22.5°	103.2	96.0	85.6	56.8	40.6	32.4	28.8	28.0
25°	101.1	93.1	82.4	53.6	37.4	29.8	26.3	25.5
27.5°	97.5	89.5	78.0	50.0	34.5	27.3	24.1	23.0
30°	92.8	85.2	73.7	46.4	31.6	24.8	21.9	21.2
32.5°	87.7	80.2	69.4	42.8	29.1	23.0	20.1	19.4
35°	82.0	74.8	64.0	39.2	26.6	21.2	18.3	18.0
37.5°	76.2	69.0	59.3	36.3	24.5	19.4	16.9	16.5
40°	69.8	64.0	56.8	33.1	22.7	18.0	15.8	15.1
42.5°	65.8	57.9	48.9	30.2	20.9	16.5	14.4	14.0
45°	57.2	51.4	44.2	27.3	19.1	15.1	13.3	12.9
47.5°	51.4	46.4	39.6	24.5	17.6	14.0	12.2	11.9
50°	45.7	41.0	34.5	21.6	16.2	12.9	11.1	10.8
52.5°	39.9	35.2	29.5	19.1	14.4	11.9	10.1	9.7
55°	34.2	29.8	24.5	16.5	12.9	10.8	9.3	8.6
57.5°	28.0	24.5	20.9	14.7	11.5	9.7	8.3	7.6
60°	22.7	20.5	17.6	12.9	10.1	8.6	7.2	6.8
62.5°	18.3	16.5	14.7	11.1	9.0	7.6	6.5	5.4
65°	14.7	13.7	12.2	9.0	7.6	6.5	5.4	4.3
67.5°	11.5	10.8	9.7	7.6	6.1	5.4	4.0	3.2
70°	9.0	8.3	7.6	5.4	4.7	4.0	2.9	2.2
72.5°	6.5	5.8	5.4	4.0	3.2	2.9	1.8	1.1
75°	4.0	4.0	3.2	2.2	1.8	1.4	0.7	0.4
77.5°	2.2	2.2	1.8	1.1	1.1	0.4	0.0	0.0
80°	1.1	0.7	0.7	0.4	0.4	0.0	0.0	0.0
82.5°	0.4	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)