

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: P1325644

Luminaire Tested: LDSQA3D05R70W2N902750DE010 3LSQCLSWWR 1MB_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1325644
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 1MB_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 4000K CCT AND, 90CRI ,
3LSQCLSWWR 1MB TRIM
Light Source: -
Ballast/Driver: -

Summary

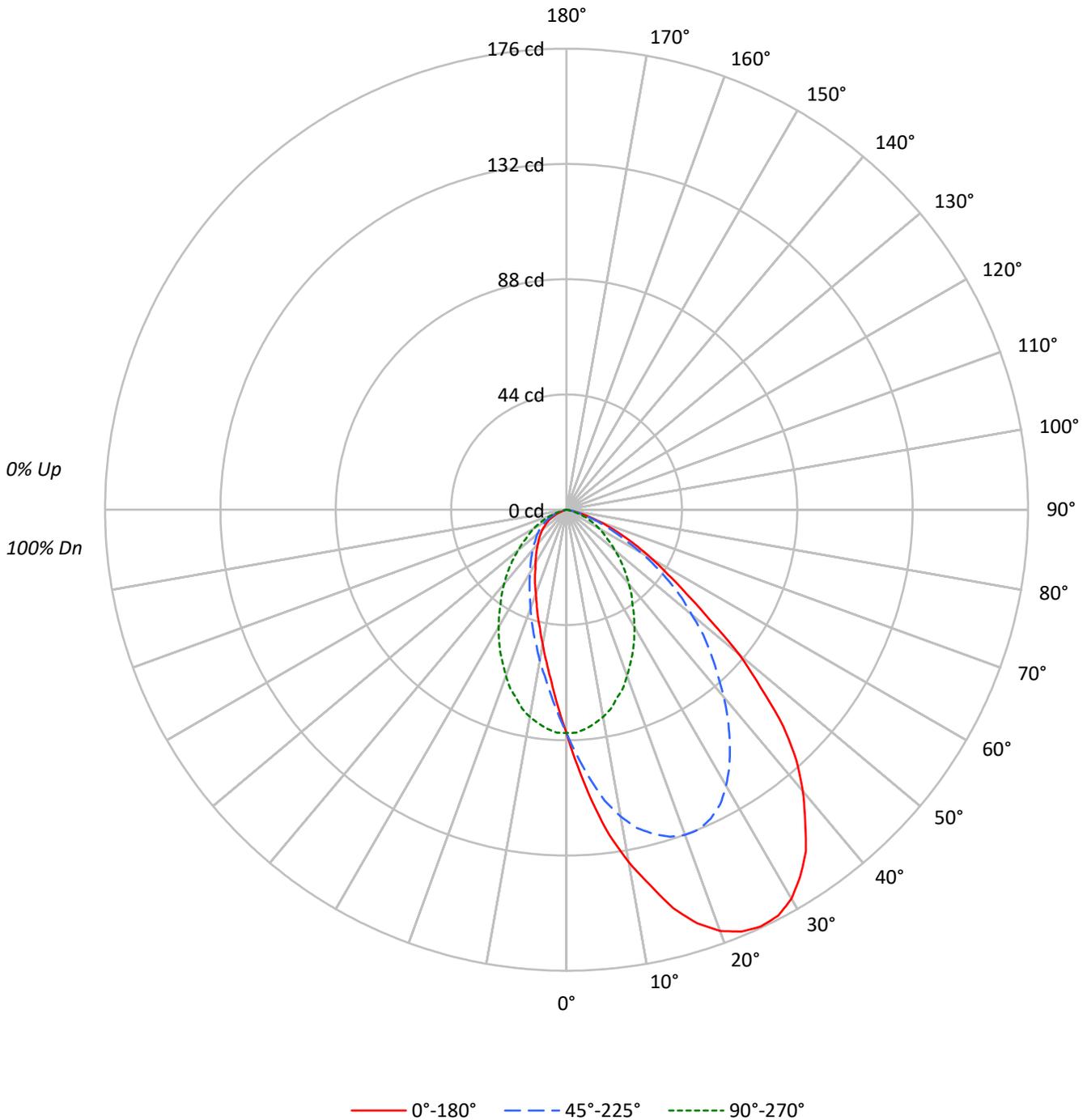
Lumens per Lamp: N/A
Luminaire Lumens: 191.0 lumens
Efficiency: N/A
Efficacy: 32.4 lumens/watt
Spacing Criteria (0/90/45): 1.52 / 0.97 / 1.29
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

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	0
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	64	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°	14673	14673	14673	14673	14673
5°	19311	17841	14505	12153	11393
10°	23889	20793	14043	10248	9129
15°	28082	22840	13248	8665	7524
20°	31358	24211	12371	7368	6250
25°	33350	24722	11364	6328	5416
30°	34105	24202	10301	5509	4713
35°	33450	22812	9209	4983	4226
40°	31520	20953	8318	4519	3799
45°	28472	18973	7429	4116	3532
50°	23042	16692	6457	3885	3242
55°	16755	14352	5555	3633	2883
60°	13020	11332	4994	3307	2618
65°	9821	8191	4075	2934	1956
70°	6899	5841	3021	2216	1209
75°	3993	3460	1597	1065	266
80°	793	1190	397	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 28472 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.3	4.4
10°-20°	24.8	13.0
20°-30°	37.4	19.6
30°-40°	41.6	21.8
40°-50°	36.9	19.3
50°-60°	25.0	13.1
60°-70°	13.1	6.9
70°-80°	3.7	1.9
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°	70.6	36.9
0°-40°	112.2	58.7
0°-60°	174.1	91.1
0°-90°	191.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	191.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	85	85	85	85	85	
5°	112	103	84	70	66	11
15°	158	128	74	49	42	45
25°	176	130	60	33	28	81
35°	159	108	44	24	20	99
45°	117	78	30	17	14	88
55°	56	48	18	12	10	52
65°	24	20	10	7	5	24
75°	6	5	2	2	0	7
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°	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
2.5°	98.0	97.6	97.2	97.2	96.8	96.4	95.6	95.6	94.8	94.0	93.2
5°	111.7	111.7	111.7	110.5	110.5	108.9	108.0	106.4	104.8	103.2	101.2
7.5°	125.3	125.3	124.1	123.7	122.5	120.9	119.7	117.3	114.5	112.1	108.9
10°	136.6	136.6	135.4	134.6	132.1	130.5	128.1	125.3	122.5	118.9	114.9
12.5°	146.6	147.0	145.4	143.8	141.4	139.0	135.8	132.1	128.5	124.5	119.3
15°	157.5	157.1	155.0	153.0	150.2	146.6	142.6	137.8	133.0	128.1	122.5
17.5°	165.5	165.1	163.1	160.7	157.1	152.6	148.2	142.6	137.0	130.9	124.1
20°	171.1	170.7	168.7	165.5	161.9	157.1	151.8	145.4	139.4	132.1	124.5
22.5°	174.3	173.9	171.5	168.7	164.3	159.1	153.4	146.6	139.8	132.1	123.7
25°	175.5	174.7	172.3	169.1	164.7	159.1	152.6	145.4	138.2	130.1	121.3
27.5°	174.7	173.9	171.1	167.5	162.7	156.2	149.8	142.6	135.0	126.9	117.7
30°	171.5	170.3	167.9	164.3	159.1	152.6	145.8	138.2	130.1	121.7	112.5
32.5°	165.9	165.1	162.7	158.7	153.4	147.0	140.2	132.1	124.1	115.7	106.4
35°	159.1	157.5	155.0	151.4	146.2	139.8	133.0	124.5	116.9	108.5	99.6
37.5°	149.4	149.0	146.2	143.4	138.2	131.3	124.9	116.9	109.3	101.2	92.4
40°	140.2	139.4	137.0	133.8	128.5	122.5	115.7	108.5	100.8	93.2	85.2
42.5°	129.7	128.5	126.9	123.7	118.9	112.9	106.4	99.2	92.4	85.2	77.9
45°	116.9	116.5	114.5	112.9	108.5	103.2	96.8	90.4	83.5	77.9	72.3
47.5°	100.4	100.0	99.6	98.4	96.0	92.4	87.6	81.5	76.3	70.7	63.1
50°	86.0	85.6	84.8	84.4	82.3	80.3	76.7	73.1	68.7	62.3	56.2
52.5°	68.3	68.7	69.9	70.3	69.9	68.3	66.7	65.5	59.4	55.4	49.8
55°	55.8	55.8	55.4	55.8	56.2	57.0	57.0	55.4	51.4	47.8	43.0
57.5°	45.8	45.8	45.8	45.8	45.8	46.2	46.2	45.8	43.8	40.2	35.7
60°	37.8	37.4	37.4	37.8	37.4	37.4	37.8	37.8	35.7	32.9	28.9
62.5°	30.5	30.5	30.5	30.1	30.1	30.5	30.5	30.1	28.5	25.7	22.9
65°	24.1	24.1	24.1	24.1	24.1	24.5	24.1	23.7	22.1	20.1	18.1
67.5°	18.5	18.5	18.9	18.5	18.9	18.9	18.9	18.1	16.9	15.3	14.1
70°	13.7	13.7	13.7	14.1	14.5	14.5	14.1	13.3	12.5	11.6	10.4
72.5°	9.2	9.6	9.6	9.6	10.0	10.0	9.6	9.2	8.8	8.0	7.6
75°	6.0	5.6	6.0	6.0	6.4	6.4	6.0	6.0	5.6	5.2	4.8
77.5°	2.8	2.8	3.2	3.2	3.2	3.2	3.2	3.2	3.2	2.8	2.8
80°	0.8	0.8	0.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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°	85.2	85.2	85.2	85.2	85.2	85.2	85.2	85.2
2.5°	92.4	91.2	89.6	85.2	81.1	77.5	75.5	75.1
5°	98.8	97.2	93.2	83.9	76.3	70.3	66.7	65.9
7.5°	105.6	102.4	96.8	82.3	71.5	63.9	59.8	58.6
10°	110.9	106.8	99.2	80.3	66.7	58.6	53.8	52.2
12.5°	114.5	109.7	101.2	77.9	62.7	53.0	48.2	46.6
15°	116.5	111.3	101.6	74.3	57.8	48.6	43.4	42.2
17.5°	117.3	111.3	100.8	71.5	53.4	44.2	39.4	37.8
20°	116.9	109.7	98.8	67.5	49.4	40.2	35.3	34.1
22.5°	115.3	107.2	95.6	63.5	45.4	36.2	32.1	31.3
25°	112.9	104.0	92.0	59.8	41.8	33.3	29.3	28.5
27.5°	108.9	100.0	87.2	55.8	38.6	30.5	26.9	25.7
30°	103.6	95.2	82.3	51.8	35.3	27.7	24.5	23.7
32.5°	98.0	89.6	77.5	47.8	32.5	25.7	22.5	21.7
35°	91.6	83.5	71.5	43.8	29.7	23.7	20.5	20.1
37.5°	85.2	77.1	66.3	40.6	27.3	21.7	18.9	18.5
40°	77.9	71.5	63.5	37.0	25.3	20.1	17.7	16.9
42.5°	73.5	64.7	54.6	33.7	23.3	18.5	16.1	15.7
45°	63.9	57.4	49.4	30.5	21.3	16.9	14.9	14.5
47.5°	57.4	51.8	44.2	27.3	19.7	15.7	13.7	13.3
50°	51.0	45.8	38.6	24.1	18.1	14.5	12.5	12.1
52.5°	44.6	39.4	32.9	21.3	16.1	13.3	11.2	10.8
55°	38.2	33.3	27.3	18.5	14.5	12.1	10.4	9.6
57.5°	31.3	27.3	23.3	16.5	12.9	10.8	9.2	8.4
60°	25.3	22.9	19.7	14.5	11.2	9.6	8.0	7.6
62.5°	20.5	18.5	16.5	12.5	10.0	8.4	7.2	6.0
65°	16.5	15.3	13.7	10.0	8.4	7.2	6.0	4.8
67.5°	12.9	12.1	10.8	8.4	6.8	6.0	4.4	3.6
70°	10.0	9.2	8.4	6.0	5.2	4.4	3.2	2.4
72.5°	7.2	6.4	6.0	4.4	3.6	3.2	2.0	1.2
75°	4.4	4.4	3.6	2.4	2.0	1.6	0.8	0.4
77.5°	2.4	2.4	2.0	1.2	1.2	0.4	0.0	0.0
80°	1.2	0.8	0.8	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)