

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: P1327255

Luminaire Tested: LDSQA3D09R70W2N902750DE010 3LSQCLSWWR 1MMS_4000K

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1327255
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: LDSQA3D09R70W2N902750DE010 3LSQCLSWWR 1MMS_4000K
Description: 3in Adjustable Tunable White LED luminaire with, R70 optic, 4000K CCT AND, 90CRI ,
3LSQCLSWWR 1MMS TRIM
Light Source: -
Ballast/Driver: -

Summary

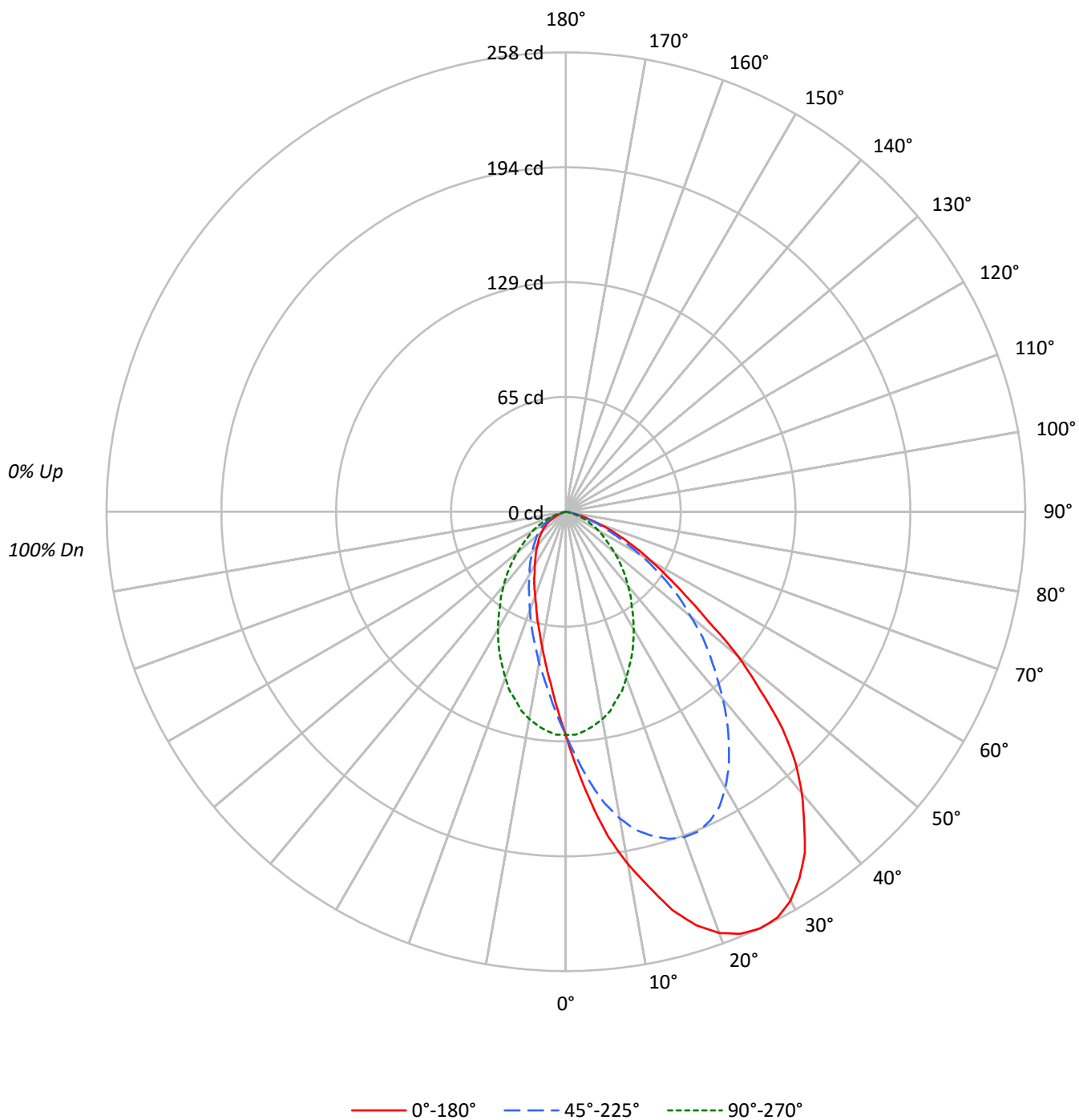
Lumens per Lamp: N/A
Luminaire Lumens: 281.0 lumens
Efficiency: N/A
Efficacy: 31.2 lumens/watt
Spacing Criteria (0/90/45): 1.52 / 0.97 / 1.29
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 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				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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	102	102	102	100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89	89	89	89
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77	77	77	77
3	95	86	79	73	93	84	78	73	82	76	72	79	74	70	76	73	69	67	67	67	67
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61	59	59	59	59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52	52	52	52
6	75	63	55	50	74	63	55	49	61	54	49	59	53	49	58	52	48	46	46	46	46
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42	42	42	42
8	66	53	45	40	64	53	45	40	51	45	40	50	44	39	49	43	39	38	38	38	38
9	62	49	41	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34	34	34	34
10	58	45	38	33	57	45	38	33	44	37	33	43	37	33	42	37	33	31	31	31	31

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	21579	21579	21579	21579	21579
5°	28404	26261	21351	17876	16752
10°	35133	30586	20671	15092	13431
15°	41294	33609	19488	12748	11054
20°	46130	35629	18199	10832	9200
25°	49065	36390	16722	9311	7981
30°	50174	35617	15154	8114	6940
35°	49197	33555	13540	7338	6202
40°	46358	30823	12230	6632	5576
45°	41892	27912	10936	6040	5188
50°	33893	24542	9512	5707	4742
55°	24651	21108	8167	5315	4264
60°	19117	16706	7337	4891	3858
65°	14467	12022	6031	4320	2893
70°	10121	8611	4482	3273	1762
75°	5922	5124	2329	1597	399
80°	1190	1785	595	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 41892 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.2	4.4
10°-20°	36.5	13.0
20°-30°	55.0	19.6
30°-40°	61.2	21.8
40°-50°	54.2	19.3
50°-60°	36.8	13.1
60°-70°	19.3	6.9
70°-80°	5.5	2.0
80°-90°	0.2	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°	103.8	36.9
0°-40°	165.0	58.7
0°-60°	256.1	91.1
0°-90°	281.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	281.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	125	125	125	125	125	
5°	164	152	124	103	97	17
15°	232	188	109	72	62	66
25°	258	192	88	49	42	118
35°	234	160	64	35	30	145
45°	172	115	45	25	21	130
55°	82	70	27	18	14	76
65°	36	30	15	11	7	36
75°	9	8	4	2	1	10
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°	125.3	125.3	125.3	125.3	125.3	125.3	125.3	125.3	125.3	125.3	125.3
2.5°	144.2	143.6	143.0	143.0	142.4	141.8	140.6	140.6	139.5	138.3	137.1
5°	164.3	164.3	164.3	162.5	162.5	160.1	159.0	156.6	154.2	151.9	148.9
7.5°	184.4	184.4	182.6	182.0	180.2	177.9	176.1	172.6	168.4	164.9	160.1
10°	200.9	200.9	199.1	198.0	194.4	192.1	188.5	184.4	180.2	174.9	169.0
12.5°	215.7	216.3	213.9	211.6	208.0	204.5	199.7	194.4	189.1	183.2	175.5
15°	231.6	231.1	228.1	225.1	221.0	215.7	209.8	202.7	195.6	188.5	180.2
17.5°	243.5	242.9	239.9	236.4	231.1	224.6	218.1	209.8	201.5	192.6	182.6
20°	251.7	251.1	248.2	243.5	238.1	231.1	223.4	213.9	205.1	194.4	183.2
22.5°	256.5	255.9	252.3	248.2	241.7	234.0	225.7	215.7	205.6	194.4	182.0
25°	258.2	257.1	253.5	248.8	242.3	234.0	224.6	213.9	203.3	191.5	178.5
27.5°	257.1	255.9	251.7	246.4	239.3	229.9	220.4	209.8	198.6	186.7	173.1
30°	252.3	250.6	247.0	241.7	234.0	224.6	214.5	203.3	191.5	179.1	165.5
32.5°	244.1	242.9	239.3	233.4	225.7	216.3	206.2	194.4	182.6	170.2	156.6
35°	234.0	231.6	228.1	222.8	215.1	205.6	195.6	183.2	172.0	159.6	146.6
37.5°	219.8	219.2	215.1	211.0	203.3	193.2	183.8	172.0	160.7	148.9	135.9
40°	206.2	205.1	201.5	196.8	189.1	180.2	170.2	159.6	148.3	137.1	125.3
42.5°	190.9	189.1	186.7	182.0	174.9	166.1	156.6	146.0	135.9	125.3	114.6
45°	172.0	171.4	168.4	166.1	159.6	151.9	142.4	133.0	122.9	114.6	106.4
47.5°	147.7	147.1	146.6	144.8	141.2	135.9	128.8	120.0	112.3	104.0	92.8
50°	126.5	125.9	124.7	124.1	121.1	118.2	112.9	107.6	101.1	91.6	82.7
52.5°	100.5	101.1	102.8	103.4	102.8	100.5	98.1	96.3	87.5	81.5	73.3
55°	82.1	82.1	81.5	82.1	82.7	83.9	83.9	81.5	75.6	70.3	63.2
57.5°	67.4	67.4	67.4	67.4	67.4	68.0	68.0	67.4	64.4	59.1	52.6
60°	55.5	55.0	55.0	55.5	55.0	55.0	55.5	55.5	52.6	48.5	42.5
62.5°	44.9	44.9	44.9	44.3	44.3	44.9	44.9	44.3	42.0	37.8	33.7
65°	35.5	35.5	35.5	35.5	35.5	36.0	35.5	34.9	32.5	29.5	26.6
67.5°	27.2	27.2	27.8	27.2	27.8	27.8	27.8	26.6	24.8	22.5	20.7
70°	20.1	20.1	20.1	20.7	21.3	21.3	20.7	19.5	18.3	17.1	15.4
72.5°	13.6	14.2	14.2	14.2	14.8	14.8	14.2	13.6	13.0	11.8	11.2
75°	8.9	8.3	8.9	8.9	9.5	9.5	8.9	8.9	8.3	7.7	7.1
77.5°	4.1	4.1	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.1	4.1
80°	1.2	1.2	1.2	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
82.5°	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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°	125.3	125.3	125.3	125.3	125.3	125.3	125.3	125.3
2.5°	135.9	134.1	131.8	125.3	119.4	114.1	111.1	110.5
5°	145.4	143.0	137.1	123.5	112.3	103.4	98.1	96.9
7.5°	155.4	150.7	142.4	121.1	105.2	94.0	88.0	86.3
10°	163.1	157.2	146.0	118.2	98.1	86.3	79.2	76.8
12.5°	168.4	161.3	148.9	114.6	92.2	78.0	70.9	68.5
15°	171.4	163.7	149.5	109.3	85.1	71.5	63.8	62.0
17.5°	172.6	163.7	148.3	105.2	78.6	65.0	57.9	55.5
20°	172.0	161.3	145.4	99.3	72.7	59.1	52.0	50.2
22.5°	169.6	157.8	140.6	93.4	66.8	53.2	47.3	46.1
25°	166.1	153.1	135.3	88.0	61.5	49.0	43.1	42.0
27.5°	160.1	147.1	128.2	82.1	56.7	44.9	39.6	37.8
30°	152.5	140.1	121.1	76.2	52.0	40.8	36.0	34.9
32.5°	144.2	131.8	114.1	70.3	47.9	37.8	33.1	31.9
35°	134.7	122.9	105.2	64.4	43.7	34.9	30.1	29.5
37.5°	125.3	113.5	97.5	59.7	40.2	31.9	27.8	27.2
40°	114.6	105.2	93.4	54.4	37.2	29.5	26.0	24.8
42.5°	108.1	95.1	80.4	49.6	34.3	27.2	23.6	23.0
45°	94.0	84.5	72.7	44.9	31.3	24.8	21.9	21.3
47.5°	84.5	76.2	65.0	40.2	29.0	23.0	20.1	19.5
50°	75.0	67.4	56.7	35.5	26.6	21.3	18.3	17.7
52.5°	65.6	57.9	48.5	31.3	23.6	19.5	16.5	16.0
55°	56.1	49.0	40.2	27.2	21.3	17.7	15.4	14.2
57.5°	46.1	40.2	34.3	24.2	18.9	16.0	13.6	12.4
60°	37.2	33.7	29.0	21.3	16.5	14.2	11.8	11.2
62.5°	30.1	27.2	24.2	18.3	14.8	12.4	10.6	8.9
65°	24.2	22.5	20.1	14.8	12.4	10.6	8.9	7.1
67.5°	18.9	17.7	16.0	12.4	10.0	8.9	6.5	5.3
70°	14.8	13.6	12.4	8.9	7.7	6.5	4.7	3.5
72.5°	10.6	9.5	8.9	6.5	5.3	4.7	3.0	1.8
75°	6.5	6.5	5.3	3.5	3.0	2.4	1.2	0.6
77.5°	3.5	3.5	3.0	1.8	1.8	0.6	0.0	0.0
80°	1.8	1.2	1.2	0.6	0.6	0.0	0.0	0.0
82.5°	0.6	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)