

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: P1312480

Luminaire Tested: LDSQA3D09R709050DE010 3LSQCLSWWR 1MW

Issue Date: 1/29/2026

**Test Information**

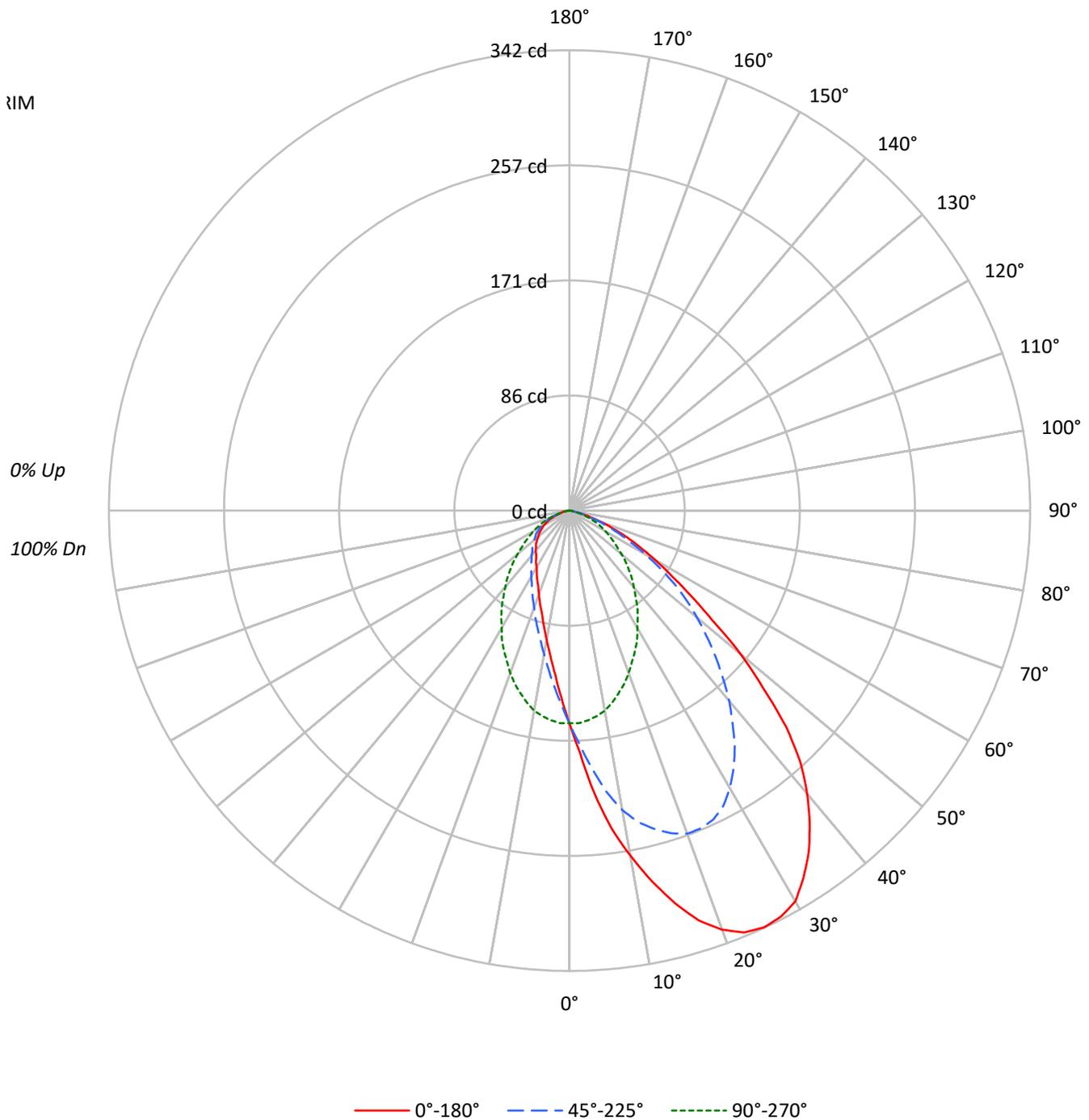
Test Method: LM-79-2019  
Report Number: P1312480  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-71)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R709050DE010 3LSQCLSWWR 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 5000K CCT AND, 90CRI , 3LSQCLSWWR 1MW TF  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 386.0 lumens  
Efficiency: N/A  
Efficacy: 34.8 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): 11.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	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	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	90	90	90	88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	78	78	78	76
3	94	85	78	72	92	83	77	72	81	75	70	78	73	69	75	71	68	68	68	68	66
4	87	76	68	62	85	75	68	62	73	66	61	70	65	60	68	64	60	60	60	60	58
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	53	53	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	38	38	38	36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	35	35	35	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	32	32	32	30

**AVERAGE LUMINANCE (cd/sqm):**

	0°	45°	90°	135°	180°
0°	27211	27211	27211	27211	27211
5°	36426	33262	27039	22630	21109
10°	45504	39505	26389	18992	17033
15°	53793	43683	25051	16225	14086
20°	60701	46809	23551	14039	12133
25°	64913	48077	21834	12447	10775
30°	66660	47310	20006	11276	9685
35°	65113	44971	18460	10407	9062
40°	61736	41457	16682	9870	8790
45°	55410	37338	15174	9523	8549
50°	44477	33143	13477	9190	8118
55°	32849	28525	11980	9098	7897
60°	25282	22286	10712	8783	7681
65°	19194	16586	9414	8150	6846
70°	12840	11632	7251	7251	5640
75°	6920	6920	4791	4791	4259
80°	1587	3174	2380	3174	3967
85°	0	1581	1581	3162	3162

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 55410 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.6	4.0
10°-20°	47.4	12.3
20°-30°	73.0	18.9
30°-40°	82.9	21.5
40°-50°	75.0	19.4
50°-60°	52.4	13.6
60°-70°	28.8	7.5
70°-80°	9.7	2.5
80°-90°	1.3	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°	136.0	35.2
0°-40°	218.9	56.7
0°-60°	346.3	89.7
0°-90°	386.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	386.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	158	158	158	158	158	
5°	211	192	156	131	122	22
15°	302	245	140	91	79	86
25°	342	253	115	66	57	157
35°	310	214	88	50	43	193
45°	228	153	62	39	35	172
55°	109	95	40	30	26	101
65°	47	41	23	20	17	47
75°	10	10	7	7	6	12
85°	0	1	1	2	2	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°	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0
2.5°	180.4	182.0	182.8	181.2	180.4	179.6	178.0	177.2	175.6	174.0	173.2
5°	210.7	210.7	210.7	209.1	206.7	205.1	201.9	199.5	195.6	192.4	189.2
7.5°	237.9	237.9	237.1	234.7	233.1	229.1	225.1	221.9	215.5	210.7	204.3
10°	260.2	260.2	259.4	255.4	253.0	248.2	244.2	238.7	232.3	225.9	218.7
12.5°	281.8	281.8	278.6	275.4	270.6	264.2	258.6	253.0	244.2	237.1	228.3
15°	301.7	301.7	300.1	294.5	288.1	281.0	273.0	265.0	254.6	245.0	235.5
17.5°	319.3	318.5	316.1	309.7	303.3	294.5	284.9	275.4	262.6	251.4	239.5
20°	331.2	331.2	328.1	320.9	313.7	304.1	293.7	282.6	269.0	255.4	241.0
22.5°	339.2	338.4	335.2	328.1	319.3	309.7	297.7	285.7	270.6	255.4	240.3
25°	341.6	340.8	337.6	329.6	320.9	310.5	297.7	284.9	269.0	253.0	236.3
27.5°	340.0	339.2	336.0	327.3	318.5	306.5	293.7	280.2	264.2	247.4	230.7
30°	335.2	332.8	329.6	321.7	312.1	300.1	286.5	271.4	255.4	237.9	221.1
32.5°	323.3	323.3	319.3	311.3	301.7	288.9	275.4	261.0	243.4	226.7	209.1
35°	309.7	308.9	305.7	296.9	288.1	276.2	262.6	247.4	230.7	213.9	197.1
37.5°	292.9	292.1	288.9	281.0	271.4	260.2	245.8	231.5	215.5	198.7	183.6
40°	274.6	273.0	269.0	262.6	254.6	241.8	229.1	214.7	199.5	184.4	169.2
42.5°	253.8	252.2	249.0	244.2	234.7	223.5	211.5	197.9	183.6	168.4	157.2
45°	227.5	227.5	225.9	221.1	213.9	205.1	192.4	180.4	166.8	153.3	141.3
47.5°	194.8	196.4	195.6	193.2	190.0	182.0	173.2	162.8	150.1	138.1	126.9
50°	166.0	166.8	167.6	166.0	163.6	158.0	152.5	146.1	134.9	123.7	113.3
52.5°	133.3	135.7	135.7	136.5	136.5	134.9	133.3	126.1	120.5	109.4	99.8
55°	109.4	109.4	109.4	110.9	111.7	112.5	110.9	109.4	103.0	95.0	86.2
57.5°	89.4	89.4	91.0	90.2	90.2	91.8	91.8	91.0	87.0	79.8	71.8
60°	73.4	73.4	73.4	73.4	74.2	74.2	74.2	74.2	71.0	64.7	58.3
62.5°	59.1	59.1	59.1	59.9	59.9	59.9	60.7	59.9	56.7	51.9	46.3
65°	47.1	46.3	47.1	47.1	47.9	47.9	47.9	47.1	43.9	40.7	36.7
67.5°	35.1	35.9	35.9	35.9	36.7	37.5	36.7	35.9	33.5	30.3	28.7
70°	25.5	26.3	26.3	26.3	27.1	27.9	27.1	26.3	24.7	23.1	21.6
72.5°	16.8	17.6	17.6	18.4	19.2	19.2	18.4	18.4	17.6	16.0	15.2
75°	10.4	10.4	11.2	11.2	12.0	12.0	12.0	11.2	11.2	10.4	10.4
77.5°	4.8	4.8	5.6	5.6	5.6	6.4	6.4	6.4	6.4	6.4	5.6
80°	1.6	1.6	1.6	1.6	1.6	2.4	2.4	2.4	3.2	3.2	3.2
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
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°	158.0	158.0	158.0	158.0	158.0	158.0	158.0	158.0
2.5°	171.6	169.2	166.0	158.0	150.1	143.7	139.7	138.9
5°	185.2	181.2	174.0	156.4	142.1	130.9	124.5	122.1
7.5°	198.7	191.6	181.2	154.0	132.5	118.9	111.7	108.6
10°	209.9	201.1	187.6	150.9	124.5	108.6	99.8	97.4
12.5°	218.7	208.3	191.6	146.1	116.5	99.0	90.2	87.8
15°	224.3	213.1	194.0	140.5	108.6	91.0	82.2	79.0
17.5°	226.7	213.1	193.2	134.9	101.4	83.8	75.0	72.6
20°	226.7	211.5	190.8	128.5	94.2	76.6	68.6	66.2
22.5°	224.3	208.3	185.2	121.3	87.8	71.0	63.1	60.7
25°	219.5	201.9	178.8	114.9	81.4	65.5	58.3	56.7
27.5°	212.3	194.8	170.8	108.6	75.8	60.7	54.3	52.7
30°	203.5	186.0	162.0	100.6	70.2	56.7	51.1	48.7
32.5°	192.4	175.6	152.5	94.2	65.5	52.7	47.9	46.3
35°	180.4	165.2	142.1	87.8	60.7	49.5	44.7	43.1
37.5°	168.4	152.5	133.3	80.6	56.7	46.3	42.3	40.7
40°	155.6	143.7	123.7	74.2	53.5	43.9	39.9	39.1
42.5°	142.9	130.1	110.1	68.6	49.5	40.7	37.5	36.7
45°	127.7	115.7	99.8	62.3	46.3	39.1	35.9	35.1
47.5°	114.9	103.8	89.4	56.7	43.1	36.7	33.5	32.7
50°	103.0	91.8	78.2	50.3	39.9	34.3	31.9	30.3
52.5°	89.4	79.8	67.8	44.7	36.7	31.9	29.5	28.7
55°	77.4	67.8	56.7	39.9	33.5	30.3	27.1	26.3
57.5°	63.9	55.9	47.9	35.1	30.3	27.1	25.5	23.9
60°	51.9	46.3	40.7	31.1	27.1	25.5	23.1	22.3
62.5°	42.3	38.3	34.3	27.1	23.9	22.3	20.8	19.2
65°	33.5	31.1	27.9	23.1	20.8	20.0	18.4	16.8
67.5°	26.3	24.7	22.3	18.4	17.6	16.8	15.2	13.6
70°	20.0	19.2	17.6	14.4	13.6	14.4	12.8	11.2
72.5°	14.4	13.6	12.8	10.4	10.4	10.4	9.6	8.0
75°	9.6	8.8	8.0	7.2	7.2	7.2	7.2	6.4
77.5°	5.6	5.6	4.8	4.0	4.8	4.8	5.6	5.6
80°	2.4	2.4	2.4	2.4	3.2	3.2	4.0	4.0
82.5°	1.6	1.6	1.6	1.6	2.4	2.4	2.4	2.4
85°	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)