

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: P1308217

Luminaire Tested: LDSQA3D13R709027DE010 3LSQCLSWWR 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1308217  
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: LDSQA3D13R709027DE010 3LSQCLSWWR 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 90CRI , 3LSQCLSWWR 1MW TF  
Light Source: -  
Ballast/Driver: -

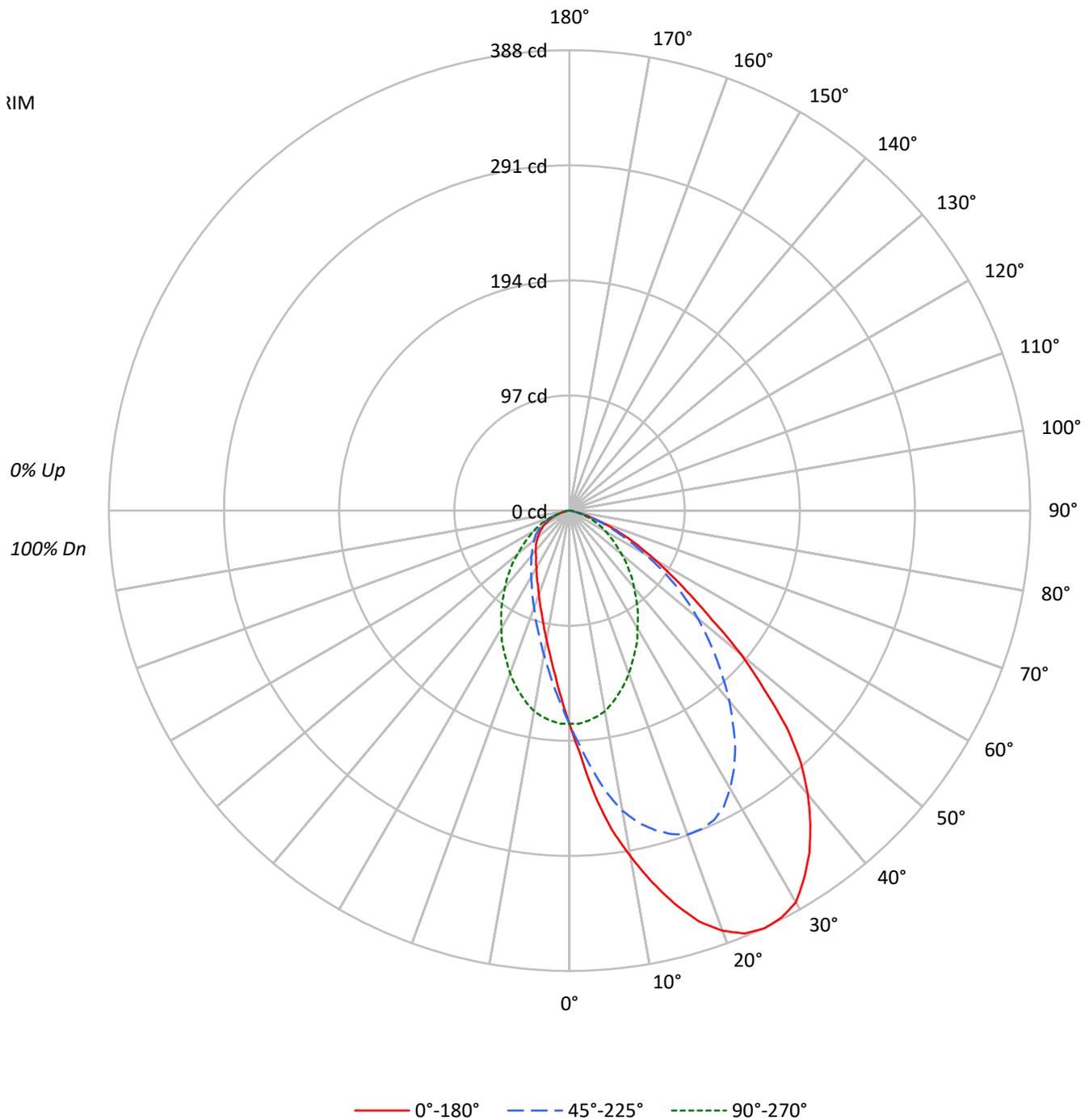
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 439.0 lumens  
Efficiency: N/A  
Efficacy: 30.1 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): 14.6  
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	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88	88	88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76	76	76
3	94	85	78	72	92	83	77	72	81	75	70	78	73	69	75	71	68	66	66	66
4	87	76	68	62	85	75	68	62	73	66	61	70	65	60	68	64	60	58	58	58
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	51	51	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45	45	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40	40	40
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36	36	36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33	33	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30	30	30

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

	0°	45°	90°	135°	180°
0°	30948	30948	30948	30948	30948
5°	41439	37826	30755	25742	24013
10°	51747	44927	30009	21598	19359
15°	61174	49692	28492	18454	16029
20°	69040	53242	26795	15963	13801
25°	73825	54690	24836	14138	12257
30°	75827	53793	22750	12827	11017
35°	74048	51153	21003	11837	10302
40°	70212	47145	18975	11219	10005
45°	63009	42452	17244	10838	9718
50°	50585	37698	15326	10449	9244
55°	37352	32428	13632	10359	9008
60°	28761	25317	12193	9989	8749
65°	21843	18868	10718	9251	7784
70°	14603	13243	8208	8208	6395
75°	7852	7852	5456	5456	4858
80°	1785	3570	2678	3570	4463
85°	0	1778	1778	3557	3557

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 63009 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17.7	4.0
10°-20°	53.9	12.3
20°-30°	83.0	18.9
30°-40°	94.2	21.5
40°-50°	85.3	19.4
50°-60°	59.6	13.6
60°-70°	32.8	7.5
70°-80°	11.0	2.5
80°-90°	1.4	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°	154.7	35.2
0°-40°	248.9	56.7
0°-60°	393.8	89.7
0°-90°	439.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	439.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	180	180	180	180	180	
5°	240	219	178	149	139	25
15°	343	279	160	104	90	98
25°	388	288	131	74	64	178
35°	352	243	100	56	49	219
45°	259	174	71	44	40	196
55°	124	108	45	34	30	114
65°	54	46	26	23	19	53
75°	12	12	8	8	7	14
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°	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7
2.5°	205.2	207.0	207.9	206.1	205.2	204.2	202.4	201.5	199.7	197.9	197.0
5°	239.7	239.7	239.7	237.8	235.1	233.3	229.7	226.9	222.4	218.8	215.1
7.5°	270.5	270.5	269.6	266.9	265.1	260.5	256.0	252.4	245.1	239.7	232.4
10°	295.9	295.9	295.0	290.5	287.8	282.3	277.8	271.4	264.2	256.9	248.7
12.5°	320.4	320.4	316.8	313.2	307.7	300.5	294.1	287.8	277.8	269.6	259.6
15°	343.1	343.1	341.3	335.0	327.7	319.5	310.5	301.4	289.6	278.7	267.8
17.5°	363.1	362.2	359.5	352.2	345.0	335.0	324.1	313.2	298.7	285.9	272.3
20°	376.7	376.7	373.1	364.9	356.8	345.9	334.1	321.4	305.9	290.5	274.1
22.5°	385.8	384.9	381.3	373.1	363.1	352.2	338.6	325.0	307.7	290.5	273.2
25°	388.5	387.6	384.0	374.9	364.9	353.1	338.6	324.1	305.9	287.8	268.7
27.5°	386.7	385.8	382.2	372.2	362.2	348.6	334.1	318.6	300.5	281.4	262.3
30°	381.3	378.5	374.9	365.8	354.9	341.3	325.9	308.6	290.5	270.5	251.5
32.5°	367.6	367.6	363.1	354.0	343.1	328.6	313.2	296.8	276.9	257.8	237.8
35°	352.2	351.3	347.7	337.7	327.7	314.1	298.7	281.4	262.3	243.3	224.2
37.5°	333.2	332.2	328.6	319.5	308.6	295.9	279.6	263.3	245.1	226.0	208.8
40°	312.3	310.5	305.9	298.7	289.6	275.1	260.5	244.2	226.9	209.7	192.4
42.5°	288.7	286.9	283.2	277.8	266.9	254.2	240.6	225.1	208.8	191.5	178.8
45°	258.7	258.7	256.9	251.5	243.3	233.3	218.8	205.2	189.7	174.3	160.7
47.5°	221.5	223.3	222.4	219.7	216.0	207.0	197.0	185.2	170.7	157.0	144.3
50°	188.8	189.7	190.6	188.8	186.1	179.7	173.4	166.1	153.4	140.7	128.9
52.5°	151.6	154.3	154.3	155.2	155.2	153.4	151.6	143.4	137.1	124.4	113.5
55°	124.4	124.4	124.4	126.2	127.1	128.0	126.2	124.4	117.1	108.0	98.0
57.5°	101.7	101.7	103.5	102.6	102.6	104.4	104.4	103.5	98.9	90.8	81.7
60°	83.5	83.5	83.5	83.5	84.4	84.4	84.4	84.4	80.8	73.5	66.3
62.5°	67.2	67.2	67.2	68.1	68.1	68.1	69.0	68.1	64.5	59.0	52.7
65°	53.6	52.7	53.6	53.6	54.5	54.5	54.5	53.6	49.9	46.3	41.8
67.5°	39.9	40.8	40.8	40.8	41.8	42.7	41.8	40.8	38.1	34.5	32.7
70°	29.0	30.0	30.0	30.0	30.9	31.8	30.9	30.0	28.1	26.3	24.5
72.5°	19.1	20.0	20.0	20.9	21.8	21.8	20.9	20.9	20.0	18.2	17.2
75°	11.8	11.8	12.7	12.7	13.6	13.6	13.6	12.7	12.7	11.8	11.8
77.5°	5.4	5.4	6.4	6.4	6.4	7.3	7.3	7.3	7.3	7.3	6.4
80°	1.8	1.8	1.8	1.8	1.8	2.7	2.7	2.7	3.6	3.6	3.6
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9
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°	179.7	179.7	179.7	179.7	179.7	179.7	179.7	179.7
2.5°	195.2	192.4	188.8	179.7	170.7	163.4	158.9	158.0
5°	210.6	206.1	197.9	177.9	161.6	148.9	141.6	138.9
7.5°	226.0	217.9	206.1	175.2	150.7	135.3	127.1	123.5
10°	238.7	228.8	213.3	171.6	141.6	123.5	113.5	110.7
12.5°	248.7	236.9	217.9	166.1	132.5	112.6	102.6	99.9
15°	255.1	242.4	220.6	159.8	123.5	103.5	93.5	89.9
17.5°	257.8	242.4	219.7	153.4	115.3	95.3	85.3	82.6
20°	257.8	240.6	217.0	146.2	107.1	87.1	78.1	75.3
22.5°	255.1	236.9	210.6	138.0	99.9	80.8	71.7	69.0
25°	249.6	229.7	203.3	130.7	92.6	74.4	66.3	64.5
27.5°	241.5	221.5	194.3	123.5	86.2	69.0	61.7	59.9
30°	231.5	211.5	184.3	114.4	79.9	64.5	58.1	55.4
32.5°	218.8	199.7	173.4	107.1	74.4	59.9	54.5	52.7
35°	205.2	187.9	161.6	99.9	69.0	56.3	50.8	49.0
37.5°	191.5	173.4	151.6	91.7	64.5	52.7	48.1	46.3
40°	177.0	163.4	140.7	84.4	60.8	49.9	45.4	44.5
42.5°	162.5	148.0	125.3	78.1	56.3	46.3	42.7	41.8
45°	145.2	131.6	113.5	70.8	52.7	44.5	40.8	39.9
47.5°	130.7	118.0	101.7	64.5	49.0	41.8	38.1	37.2
50°	117.1	104.4	89.0	57.2	45.4	39.0	36.3	34.5
52.5°	101.7	90.8	77.2	50.8	41.8	36.3	33.6	32.7
55°	88.1	77.2	64.5	45.4	38.1	34.5	30.9	30.0
57.5°	72.6	63.5	54.5	39.9	34.5	30.9	29.0	27.2
60°	59.0	52.7	46.3	35.4	30.9	29.0	26.3	25.4
62.5°	48.1	43.6	39.0	30.9	27.2	25.4	23.6	21.8
65°	38.1	35.4	31.8	26.3	23.6	22.7	20.9	19.1
67.5°	30.0	28.1	25.4	20.9	20.0	19.1	17.2	15.4
70°	22.7	21.8	20.0	16.3	15.4	16.3	14.5	12.7
72.5°	16.3	15.4	14.5	11.8	11.8	11.8	10.9	9.1
75°	10.9	10.0	9.1	8.2	8.2	8.2	8.2	7.3
77.5°	6.4	6.4	5.4	4.5	5.4	5.4	6.4	6.4
80°	2.7	2.7	2.7	2.7	3.6	3.6	4.5	4.5
82.5°	1.8	1.8	1.8	1.8	2.7	2.7	2.7	2.7
85°	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)