

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: P1316514

Luminaire Tested: LDSQA3D09R709740DE010 3LSQCLSWWR 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1316514  
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: LDSQA3D09R709740DE010 3LSQCLSWWR 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 97CRI , 3LSQCLSWWR 1MW TF  
Light Source: -  
Ballast/Driver: -

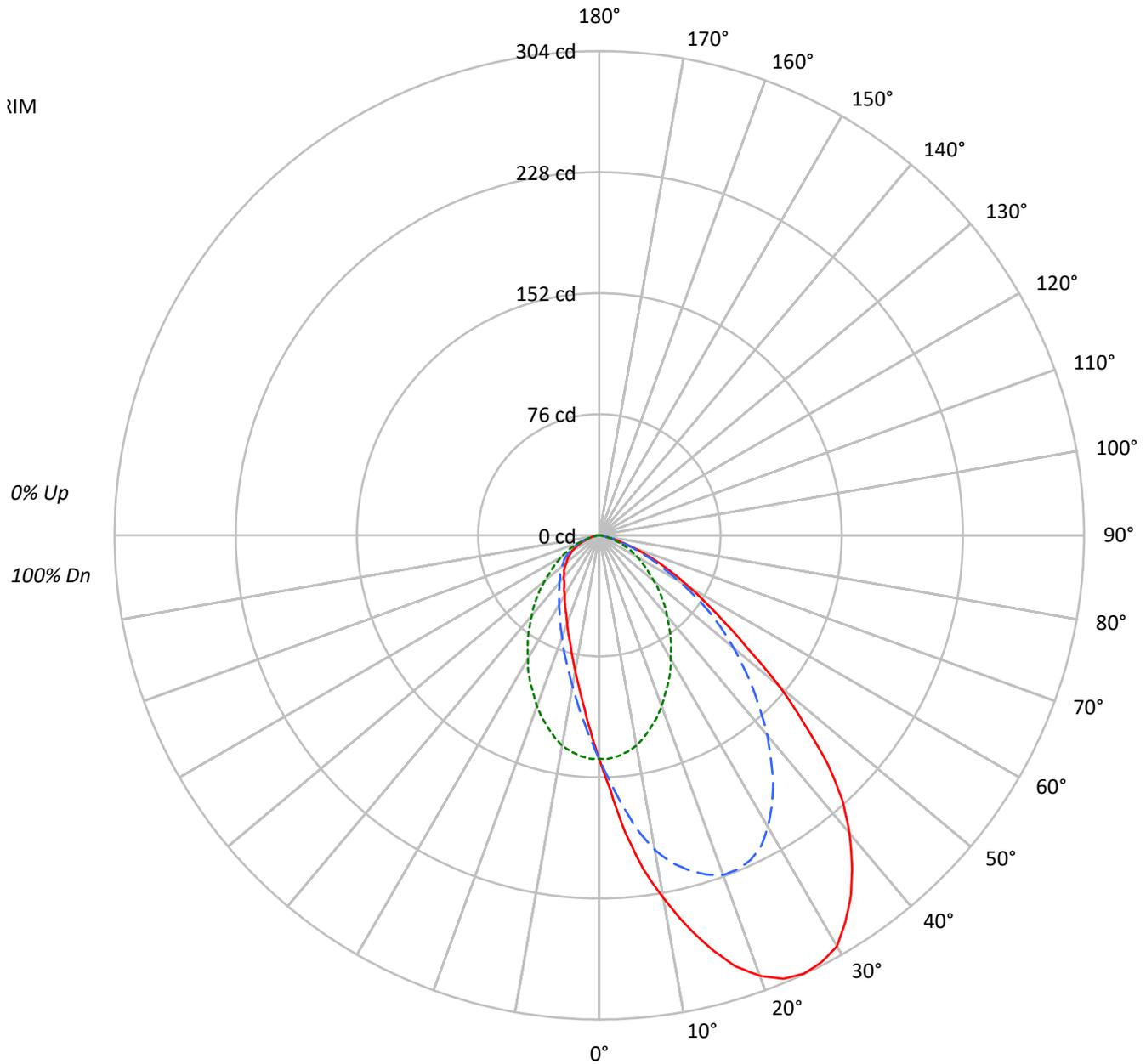
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 343.0 lumens  
Efficiency: N/A  
Efficacy: 30.9 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



— 0°-180°    - - 45°-225°    - - - 90°-270°



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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	93	91	90	88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	84	81	78	76
3	94	85	78	72	92	83	77	72	81	75	70	78	73	69	75	71	68	75	71	68	66
4	87	76	68	62	85	75	68	62	73	66	61	70	65	60	68	64	60	68	64	60	58
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	62	57	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	57	51	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	52	46	42	40
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	48	42	38	36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	44	39	35	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	41	36	32	30

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

	0°	45°	90°	135°	180°
0°	24180	24180	24180	24180	24180
5°	32363	29545	24030	20106	18758
10°	40432	35098	23451	16876	15127
15°	47802	38815	22252	14424	12517
20°	53938	41604	20930	12481	10795
25°	57692	42718	19402	11060	9577
30°	59242	42040	17779	10023	8611
35°	57859	39968	16399	9251	8052
40°	54856	36826	14838	8768	7824
45°	49223	33173	13469	8476	7599
50°	39520	29446	11977	8172	7234
55°	29185	25342	10659	8107	7026
60°	22492	19806	9541	7819	6854
65°	17034	14752	8395	7213	6072
70°	11430	10373	6445	6445	4985
75°	6122	6122	4259	4259	3793
80°	1389	2777	2083	2777	3471
85°	0	1383	1383	2766	2766

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 49223 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13.9	4.0
10°-20°	42.1	12.3
20°-30°	64.9	18.9
30°-40°	73.6	21.5
40°-50°	66.6	19.4
50°-60°	46.6	13.6
60°-70°	25.6	7.5
70°-80°	8.6	2.5
80°-90°	1.1	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
<b>0°-30°</b>	<b>120.8</b>	<b>35.2</b>
<b>0°-40°</b>	<b>194.5</b>	<b>56.7</b>
<b>0°-60°</b>	<b>307.7</b>	<b>89.7</b>
<b>0°-90°</b>	<b>343.0</b>	<b>100.0</b>
90°-120°	0.0	0.0
90°-150°	0.0	0.0
<b>90°-180°</b>	<b>0.0</b>	<b>0.0</b>
<b>0°-180°</b>	<b>343.0</b>	<b>100.0</b>

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	140	140	140	140	140	
5°	187	171	139	116	108	19
15°	268	218	125	81	70	76
25°	304	225	102	58	50	139
35°	275	190	78	44	38	171
45°	202	136	55	35	31	153
55°	97	84	36	27	23	89
65°	42	36	21	18	15	42
75°	9	9	6	6	6	11
85°	0	1	1	1	1	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°	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4
2.5°	160.3	161.7	162.4	161.0	160.3	159.6	158.2	157.5	156.0	154.6	153.9
5°	187.2	187.2	187.2	185.8	183.7	182.3	179.4	177.3	173.8	170.9	168.1
7.5°	211.4	211.4	210.7	208.5	207.1	203.6	200.0	197.2	191.5	187.2	181.6
10°	231.2	231.2	230.5	227.0	224.8	220.6	217.0	212.1	206.4	200.7	194.3
12.5°	250.4	250.4	247.5	244.7	240.4	234.8	229.8	224.8	217.0	210.7	202.8
15°	268.1	268.1	266.7	261.7	256.0	249.7	242.6	235.5	226.3	217.7	209.2
17.5°	283.7	283.0	280.9	275.2	269.5	261.7	253.2	244.7	233.3	223.4	212.8
20°	294.3	294.3	291.5	285.1	278.7	270.2	261.0	251.1	239.0	227.0	214.2
22.5°	301.4	300.7	297.9	291.5	283.7	275.2	264.6	253.9	240.4	227.0	213.5
25°	303.6	302.9	300.0	292.9	285.1	275.9	264.6	253.2	239.0	224.8	209.9
27.5°	302.1	301.4	298.6	290.8	283.0	272.4	261.0	249.0	234.8	219.9	205.0
30°	297.9	295.8	292.9	285.8	277.3	266.7	254.6	241.1	227.0	211.4	196.5
32.5°	287.3	287.3	283.7	276.6	268.1	256.8	244.7	231.9	216.3	201.4	185.8
35°	275.2	274.5	271.6	263.8	256.0	245.4	233.3	219.9	205.0	190.1	175.2
37.5°	260.3	259.6	256.8	249.7	241.1	231.2	218.5	205.7	191.5	176.6	163.1
40°	244.0	242.6	239.0	233.3	226.3	214.9	203.6	190.8	177.3	163.8	150.4
42.5°	225.5	224.1	221.3	217.0	208.5	198.6	188.0	175.9	163.1	149.7	139.7
45°	202.1	202.1	200.7	196.5	190.1	182.3	170.9	160.3	148.2	136.2	125.5
47.5°	173.1	174.5	173.8	171.6	168.8	161.7	153.9	144.7	133.3	122.7	112.8
50°	147.5	148.2	148.9	147.5	145.4	140.4	135.5	129.8	119.9	109.9	100.7
52.5°	118.4	120.6	120.6	121.3	121.3	119.9	118.4	112.1	107.1	97.2	88.7
55°	97.2	97.2	97.2	98.6	99.3	100.0	98.6	97.2	91.5	84.4	76.6
57.5°	79.4	79.4	80.9	80.1	80.1	81.6	81.6	80.9	77.3	70.9	63.8
60°	65.3	65.3	65.3	65.3	66.0	66.0	66.0	66.0	63.1	57.5	51.8
62.5°	52.5	52.5	52.5	53.2	53.2	53.2	53.9	53.2	50.4	46.1	41.1
65°	41.8	41.1	41.8	41.8	42.6	42.6	42.6	41.8	39.0	36.2	32.6
67.5°	31.2	31.9	31.9	31.9	32.6	33.3	32.6	31.9	29.8	27.0	25.5
70°	22.7	23.4	23.4	23.4	24.1	24.8	24.1	23.4	22.0	20.6	19.2
72.5°	14.9	15.6	15.6	16.3	17.0	17.0	16.3	16.3	15.6	14.2	13.5
75°	9.2	9.2	9.9	9.9	10.6	10.6	10.6	9.9	9.9	9.2	9.2
77.5°	4.3	4.3	5.0	5.0	5.0	5.7	5.7	5.7	5.7	5.7	5.0
80°	1.4	1.4	1.4	1.4	1.4	2.1	2.1	2.1	2.8	2.8	2.8
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7
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°	140.4	140.4	140.4	140.4	140.4	140.4	140.4	140.4
2.5°	152.5	150.4	147.5	140.4	133.3	127.7	124.1	123.4
5°	164.5	161.0	154.6	139.0	126.2	116.3	110.6	108.5
7.5°	176.6	170.2	161.0	136.9	117.7	105.7	99.3	96.5
10°	186.5	178.7	166.7	134.1	110.6	96.5	88.7	86.5
12.5°	194.3	185.1	170.2	129.8	103.6	87.9	80.1	78.0
15°	199.3	189.4	172.4	124.8	96.5	80.9	73.1	70.2
17.5°	201.4	189.4	171.6	119.9	90.1	74.5	66.7	64.5
20°	201.4	188.0	169.5	114.2	83.7	68.1	61.0	58.9
22.5°	199.3	185.1	164.5	107.8	78.0	63.1	56.0	53.9
25°	195.0	179.4	158.9	102.1	72.3	58.2	51.8	50.4
27.5°	188.7	173.1	151.8	96.5	67.4	53.9	48.2	46.8
30°	180.9	165.3	144.0	89.4	62.4	50.4	45.4	43.3
32.5°	170.9	156.0	135.5	83.7	58.2	46.8	42.6	41.1
35°	160.3	146.8	126.2	78.0	53.9	44.0	39.7	38.3
37.5°	149.7	135.5	118.4	71.6	50.4	41.1	37.6	36.2
40°	138.3	127.7	109.9	66.0	47.5	39.0	35.5	34.8
42.5°	127.0	115.6	97.9	61.0	44.0	36.2	33.3	32.6
45°	113.5	102.8	88.7	55.3	41.1	34.8	31.9	31.2
47.5°	102.1	92.2	79.4	50.4	38.3	32.6	29.8	29.1
50°	91.5	81.6	69.5	44.7	35.5	30.5	28.4	27.0
52.5°	79.4	70.9	60.3	39.7	32.6	28.4	26.2	25.5
55°	68.8	60.3	50.4	35.5	29.8	27.0	24.1	23.4
57.5°	56.7	49.6	42.6	31.2	27.0	24.1	22.7	21.3
60°	46.1	41.1	36.2	27.7	24.1	22.7	20.6	19.9
62.5°	37.6	34.0	30.5	24.1	21.3	19.9	18.4	17.0
65°	29.8	27.7	24.8	20.6	18.4	17.7	16.3	14.9
67.5°	23.4	22.0	19.9	16.3	15.6	14.9	13.5	12.1
70°	17.7	17.0	15.6	12.8	12.1	12.8	11.3	9.9
72.5°	12.8	12.1	11.3	9.2	9.2	9.2	8.5	7.1
75°	8.5	7.8	7.1	6.4	6.4	6.4	6.4	5.7
77.5°	5.0	5.0	4.3	3.5	4.3	4.3	5.0	5.0
80°	2.1	2.1	2.1	2.1	2.8	2.8	3.5	3.5
82.5°	1.4	1.4	1.4	1.4	2.1	2.1	2.1	2.1
85°	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4
87.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)