

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: P1316681

Luminaire Tested: LDSQA3D13R709740DE010 3LSQCLSWWR 1MMS

Issue Date: 1/29/2026

**Test Information**

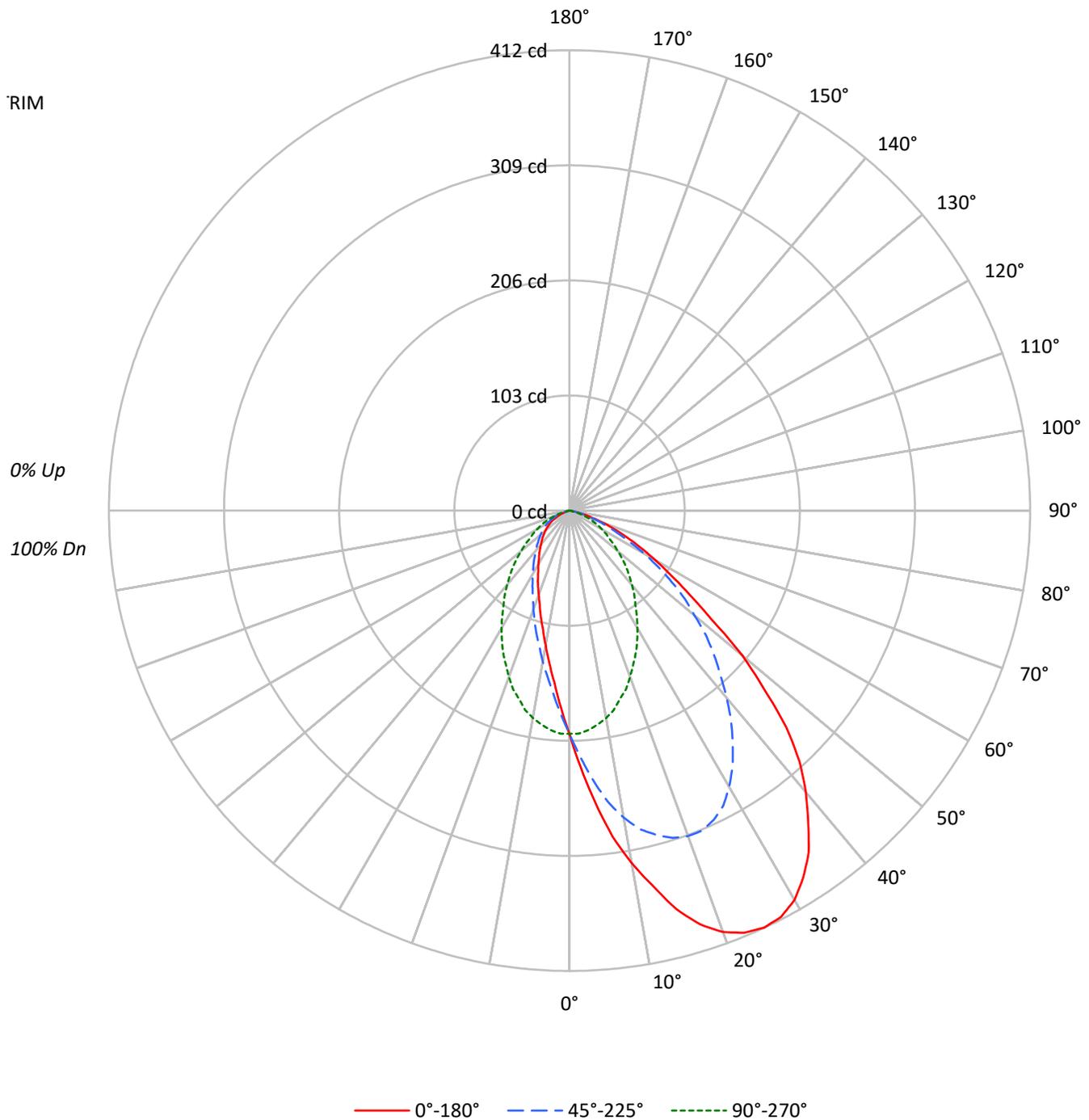
Test Method: LM-79-2019  
Report Number: P1316681  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-72)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R709740DE010 3LSQCLSWWR 1MMS  
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 97CRI , 3LSQCLSWWR 1MMS T  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 448.0 lumens  
Efficiency: N/A  
Efficacy: 30.7 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): 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

TEST NUMBER: P1316681  
CATALOG NUMBER: LDSQA3D13R709740DE010 3LSQCLSWWR 1MMS

### Luminous Intensity Polar Plot





TEST NUMBER: P1316681

CATALOG NUMBER: LDSQA3D13R709740DE010 3LSQCLSWWR 1MMS

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

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

	0°	45°	90°	135°	180°
0°	34393	34393	34393	34393	34393
5°	45277	41854	34040	28508	26710
10°	56014	48774	32947	24063	21423
15°	65845	53579	31077	20326	17634
20°	73567	56815	29013	17265	14680
25°	78234	58015	26680	14860	12713
30°	80004	56776	24162	12926	11057
35°	78442	53486	21592	11690	9903
40°	73921	49146	19492	10589	8903
45°	66784	44523	17439	9645	8257
50°	54015	39118	15138	9083	7582
55°	39334	33659	13001	8497	6786
60°	30518	26626	11677	7784	6166
65°	23025	19194	9617	6928	4605
70°	16113	13747	7100	5237	2870
75°	9382	8118	3793	2529	599
80°	1884	2777	893	0	0
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 66784 cd/sqm



TEST NUMBER: P1316681

CATALOG NUMBER: LDSQA3D13R709740DE010 3LSQCLSWWR 1MMS

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.5	4.4
10°-20°	58.2	13.0
20°-30°	87.8	19.6
30°-40°	97.6	21.8
40°-50°	86.5	19.3
50°-60°	58.7	13.1
60°-70°	30.8	6.9
70°-80°	8.7	1.9
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°	165.5	36.9
0°-40°	263.1	58.7
0°-60°	408.2	91.1
0°-90°	448.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	448.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	200	200	200	200	200	
5°	262	242	197	165	154	27
15°	369	300	174	114	99	105
25°	412	305	140	78	67	189
35°	373	254	103	56	47	231
45°	274	183	72	40	34	208
55°	131	112	43	28	23	121
65°	56	47	24	17	11	57
75°	14	12	6	4	1	16
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



TEST NUMBER: P1316681

CATALOG NUMBER: LDSQA3D13R709740DE010 3LSQCLSWWR 1MMS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	199.7	199.7	199.7	199.7	199.7	199.7	199.7	199.7	199.7	199.7	199.7
2.5°	229.9	228.9	228.0	228.0	227.1	226.1	224.2	224.2	222.3	220.5	218.6
5°	261.9	261.9	261.9	259.1	259.1	255.3	253.4	249.7	245.9	242.1	237.4
7.5°	293.9	293.9	291.1	290.2	287.4	283.6	280.8	275.1	268.5	262.9	255.3
10°	320.3	320.3	317.5	315.6	310.0	306.2	300.5	293.9	287.4	278.9	269.5
12.5°	343.9	344.8	341.1	337.3	331.6	326.0	318.4	310.0	301.5	292.1	279.8
15°	369.3	368.4	363.7	359.0	352.4	343.9	334.5	323.2	311.8	300.5	287.4
17.5°	388.2	387.2	382.5	376.9	368.4	358.0	347.6	334.5	321.3	307.1	291.1
20°	401.4	400.4	395.7	388.2	379.7	368.4	356.1	341.1	326.9	310.0	292.1
22.5°	408.9	407.9	402.3	395.7	385.3	373.1	359.9	343.9	327.9	310.0	290.2
25°	411.7	409.8	404.2	396.6	386.3	373.1	358.0	341.1	324.1	305.3	284.5
27.5°	409.8	407.9	401.4	392.9	381.6	366.5	351.4	334.5	316.6	297.7	276.0
30°	402.3	399.5	393.8	385.3	373.1	358.0	342.0	324.1	305.3	285.5	263.8
32.5°	389.1	387.2	381.6	372.1	359.9	344.8	328.8	310.0	291.1	271.3	249.7
35°	373.1	369.3	363.7	355.2	342.9	327.9	311.8	292.1	274.2	254.4	233.7
37.5°	350.5	349.5	342.9	336.3	324.1	308.1	293.0	274.2	256.3	237.4	216.7
40°	328.8	326.9	321.3	313.7	301.5	287.4	271.3	254.4	236.5	218.6	199.7
42.5°	304.3	301.5	297.7	290.2	278.9	264.7	249.7	232.7	216.7	199.7	182.8
45°	274.2	273.2	268.5	264.7	254.4	242.1	227.1	212.0	196.0	182.8	169.6
47.5°	235.5	234.6	233.7	230.8	225.2	216.7	205.4	191.3	179.0	165.8	147.9
50°	201.6	200.7	198.8	197.8	193.1	188.4	179.9	171.5	161.1	146.0	131.9
52.5°	160.2	161.1	163.9	164.9	163.9	160.2	156.4	153.6	139.4	130.0	116.8
55°	131.0	131.0	130.0	131.0	131.9	133.8	133.8	130.0	120.6	112.1	100.8
57.5°	107.4	107.4	107.4	107.4	107.4	108.3	108.3	107.4	102.7	94.2	83.9
60°	88.6	87.6	87.6	88.6	87.6	87.6	88.6	88.6	83.9	77.3	67.8
62.5°	71.6	71.6	71.6	70.7	70.7	71.6	71.6	70.7	66.9	60.3	53.7
65°	56.5	56.5	56.5	56.5	56.5	57.5	56.5	55.6	51.8	47.1	42.4
67.5°	43.3	43.3	44.3	43.3	44.3	44.3	44.3	42.4	39.6	35.8	33.0
70°	32.0	32.0	32.0	33.0	33.9	33.9	33.0	31.1	29.2	27.3	24.5
72.5°	21.7	22.6	22.6	22.6	23.6	23.6	22.6	21.7	20.7	18.8	17.9
75°	14.1	13.2	14.1	14.1	15.1	15.1	14.1	14.1	13.2	12.2	11.3
77.5°	6.6	6.6	7.5	7.5	7.5	7.5	7.5	7.5	7.5	6.6	6.6
80°	1.9	1.9	1.9	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
82.5°	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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



TEST NUMBER: P1316681

CATALOG NUMBER: LDSQA3D13R709740DE010 3LSQCLSWWR 1MMS

**CANDELA DISTRIBUTION (continued):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	199.7	199.7	199.7	199.7	199.7	199.7	199.7	199.7
2.5°	216.7	213.9	210.1	199.7	190.3	181.8	177.1	176.2
5°	231.8	228.0	218.6	196.9	179.0	164.9	156.4	154.5
7.5°	247.8	240.2	227.1	193.1	167.7	149.8	140.4	137.6
10°	260.0	250.6	232.7	188.4	156.4	137.6	126.2	122.5
12.5°	268.5	257.2	237.4	182.8	147.0	124.4	113.1	109.3
15°	273.2	261.0	238.4	174.3	135.7	114.0	101.8	98.9
17.5°	275.1	261.0	236.5	167.7	125.3	103.6	92.3	88.6
20°	274.2	257.2	231.8	158.3	115.9	94.2	82.9	80.1
22.5°	270.4	251.6	224.2	148.9	106.5	84.8	75.4	73.5
25°	264.7	244.0	215.7	140.4	98.0	78.2	68.8	66.9
27.5°	255.3	234.6	204.4	131.0	90.4	71.6	63.1	60.3
30°	243.1	223.3	193.1	121.5	82.9	65.0	57.5	55.6
32.5°	229.9	210.1	181.8	112.1	76.3	60.3	52.8	50.9
35°	214.8	196.0	167.7	102.7	69.7	55.6	48.0	47.1
37.5°	199.7	180.9	155.5	95.2	64.1	50.9	44.3	43.3
40°	182.8	167.7	148.9	86.7	59.4	47.1	41.5	39.6
42.5°	172.4	151.7	128.1	79.1	54.6	43.3	37.7	36.7
45°	149.8	134.7	115.9	71.6	49.9	39.6	34.9	33.9
47.5°	134.7	121.5	103.6	64.1	46.2	36.7	32.0	31.1
50°	119.7	107.4	90.4	56.5	42.4	33.9	29.2	28.3
52.5°	104.6	92.3	77.3	49.9	37.7	31.1	26.4	25.4
55°	89.5	78.2	64.1	43.3	33.9	28.3	24.5	22.6
57.5°	73.5	64.1	54.6	38.6	30.1	25.4	21.7	19.8
60°	59.4	53.7	46.2	33.9	26.4	22.6	18.8	17.9
62.5°	48.0	43.3	38.6	29.2	23.6	19.8	17.0	14.1
65°	38.6	35.8	32.0	23.6	19.8	17.0	14.1	11.3
67.5°	30.1	28.3	25.4	19.8	16.0	14.1	10.4	8.5
70°	23.6	21.7	19.8	14.1	12.2	10.4	7.5	5.7
72.5°	17.0	15.1	14.1	10.4	8.5	7.5	4.7	2.8
75°	10.4	10.4	8.5	5.7	4.7	3.8	1.9	0.9
77.5°	5.7	5.7	4.7	2.8	2.8	0.9	0.0	0.0
80°	2.8	1.9	1.9	0.9	0.9	0.0	0.0	0.0
82.5°	0.9	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)