

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: P1320197

Luminaire Tested: LDSQA3D13R709840DE010 3LSQCLSWWR 1MW

Issue Date: 1/29/2026

**Test Information**

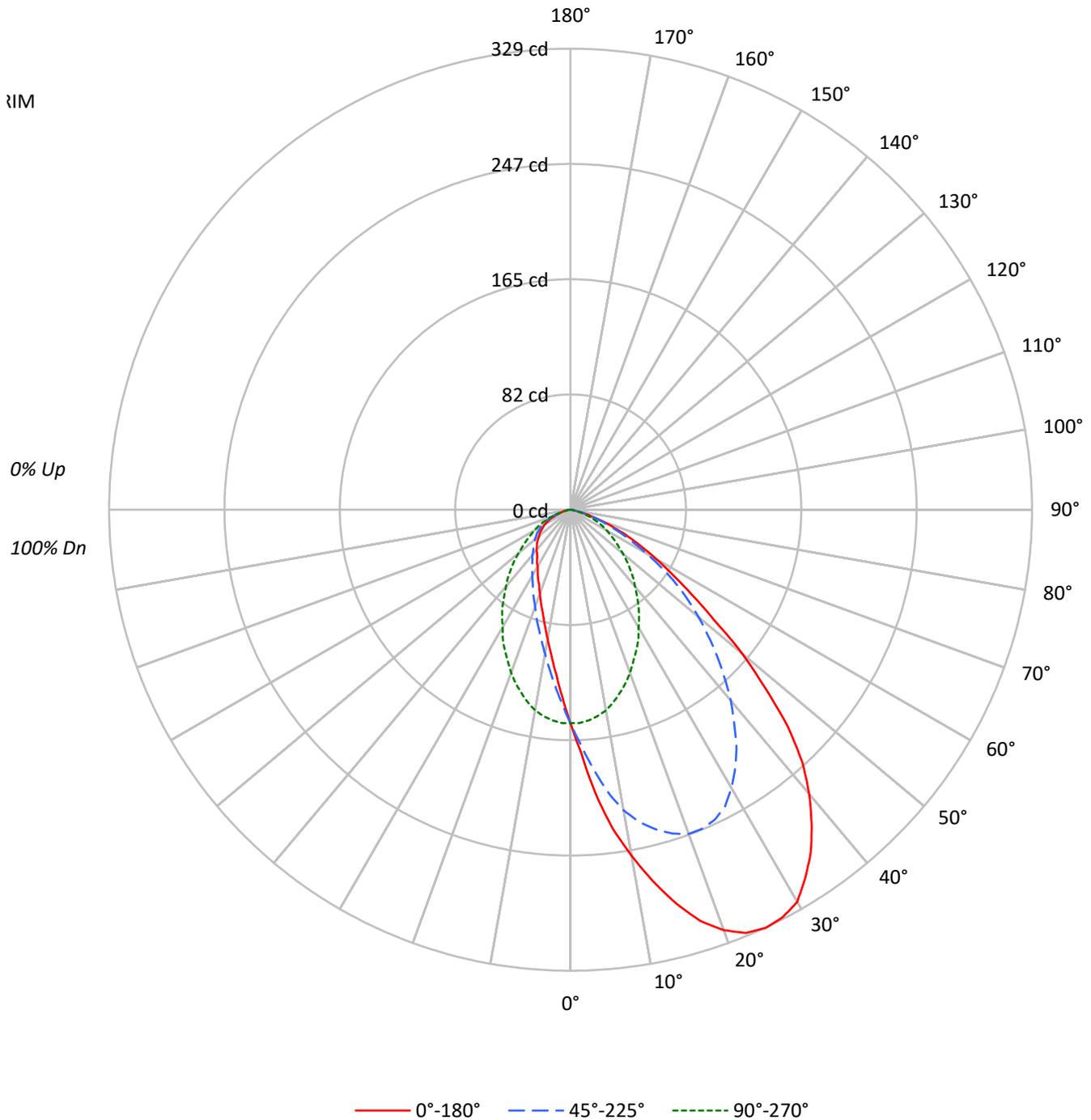
Test Method: LM-79-2019  
Report Number: P1320197  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-71)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D13R709840DE010 3LSQCLSWWR 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 98CRI , 3LSQCLSWWR 1MW TF  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 372.0 lumens  
Efficiency: N/A  
Efficacy: 25.7 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): 14.5  
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	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°	26230	26230	26230	26230	26230
5°	35112	32052	26070	21818	20348
10°	43860	38071	25427	18292	16404
15°	51849	42114	24142	15637	13586
20°	58502	45122	22690	13526	11693
25°	62557	46328	21055	11991	10375
30°	64253	45580	19270	10858	9327
35°	62758	43353	17787	10029	8725
40°	59488	39951	16075	9510	8476
45°	53388	35974	14614	9182	8232
50°	42869	31937	12995	8869	7824
55°	31648	27474	11560	8768	7627
60°	24387	21459	10333	8473	7406
65°	18501	15975	9088	7824	6602
70°	12387	11229	6949	6949	5438
75°	6654	6654	4591	4591	4126
80°	1488	3075	2281	3075	3769
85°	0	1581	1581	2964	2964

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 53388 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.0	4.0
10°-20°	45.7	12.3
20°-30°	70.4	18.9
30°-40°	79.9	21.5
40°-50°	72.3	19.4
50°-60°	50.5	13.6
60°-70°	27.8	7.5
70°-80°	9.3	2.5
80°-90°	1.2	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°	131.1	35.2
0°-40°	210.9	56.7
0°-60°	333.7	89.7
0°-90°	372.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	372.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	152	152	152	152	152	
5°	203	185	151	126	118	21
15°	291	236	135	88	76	83
25°	329	244	111	63	55	151
35°	298	206	85	48	42	186
45°	219	148	60	38	34	166
55°	105	92	38	29	25	97
65°	45	39	22	19	16	45
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°	152.3	152.3	152.3	152.3	152.3	152.3	152.3	152.3	152.3	152.3	152.3
2.5°	173.8	175.4	176.2	174.6	173.8	173.1	171.5	170.8	169.2	167.7	166.9
5°	203.1	203.1	203.1	201.5	199.2	197.7	194.6	192.3	188.5	185.4	182.3
7.5°	229.2	229.2	228.5	226.2	224.6	220.8	216.9	213.8	207.7	203.1	196.9
10°	250.8	250.8	250.0	246.2	243.8	239.2	235.4	230.0	223.8	217.7	210.8
12.5°	271.5	271.5	268.5	265.4	260.8	254.6	249.2	243.8	235.4	228.5	220.0
15°	290.8	290.8	289.2	283.8	277.7	270.8	263.1	255.4	245.4	236.2	226.9
17.5°	307.7	306.9	304.6	298.5	292.3	283.8	274.6	265.4	253.1	242.3	230.8
20°	319.2	319.2	316.2	309.2	302.3	293.1	283.1	272.3	259.2	246.2	232.3
22.5°	326.9	326.2	323.1	316.2	307.7	298.5	286.9	275.4	260.8	246.2	231.5
25°	329.2	328.5	325.4	317.7	309.2	299.2	286.9	274.6	259.2	243.8	227.7
27.5°	327.7	326.9	323.8	315.4	306.9	295.4	283.1	270.0	254.6	238.5	222.3
30°	323.1	320.8	317.7	310.0	300.8	289.2	276.2	261.5	246.2	229.2	213.1
32.5°	311.5	311.5	307.7	300.0	290.8	278.5	265.4	251.5	234.6	218.5	201.5
35°	298.5	297.7	294.6	286.2	277.7	266.2	253.1	238.5	222.3	206.2	190.0
37.5°	282.3	281.5	278.5	270.8	261.5	250.8	236.9	223.1	207.7	191.5	176.9
40°	264.6	263.1	259.2	253.1	245.4	233.1	220.8	206.9	192.3	177.7	163.1
42.5°	244.6	243.1	240.0	235.4	226.2	215.4	203.8	190.8	176.9	162.3	151.5
45°	219.2	219.2	217.7	213.1	206.2	197.7	185.4	173.8	160.8	147.7	136.2
47.5°	187.7	189.2	188.5	186.2	183.1	175.4	166.9	156.9	144.6	133.1	122.3
50°	160.0	160.8	161.5	160.0	157.7	152.3	146.9	140.8	130.0	119.2	109.2
52.5°	128.5	130.8	130.8	131.5	131.5	130.0	128.5	121.5	116.2	105.4	96.2
55°	105.4	105.4	105.4	106.9	107.7	108.5	106.9	105.4	99.2	91.5	83.1
57.5°	86.2	86.2	87.7	86.9	86.9	88.5	88.5	87.7	83.8	76.9	69.2
60°	70.8	70.8	70.8	70.8	71.5	71.5	71.5	71.5	68.5	62.3	56.2
62.5°	56.9	56.9	56.9	57.7	57.7	57.7	58.5	57.7	54.6	50.0	44.6
65°	45.4	44.6	45.4	45.4	46.2	46.2	46.2	45.4	42.3	39.2	35.4
67.5°	33.8	34.6	34.6	34.6	35.4	36.2	35.4	34.6	32.3	29.2	27.7
70°	24.6	25.4	25.4	25.4	26.2	26.9	26.2	25.4	23.8	22.3	20.8
72.5°	16.2	16.9	16.9	17.7	18.5	18.5	17.7	17.7	16.9	15.4	14.6
75°	10.0	10.0	10.8	10.8	11.5	11.5	11.5	10.8	10.8	10.0	10.0
77.5°	4.6	4.6	5.4	5.4	5.4	6.2	6.2	6.2	6.2	6.2	5.4
80°	1.5	1.5	1.5	1.5	1.5	2.3	2.3	2.3	3.1	3.1	3.1
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5
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°	152.3	152.3	152.3	152.3	152.3	152.3	152.3	152.3
2.5°	165.4	163.1	160.0	152.3	144.6	138.5	134.6	133.8
5°	178.5	174.6	167.7	150.8	136.9	126.2	120.0	117.7
7.5°	191.5	184.6	174.6	148.5	127.7	114.6	107.7	104.6
10°	202.3	193.8	180.8	145.4	120.0	104.6	96.2	93.8
12.5°	210.8	200.8	184.6	140.8	112.3	95.4	86.9	84.6
15°	216.2	205.4	186.9	135.4	104.6	87.7	79.2	76.2
17.5°	218.5	205.4	186.2	130.0	97.7	80.8	72.3	70.0
20°	218.5	203.8	183.8	123.8	90.8	73.8	66.2	63.8
22.5°	216.2	200.8	178.5	116.9	84.6	68.5	60.8	58.5
25°	211.5	194.6	172.3	110.8	78.5	63.1	56.2	54.6
27.5°	204.6	187.7	164.6	104.6	73.1	58.5	52.3	50.8
30°	196.2	179.2	156.2	96.9	67.7	54.6	49.2	46.9
32.5°	185.4	169.2	146.9	90.8	63.1	50.8	46.2	44.6
35°	173.8	159.2	136.9	84.6	58.5	47.7	43.1	41.5
37.5°	162.3	146.9	128.5	77.7	54.6	44.6	40.8	39.2
40°	150.0	138.5	119.2	71.5	51.5	42.3	38.5	37.7
42.5°	137.7	125.4	106.2	66.2	47.7	39.2	36.2	35.4
45°	123.1	111.5	96.2	60.0	44.6	37.7	34.6	33.8
47.5°	110.8	100.0	86.2	54.6	41.5	35.4	32.3	31.5
50°	99.2	88.5	75.4	48.5	38.5	33.1	30.8	29.2
52.5°	86.2	76.9	65.4	43.1	35.4	30.8	28.5	27.7
55°	74.6	65.4	54.6	38.5	32.3	29.2	26.2	25.4
57.5°	61.5	53.8	46.2	33.8	29.2	26.2	24.6	23.1
60°	50.0	44.6	39.2	30.0	26.2	24.6	22.3	21.5
62.5°	40.8	36.9	33.1	26.2	23.1	21.5	20.0	18.5
65°	32.3	30.0	26.9	22.3	20.0	19.2	17.7	16.2
67.5°	25.4	23.8	21.5	17.7	16.9	16.2	14.6	13.1
70°	19.2	18.5	16.9	13.8	13.1	13.8	12.3	10.8
72.5°	13.8	13.1	12.3	10.0	10.0	10.0	9.2	7.7
75°	9.2	8.5	7.7	6.9	6.9	6.9	6.9	6.2
77.5°	5.4	5.4	4.6	3.8	4.6	4.6	5.4	5.4
80°	2.3	2.3	2.3	2.3	3.1	3.1	3.8	3.8
82.5°	1.5	1.5	1.5	1.5	2.3	2.3	2.3	2.3
85°	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5
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)