

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: P1313910

Luminaire Tested: LDSQA3D17R709727DE010 3LSQCLSWWR 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1313910  
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: LDSQA3D17R709727DE010 3LSQCLSWWR 1MB  
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 97CRI , 3LSQCLSWWR 1MB TRI  
Light Source: -  
Ballast/Driver: -

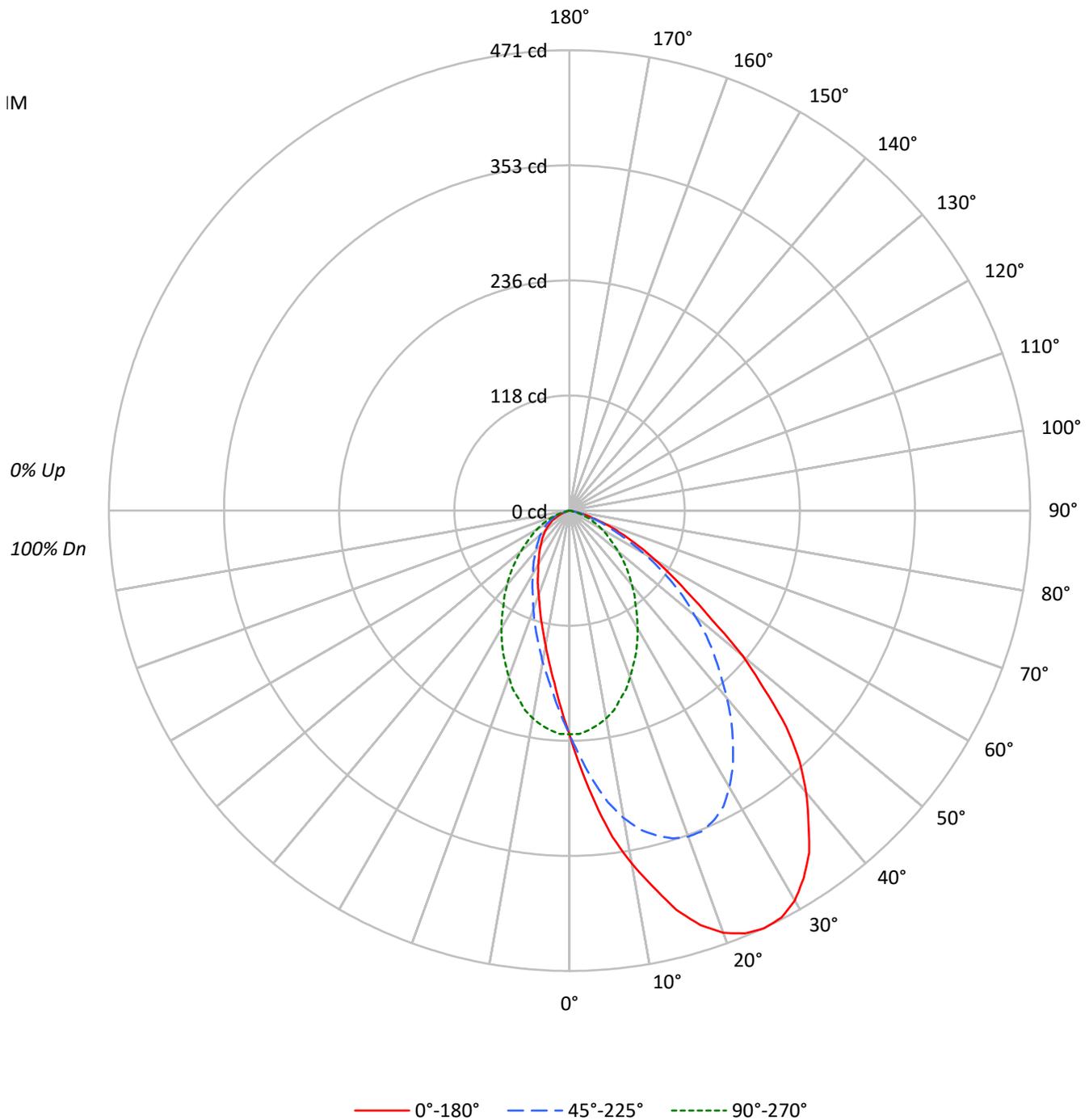
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 513.0 lumens  
Efficiency: N/A  
Efficacy: 24.2 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): 21.2  
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	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°	39387	39387	39387	39387	39387
5°	51847	47940	38985	32640	30583
10°	64146	55839	37739	27544	24518
15°	75402	61352	35588	23268	20201
20°	84233	65044	33210	19775	16806
25°	89579	66414	30537	17007	14556
30°	91617	65009	27682	14796	12668
35°	89817	61244	24725	13393	11332
40°	84645	56273	22325	12118	10184
45°	76453	50977	19972	11033	9450
50°	61865	44798	17335	10396	8681
55°	45039	38554	14893	9728	7777
60°	34927	30483	13364	8921	7061
65°	26366	21965	11003	7906	5257
70°	18480	15761	8157	5992	3273
75°	10780	9316	4325	2861	732
80°	2182	3174	1091	0	0
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 76453 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	22.4	4.4
10°-20°	66.7	13.0
20°-30°	100.5	19.6
30°-40°	111.7	21.8
40°-50°	99.0	19.3
50°-60°	67.2	13.1
60°-70°	35.3	6.9
70°-80°	10.0	2.0
80°-90°	0.3	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°	189.5	36.9
0°-40°	301.2	58.7
0°-60°	467.5	91.1
0°-90°	513.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	513.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	229	229	229	229	229	
5°	300	277	226	189	177	31
15°	423	344	200	130	113	120
25°	471	350	161	90	77	216
35°	427	291	118	64	54	265
45°	314	209	82	45	39	238
55°	150	128	50	32	26	139
65°	65	54	27	19	13	65
75°	16	14	6	4	1	18
85°	0	0	0	0	0	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°	228.7	228.7	228.7	228.7	228.7	228.7	228.7	228.7	228.7	228.7	228.7
2.5°	263.2	262.2	261.1	261.1	260.0	258.9	256.8	256.8	254.6	252.4	250.3
5°	299.9	299.9	299.9	296.7	296.7	292.4	290.2	285.9	281.6	277.3	271.9
7.5°	336.6	336.6	333.4	332.3	329.0	324.7	321.5	315.0	307.5	301.0	292.4
10°	366.8	366.8	363.6	361.4	354.9	350.6	344.1	336.6	329.0	319.3	308.5
12.5°	393.8	394.9	390.5	386.2	379.7	373.3	364.6	354.9	345.2	334.4	320.4
15°	422.9	421.8	416.4	411.0	403.5	393.8	383.0	370.0	357.1	344.1	329.0
17.5°	444.5	443.4	438.0	431.5	421.8	410.0	398.1	383.0	367.9	351.7	333.4
20°	459.6	458.5	453.1	444.5	434.8	421.8	407.8	390.5	374.4	354.9	334.4
22.5°	468.2	467.1	460.7	453.1	441.2	427.2	412.1	393.8	375.4	354.9	332.3
25°	471.4	469.3	462.8	454.2	442.3	427.2	410.0	390.5	371.1	349.5	325.8
27.5°	469.3	467.1	459.6	449.9	436.9	419.7	402.4	383.0	362.5	340.9	316.1
30°	460.7	457.4	451.0	441.2	427.2	410.0	391.6	371.1	349.5	326.9	302.1
32.5°	445.6	443.4	436.9	426.1	412.1	394.9	376.5	354.9	333.4	310.7	285.9
35°	427.2	422.9	416.4	406.7	392.7	375.4	357.1	334.4	313.9	291.3	267.6
37.5°	401.3	400.2	392.7	385.1	371.1	352.8	335.5	313.9	293.4	271.9	248.1
40°	376.5	374.4	367.9	359.3	345.2	329.0	310.7	291.3	270.8	250.3	228.7
42.5°	348.5	345.2	340.9	332.3	319.3	303.2	285.9	266.5	248.1	228.7	209.3
45°	313.9	312.9	307.5	303.2	291.3	277.3	260.0	242.7	224.4	209.3	194.2
47.5°	269.7	268.6	267.6	264.3	257.8	248.1	235.2	219.0	205.0	189.9	169.4
50°	230.9	229.8	227.6	226.6	221.2	215.8	206.1	196.3	184.5	167.2	151.0
52.5°	183.4	184.5	187.7	188.8	187.7	183.4	179.1	175.8	159.7	148.9	133.8
55°	150.0	150.0	148.9	150.0	151.0	153.2	153.2	148.9	138.1	128.4	115.4
57.5°	123.0	123.0	123.0	123.0	123.0	124.1	124.1	123.0	117.6	107.9	96.0
60°	101.4	100.3	100.3	101.4	100.3	100.3	101.4	101.4	96.0	88.5	77.7
62.5°	82.0	82.0	82.0	80.9	80.9	82.0	82.0	80.9	76.6	69.0	61.5
65°	64.7	64.7	64.7	64.7	64.7	65.8	64.7	63.7	59.3	53.9	48.5
67.5°	49.6	49.6	50.7	49.6	50.7	50.7	50.7	48.5	45.3	41.0	37.8
70°	36.7	36.7	36.7	37.8	38.8	38.8	37.8	35.6	33.4	31.3	28.0
72.5°	24.8	25.9	25.9	25.9	27.0	27.0	25.9	24.8	23.7	21.6	20.5
75°	16.2	15.1	16.2	16.2	17.3	17.3	16.2	16.2	15.1	14.0	12.9
77.5°	7.6	7.6	8.6	8.6	8.6	8.6	8.6	8.6	8.6	7.6	7.6
80°	2.2	2.2	2.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
82.5°	0.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	228.7	228.7	228.7	228.7	228.7	228.7	228.7	228.7
2.5°	248.1	244.9	240.6	228.7	217.9	208.2	202.8	201.7
5°	265.4	261.1	250.3	225.5	205.0	188.8	179.1	176.9
7.5°	283.7	275.1	260.0	221.2	192.0	171.5	160.7	157.5
10°	297.8	287.0	266.5	215.8	179.1	157.5	144.6	140.2
12.5°	307.5	294.5	271.9	209.3	168.3	142.4	129.5	125.1
15°	312.9	298.8	272.9	199.6	155.4	130.5	116.5	113.3
17.5°	315.0	298.8	270.8	192.0	143.5	118.7	105.7	101.4
20°	313.9	294.5	265.4	181.2	132.7	107.9	94.9	91.7
22.5°	309.6	288.0	256.8	170.5	121.9	97.1	86.3	84.1
25°	303.2	279.4	247.1	160.7	112.2	89.5	78.8	76.6
27.5°	292.4	268.6	234.1	150.0	103.6	82.0	72.3	69.0
30°	278.3	255.7	221.2	139.2	94.9	74.4	65.8	63.7
32.5°	263.2	240.6	208.2	128.4	87.4	69.0	60.4	58.3
35°	246.0	224.4	192.0	117.6	79.8	63.7	55.0	53.9
37.5°	228.7	207.1	178.0	109.0	73.4	58.3	50.7	49.6
40°	209.3	192.0	170.5	99.3	68.0	53.9	47.5	45.3
42.5°	197.4	173.7	146.7	90.6	62.6	49.6	43.2	42.1
45°	171.5	154.3	132.7	82.0	57.2	45.3	39.9	38.8
47.5°	154.3	139.2	118.7	73.4	52.9	42.1	36.7	35.6
50°	137.0	123.0	103.6	64.7	48.5	38.8	33.4	32.4
52.5°	119.8	105.7	88.5	57.2	43.2	35.6	30.2	29.1
55°	102.5	89.5	73.4	49.6	38.8	32.4	28.0	25.9
57.5°	84.1	73.4	62.6	44.2	34.5	29.1	24.8	22.7
60°	68.0	61.5	52.9	38.8	30.2	25.9	21.6	20.5
62.5°	55.0	49.6	44.2	33.4	27.0	22.7	19.4	16.2
65°	44.2	41.0	36.7	27.0	22.7	19.4	16.2	12.9
67.5°	34.5	32.4	29.1	22.7	18.3	16.2	11.9	9.7
70°	27.0	24.8	22.7	16.2	14.0	11.9	8.6	6.5
72.5°	19.4	17.3	16.2	11.9	9.7	8.6	5.4	3.2
75°	11.9	11.9	9.7	6.5	5.4	4.3	2.2	1.1
77.5°	6.5	6.5	5.4	3.2	3.2	1.1	0.0	0.0
80°	3.2	2.2	2.2	1.1	1.1	0.0	0.0	0.0
82.5°	1.1	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)