

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: P1312803

Luminaire Tested: LDSQA3D17R709050DE010 3LSQCLSWWR 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1312803  
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: LDSQA3D17R709050DE010 3LSQCLSWWR 1MB  
Description: 3in Adjustable LED luminaire with, R70 optic, 5000K CCT AND, 90CRI , 3LSQCLSWWR 1MB TRI  
Light Source: -  
Ballast/Driver: -

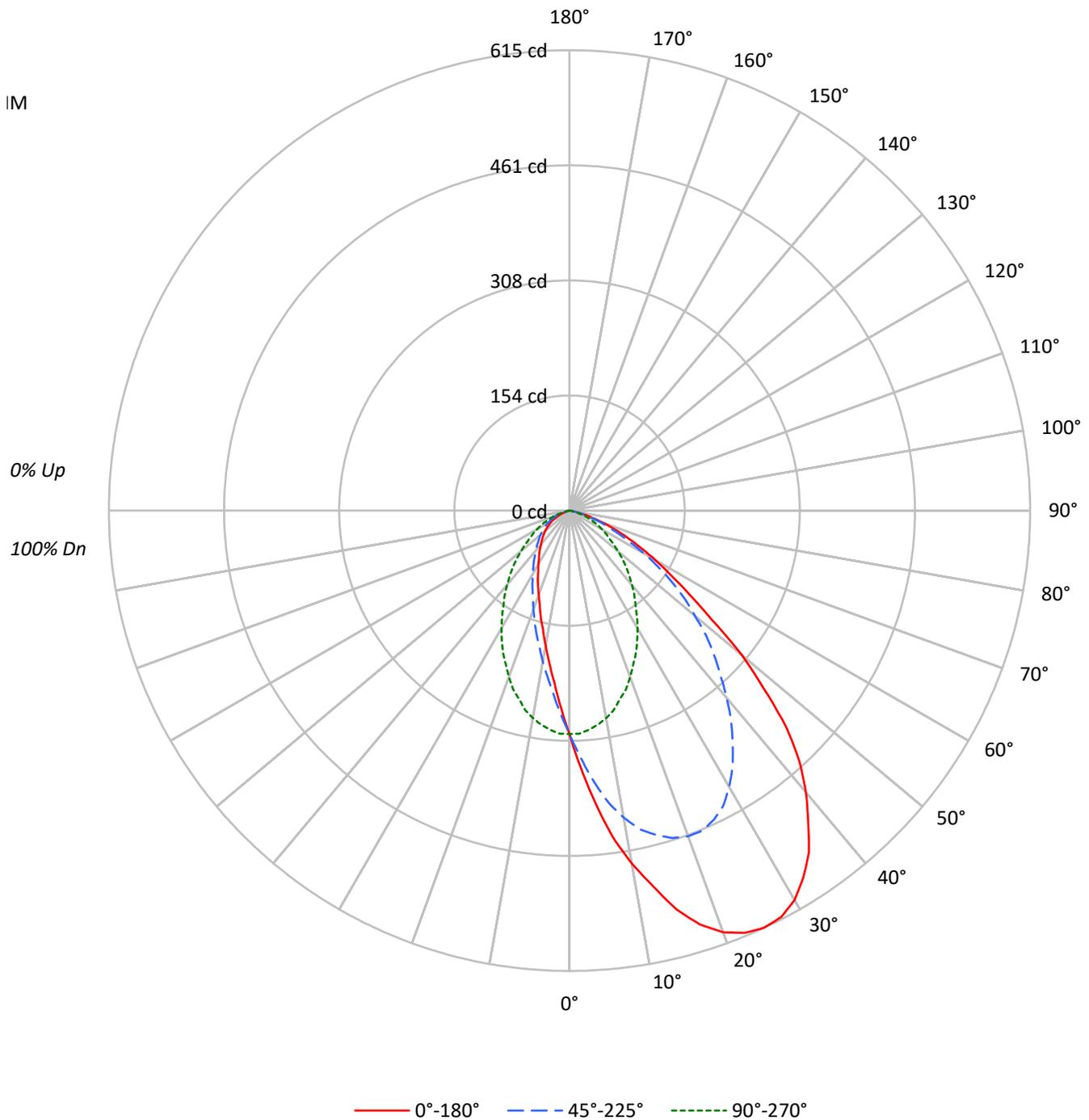
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 669.0 lumens  
Efficiency: N/A  
Efficacy: 31.6 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 (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





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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	100			100
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	89			89
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77			77
3	95	86	79	73	93	84	78	73	82	76	72	79	74	70	76	73	69	67			67
4	88	77	70	64	86	76	69	63	74	67	63	71	66	62	69	65	61	59			59
5	81	70	62	56	79	69	61	56	67	60	55	65	59	55	63	58	54	52			52
6	75	64	55	50	74	63	55	49	61	54	49	59	53	49	58	52	48	46			46
7	70	58	50	44	69	57	50	44	56	49	44	54	48	44	53	48	43	42			42
8	66	53	45	40	64	53	45	40	51	45	40	50	44	39	49	43	39	38			38
9	62	49	41	36	60	49	41	36	47	41	36	46	40	36	45	40	36	34			34
10	58	45	38	33	57	45	38	33	44	37	33	43	37	33	42	37	33	31			31

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

	0°	45°	90°	135°	180°
0°	51374	51374	51374	51374	51374
5°	67614	62514	50827	42563	39884
10°	83645	72820	49211	35920	31985
15°	98331	80020	46411	30346	26335
20°	109837	84838	43326	25787	21920
25°	116828	86614	39830	22195	18984
30°	119459	84776	36094	19310	16506
35°	117128	79872	32252	17450	14780
40°	110387	73381	29092	15805	13287
45°	99713	66467	26037	14394	12324
50°	80674	58436	22613	13557	11307
55°	58731	50264	19427	12671	10149
60°	45536	39749	17429	11642	9197
65°	34394	28648	14344	10310	6887
70°	24069	20545	10625	7805	4230
75°	14040	12177	5590	3726	932
80°	2777	4166	1389	0	0
85°	0	0	0	0	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 99713 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	29.2	4.4
10°-20°	87.0	13.0
20°-30°	131.0	19.6
30°-40°	145.7	21.8
40°-50°	129.1	19.3
50°-60°	87.7	13.1
60°-70°	46.0	6.9
70°-80°	13.0	1.9
80°-90°	0.4	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°	247.2	36.9
0°-40°	392.8	58.7
0°-60°	609.6	91.1
0°-90°	669.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	669.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	298	298	298	298	298	
5°	391	362	294	246	231	40
15°	552	449	260	170	148	157
25°	615	456	210	117	100	282
35°	557	380	153	83	70	345
45°	409	273	107	59	51	310
55°	196	167	65	42	34	181
65°	84	70	35	25	17	85
75°	21	18	8	6	1	23
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°	298.3	298.3	298.3	298.3	298.3	298.3	298.3	298.3	298.3	298.3	298.3
2.5°	343.3	341.9	340.5	340.5	339.1	337.7	334.8	334.8	332.0	329.2	326.4
5°	391.1	391.1	391.1	386.9	386.9	381.3	378.5	372.8	367.2	361.6	354.5
7.5°	439.0	439.0	434.7	433.3	429.1	423.5	419.3	410.8	401.0	392.5	381.3
10°	478.3	478.3	474.1	471.3	462.9	457.2	448.8	439.0	429.1	416.4	402.4
12.5°	513.5	514.9	509.3	503.7	495.2	486.8	475.5	462.9	450.2	436.1	417.8
15°	551.5	550.1	543.1	536.0	526.2	513.5	499.4	482.6	465.7	448.8	429.1
17.5°	579.6	578.2	571.2	562.8	550.1	534.6	519.1	499.4	479.8	458.6	434.7
20°	599.3	597.9	590.9	579.6	567.0	550.1	531.8	509.3	488.2	462.9	436.1
22.5°	610.6	609.2	600.7	590.9	575.4	557.1	537.4	513.5	489.6	462.9	433.3
25°	614.8	612.0	603.6	592.3	576.8	557.1	534.6	509.3	484.0	455.8	424.9
27.5°	612.0	609.2	599.3	586.7	569.8	547.3	524.8	499.4	472.7	444.6	412.2
30°	600.7	596.5	588.1	575.4	557.1	534.6	510.7	484.0	455.8	426.3	393.9
32.5°	581.0	578.2	569.8	555.7	537.4	514.9	491.0	462.9	434.7	405.2	372.8
35°	557.1	551.5	543.1	530.4	512.1	489.6	465.7	436.1	409.4	379.9	348.9
37.5°	523.4	522.0	512.1	502.3	484.0	460.1	437.5	409.4	382.7	354.5	323.6
40°	491.0	488.2	479.8	468.5	450.2	429.1	405.2	379.9	353.1	326.4	298.3
42.5°	454.4	450.2	444.6	433.3	416.4	395.3	372.8	347.5	323.6	298.3	272.9
45°	409.4	408.0	401.0	395.3	379.9	361.6	339.1	316.6	292.6	272.9	253.2
47.5°	351.7	350.3	348.9	344.7	336.2	323.6	306.7	285.6	267.3	247.6	220.9
50°	301.1	299.7	296.9	295.4	288.4	281.4	268.7	256.1	240.6	218.1	197.0
52.5°	239.2	240.6	244.8	246.2	244.8	239.2	233.5	229.3	208.2	194.2	174.5
55°	195.6	195.6	194.2	195.6	197.0	199.8	199.8	194.2	180.1	167.4	150.5
57.5°	160.4	160.4	160.4	160.4	160.4	161.8	161.8	160.4	153.4	140.7	125.2
60°	132.2	130.8	130.8	132.2	130.8	130.8	132.2	132.2	125.2	115.4	101.3
62.5°	106.9	106.9	106.9	105.5	105.5	106.9	106.9	105.5	99.9	90.0	80.2
65°	84.4	84.4	84.4	84.4	84.4	85.8	84.4	83.0	77.4	70.3	63.3
67.5°	64.7	64.7	66.1	64.7	66.1	66.1	66.1	63.3	59.1	53.5	49.2
70°	47.8	47.8	47.8	49.2	50.6	50.6	49.2	46.4	43.6	40.8	36.6
72.5°	32.4	33.8	33.8	33.8	35.2	35.2	33.8	32.4	31.0	28.1	26.7
75°	21.1	19.7	21.1	21.1	22.5	22.5	21.1	21.1	19.7	18.3	16.9
77.5°	9.8	9.8	11.3	11.3	11.3	11.3	11.3	11.3	11.3	9.8	9.8
80°	2.8	2.8	2.8	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
82.5°	0.0	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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°	298.3	298.3	298.3	298.3	298.3	298.3	298.3	298.3
2.5°	323.6	319.4	313.7	298.3	284.2	271.5	264.5	263.1
5°	346.1	340.5	326.4	294.0	267.3	246.2	233.5	230.7
7.5°	370.0	358.8	339.1	288.4	250.4	223.7	209.6	205.4
10°	388.3	374.2	347.5	281.4	233.5	205.4	188.5	182.9
12.5°	401.0	384.1	354.5	272.9	219.5	185.7	168.8	163.2
15°	408.0	389.7	355.9	260.3	202.6	170.2	151.9	147.7
17.5°	410.8	389.7	353.1	250.4	187.1	154.8	137.9	132.2
20°	409.4	384.1	346.1	236.4	173.0	140.7	123.8	119.6
22.5°	403.8	375.6	334.8	222.3	159.0	126.6	112.6	109.7
25°	395.3	364.4	322.2	209.6	146.3	116.8	102.7	99.9
27.5°	381.3	350.3	305.3	195.6	135.1	106.9	94.3	90.0
30°	363.0	333.4	288.4	181.5	123.8	97.1	85.8	83.0
32.5°	343.3	313.7	271.5	167.4	114.0	90.0	78.8	76.0
35°	320.8	292.6	250.4	153.4	104.1	83.0	71.8	70.3
37.5°	298.3	270.1	232.1	142.1	95.7	76.0	66.1	64.7
40°	272.9	250.4	222.3	129.4	88.6	70.3	61.9	59.1
42.5°	257.5	226.5	191.3	118.2	81.6	64.7	56.3	54.9
45°	223.7	201.2	173.0	106.9	74.6	59.1	52.1	50.6
47.5°	201.2	181.5	154.8	95.7	68.9	54.9	47.8	46.4
50°	178.7	160.4	135.1	84.4	63.3	50.6	43.6	42.2
52.5°	156.2	137.9	115.4	74.6	56.3	46.4	39.4	38.0
55°	133.7	116.8	95.7	64.7	50.6	42.2	36.6	33.8
57.5°	109.7	95.7	81.6	57.7	45.0	38.0	32.4	29.5
60°	88.6	80.2	68.9	50.6	39.4	33.8	28.1	26.7
62.5°	71.8	64.7	57.7	43.6	35.2	29.5	25.3	21.1
65°	57.7	53.5	47.8	35.2	29.5	25.3	21.1	16.9
67.5°	45.0	42.2	38.0	29.5	23.9	21.1	15.5	12.7
70°	35.2	32.4	29.5	21.1	18.3	15.5	11.3	8.4
72.5°	25.3	22.5	21.1	15.5	12.7	11.3	7.0	4.2
75°	15.5	15.5	12.7	8.4	7.0	5.6	2.8	1.4
77.5°	8.4	8.4	7.0	4.2	4.2	1.4	0.0	0.0
80°	4.2	2.8	2.8	1.4	1.4	0.0	0.0	0.0
82.5°	1.4	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)