

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: P1307724

Luminaire Tested: LDSQA3D02R709027DE010 3LSQCLSWWR 1MW

Issue Date: 1/29/2026

**Test Information**

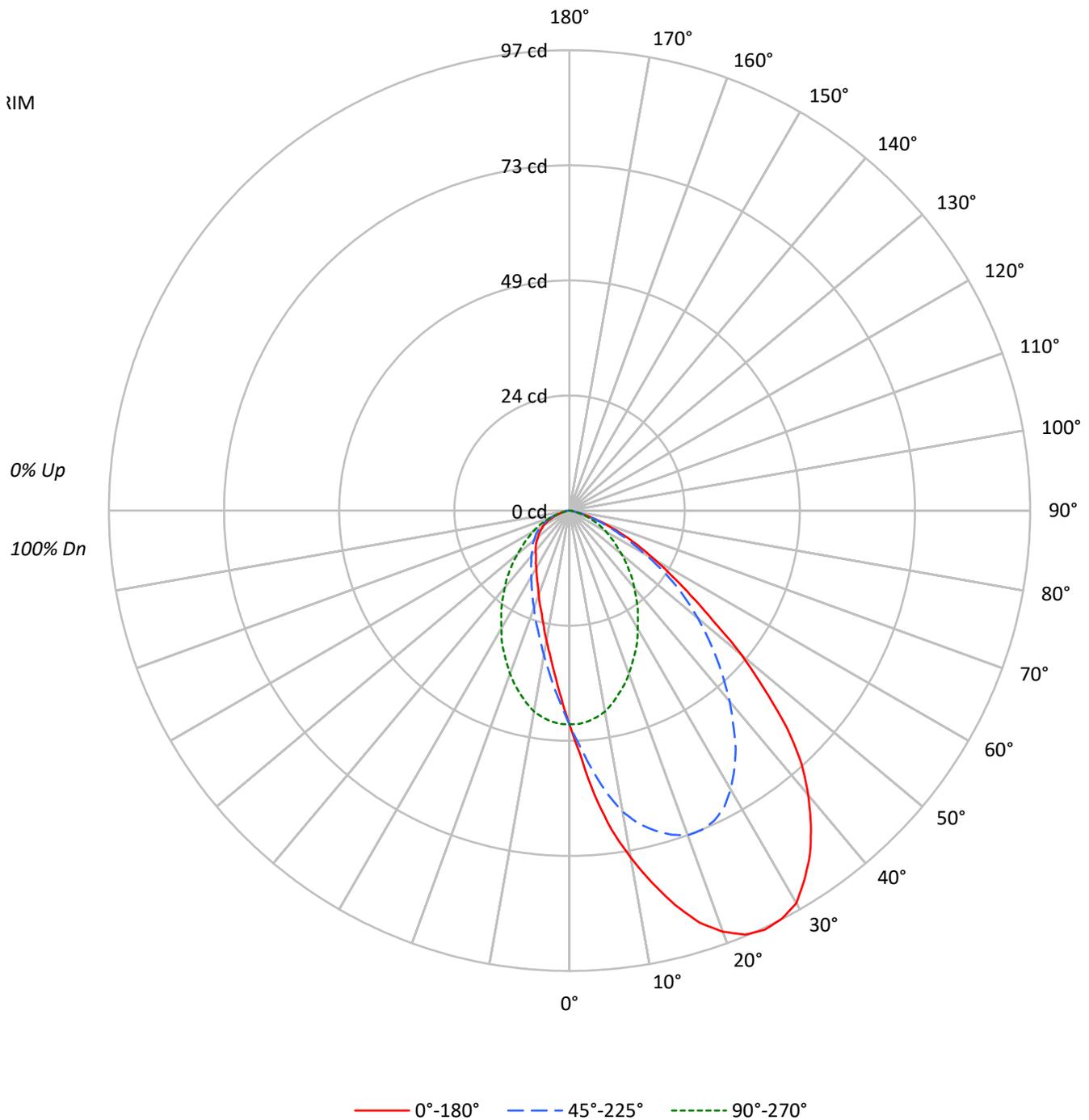
Test Method: LM-79-2019  
Report Number: P1307724  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-71)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R709027DE010 3LSQCLSWWR 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 2700K CCT AND, 90CRI , 3LSQCLSWWR 1MW TF  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 110.0 lumens  
Efficiency: N/A  
Efficacy: 30.6 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): 3.6  
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	103	100	108	105	101	99	100	98	95	97	95	93	93	91	90	88		
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	76		
3	94	85	78	72	92	83	77	72	81	75	70	78	73	69	75	71	68	66		
4	87	76	68	62	85	75	68	62	73	66	61	70	65	60	68	64	60	58		
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	51		
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	45		
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	40		
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	36		
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	33		
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	30		

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

	0°	45°	90°	135°	180°
0°	7750	7750	7750	7750	7750
5°	10373	9474	7710	6448	6016
10°	12976	11262	7520	5404	4862
15°	15334	12445	7132	4618	4012
20°	17301	13342	6708	3995	3464
25°	18509	13701	6233	3553	3059
30°	18992	13483	5707	3202	2764
35°	18565	12825	5256	2964	2586
40°	17581	11803	4766	2810	2496
45°	15783	10644	4311	2704	2436
50°	12673	9458	3831	2626	2304
55°	9368	8137	3423	2582	2252
60°	7199	6338	3066	2514	2204
65°	5461	4727	2690	2323	1956
70°	3676	3323	2065	2065	1611
75°	1996	1996	1331	1331	1198
80°	496	893	694	893	1091
85°	0	395	395	988	988

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 15783 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.4	4.0
10°-20°	13.5	12.3
20°-30°	20.8	18.9
30°-40°	23.6	21.5
40°-50°	21.4	19.4
50°-60°	14.9	13.6
60°-70°	8.2	7.5
70°-80°	2.7	2.5
80°-90°	0.4	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°	38.8	35.2
0°-40°	62.4	56.7
0°-60°	98.7	89.7
0°-90°	110.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	110.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	45	45	45	45	45	
5°	60	55	45	37	35	6
15°	86	70	40	26	22	25
25°	97	72	33	19	16	45
35°	88	61	25	14	12	55
45°	65	44	18	11	10	49
55°	31	27	11	9	8	29
65°	13	12	7	6	5	13
75°	3	3	2	2	2	3
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°	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
2.5°	51.4	51.9	52.1	51.6	51.4	51.2	50.7	50.5	50.0	49.6	49.4
5°	60.0	60.0	60.0	59.6	58.9	58.5	57.5	56.9	55.7	54.8	53.9
7.5°	67.8	67.8	67.6	66.9	66.4	65.3	64.1	63.2	61.4	60.0	58.2
10°	74.2	74.2	73.9	72.8	72.1	70.7	69.6	68.0	66.2	64.4	62.3
12.5°	80.3	80.3	79.4	78.5	77.1	75.3	73.7	72.1	69.6	67.6	65.1
15°	86.0	86.0	85.5	83.9	82.1	80.1	77.8	75.5	72.6	69.8	67.1
17.5°	91.0	90.8	90.1	88.3	86.4	83.9	81.2	78.5	74.8	71.6	68.2
20°	94.4	94.4	93.5	91.4	89.4	86.7	83.7	80.5	76.7	72.8	68.7
22.5°	96.7	96.4	95.5	93.5	91.0	88.3	84.8	81.4	77.1	72.8	68.5
25°	97.4	97.1	96.2	93.9	91.4	88.5	84.8	81.2	76.7	72.1	67.3
27.5°	96.9	96.7	95.8	93.3	90.8	87.3	83.7	79.8	75.3	70.5	65.7
30°	95.5	94.9	93.9	91.7	88.9	85.5	81.7	77.3	72.8	67.8	63.0
32.5°	92.1	92.1	91.0	88.7	86.0	82.3	78.5	74.4	69.4	64.6	59.6
35°	88.3	88.0	87.1	84.6	82.1	78.7	74.8	70.5	65.7	61.0	56.2
37.5°	83.5	83.3	82.3	80.1	77.3	74.2	70.1	66.0	61.4	56.6	52.3
40°	78.2	77.8	76.7	74.8	72.6	68.9	65.3	61.2	56.9	52.5	48.2
42.5°	72.3	71.9	71.0	69.6	66.9	63.7	60.3	56.4	52.3	48.0	44.8
45°	64.8	64.8	64.4	63.0	61.0	58.5	54.8	51.4	47.5	43.7	40.3
47.5°	55.5	56.0	55.7	55.0	54.1	51.9	49.4	46.4	42.8	39.4	36.2
50°	47.3	47.5	47.8	47.3	46.6	45.0	43.4	41.6	38.4	35.3	32.3
52.5°	38.0	38.7	38.7	38.9	38.9	38.4	38.0	35.9	34.3	31.2	28.4
55°	31.2	31.2	31.2	31.6	31.8	32.1	31.6	31.2	29.3	27.1	24.6
57.5°	25.5	25.5	25.9	25.7	25.7	26.2	26.2	25.9	24.8	22.7	20.5
60°	20.9	20.9	20.9	20.9	21.2	21.2	21.2	21.2	20.2	18.4	16.6
62.5°	16.8	16.8	16.8	17.1	17.1	17.1	17.3	17.1	16.1	14.8	13.2
65°	13.4	13.2	13.4	13.4	13.6	13.6	13.6	13.4	12.5	11.6	10.5
67.5°	10.0	10.2	10.2	10.2	10.5	10.7	10.5	10.2	9.6	8.6	8.2
70°	7.3	7.5	7.5	7.5	7.7	8.0	7.7	7.5	7.1	6.6	6.1
72.5°	4.8	5.0	5.0	5.2	5.5	5.5	5.2	5.2	5.0	4.5	4.3
75°	3.0	3.0	3.2	3.2	3.4	3.4	3.4	3.2	3.2	3.0	3.0
77.5°	1.4	1.4	1.6	1.6	1.6	1.8	1.8	1.8	1.8	1.8	1.6
80°	0.5	0.5	0.5	0.5	0.5	0.7	0.7	0.7	0.9	0.9	0.9
82.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.2
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°	45.0	45.0	45.0	45.0	45.0	45.0	45.0	45.0
2.5°	48.9	48.2	47.3	45.0	42.8	40.9	39.8	39.6
5°	52.8	51.6	49.6	44.6	40.5	37.3	35.5	34.8
7.5°	56.6	54.6	51.6	43.9	37.8	33.9	31.8	30.9
10°	59.8	57.3	53.5	43.0	35.5	30.9	28.4	27.8
12.5°	62.3	59.4	54.6	41.6	33.2	28.2	25.7	25.0
15°	63.9	60.7	55.3	40.0	30.9	25.9	23.4	22.5
17.5°	64.6	60.7	55.0	38.4	28.9	23.9	21.4	20.7
20°	64.6	60.3	54.4	36.6	26.8	21.8	19.6	18.9
22.5°	63.9	59.4	52.8	34.6	25.0	20.2	18.0	17.3
25°	62.6	57.5	51.0	32.8	23.2	18.7	16.6	16.1
27.5°	60.5	55.5	48.7	30.9	21.6	17.3	15.5	15.0
30°	58.0	53.0	46.2	28.7	20.0	16.1	14.6	13.9
32.5°	54.8	50.0	43.4	26.8	18.7	15.0	13.6	13.2
35°	51.4	47.1	40.5	25.0	17.3	14.1	12.7	12.3
37.5°	48.0	43.4	38.0	23.0	16.1	13.2	12.1	11.6
40°	44.4	40.9	35.3	21.2	15.2	12.5	11.4	11.1
42.5°	40.7	37.1	31.4	19.6	14.1	11.6	10.7	10.5
45°	36.4	33.0	28.4	17.7	13.2	11.1	10.2	10.0
47.5°	32.8	29.6	25.5	16.1	12.3	10.5	9.6	9.3
50°	29.3	26.2	22.3	14.3	11.4	9.8	9.1	8.6
52.5°	25.5	22.7	19.3	12.7	10.5	9.1	8.4	8.2
55°	22.1	19.3	16.1	11.4	9.6	8.6	7.7	7.5
57.5°	18.2	15.9	13.6	10.0	8.6	7.7	7.3	6.8
60°	14.8	13.2	11.6	8.9	7.7	7.3	6.6	6.4
62.5°	12.1	10.9	9.8	7.7	6.8	6.4	5.9	5.5
65°	9.6	8.9	8.0	6.6	5.9	5.7	5.2	4.8
67.5°	7.5	7.1	6.4	5.2	5.0	4.8	4.3	3.9
70°	5.7	5.5	5.0	4.1	3.9	4.1	3.6	3.2
72.5°	4.1	3.9	3.6	3.0	3.0	3.0	2.7	2.3
75°	2.7	2.5	2.3	2.0	2.0	2.0	2.0	1.8
77.5°	1.6	1.6	1.4	1.1	1.4	1.4	1.6	1.6
80°	0.7	0.7	0.7	0.7	0.9	0.9	1.1	1.1
82.5°	0.5	0.5	0.5	0.5	0.7	0.7	0.7	0.7
85°	0.2	0.2	0.2	0.2	0.2	0.5	0.5	0.5
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)