

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: P1312177

Luminaire Tested: LDSQA3D02R709050DE010 3LSQCLSWWR 1MW

Issue Date: 1/29/2026

**Test Information**

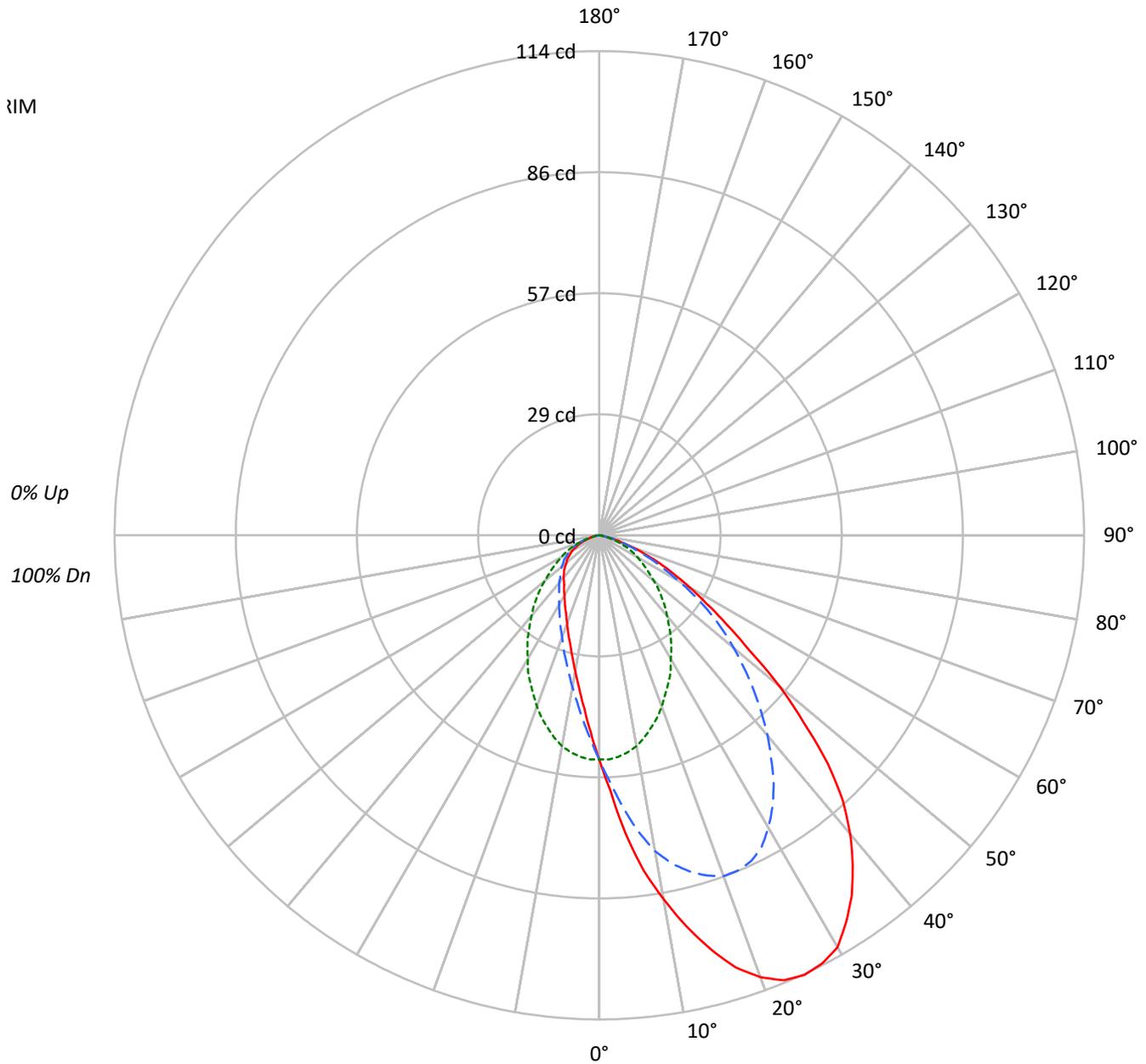
Test Method: LM-79-2019  
Report Number: P1312177  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-71)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D02R709050DE010 3LSQCLSWWWR 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 5000K CCT AND, 90CRI , 3LSQCLSWWWR 1MW TF  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 129.0 lumens  
Efficiency: N/A  
Efficacy: 35.8 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 (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



— 0°-180°    - - 45°-225°    - - - 90°-270°



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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	90	90	90	88
2	102	95	89	84	100	93	88	83	90	85	82	87	83	80	84	81	78	78	78	78	76
3	94	85	78	72	92	83	77	72	81	75	70	78	73	69	75	71	68	68	68	68	66
4	87	76	68	62	85	75	68	62	73	66	61	70	65	60	68	64	60	60	60	60	58
5	80	69	61	55	78	68	60	54	66	59	54	64	58	53	62	57	53	53	53	53	51
6	75	62	54	48	73	62	54	48	60	53	48	58	52	47	57	51	47	47	47	47	45
7	69	57	49	43	68	56	48	43	55	48	43	53	47	42	52	46	42	42	42	42	40
8	65	52	44	39	63	52	44	39	50	43	38	49	43	38	48	42	38	38	38	38	36
9	61	48	40	35	59	48	40	35	46	40	35	45	39	35	44	39	35	35	35	35	33
10	57	44	37	32	56	44	37	32	43	36	32	42	36	32	41	36	32	32	32	32	30

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

	0°	45°	90°	135°	180°
0°	9093	9093	9093	9093	9093
5°	12171	11116	9042	7555	7054
10°	15215	13203	8814	6348	5684
15°	17972	14603	8362	5420	4707
20°	20289	15652	7863	4692	4050
25°	21701	16076	7297	4162	3592
30°	22273	15810	6682	3759	3242
35°	21760	15033	6160	3469	3028
40°	20639	13849	5576	3305	2945
45°	18511	12470	5066	3191	2850
50°	14870	11066	4501	3081	2706
55°	10960	9518	3993	3033	2642
60°	8439	7440	3582	2928	2583
65°	6398	5542	3138	2730	2282
70°	4280	3877	2417	2417	1863
75°	2329	2329	1597	1597	1397
80°	496	1091	793	1091	1289
85°	0	593	593	988	988

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 18511 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	5.2	4.0
10°-20°	15.8	12.3
20°-30°	24.4	18.9
30°-40°	27.7	21.5
40°-50°	25.1	19.4
50°-60°	17.5	13.6
60°-70°	9.6	7.5
70°-80°	3.2	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°	45.4	35.2
0°-40°	73.1	56.7
0°-60°	115.7	89.7
0°-90°	129.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	129.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	53	53	53	53	53	
5°	70	64	52	44	41	7
15°	101	82	47	30	26	29
25°	114	85	38	22	19	52
35°	104	72	29	16	14	64
45°	76	51	21	13	12	58
55°	36	32	13	10	9	34
65°	16	14	8	7	6	16
75°	4	4	2	2	2	4
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°	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
2.5°	60.3	60.8	61.1	60.6	60.3	60.0	59.5	59.2	58.7	58.2	57.9
5°	70.4	70.4	70.4	69.9	69.1	68.6	67.5	66.7	65.4	64.3	63.2
7.5°	79.5	79.5	79.2	78.4	77.9	76.6	75.2	74.2	72.0	70.4	68.3
10°	87.0	87.0	86.7	85.4	84.6	83.0	81.6	79.8	77.6	75.5	73.1
12.5°	94.2	94.2	93.1	92.0	90.4	88.3	86.4	84.6	81.6	79.2	76.3
15°	100.8	100.8	100.3	98.4	96.3	93.9	91.2	88.6	85.1	81.9	78.7
17.5°	106.7	106.4	105.6	103.5	101.4	98.4	95.2	92.0	87.8	84.0	80.0
20°	110.7	110.7	109.6	107.2	104.8	101.6	98.2	94.4	89.9	85.4	80.6
22.5°	113.4	113.1	112.0	109.6	106.7	103.5	99.5	95.5	90.4	85.4	80.3
25°	114.2	113.9	112.8	110.2	107.2	103.8	99.5	95.2	89.9	84.6	79.0
27.5°	113.6	113.4	112.3	109.4	106.4	102.4	98.2	93.6	88.3	82.7	77.1
30°	112.0	111.2	110.2	107.5	104.3	100.3	95.8	90.7	85.4	79.5	73.9
32.5°	108.0	108.0	106.7	104.0	100.8	96.6	92.0	87.2	81.4	75.8	69.9
35°	103.5	103.2	102.2	99.2	96.3	92.3	87.8	82.7	77.1	71.5	65.9
37.5°	97.9	97.6	96.6	93.9	90.7	87.0	82.2	77.4	72.0	66.4	61.4
40°	91.8	91.2	89.9	87.8	85.1	80.8	76.6	71.8	66.7	61.6	56.6
42.5°	84.8	84.3	83.2	81.6	78.4	74.7	70.7	66.2	61.4	56.3	52.5
45°	76.0	76.0	75.5	73.9	71.5	68.6	64.3	60.3	55.8	51.2	47.2
47.5°	65.1	65.6	65.4	64.6	63.5	60.8	57.9	54.4	50.1	46.1	42.4
50°	55.5	55.8	56.0	55.5	54.7	52.8	50.9	48.8	45.1	41.3	37.9
52.5°	44.5	45.3	45.3	45.6	45.6	45.1	44.5	42.1	40.3	36.5	33.3
55°	36.5	36.5	36.5	37.1	37.3	37.6	37.1	36.5	34.4	31.7	28.8
57.5°	29.9	29.9	30.4	30.1	30.1	30.7	30.7	30.4	29.1	26.7	24.0
60°	24.5	24.5	24.5	24.5	24.8	24.8	24.8	24.8	23.7	21.6	19.5
62.5°	19.7	19.7	19.7	20.0	20.0	20.0	20.3	20.0	18.9	17.3	15.5
65°	15.7	15.5	15.7	15.7	16.0	16.0	16.0	15.7	14.7	13.6	12.3
67.5°	11.7	12.0	12.0	12.0	12.3	12.5	12.3	12.0	11.2	10.1	9.6
70°	8.5	8.8	8.8	8.8	9.1	9.3	9.1	8.8	8.3	7.7	7.2
72.5°	5.6	5.9	5.9	6.1	6.4	6.4	6.1	6.1	5.9	5.3	5.1
75°	3.5	3.5	3.7	3.7	4.0	4.0	4.0	3.7	3.7	3.5	3.5
77.5°	1.6	1.6	1.9	1.9	1.9	2.1	2.1	2.1	2.1	2.1	1.9
80°	0.5	0.5	0.5	0.5	0.5	0.8	0.8	0.8	1.1	1.1	1.1
82.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3
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°	52.8	52.8	52.8	52.8	52.8	52.8	52.8	52.8
2.5°	57.4	56.6	55.5	52.8	50.1	48.0	46.7	46.4
5°	61.9	60.6	58.2	52.3	47.5	43.7	41.6	40.8
7.5°	66.4	64.0	60.6	51.5	44.3	39.7	37.3	36.3
10°	70.2	67.2	62.7	50.4	41.6	36.3	33.3	32.5
12.5°	73.1	69.6	64.0	48.8	38.9	33.1	30.1	29.3
15°	75.0	71.2	64.8	46.9	36.3	30.4	27.5	26.4
17.5°	75.8	71.2	64.6	45.1	33.9	28.0	25.1	24.3
20°	75.8	70.7	63.8	42.9	31.5	25.6	22.9	22.1
22.5°	75.0	69.6	61.9	40.5	29.3	23.7	21.1	20.3
25°	73.4	67.5	59.8	38.4	27.2	21.9	19.5	18.9
27.5°	71.0	65.1	57.1	36.3	25.3	20.3	18.1	17.6
30°	68.0	62.2	54.1	33.6	23.5	18.9	17.1	16.3
32.5°	64.3	58.7	50.9	31.5	21.9	17.6	16.0	15.5
35°	60.3	55.2	47.5	29.3	20.3	16.5	14.9	14.4
37.5°	56.3	50.9	44.5	26.9	18.9	15.5	14.1	13.6
40°	52.0	48.0	41.3	24.8	17.9	14.7	13.3	13.1
42.5°	47.7	43.5	36.8	22.9	16.5	13.6	12.5	12.3
45°	42.7	38.7	33.3	20.8	15.5	13.1	12.0	11.7
47.5°	38.4	34.7	29.9	18.9	14.4	12.3	11.2	10.9
50°	34.4	30.7	26.1	16.8	13.3	11.5	10.7	10.1
52.5°	29.9	26.7	22.7	14.9	12.3	10.7	9.9	9.6
55°	25.9	22.7	18.9	13.3	11.2	10.1	9.1	8.8
57.5°	21.3	18.7	16.0	11.7	10.1	9.1	8.5	8.0
60°	17.3	15.5	13.6	10.4	9.1	8.5	7.7	7.5
62.5°	14.1	12.8	11.5	9.1	8.0	7.5	6.9	6.4
65°	11.2	10.4	9.3	7.7	6.9	6.7	6.1	5.6
67.5°	8.8	8.3	7.5	6.1	5.9	5.6	5.1	4.5
70°	6.7	6.4	5.9	4.8	4.5	4.8	4.3	3.7
72.5°	4.8	4.5	4.3	3.5	3.5	3.5	3.2	2.7
75°	3.2	2.9	2.7	2.4	2.4	2.4	2.4	2.1
77.5°	1.9	1.9	1.6	1.3	1.6	1.6	1.9	1.9
80°	0.8	0.8	0.8	0.8	1.1	1.1	1.3	1.3
82.5°	0.5	0.5	0.5	0.5	0.8	0.8	0.8	0.8
85°	0.3	0.3	0.3	0.3	0.3	0.5	0.5	0.5
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)