

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: P1319613

Luminaire Tested: LDSQA3D20R709835D010 3LSQCLSWWR 1MW

Issue Date: 1/29/2026

**Test Information**

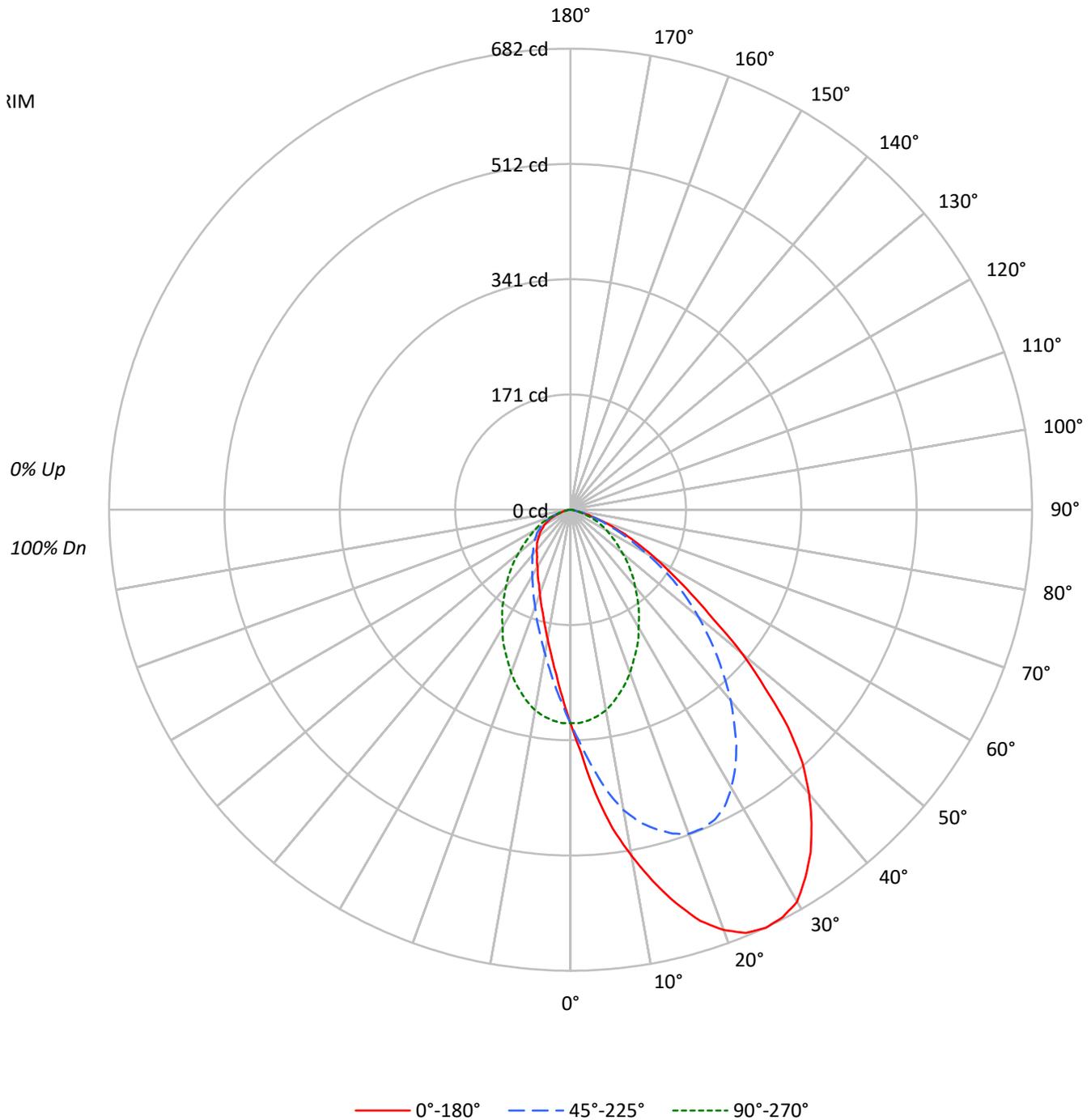
Test Method: LM-79-2019  
Report Number: P1319613  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-71)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R709835D010 3LSQCLSWWR 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 98CRI , 3LSQCLSWWR 1MW TF  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 771.0 lumens  
Efficiency: N/A  
Efficacy: 28.1 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): 27.4  
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	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°	54371	54371	54371	54371	54371
5°	72765	66421	54025	45208	42166
10°	90885	78906	52691	37914	34014
15°	107442	87259	50030	32397	28135
20°	121255	93507	47047	28059	24247
25°	129674	96039	43630	24836	21511
30°	133160	94481	39952	22512	19350
35°	130058	89838	36877	20772	18102
40°	123292	82801	33341	19717	17558
45°	110673	74554	30299	19022	17074
50°	88846	66206	26900	18380	16237
55°	65577	56960	23931	18196	15794
60°	50530	44468	21424	17567	15362
65°	38347	33131	18827	16260	13652
70°	25681	23264	14452	14452	11229
75°	13774	13774	9515	9515	8517
80°	3174	6347	4761	6347	7934
85°	0	3162	3162	6323	6323

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 110673 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.1	4.0
10°-20°	94.6	12.3
20°-30°	145.9	18.9
30°-40°	165.5	21.5
40°-50°	149.8	19.4
50°-60°	104.7	13.6
60°-70°	57.6	7.5
70°-80°	19.3	2.5
80°-90°	2.6	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°	271.6	35.2
0°-40°	437.1	56.7
0°-60°	691.6	89.7
0°-90°	771.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	771.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	316	316	316	316	316	
5°	421	384	312	262	244	43
15°	603	489	281	182	158	172
25°	682	505	230	131	113	313
35°	619	427	175	99	86	385
45°	454	306	124	78	70	344
55°	218	190	80	61	53	201
65°	94	81	46	40	34	94
75°	21	21	14	14	13	24
85°	0	2	2	3	3	1
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°	315.7	315.7	315.7	315.7	315.7	315.7	315.7	315.7	315.7	315.7	315.7
2.5°	360.3	363.5	365.1	361.9	360.3	358.7	355.5	353.9	350.7	347.6	346.0
5°	420.9	420.9	420.9	417.7	412.9	409.7	403.4	398.6	390.6	384.2	377.8
7.5°	475.1	475.1	473.5	468.7	465.5	457.6	449.6	443.2	430.5	420.9	408.1
10°	519.7	519.7	518.1	510.2	505.4	495.8	487.9	476.7	463.9	451.2	436.8
12.5°	562.8	562.8	556.4	550.0	540.5	527.7	516.5	505.4	487.9	473.5	456.0
15°	602.6	602.6	599.5	588.3	575.5	561.2	545.2	529.3	508.6	489.4	470.3
17.5°	637.7	636.1	631.3	618.6	605.8	588.3	569.2	550.0	524.5	502.2	478.3
20°	661.6	661.6	655.3	640.9	626.6	607.4	586.7	564.4	537.3	510.2	481.5
22.5°	677.6	676.0	669.6	655.3	637.7	618.6	594.7	570.8	540.5	510.2	479.9
25°	682.4	680.8	674.4	658.4	640.9	620.2	594.7	569.2	537.3	505.4	471.9
27.5°	679.2	677.6	671.2	653.7	636.1	612.2	586.7	559.6	527.7	494.2	460.7
30°	669.6	664.8	658.4	642.5	623.4	599.5	572.3	542.1	510.2	475.1	441.6
32.5°	645.7	645.7	637.7	621.8	602.6	577.1	550.0	521.3	486.3	452.8	417.7
35°	618.6	617.0	610.6	593.1	575.5	551.6	524.5	494.2	460.7	427.3	393.8
37.5°	585.1	583.5	577.1	561.2	542.1	519.7	491.0	462.3	430.5	397.0	366.7
40°	548.4	545.2	537.3	524.5	508.6	483.1	457.6	428.9	398.6	368.3	338.0
42.5°	507.0	503.8	497.4	487.9	468.7	446.4	422.5	395.4	366.7	336.4	314.1
45°	454.4	454.4	451.2	441.6	427.3	409.7	384.2	360.3	333.2	306.1	282.2
47.5°	389.0	392.2	390.6	385.8	379.4	363.5	346.0	325.2	299.7	275.8	253.5
50°	331.6	333.2	334.8	331.6	326.8	315.7	304.5	291.8	269.4	247.1	226.4
52.5°	266.2	271.0	271.0	272.6	272.6	269.4	266.2	251.9	240.7	218.4	199.3
55°	218.4	218.4	218.4	221.6	223.2	224.8	221.6	218.4	205.7	189.7	172.2
57.5°	178.6	178.6	181.7	180.2	180.2	183.3	183.3	181.7	173.8	159.4	143.5
60°	146.7	146.7	146.7	146.7	148.3	148.3	148.3	148.3	141.9	129.1	116.4
62.5°	118.0	118.0	118.0	119.6	119.6	119.6	121.2	119.6	113.2	103.6	92.5
65°	94.1	92.5	94.1	94.1	95.7	95.7	95.7	94.1	87.7	81.3	73.3
67.5°	70.1	71.7	71.7	71.7	73.3	74.9	73.3	71.7	67.0	60.6	57.4
70°	51.0	52.6	52.6	52.6	54.2	55.8	54.2	52.6	49.4	46.2	43.0
72.5°	33.5	35.1	35.1	36.7	38.3	38.3	36.7	36.7	35.1	31.9	30.3
75°	20.7	20.7	22.3	22.3	23.9	23.9	23.9	22.3	22.3	20.7	20.7
77.5°	9.6	9.6	11.2	11.2	11.2	12.8	12.8	12.8	12.8	12.8	11.2
80°	3.2	3.2	3.2	3.2	3.2	4.8	4.8	4.8	6.4	6.4	6.4
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	3.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6
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°	315.7	315.7	315.7	315.7	315.7	315.7	315.7	315.7
2.5°	342.8	338.0	331.6	315.7	299.7	287.0	279.0	277.4
5°	369.9	361.9	347.6	312.5	283.8	261.5	248.7	243.9
7.5°	397.0	382.6	361.9	307.7	264.7	237.5	223.2	216.8
10°	419.3	401.8	374.7	301.3	248.7	216.8	199.3	194.5
12.5°	436.8	416.1	382.6	291.8	232.8	197.7	180.2	175.4
15°	448.0	425.7	387.4	280.6	216.8	181.7	164.2	157.8
17.5°	452.8	425.7	385.8	269.4	202.5	167.4	149.9	145.1
20°	452.8	422.5	381.0	256.7	188.1	153.1	137.1	132.3
22.5°	448.0	416.1	369.9	242.3	175.4	141.9	125.9	121.2
25°	438.4	403.4	357.1	229.6	162.6	130.7	116.4	113.2
27.5°	424.1	389.0	341.2	216.8	151.5	121.2	108.4	105.2
30°	406.5	371.5	323.6	200.9	140.3	113.2	102.0	97.3
32.5°	384.2	350.7	304.5	188.1	130.7	105.2	95.7	92.5
35°	360.3	330.0	283.8	175.4	121.2	98.8	89.3	86.1
37.5°	336.4	304.5	266.2	161.0	113.2	92.5	84.5	81.3
40°	310.9	287.0	247.1	148.3	106.8	87.7	79.7	78.1
42.5°	285.4	259.9	220.0	137.1	98.8	81.3	74.9	73.3
45°	255.1	231.2	199.3	124.4	92.5	78.1	71.7	70.1
47.5°	229.6	207.3	178.6	113.2	86.1	73.3	67.0	65.4
50°	205.7	183.3	156.2	100.4	79.7	68.6	63.8	60.6
52.5°	178.6	159.4	135.5	89.3	73.3	63.8	59.0	57.4
55°	154.6	135.5	113.2	79.7	67.0	60.6	54.2	52.6
57.5°	127.5	111.6	95.7	70.1	60.6	54.2	51.0	47.8
60°	103.6	92.5	81.3	62.2	54.2	51.0	46.2	44.6
62.5°	84.5	76.5	68.6	54.2	47.8	44.6	41.5	38.3
65°	67.0	62.2	55.8	46.2	41.5	39.9	36.7	33.5
67.5°	52.6	49.4	44.6	36.7	35.1	33.5	30.3	27.1
70°	39.9	38.3	35.1	28.7	27.1	28.7	25.5	22.3
72.5°	28.7	27.1	25.5	20.7	20.7	20.7	19.1	15.9
75°	19.1	17.5	15.9	14.3	14.3	14.3	14.3	12.8
77.5°	11.2	11.2	9.6	8.0	9.6	9.6	11.2	11.2
80°	4.8	4.8	4.8	4.8	6.4	6.4	8.0	8.0
82.5°	3.2	3.2	3.2	3.2	4.8	4.8	4.8	4.8
85°	1.6	1.6	1.6	1.6	1.6	3.2	3.2	3.2
87.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)