

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: P1320489

Luminaire Tested: LDSQA3D20R709840D010 3LSQCLSWWR 1MW

Issue Date: 1/29/2026

**Test Information**

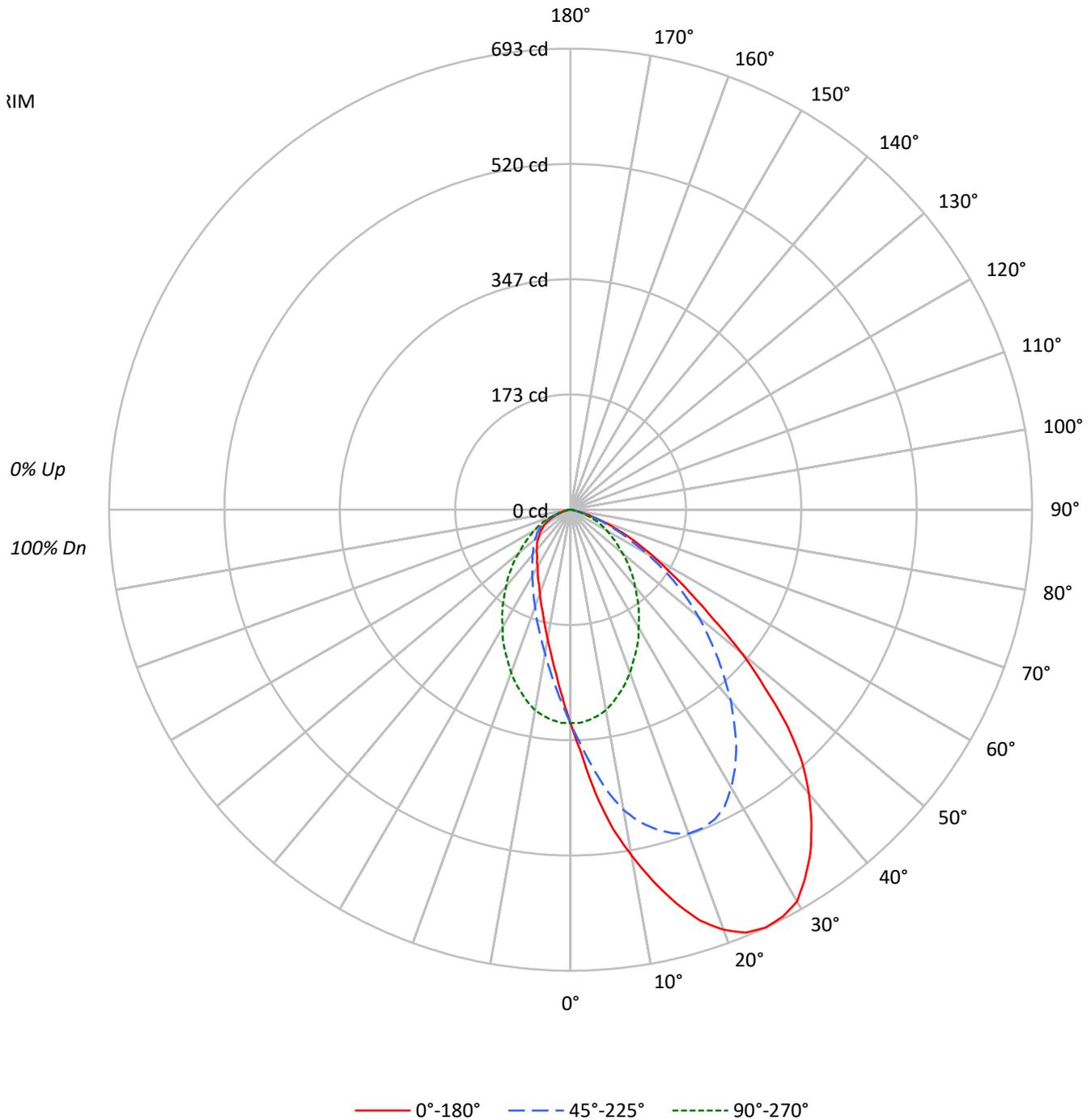
Test Method: LM-79-2019  
Report Number: P1320489  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-71)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D20R709840D010 3LSQCLSWWR 1MW  
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 98CRI , 3LSQCLSWWR 1MW TF  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 783.0 lumens  
Efficiency: N/A  
Efficacy: 28.6 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): 27.4  
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
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°	55215	55215	55215	55215	55215
5°	73889	67458	54855	45900	42823
10°	92301	80130	53513	38508	34539
15°	109118	88632	50815	32914	28581
20°	123143	94955	47780	28481	24632
25°	131688	97541	44314	25236	21853
30°	135229	95953	40569	22870	19648
35°	132076	91225	37445	21109	18375
40°	125225	84083	33858	20032	17828
45°	112378	75723	30762	19314	17341
50°	90239	67251	27329	18648	16478
55°	66598	57860	24321	18466	16034
60°	51322	45157	21734	17842	15603
65°	38918	33661	19153	16504	13855
70°	26084	23667	14653	14653	11430
75°	13974	13974	9715	9715	8650
80°	3174	6447	4860	6447	8034
85°	0	3162	3162	6323	6323

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 112378 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	31.6	4.0
10°-20°	96.1	12.3
20°-30°	148.1	18.9
30°-40°	168.1	21.5
40°-50°	152.1	19.4
50°-60°	106.4	13.6
60°-70°	58.5	7.5
70°-80°	19.5	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°	275.9	35.2
0°-40°	443.9	56.7
0°-60°	702.4	89.7
0°-90°	783.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	783.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	321	321	321	321	321	
5°	427	390	317	266	248	44
15°	612	497	285	185	160	174
25°	693	513	233	133	115	318
35°	628	434	178	100	87	391
45°	461	311	126	79	71	350
55°	222	193	81	62	53	204
65°	96	83	47	40	34	95
75°	21	21	15	15	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°	320.6	320.6	320.6	320.6	320.6	320.6	320.6	320.6	320.6	320.6	320.6
2.5°	365.9	369.2	370.8	367.5	365.9	364.3	361.1	359.4	356.2	353.0	351.3
5°	427.4	427.4	427.4	424.2	419.3	416.1	409.6	404.8	396.7	390.2	383.7
7.5°	482.5	482.5	480.9	476.0	472.8	464.7	456.6	450.1	437.2	427.4	414.5
10°	527.8	527.8	526.2	518.1	513.3	503.5	495.4	484.1	471.2	458.2	443.6
12.5°	571.5	571.5	565.1	558.6	548.9	535.9	524.6	513.3	495.4	480.9	463.1
15°	612.0	612.0	608.8	597.4	584.5	569.9	553.7	537.5	516.5	497.1	477.6
17.5°	647.6	646.0	641.2	628.2	615.3	597.4	578.0	558.6	532.7	510.0	485.7
20°	671.9	671.9	665.5	650.9	636.3	616.9	595.8	573.2	545.6	518.1	489.0
22.5°	688.1	686.5	680.0	665.5	647.6	628.2	603.9	579.6	548.9	518.1	487.3
25°	693.0	691.4	684.9	668.7	650.9	629.8	603.9	578.0	545.6	513.3	479.3
27.5°	689.7	688.1	681.6	663.8	646.0	621.7	595.8	568.3	535.9	501.9	467.9
30°	680.0	675.2	668.7	652.5	633.1	608.8	581.3	550.5	518.1	482.5	448.5
32.5°	655.7	655.7	647.6	631.4	612.0	586.1	558.6	529.4	493.8	459.8	424.2
35°	628.2	626.6	620.1	602.3	584.5	560.2	532.7	501.9	467.9	433.9	399.9
37.5°	594.2	592.6	586.1	569.9	550.5	527.8	498.7	469.5	437.2	403.2	372.4
40°	557.0	553.7	545.6	532.7	516.5	490.6	464.7	435.5	404.8	374.0	343.2
42.5°	514.9	511.6	505.2	495.4	476.0	453.3	429.1	401.5	372.4	341.6	319.0
45°	461.4	461.4	458.2	448.5	433.9	416.1	390.2	365.9	338.4	310.9	286.6
47.5°	395.1	398.3	396.7	391.8	385.3	369.2	351.3	330.3	304.4	280.1	257.4
50°	336.8	338.4	340.0	336.8	331.9	320.6	309.2	296.3	273.6	251.0	229.9
52.5°	270.4	275.2	275.2	276.9	276.9	273.6	270.4	255.8	244.5	221.8	202.4
55°	221.8	221.8	221.8	225.1	226.7	228.3	225.1	221.8	208.9	192.7	174.9
57.5°	181.3	181.3	184.6	183.0	183.0	186.2	186.2	184.6	176.5	161.9	145.7
60°	149.0	149.0	149.0	149.0	150.6	150.6	150.6	150.6	144.1	131.1	118.2
62.5°	119.8	119.8	119.8	121.4	121.4	121.4	123.1	121.4	115.0	105.2	93.9
65°	95.5	93.9	95.5	95.5	97.1	97.1	97.1	95.5	89.1	82.6	74.5
67.5°	71.2	72.9	72.9	72.9	74.5	76.1	74.5	72.9	68.0	61.5	58.3
70°	51.8	53.4	53.4	53.4	55.0	56.7	55.0	53.4	50.2	47.0	43.7
72.5°	34.0	35.6	35.6	37.2	38.9	38.9	37.2	37.2	35.6	32.4	30.8
75°	21.0	21.0	22.7	22.7	24.3	24.3	24.3	22.7	22.7	21.0	21.0
77.5°	9.7	9.7	11.3	11.3	11.3	13.0	13.0	13.0	13.0	13.0	11.3
80°	3.2	3.2	3.2	3.2	3.2	4.9	4.9	4.9	6.5	6.5	6.5
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°	320.6	320.6	320.6	320.6	320.6	320.6	320.6	320.6
2.5°	348.1	343.2	336.8	320.6	304.4	291.4	283.3	281.7
5°	375.6	367.5	353.0	317.3	288.2	265.5	252.6	247.7
7.5°	403.2	388.6	367.5	312.5	268.8	241.2	226.7	220.2
10°	425.8	408.0	380.5	306.0	252.6	220.2	202.4	197.5
12.5°	443.6	422.6	388.6	296.3	236.4	200.8	183.0	178.1
15°	455.0	432.3	393.4	285.0	220.2	184.6	166.8	160.3
17.5°	459.8	432.3	391.8	273.6	205.6	170.0	152.2	147.3
20°	459.8	429.1	387.0	260.7	191.1	155.4	139.2	134.4
22.5°	455.0	422.6	375.6	246.1	178.1	144.1	127.9	123.1
25°	445.3	409.6	362.7	233.2	165.1	132.8	118.2	115.0
27.5°	430.7	395.1	346.5	220.2	153.8	123.1	110.1	106.9
30°	412.9	377.3	328.7	204.0	142.5	115.0	103.6	98.8
32.5°	390.2	356.2	309.2	191.1	132.8	106.9	97.1	93.9
35°	365.9	335.2	288.2	178.1	123.1	100.4	90.7	87.4
37.5°	341.6	309.2	270.4	163.5	115.0	93.9	85.8	82.6
40°	315.7	291.4	251.0	150.6	108.5	89.1	81.0	79.3
42.5°	289.8	263.9	223.4	139.2	100.4	82.6	76.1	74.5
45°	259.1	234.8	202.4	126.3	93.9	79.3	72.9	71.2
47.5°	233.2	210.5	181.3	115.0	87.4	74.5	68.0	66.4
50°	208.9	186.2	158.7	102.0	81.0	69.6	64.8	61.5
52.5°	181.3	161.9	137.6	90.7	74.5	64.8	59.9	58.3
55°	157.1	137.6	115.0	81.0	68.0	61.5	55.0	53.4
57.5°	129.5	113.3	97.1	71.2	61.5	55.0	51.8	48.6
60°	105.2	93.9	82.6	63.1	55.0	51.8	47.0	45.3
62.5°	85.8	77.7	69.6	55.0	48.6	45.3	42.1	38.9
65°	68.0	63.1	56.7	47.0	42.1	40.5	37.2	34.0
67.5°	53.4	50.2	45.3	37.2	35.6	34.0	30.8	27.5
70°	40.5	38.9	35.6	29.1	27.5	29.1	25.9	22.7
72.5°	29.1	27.5	25.9	21.0	21.0	21.0	19.4	16.2
75°	19.4	17.8	16.2	14.6	14.6	14.6	14.6	13.0
77.5°	11.3	11.3	9.7	8.1	9.7	9.7	11.3	11.3
80°	4.9	4.9	4.9	4.9	6.5	6.5	8.1	8.1
82.5°	3.2	3.2	3.2	3.2	4.9	4.9	4.9	4.9
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)