

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: P1306886

Luminaire Tested: LDSQA3D05R559024DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

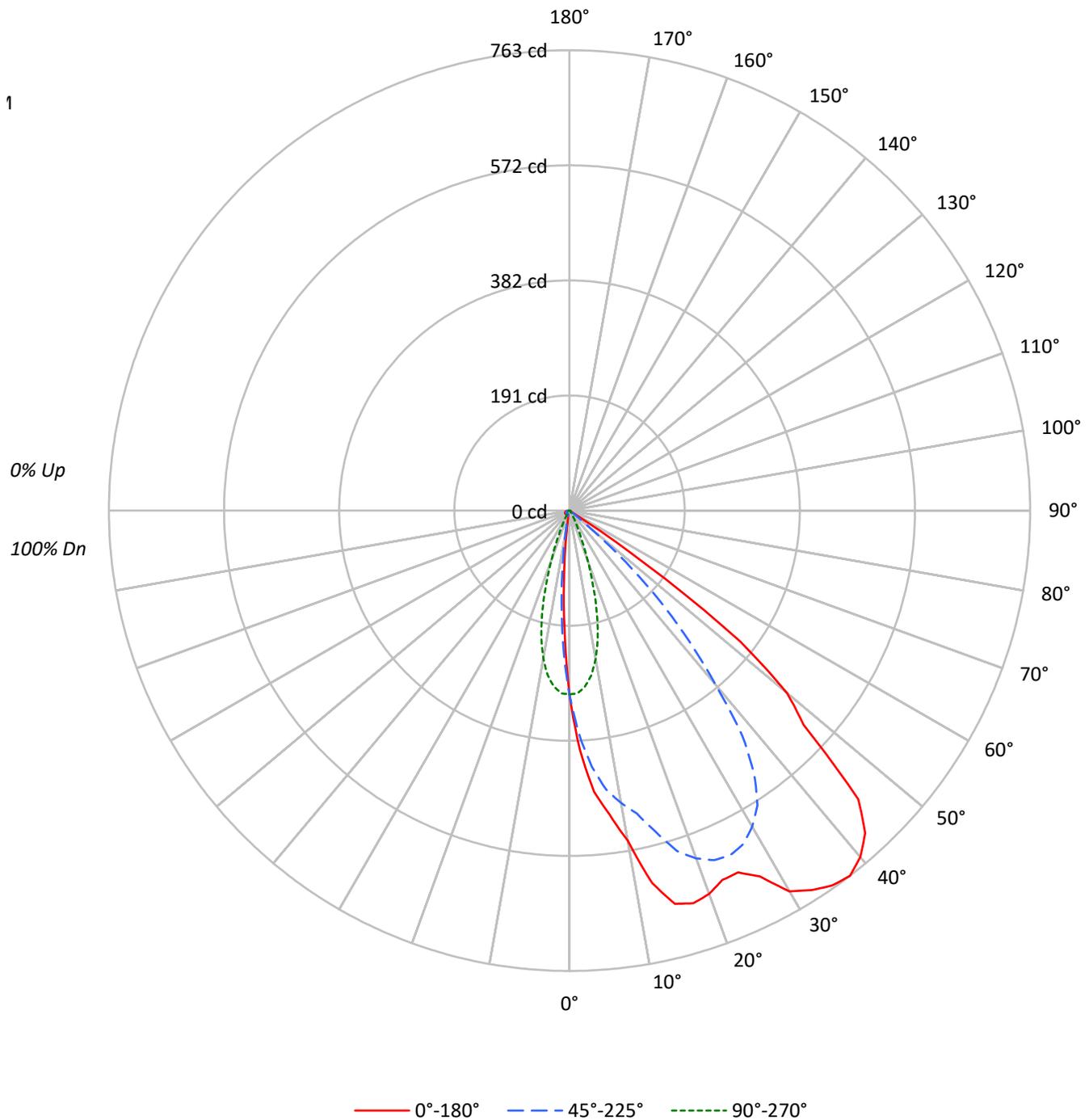
Test Method: LM-79-2019  
Report Number: P1306886  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-66)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R559024DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R55 optic, 2400K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 508.0 lumens  
Efficiency: N/A  
Efficacy: 70.6 lumens/watt  
Spacing Criteria (0/90/45): 1.79 / 0.55 / 1.22  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 7.2  
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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91	91	91	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	81	81	81	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73	73	73	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65	65	65	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59	59	59	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53	53	53	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48	48	48	48
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	44	44	44	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40	40	40	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37	37	37	37

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

	0°	45°	90°	135°	180°
0°	52442	52442	52442	52442	52442
5°	80856	73613	50654	26019	17081
10°	97163	86041	43597	6558	2623
15°	120298	98260	31149	1801	1409
20°	123894	112421	16092	1210	1210
25°	125703	119736	6461	1083	1254
30°	144874	120314	2804	1134	1313
35°	159471	112166	1198	1198	1493
40°	168458	84420	697	1394	1596
45°	164768	51586	633	1510	1924
50°	126035	10985	697	1768	2251
55°	46240	390	781	1982	2522
60°	448	448	896	2273	2893
65°	530	530	1060	2323	3056
70°	453	655	1108	2669	3575
75°	266	599	1198	2928	4126
80°	397	893	1289	3075	4364
85°	0	790	1778	3557	4347

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 164768 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	26.8	5.3
10°-20°	76.8	15.1
20°-30°	117.8	23.2
30°-40°	137.2	27.0
40°-50°	109.6	21.6
50°-60°	32.4	6.4
60°-70°	3.5	0.7
70°-80°	2.7	0.5
80°-90°	1.2	0.2
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°	221.3	43.6
0°-40°	358.5	70.6
0°-60°	500.6	98.6
0°-90°	508.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	508.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	304	304	304	304	304	
5°	468	426	293	150	99	47
15°	675	551	175	10	8	186
25°	662	630	34	6	7	314
35°	758	534	6	6	7	472
45°	676	212	3	6	8	488
55°	154	1	3	7	8	163
65°	1	1	3	6	8	1
75°	0	1	2	4	6	1
85°	0	0	1	2	2	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°	304.5	304.5	304.5	304.5	304.5	304.5	304.5	304.5	304.5	304.5	304.5
2.5°	397.1	397.1	395.8	396.3	395.4	390.5	389.6	383.5	378.2	372.4	367.6
5°	467.7	468.6	467.3	464.7	461.1	457.6	450.1	444.4	436.9	425.8	415.7
7.5°	507.9	507.0	504.8	503.9	501.7	497.8	492.5	486.3	477.5	466.4	454.5
10°	555.6	548.1	545.9	542.3	535.3	527.3	518.1	509.7	502.2	492.0	479.2
12.5°	632.3	631.0	622.2	615.6	605.9	588.2	572.3	553.8	531.7	514.1	497.3
15°	674.7	675.6	671.6	666.3	660.1	645.6	629.7	608.1	582.0	551.1	523.8
17.5°	682.2	683.5	681.3	679.1	677.4	669.0	659.3	643.8	620.0	591.3	550.7
20°	676.0	678.7	679.1	681.8	685.3	681.8	673.8	663.2	643.4	613.4	574.5
22.5°	662.3	667.2	670.7	680.0	689.3	689.3	684.4	676.0	656.6	627.0	587.3
25°	661.5	662.3	663.7	678.7	693.2	696.3	691.9	683.1	661.9	630.1	586.9
27.5°	683.5	677.8	669.0	684.0	701.2	703.8	697.7	685.7	660.6	623.1	571.9
30°	728.5	715.7	697.2	708.2	720.2	717.1	704.7	685.7	651.8	605.0	543.6
32.5°	745.7	738.7	732.1	744.0	746.2	733.4	711.3	683.1	637.6	579.4	497.3
35°	758.5	759.0	756.3	758.5	748.0	729.9	705.6	668.5	611.2	533.5	436.0
37.5°	763.0	763.8	758.1	750.2	734.3	713.5	684.4	642.1	567.0	470.4	343.3
40°	749.3	746.6	737.4	726.3	709.1	687.9	656.2	593.1	501.3	375.5	267.9
42.5°	725.0	720.6	709.6	696.3	678.2	651.3	600.6	524.2	407.3	293.0	187.5
45°	676.5	673.4	659.7	650.0	628.4	593.5	528.2	432.0	315.1	211.8	108.6
47.5°	525.6	526.0	536.6	541.4	533.9	506.1	429.4	328.3	229.9	126.2	36.6
50°	470.4	468.2	457.6	443.0	418.8	377.3	315.1	232.1	135.9	41.0	5.3
52.5°	357.0	357.0	351.7	344.2	318.6	278.4	213.1	128.4	47.7	7.1	1.3
55°	154.0	146.1	150.5	158.9	152.2	132.4	99.7	38.4	8.4	1.3	1.3
57.5°	2.2	5.3	7.9	12.8	17.2	20.7	11.0	4.0	1.3	1.3	1.3
60°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
62.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
65°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
67.5°	0.9	0.9	0.9	1.3	0.9	1.3	1.3	1.3	1.3	1.3	1.3
70°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.3	1.3
72.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
75°	0.4	0.4	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
77.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9	0.9	0.9	0.9
80°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9	0.9
82.5°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.9	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4	0.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.4	0.4	0.4	0.4	0.4
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°	304.5	304.5	304.5	304.5	304.5	304.5	304.5	304.5
2.5°	360.5	353.0	340.7	303.2	264.3	228.6	203.0	193.3
5°	404.2	390.5	369.8	293.0	215.8	150.5	113.4	98.8
7.5°	438.6	421.0	391.0	275.4	158.4	80.3	48.1	37.9
10°	461.6	442.2	402.9	249.3	105.0	37.5	18.1	15.0
12.5°	478.3	454.1	407.3	215.8	61.8	17.2	9.7	8.8
15°	490.7	459.4	402.0	174.7	34.0	10.1	7.9	7.9
17.5°	507.9	462.0	389.2	128.9	19.4	7.5	7.5	7.5
20°	521.1	462.0	364.9	87.8	11.9	6.6	6.6	6.6
22.5°	527.8	455.0	335.4	55.6	8.4	6.2	6.6	6.6
25°	521.1	437.7	297.4	34.0	6.6	5.7	6.2	6.6
27.5°	496.9	403.3	246.7	21.6	5.3	5.7	6.2	6.6
30°	456.3	353.5	189.3	14.1	4.9	5.7	6.2	6.6
32.5°	398.9	279.3	122.7	9.3	4.4	5.7	6.2	6.6
35°	311.5	197.7	74.1	5.7	4.4	5.7	6.6	7.1
37.5°	233.4	131.9	40.2	3.5	4.4	5.7	6.6	7.1
40°	161.9	76.8	17.2	3.1	4.4	6.2	7.1	7.1
42.5°	94.0	30.4	4.4	2.6	4.4	6.2	7.1	7.5
45°	34.4	6.2	1.3	2.6	4.9	6.2	7.1	7.9
47.5°	4.9	1.3	1.3	2.6	4.9	6.2	7.5	7.9
50°	1.3	1.3	1.3	2.6	4.9	6.6	7.9	8.4
52.5°	1.3	1.3	1.3	2.6	4.9	6.6	7.9	8.4
55°	1.3	1.3	1.3	2.6	4.9	6.6	7.9	8.4
57.5°	1.3	1.3	1.3	2.6	4.9	6.6	7.9	8.4
60°	1.3	1.3	1.3	2.6	4.4	6.6	7.9	8.4
62.5°	1.3	1.3	1.3	2.6	4.4	6.2	7.5	7.9
65°	1.3	1.3	1.3	2.6	4.0	5.7	7.5	7.5
67.5°	1.3	1.3	1.3	2.2	4.0	5.7	7.1	7.5
70°	1.3	1.3	1.3	2.2	3.5	5.3	6.6	7.1
72.5°	1.3	1.3	1.3	1.8	3.1	4.9	6.2	6.6
75°	0.9	1.3	1.3	1.8	3.1	4.4	5.7	6.2
77.5°	0.9	1.3	1.3	1.3	2.6	3.5	4.9	5.3
80°	0.9	0.9	1.3	1.3	2.2	3.1	4.0	4.4
82.5°	0.9	0.9	0.9	1.3	1.8	2.2	3.1	3.1
85°	0.9	0.9	0.9	0.9	1.3	1.8	2.2	2.2
87.5°	0.4	0.4	0.9	0.9	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)