

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: P1317243

Luminaire Tested: LDSQA3D05R559827DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

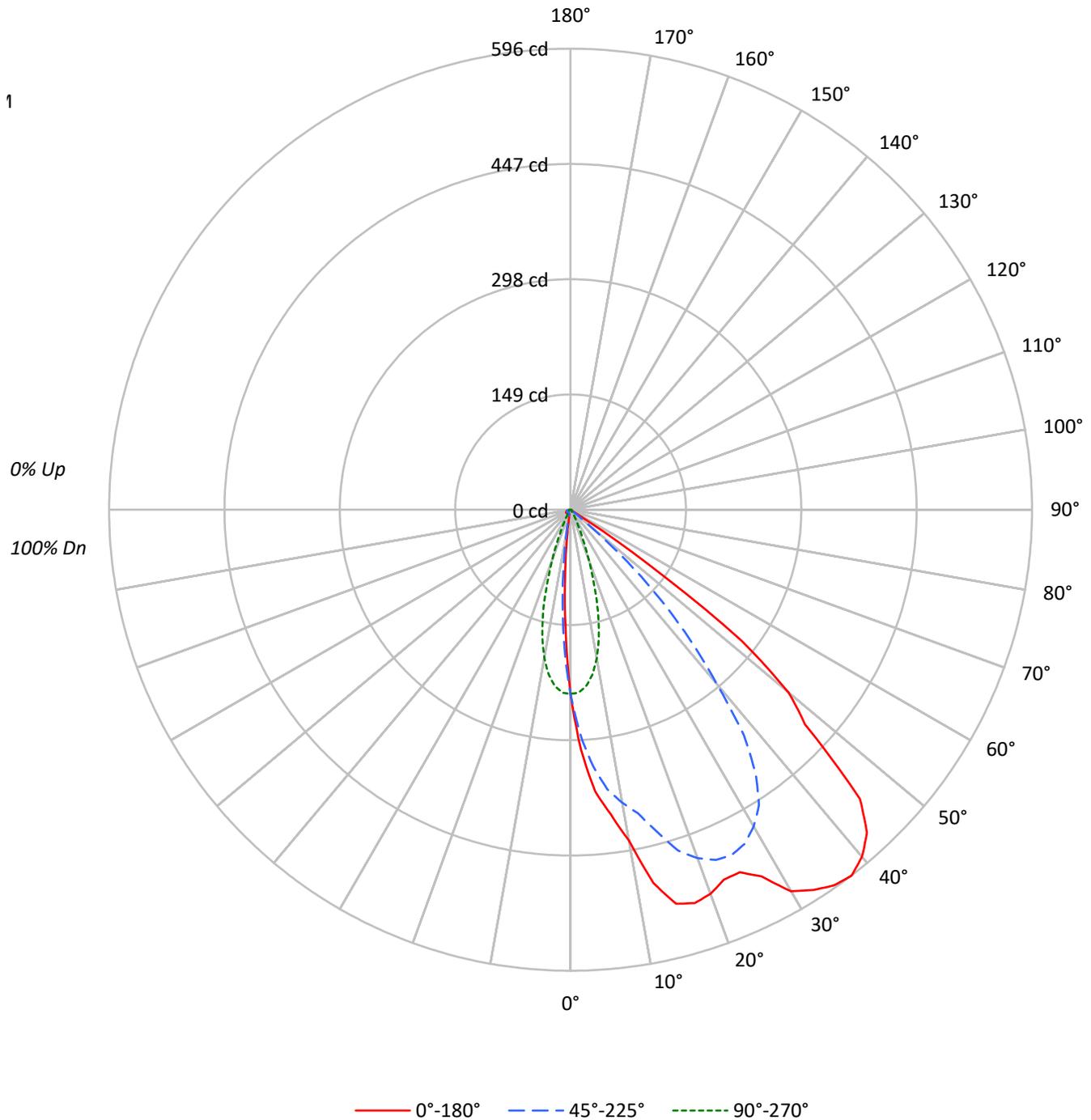
Test Method: LM-79-2019  
Report Number: P1317243  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-66)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R559827DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R55 optic, 2700K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 397.0 lumens  
Efficiency: N/A  
Efficacy: 55.1 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37

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

	0°	45°	90°	135°	180°
0°	40972	40972	40972	40972	40972
5°	63188	57535	39590	20331	13346
10°	75933	67241	34067	5124	2046
15°	94017	76793	24356	1409	1105
20°	96824	87844	12573	953	953
25°	98225	93569	5055	855	988
30°	113234	94024	2188	895	1034
35°	124633	87651	946	946	1156
40°	131655	65985	540	1079	1237
45°	128770	40309	511	1169	1510
50°	98491	8601	563	1393	1768
55°	36151	300	631	1561	1982
60°	344	344	723	1791	2273
65°	408	408	856	1834	2404
70°	352	504	856	2065	2769
75°	200	466	932	2262	3194
80°	298	694	992	2380	3372
85°	0	593	1383	2766	3359

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 128770 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	20.9	5.3
10°-20°	60.0	15.1
20°-30°	92.0	23.2
30°-40°	107.2	27.0
40°-50°	85.7	21.6
50°-60°	25.4	6.4
60°-70°	2.7	0.7
70°-80°	2.1	0.5
80°-90°	0.9	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°	173.0	43.6
0°-40°	280.2	70.6
0°-60°	391.2	98.6
0°-90°	397.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	397.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	238	238	238	238	238	
5°	366	333	229	118	77	36
15°	527	431	137	8	6	146
25°	517	492	27	4	5	246
35°	593	417	4	4	6	369
45°	529	166	2	5	6	381
55°	120	1	2	5	7	127
65°	1	1	2	4	6	1
75°	0	1	1	3	5	0
85°	0	0	1	1	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°	237.9	237.9	237.9	237.9	237.9	237.9	237.9	237.9	237.9	237.9	237.9
2.5°	310.4	310.4	309.3	309.7	309.0	305.2	304.5	299.7	295.5	291.1	287.3
5°	365.5	366.2	365.2	363.1	360.4	357.6	351.7	347.3	341.4	332.8	324.9
7.5°	396.9	396.2	394.5	393.8	392.1	389.0	384.9	380.0	373.1	364.5	355.2
10°	434.2	428.3	426.6	423.8	418.3	412.1	404.9	398.3	392.4	384.5	374.5
12.5°	494.2	493.1	486.2	481.1	473.5	459.7	447.3	432.8	415.5	401.8	388.6
15°	527.3	528.0	524.9	520.7	515.9	504.5	492.1	475.2	454.9	430.7	409.3
17.5°	533.1	534.2	532.5	530.7	529.3	522.8	515.2	503.1	484.5	462.1	430.4
20°	528.3	530.4	530.7	532.8	535.6	532.8	526.6	518.3	502.8	479.3	449.0
22.5°	517.6	521.4	524.2	531.4	538.7	538.7	534.9	528.3	513.1	490.0	459.0
25°	516.9	517.6	518.7	530.4	541.8	544.2	540.7	533.8	517.3	492.4	458.7
27.5°	534.2	529.7	522.8	534.5	548.0	550.0	545.2	535.9	516.2	486.9	446.9
30°	569.4	559.4	544.9	553.5	562.8	560.4	550.7	535.9	509.3	472.8	424.9
32.5°	582.8	577.3	572.1	581.4	583.1	573.1	555.9	533.8	498.3	452.8	388.6
35°	592.8	593.1	591.1	592.8	584.5	570.4	551.4	522.5	477.6	416.9	340.7
37.5°	596.2	596.9	592.5	586.2	573.8	557.6	534.9	501.8	443.1	367.6	268.3
40°	585.6	583.5	576.2	567.6	554.2	537.6	512.8	463.5	391.8	293.5	209.3
42.5°	566.6	563.1	554.5	544.2	530.0	509.0	469.3	409.7	318.3	229.0	146.6
45°	528.7	526.2	515.6	508.0	491.1	463.8	412.8	337.6	246.2	165.5	84.8
47.5°	410.7	411.1	419.3	423.1	417.3	395.5	335.5	256.6	179.7	98.6	28.6
50°	367.6	365.9	357.6	346.2	327.3	294.8	246.2	181.4	106.2	32.1	4.1
52.5°	279.0	279.0	274.8	269.0	249.0	217.6	166.6	100.4	37.2	5.5	1.0
55°	120.4	114.1	117.6	124.1	119.0	103.5	77.9	30.0	6.6	1.0	1.0
57.5°	1.7	4.1	6.2	10.0	13.4	16.2	8.6	3.1	1.0	1.0	1.0
60°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
62.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
65°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
67.5°	0.7	0.7	0.7	1.0	0.7	1.0	1.0	1.0	1.0	1.0	1.0
70°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.0	1.0
72.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
75°	0.3	0.3	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
77.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7	0.7	0.7	0.7
80°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7	0.7
82.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.7	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.3	0.3	0.3	0.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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	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°	237.9	237.9	237.9	237.9	237.9	237.9	237.9	237.9
2.5°	281.7	275.9	266.2	236.9	206.6	178.6	158.6	151.0
5°	315.9	305.2	289.0	229.0	168.6	117.6	88.6	77.2
7.5°	342.8	329.0	305.5	215.2	123.8	62.8	37.6	29.7
10°	360.7	345.5	314.9	194.8	82.1	29.3	14.1	11.7
12.5°	373.8	354.9	318.3	168.6	48.3	13.4	7.6	6.9
15°	383.5	359.0	314.2	136.6	26.6	7.9	6.2	6.2
17.5°	396.9	361.1	304.2	100.7	15.2	5.9	5.9	5.9
20°	407.3	361.1	285.2	68.6	9.3	5.2	5.2	5.2
22.5°	412.4	355.5	262.1	43.5	6.6	4.8	5.2	5.2
25°	407.3	342.1	232.4	26.6	5.2	4.5	4.8	5.2
27.5°	388.3	315.2	192.8	16.9	4.1	4.5	4.8	5.2
30°	356.6	276.2	147.9	11.0	3.8	4.5	4.8	5.2
32.5°	311.7	218.3	95.9	7.2	3.4	4.5	4.8	5.2
35°	243.5	154.5	57.9	4.5	3.4	4.5	5.2	5.5
37.5°	182.4	103.1	31.4	2.8	3.4	4.5	5.2	5.5
40°	126.6	60.0	13.4	2.4	3.4	4.8	5.5	5.5
42.5°	73.5	23.8	3.4	2.1	3.4	4.8	5.5	5.9
45°	26.9	4.8	1.0	2.1	3.8	4.8	5.5	6.2
47.5°	3.8	1.0	1.0	2.1	3.8	4.8	5.9	6.2
50°	1.0	1.0	1.0	2.1	3.8	5.2	6.2	6.6
52.5°	1.0	1.0	1.0	2.1	3.8	5.2	6.2	6.6
55°	1.0	1.0	1.0	2.1	3.8	5.2	6.2	6.6
57.5°	1.0	1.0	1.0	2.1	3.8	5.2	6.2	6.6
60°	1.0	1.0	1.0	2.1	3.4	5.2	6.2	6.6
62.5°	1.0	1.0	1.0	2.1	3.4	4.8	5.9	6.2
65°	1.0	1.0	1.0	2.1	3.1	4.5	5.9	5.9
67.5°	1.0	1.0	1.0	1.7	3.1	4.5	5.5	5.9
70°	1.0	1.0	1.0	1.7	2.8	4.1	5.2	5.5
72.5°	1.0	1.0	1.0	1.4	2.4	3.8	4.8	5.2
75°	0.7	1.0	1.0	1.4	2.4	3.4	4.5	4.8
77.5°	0.7	1.0	1.0	1.0	2.1	2.8	3.8	4.1
80°	0.7	0.7	1.0	1.0	1.7	2.4	3.1	3.4
82.5°	0.7	0.7	0.7	1.0	1.4	1.7	2.4	2.4
85°	0.7	0.7	0.7	0.7	1.0	1.4	1.7	1.7
87.5°	0.3	0.3	0.7	0.7	0.7	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)