

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: P1316314

Luminaire Tested: LDSQA3D05R509740DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

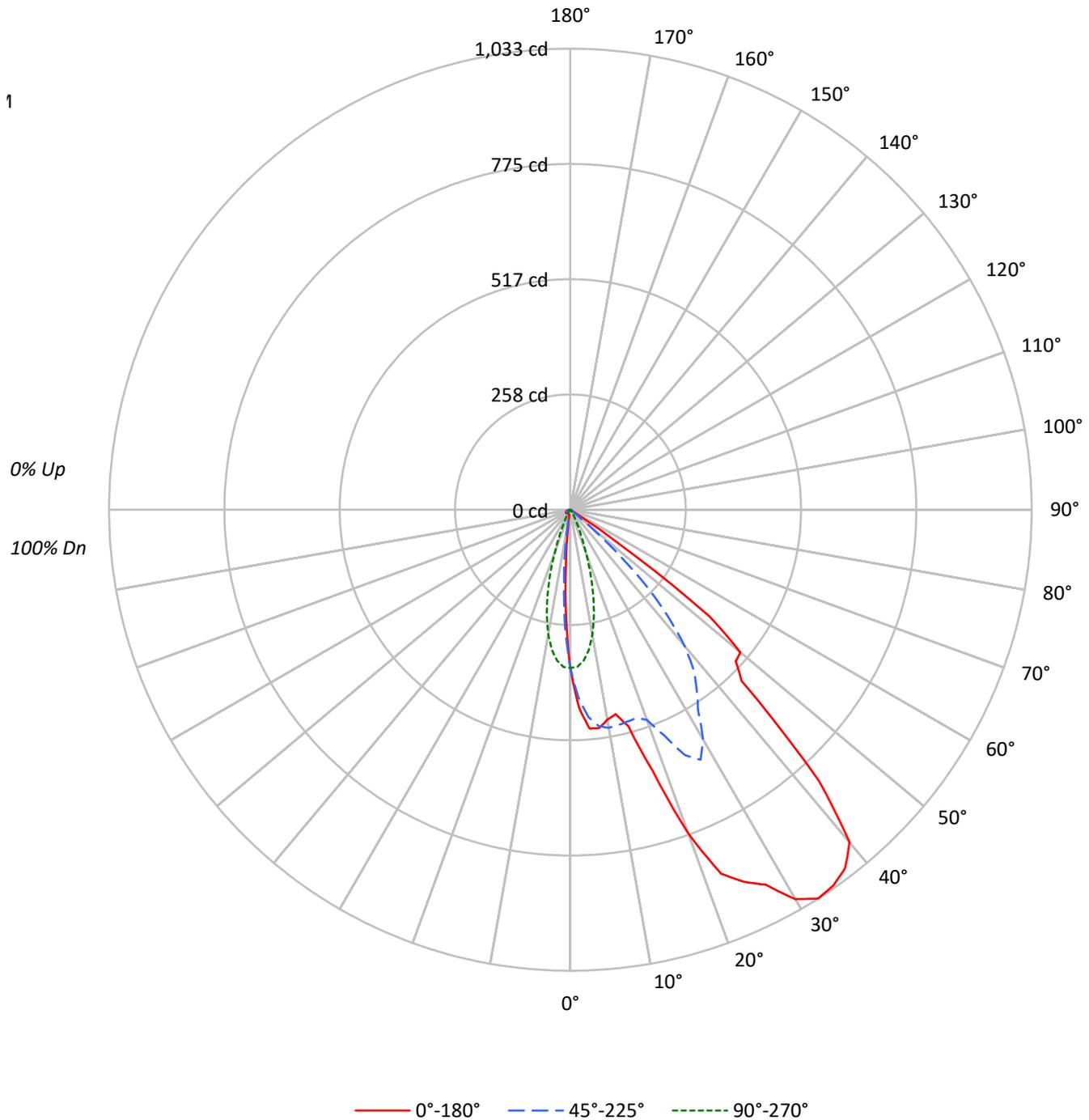
Test Method: LM-79-2019  
Report Number: P1316314  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R509740DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 551.0 lumens  
Efficiency: N/A  
Efficacy: 76.5 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2  
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	102	102	102	100
1	112	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	92	95	94	92	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	60	58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	63	58	54	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	49	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	50	45	41	39
10	61	50	42	38	60	49	42	38	48	42	38	47	42	37	46	41	37	46	41	37	36

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

	0°	45°	90°	135°	180°
0°	61001	61001	61001	61001	61001
5°	85074	80701	58641	28197	18291
10°	83505	86723	49561	5946	2553
15°	89559	87651	35036	2068	1997
20°	141415	91784	18492	1778	1869
25°	174749	115270	7373	1653	1843
30°	200337	118226	2983	1631	1929
35°	215985	103756	1325	1724	2144
40°	218638	89344	989	1956	2406
45°	132131	57918	950	2119	2728
50°	133135	10021	1045	2465	3108
55°	39334	570	1171	2762	3483
60°	654	654	1171	2997	3858
65°	611	611	1182	3179	4157
70°	755	755	1209	3424	4633
75°	665	665	1264	3527	4858
80°	496	992	1488	3372	5256
85°	988	1976	1976	3754	4742

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 150934 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	28.7	5.2
10°-20°	71.1	12.9
20°-30°	133.2	24.2
30°-40°	159.3	28.9
40°-50°	114.2	20.7
50°-60°	35.2	6.4
60°-70°	4.6	0.8
70°-80°	3.4	0.6
80°-90°	1.4	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°	233.0	42.3
0°-40°	392.3	71.2
0°-60°	541.7	98.3
0°-90°	551.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	551.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	354	354	354	354	354	
5°	492	467	339	163	106	46
15°	502	492	196	12	11	161
25°	920	607	39	9	10	424
35°	1027	494	6	8	10	637
45°	542	238	4	9	11	498
55°	131	2	4	9	12	169
65°	2	2	3	8	10	2
75°	1	1	2	5	7	1
85°	0	1	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°	354.2	354.2	354.2	354.2	354.2	354.2	354.2	354.2	354.2	354.2	354.2
2.5°	443.1	444.0	445.5	441.6	439.2	437.2	433.8	432.9	424.6	421.2	417.8
5°	492.1	491.1	492.1	490.6	489.6	486.7	483.8	479.0	473.6	466.8	459.1
7.5°	493.5	492.5	494.5	494.5	496.4	496.4	496.4	496.9	494.0	489.2	482.4
10°	477.5	477.5	479.4	478.5	481.9	483.3	486.7	492.5	495.5	495.9	494.0
12.5°	469.3	469.3	469.7	467.8	468.8	470.2	474.1	480.9	487.7	494.5	498.4
15°	502.3	503.2	496.4	486.7	479.4	471.7	469.3	473.6	480.9	491.6	500.3
17.5°	614.4	615.8	608.5	585.2	562.9	530.9	502.3	488.2	480.4	489.2	500.8
20°	771.6	766.2	753.6	728.9	696.4	646.9	602.2	557.1	513.9	500.8	504.7
22.5°	882.7	880.8	870.6	842.9	814.8	768.7	711.9	648.8	586.2	546.4	525.5
25°	919.6	918.1	908.9	892.4	876.9	841.9	791.0	727.4	661.9	606.6	554.2
27.5°	947.2	945.3	930.7	912.3	896.3	860.9	814.3	766.2	706.1	631.3	550.8
30°	1007.4	1002.1	981.7	948.7	918.1	869.1	817.7	758.0	676.5	594.5	515.8
32.5°	1032.7	1029.7	1012.3	985.6	952.1	888.0	809.9	709.9	602.7	531.9	474.6
35°	1027.3	1022.9	1005.0	974.4	933.7	872.0	767.7	630.4	543.0	493.5	429.0
37.5°	1011.3	1005.0	983.6	947.7	898.2	817.7	681.3	565.8	509.5	453.7	366.9
40°	972.5	962.3	937.5	900.2	850.7	744.9	602.7	527.0	474.6	397.4	297.5
42.5°	824.0	818.6	830.8	824.5	780.8	656.1	546.9	491.6	419.3	321.2	215.5
45°	542.5	551.8	573.6	611.0	619.7	564.4	501.3	433.3	345.0	237.8	124.2
47.5°	502.3	500.3	505.6	512.9	514.4	491.1	433.8	358.1	256.2	135.9	34.5
50°	496.9	494.0	489.6	480.9	462.5	417.3	352.3	261.1	148.0	37.4	2.4
52.5°	392.6	389.7	389.7	377.1	353.3	309.6	243.1	143.6	41.2	2.4	1.9
55°	131.0	139.8	138.3	137.8	148.5	136.8	104.8	36.9	3.4	1.9	1.9
57.5°	2.4	2.4	2.4	4.4	6.8	9.7	5.8	2.9	1.9	1.9	1.9
60°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
62.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
65°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.9
67.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
70°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
72.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5	1.5	1.5
75°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.5
77.5°	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0	1.0
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0	1.0
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0	1.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5
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°	354.2	354.2	354.2	354.2	354.2	354.2	354.2	354.2
2.5°	410.1	403.3	390.2	352.8	311.5	264.5	232.4	228.6
5°	446.9	436.7	415.4	339.2	245.1	163.1	121.3	105.8
7.5°	471.2	457.6	431.4	316.9	178.6	85.9	46.1	36.9
10°	485.8	473.1	439.7	283.4	113.6	34.0	15.5	14.6
12.5°	493.5	481.4	442.6	243.1	64.1	15.5	12.1	12.1
15°	498.9	485.8	438.2	196.5	32.0	11.6	11.2	11.2
17.5°	501.3	485.3	425.6	148.0	17.0	10.7	10.7	10.7
20°	502.7	479.9	402.3	100.9	11.6	9.7	10.2	10.2
22.5°	504.2	466.8	371.7	64.1	9.2	9.2	9.7	9.7
25°	501.3	444.0	328.5	38.8	8.2	8.7	9.2	9.7
27.5°	480.4	409.6	276.1	23.8	7.3	8.2	9.2	9.7
30°	444.5	359.1	215.5	15.0	6.8	8.2	9.2	9.7
32.5°	397.9	301.4	153.8	9.2	6.8	8.2	9.2	9.7
35°	335.3	230.5	100.0	6.3	6.8	8.2	9.7	10.2
37.5°	265.0	161.1	53.9	4.9	6.8	8.2	9.7	10.2
40°	190.7	96.6	19.4	4.4	6.3	8.7	10.2	10.7
42.5°	111.6	35.9	3.4	3.9	6.3	8.7	10.2	10.7
45°	32.0	3.9	1.9	3.9	6.3	8.7	10.7	11.2
47.5°	2.4	1.5	1.9	3.9	6.3	8.7	10.7	11.6
50°	1.5	1.5	1.5	3.9	6.3	9.2	11.2	11.6
52.5°	1.9	1.9	1.9	3.9	6.3	9.2	11.2	11.6
55°	1.9	1.9	1.9	3.9	6.3	9.2	11.2	11.6
57.5°	1.9	1.9	1.9	3.9	6.3	8.7	11.2	11.6
60°	1.9	1.9	1.9	3.4	5.8	8.7	10.7	11.2
62.5°	1.9	1.9	1.9	3.4	5.8	8.2	10.7	10.7
65°	1.9	1.9	1.9	2.9	5.3	7.8	9.7	10.2
67.5°	1.9	1.9	1.9	2.9	4.9	7.3	9.2	9.7
70°	1.5	1.9	1.9	2.4	4.4	6.8	8.7	9.2
72.5°	1.5	1.5	1.9	2.4	3.9	5.8	7.8	8.2
75°	1.5	1.5	1.5	1.9	3.4	5.3	6.8	7.3
77.5°	1.5	1.5	1.5	1.9	2.9	4.4	6.3	6.3
80°	1.0	1.5	1.5	1.5	2.4	3.4	4.9	5.3
82.5°	1.0	1.0	1.0	1.5	1.9	2.9	3.9	3.9
85°	1.0	1.0	1.0	1.0	1.5	1.9	2.4	2.4
87.5°	0.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)