

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: P1315290

Luminaire Tested: LDSQA3D05R309735DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

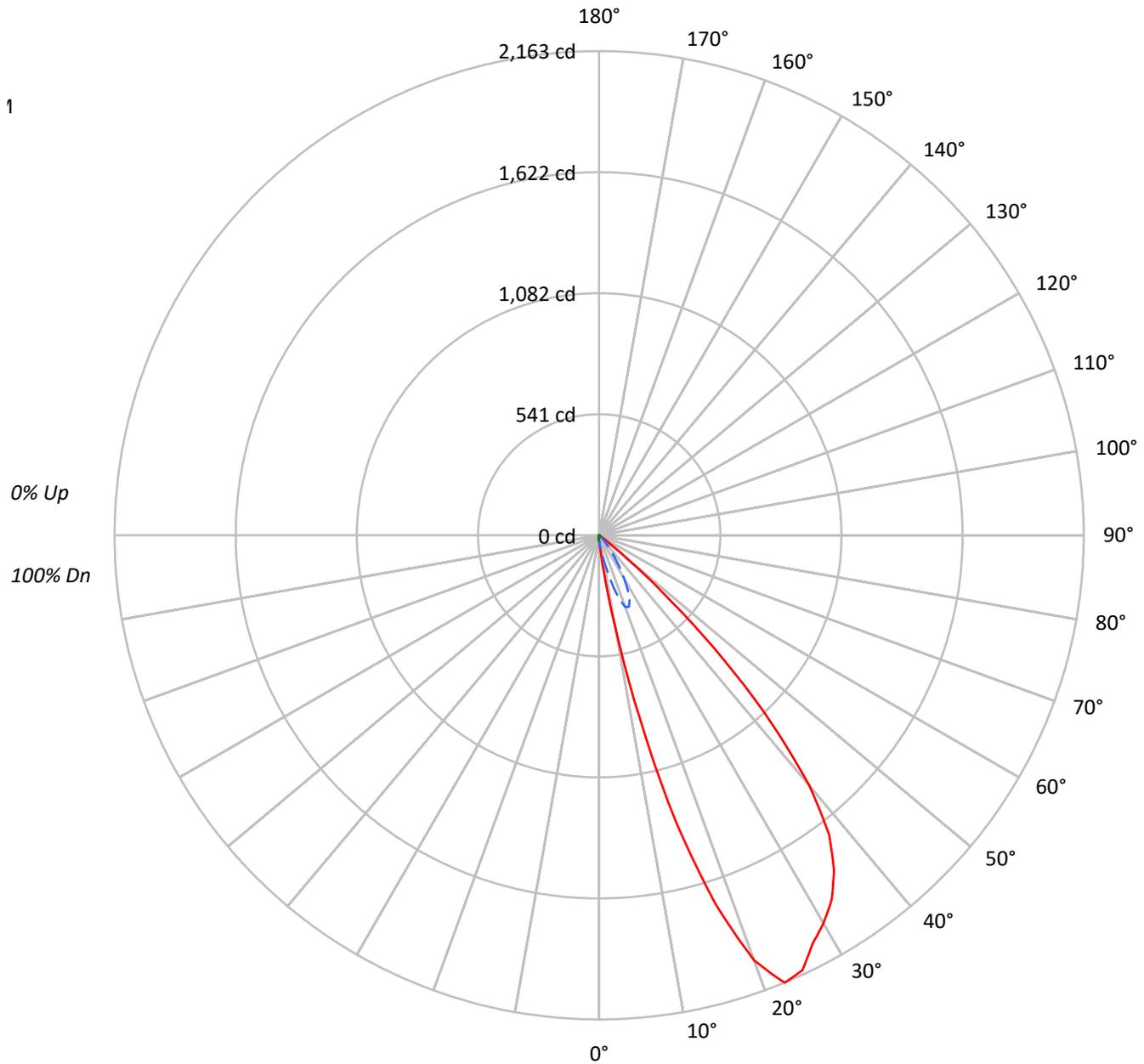
Test Method: LM-79-2019  
Report Number: P1315290  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-62)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D05R309735DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R30 optic, 3500K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 510.0 lumens  
Efficiency: N/A  
Efficacy: 70.8 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.5 / 1.28  
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



— 0°-180°    - - - 45°-225°    ····· 90°-270°



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				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	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	93	96	95	93	92
2	106	100	95	92	103	98	94	90	95	92	88	92	89	87	89	87	85	89	87	85	83
3	99	92	86	81	97	90	85	81	87	83	79	85	81	78	83	79	77	83	79	77	75
4	93	84	77	72	91	83	77	72	80	75	71	78	74	70	76	73	69	76	73	69	68
5	87	77	70	65	85	76	69	65	74	68	64	72	67	63	71	66	63	71	66	63	61
6	81	71	64	58	80	70	63	58	68	62	58	67	61	57	65	61	57	65	61	57	55
7	76	65	58	53	74	64	57	53	63	57	52	61	56	52	60	55	52	60	55	52	50
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	56	51	47	45
9	67	55	48	43	65	55	48	43	53	47	43	52	47	43	52	46	43	52	46	43	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	48	43	39	37

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

	0°	45°	90°	135°	180°
0°	4168	4168	4168	4168	4168
5°	12568	8385	3942	1781	1452
10°	72785	17768	3095	822	577
15°	236726	40295	2157	160	89
20°	370418	62350	1375	0	0
25°	407531	60923	703	0	0
30°	398049	43929	278	0	0
35°	384181	24977	105	0	0
40°	327631	10589	0	0	0
45°	192266	3970	122	0	122
50°	46700	750	134	134	375
55°	4054	0	270	420	570
60°	172	0	310	482	792
65°	204	204	571	571	937
70°	252	252	705	705	957
75°	0	333	932	932	932
80°	0	496	1389	893	893
85°	0	988	2766	988	988

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 192266 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.5	0.9
10°-20°	70.1	13.7
20°-30°	178.1	34.9
30°-40°	177.5	34.8
40°-50°	71.9	14.1
50°-60°	5.0	1.0
60°-70°	1.1	0.2
70°-80°	1.1	0.2
80°-90°	0.6	0.1
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°	252.7	49.5
0°-40°	430.2	84.4
0°-60°	507.1	99.4
0°-90°	510.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	510.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	24	24	24	24	24	
5°	73	48	23	10	8	17
15°	1328	226	12	1	0	386
25°	2145	321	4	0	0	968
35°	1827	119	0	0	0	1120
45°	789	16	0	0	0	602
55°	14	0	1	1	2	35
65°	0	0	1	1	2	0
75°	0	0	1	1	1	0
85°	0	0	1	0	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2
2.5°	40.1	40.5	40.5	39.6	39.1	39.1	37.7	37.3	35.9	34.5	29.8
5°	72.7	71.3	69.4	69.4	65.2	62.9	59.7	55.9	53.1	48.5	34.5
7.5°	165.0	153.8	150.5	146.3	130.5	117.9	103.5	90.9	79.2	69.4	38.2
10°	416.2	394.3	376.1	339.3	293.1	248.9	207.8	160.3	127.7	101.6	41.0
12.5°	838.4	809.0	774.1	707.0	620.7	510.3	412.4	308.0	216.2	149.6	41.9
15°	1327.7	1277.8	1223.3	1138.0	996.8	838.4	661.8	495.4	347.2	226.0	41.0
17.5°	1726.6	1707.0	1626.4	1509.9	1337.0	1132.9	915.3	687.9	468.4	295.9	38.2
20°	2021.1	2007.6	1910.2	1786.3	1591.5	1357.5	1081.2	808.1	552.7	340.2	34.0
22.5°	2163.3	2160.9	2090.6	1963.8	1757.4	1492.2	1187.9	877.5	578.8	346.3	28.4
25°	2144.6	2153.0	2112.9	2018.8	1820.8	1547.7	1219.6	877.5	559.7	320.6	23.8
27.5°	2059.8	2065.4	2040.2	1968.0	1783.5	1507.6	1175.3	821.1	504.2	275.4	19.6
30°	2001.6	2003.9	1972.7	1895.3	1699.6	1416.2	1070.9	716.7	420.4	220.9	14.4
32.5°	1930.7	1930.3	1893.9	1805.4	1589.6	1288.1	938.6	592.3	323.0	167.8	8.4
35°	1827.3	1815.6	1766.2	1664.2	1425.6	1115.7	769.4	451.1	232.5	118.8	5.1
37.5°	1685.1	1654.8	1584.9	1448.4	1195.3	874.7	570.4	316.9	158.9	78.8	3.3
40°	1457.3	1425.1	1330.0	1164.1	904.1	629.6	384.5	206.4	100.2	47.1	1.9
42.5°	1142.7	1120.8	992.6	827.2	597.0	401.7	231.1	122.1	56.4	27.0	0.5
45°	789.4	761.0	660.4	520.1	358.4	222.8	129.6	63.8	32.2	16.3	0.0
47.5°	435.7	400.8	342.5	269.4	180.4	117.0	65.2	34.5	18.2	7.9	0.0
50°	174.3	172.9	137.5	97.9	69.0	53.1	32.6	18.6	9.3	2.8	0.5
52.5°	61.0	61.0	52.7	42.9	33.6	24.2	16.3	8.9	3.3	0.9	0.5
55°	13.5	14.9	14.0	13.0	12.6	10.7	7.0	3.3	0.9	0.0	0.5
57.5°	1.4	1.4	1.4	1.9	2.3	2.3	1.9	0.9	0.0	0.0	0.5
60°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.9
62.5°	0.5	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.5	0.5	0.9
65°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9
67.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.9
70°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.4
72.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.4
75°	0.0	0.0	0.5	0.5	0.0	0.5	0.5	0.5	0.5	0.5	1.4
77.5°	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.9
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.9
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):**

	90°	112.5°	135°	157.5°	180°
0°	24.2	24.2	24.2	24.2	24.2
2.5°	24.2	19.1	15.8	14.0	13.5
5°	22.8	14.4	10.3	8.9	8.4
7.5°	20.5	10.7	7.0	5.6	5.1
10°	17.7	7.9	4.7	3.3	3.3
12.5°	14.9	6.1	2.8	1.4	0.9
15°	12.1	3.7	0.9	0.5	0.5
17.5°	9.3	2.3	0.0	0.0	0.0
20°	7.5	0.9	0.0	0.0	0.0
22.5°	5.6	0.5	0.0	0.0	0.0
25°	3.7	0.0	0.0	0.0	0.0
27.5°	2.3	0.0	0.0	0.0	0.0
30°	1.4	0.0	0.0	0.0	0.0
32.5°	0.5	0.0	0.0	0.0	0.0
35°	0.5	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0
45°	0.5	0.0	0.0	0.5	0.5
47.5°	0.5	0.5	0.5	0.9	0.9
50°	0.5	0.5	0.5	0.9	1.4
52.5°	0.9	0.5	0.9	1.4	1.4
55°	0.9	0.9	1.4	1.9	1.9
57.5°	0.9	0.9	1.4	1.9	1.9
60°	0.9	0.9	1.4	1.9	2.3
62.5°	1.4	1.4	1.4	1.9	1.9
65°	1.4	1.4	1.4	1.9	2.3
67.5°	1.4	1.4	1.4	1.9	2.3
70°	1.4	1.4	1.4	1.9	1.9
72.5°	1.9	1.4	1.4	1.9	1.9
75°	1.4	1.4	1.4	1.4	1.4
77.5°	1.4	1.4	0.9	1.4	1.4
80°	1.4	0.9	0.9	0.9	0.9
82.5°	1.4	0.9	0.9	0.9	0.9
85°	1.4	0.9	0.5	0.5	0.5
87.5°	1.4	0.9	0.5	0.5	0.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)