

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: P1314509

Luminaire Tested: LDSQA3D09R409730DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1314509  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-64)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R409730DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R40 optic, 3000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

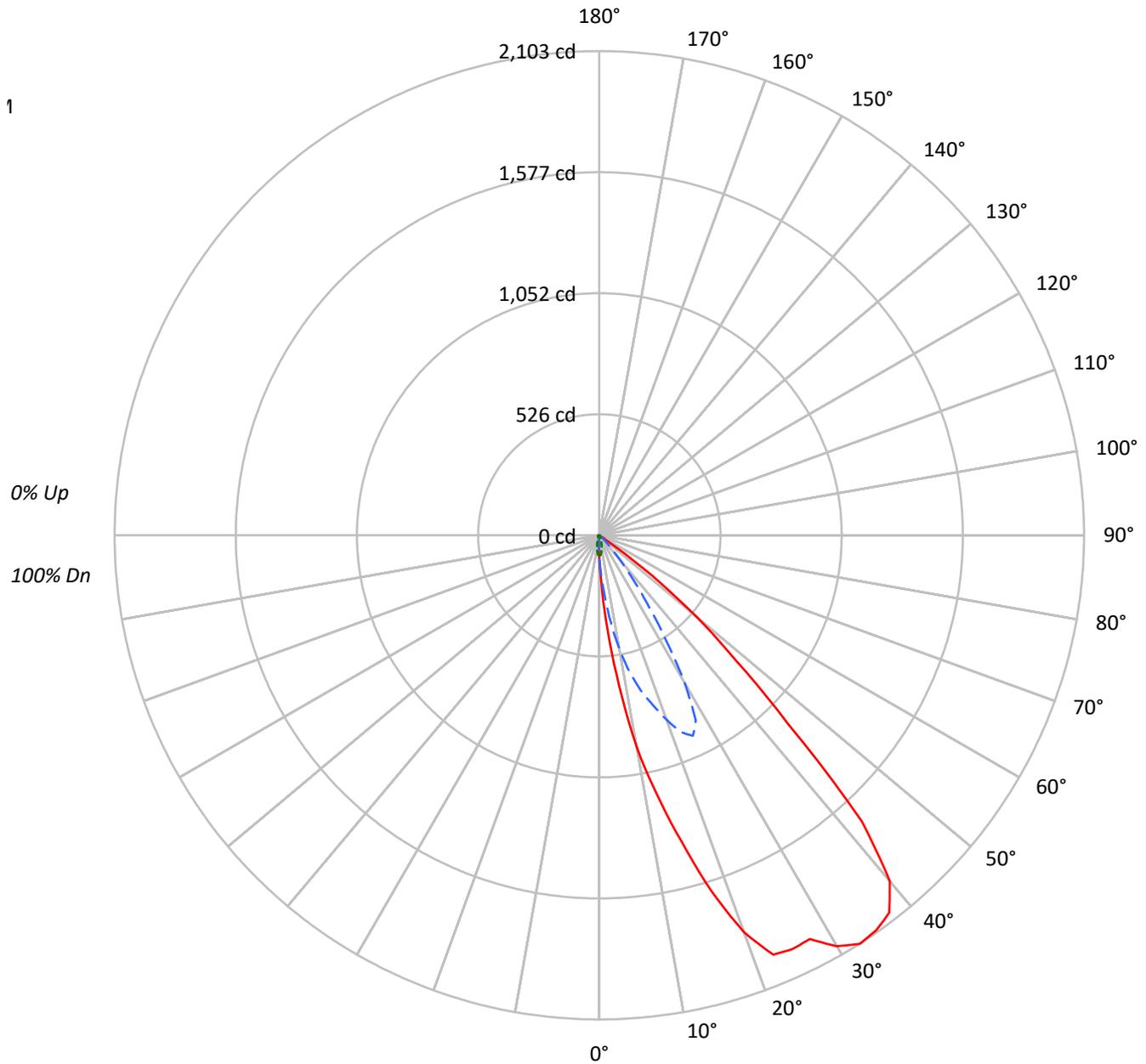
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 776.1 lumens  
Efficiency: N/A  
Efficacy: 69.9 lumens/watt  
Spacing Criteria (0/90/45): 2.53 / 0.42 / 1.24  
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')  
CIE Type: Direct

Input Watts (W): 11.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	96	94	93	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	82	79	76	74
4	92	83	77	71	90	82	76	71	80	74	70	78	73	69	76	72	68	76	72	68	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	70	65	62	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	60	56	64	60	56	54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	59	54	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	55	50	46	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	47	42	38	37

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

	0°	45°	90°	135°	180°
0°	15810	15810	15810	15810	15810
5°	71313	45468	14176	5446	3976
10°	163565	87859	9986	1941	1486
15°	245463	124648	6205	1052	927
20°	336091	156261	3611	605	715
25°	376766	182578	1862	494	627
30°	409802	147379	776	398	656
35°	440421	75436	273	547	820
40°	440581	30081	157	585	1034
45°	281311	10059	317	950	1437
50°	146022	1232	536	1232	1768
55°	12611	210	601	1561	2162
60°	448	241	689	1791	2480
65°	530	285	1060	1875	2690
70°	352	352	1309	1964	2618
75°	466	466	1331	2196	3061
80°	694	694	1984	1984	2579
85°	0	1383	3952	2569	2569

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 281311 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	17.9	2.3
10°-20°	105.0	13.5
20°-30°	230.0	29.6
30°-40°	262.1	33.8
40°-50°	138.3	17.8
50°-60°	16.3	2.1
60°-70°	2.9	0.4
70°-80°	2.4	0.3
80°-90°	1.1	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°	352.9	45.5
0°-40°	615.0	79.2
0°-60°	769.6	99.2
0°-90°	776.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	776.1	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	92	92	92	92	92	
5°	412	263	82	32	23	56
15°	1377	699	35	6	5	406
25°	1983	961	10	3	3	914
35°	2095	359	1	3	4	1298
45°	1155	41	1	4	6	931
55°	42	1	2	5	7	130
65°	1	1	3	5	7	1
75°	1	1	2	3	5	1
85°	0	1	2	1	1	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°	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8	91.8
2.5°	204.6	204.6	204.0	198.1	197.4	196.8	186.3	183.6	171.2	162.7	124.0
5°	412.5	403.4	402.7	392.2	374.5	350.9	335.8	311.5	287.9	263.0	152.8
7.5°	657.2	665.0	643.4	632.3	592.9	564.7	521.4	483.4	430.2	380.4	176.4
10°	935.3	921.5	899.8	878.2	835.6	785.1	720.8	653.2	576.5	502.4	189.5
12.5°	1152.3	1134.6	1121.5	1092.0	1050.0	985.1	908.4	817.9	716.2	609.3	188.9
15°	1376.7	1358.9	1329.4	1303.2	1240.9	1168.1	1084.8	965.4	840.8	699.1	175.1
17.5°	1623.3	1600.3	1567.5	1527.5	1467.2	1386.5	1280.9	1135.3	958.9	772.6	150.2
20°	1833.8	1820.0	1787.2	1740.0	1681.0	1602.3	1480.3	1318.9	1103.8	852.6	119.4
22.5°	1971.5	1959.1	1936.8	1895.4	1850.8	1766.9	1655.4	1478.3	1225.1	925.4	90.5
25°	1982.7	1977.4	1971.5	1957.7	1930.9	1871.2	1762.3	1571.4	1300.6	960.8	66.9
27.5°	1976.8	1974.8	1973.5	1966.3	1948.6	1889.5	1778.0	1585.2	1290.7	905.7	49.2
30°	2060.7	2054.8	2051.5	2027.9	1981.4	1890.2	1744.6	1511.1	1147.1	741.1	35.4
32.5°	2103.3	2102.0	2098.8	2075.8	2010.2	1891.5	1688.2	1332.1	909.7	535.2	24.3
35°	2094.8	2088.3	2076.5	2033.8	1942.7	1793.8	1505.9	1063.8	656.5	358.8	15.7
37.5°	2066.0	2050.9	2027.9	1951.2	1829.9	1626.5	1221.2	783.1	446.6	232.2	9.2
40°	1959.7	1939.4	1903.3	1809.5	1650.1	1340.6	903.1	529.3	293.2	133.8	2.6
42.5°	1684.9	1658.7	1632.4	1527.5	1345.2	999.5	594.2	327.3	167.2	73.5	0.7
45°	1155.0	1122.2	1086.1	1010.0	863.8	605.4	353.5	184.3	86.6	41.3	0.7
47.5°	802.1	787.0	724.1	627.0	480.7	320.7	183.0	90.5	45.9	19.0	0.7
50°	545.0	528.0	454.5	360.7	255.8	153.5	84.0	45.3	20.3	4.6	0.7
52.5°	286.0	265.0	218.4	166.6	103.6	64.3	36.7	19.7	5.9	0.7	0.7
55°	42.0	38.7	31.5	25.6	23.0	17.7	10.5	4.6	0.7	0.7	1.3
57.5°	1.3	1.3	1.3	1.3	2.0	2.0	1.3	0.7	0.7	0.7	1.3
60°	1.3	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	0.7	1.3
62.5°	1.3	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	0.7	1.3
65°	1.3	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	0.7	1.3
67.5°	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	0.7	1.3	2.0
70°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.0
72.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3	2.0
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	2.0
77.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3	2.0
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.3
82.5°	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	0.7	0.7	2.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.7	1.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	1.3
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):**

	90°	112.5°	135°	157.5°	180°
0°	91.8	91.8	91.8	91.8	91.8
2.5°	90.5	66.9	51.8	44.6	43.9
5°	82.0	47.9	31.5	24.3	23.0
7.5°	69.5	33.4	18.4	13.1	12.5
10°	57.1	23.0	11.1	9.2	8.5
12.5°	45.3	15.1	7.9	7.2	6.6
15°	34.8	9.8	5.9	5.2	5.2
17.5°	26.2	6.6	4.6	4.6	4.6
20°	19.7	4.6	3.3	3.9	3.9
22.5°	13.8	3.3	2.6	3.3	3.3
25°	9.8	2.6	2.6	3.3	3.3
27.5°	6.6	2.0	2.0	2.6	3.3
30°	3.9	1.3	2.0	2.6	3.3
32.5°	2.0	1.3	2.0	3.3	3.3
35°	1.3	2.0	2.6	3.3	3.9
37.5°	0.7	2.0	2.6	3.9	3.9
40°	0.7	2.0	2.6	3.9	4.6
42.5°	1.3	2.6	3.3	4.6	5.2
45°	1.3	2.6	3.9	5.2	5.9
47.5°	1.3	2.6	4.6	5.9	5.9
50°	2.0	3.3	4.6	5.9	6.6
52.5°	2.0	3.3	4.6	6.6	7.2
55°	2.0	3.3	5.2	6.6	7.2
57.5°	2.0	3.9	5.2	6.6	7.2
60°	2.0	3.3	5.2	6.6	7.2
62.5°	2.6	3.3	4.6	6.6	6.6
65°	2.6	3.3	4.6	6.6	6.6
67.5°	2.6	3.3	4.6	5.9	5.9
70°	2.6	3.3	3.9	5.2	5.2
72.5°	2.6	3.3	3.9	4.6	5.2
75°	2.0	2.6	3.3	3.9	4.6
77.5°	2.0	2.6	2.6	3.9	3.9
80°	2.0	2.0	2.0	2.6	2.6
82.5°	2.0	2.0	1.3	2.0	2.0
85°	2.0	1.3	1.3	1.3	1.3
87.5°	1.3	1.3	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)