

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: P1307202

Luminaire Tested: LDSQA3D13R509024DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1307202  
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: LDSQA3D13R509024DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R50 optic, 2400K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

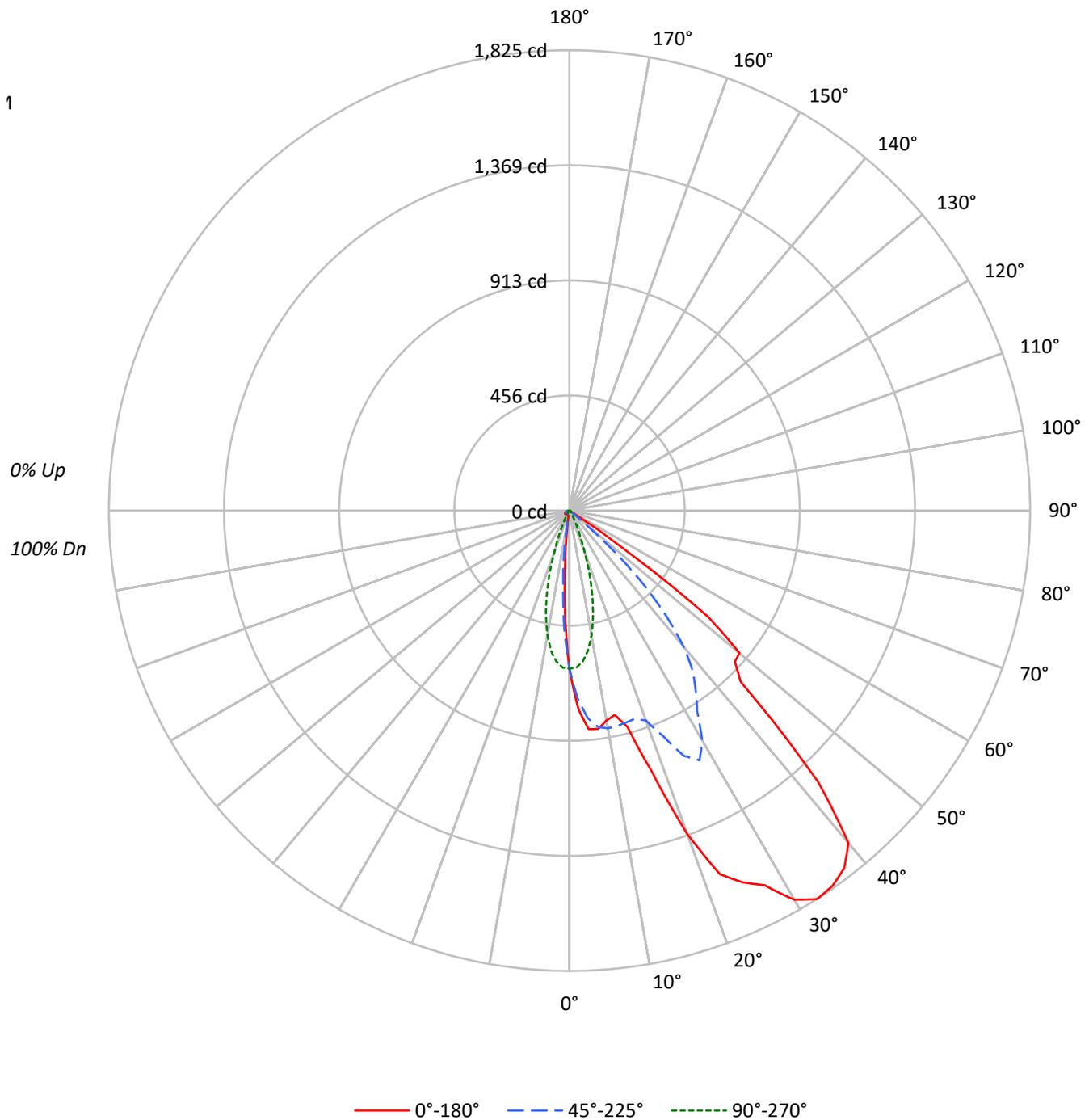
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 974.0 lumens  
Efficiency: N/A  
Efficacy: 66.7 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): 14.6  
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





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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	100	100	100	100
1	112	109	106	103	110	107	104	101	102	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	85	83	81	81	81	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	73	73	73	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	65	65	65	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58	58	58	58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	53	53	53	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47	47	47	47
8	69	58	50	45	68	57	50	45	56	50	45	55	49	45	54	49	45	43	43	43	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	39	39	39	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	37	46	41	37	36	36	36	36

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

	0°	45°	90°	135°	180°
0°	107846	107846	107846	107846	107846
5°	150371	142661	103659	49824	32329
10°	147616	153317	87615	10493	4494
15°	158293	154941	61941	3673	3512
20°	249969	162254	32696	3152	3299
25°	308888	203766	13036	2926	3268
30°	354140	208968	5290	2903	3420
35°	381805	183418	2355	3070	3784
40°	386467	157937	1731	3462	4249
45°	233574	102368	1681	3751	4798
50°	235350	17710	1849	4367	5519
55°	69540	1021	2072	4894	6185
60°	1171	1171	2067	5304	6786
65°	1060	1060	2078	5583	7335
70°	1309	1309	2165	6043	8208
75°	1131	1131	2262	6255	8584
80°	893	1686	2579	5951	9323
85°	1778	3359	3359	6719	8497

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 266795 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.6	5.2
10°-20°	125.7	12.9
20°-30°	235.5	24.2
30°-40°	281.6	28.9
40°-50°	201.8	20.7
50°-60°	62.2	6.4
60°-70°	8.1	0.8
70°-80°	5.9	0.6
80°-90°	2.4	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°	411.9	42.3
0°-40°	693.5	71.2
0°-60°	957.6	98.3
0°-90°	974.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	974.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	626	626	626	626	626	
5°	870	825	600	288	187	81
15°	888	869	347	21	20	284
25°	1626	1072	69	15	17	749
35°	1816	872	11	15	18	1127
45°	959	420	7	15	20	881
55°	232	3	7	16	21	298
65°	3	3	5	14	18	3
75°	2	2	3	9	13	2
85°	1	2	2	3	4	1
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°	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2
2.5°	783.2	784.9	787.5	780.6	776.3	772.9	766.9	765.2	750.6	744.6	738.6
5°	869.8	868.1	869.8	867.2	865.5	860.4	855.2	846.7	837.2	825.2	811.5
7.5°	872.4	870.7	874.1	874.1	877.5	877.5	877.5	878.4	873.2	864.7	852.7
10°	844.1	844.1	847.5	845.8	851.8	854.4	860.4	870.7	875.8	876.7	873.2
12.5°	829.5	829.5	830.4	826.9	828.6	831.2	838.1	850.1	862.1	874.1	881.0
15°	887.8	889.5	877.5	860.4	847.5	833.8	829.5	837.2	850.1	869.0	884.4
17.5°	1086.0	1088.6	1075.7	1034.5	995.1	938.4	887.8	863.0	849.2	864.7	885.3
20°	1363.9	1354.5	1332.2	1288.4	1231.0	1143.5	1064.5	984.8	908.4	885.3	892.1
22.5°	1560.4	1556.9	1538.9	1490.0	1440.3	1358.8	1258.4	1146.9	1036.2	965.9	929.0
25°	1625.5	1623.0	1606.7	1577.5	1550.1	1488.3	1398.2	1285.9	1170.0	1072.3	979.6
27.5°	1674.4	1671.0	1645.3	1612.7	1584.4	1521.7	1439.4	1354.5	1248.1	1116.0	973.6
30°	1780.8	1771.4	1735.3	1677.0	1623.0	1536.3	1445.4	1339.9	1195.8	1050.8	911.8
32.5°	1825.4	1820.3	1789.4	1742.2	1683.0	1569.8	1431.7	1255.0	1065.4	940.2	838.9
35°	1816.0	1808.3	1776.5	1722.5	1650.4	1541.5	1357.1	1114.3	959.9	872.4	758.3
37.5°	1787.7	1776.5	1738.8	1675.3	1587.8	1445.4	1204.4	1000.2	900.7	802.0	648.5
40°	1719.0	1701.0	1657.3	1591.2	1503.7	1316.7	1065.4	931.6	838.9	702.5	525.8
42.5°	1456.6	1447.1	1468.6	1457.4	1380.2	1159.8	966.7	869.0	741.1	567.9	380.9
45°	959.0	975.3	1013.9	1080.0	1095.4	997.6	886.1	766.0	609.9	420.3	219.6
47.5°	887.8	884.4	893.8	906.7	909.3	868.1	766.9	633.1	452.9	240.2	60.9
50°	878.4	873.2	865.5	850.1	817.5	737.7	622.8	461.5	261.6	66.1	4.3
52.5°	694.0	688.8	688.8	666.5	624.5	547.3	429.8	253.9	72.9	4.3	3.4
55°	231.6	247.0	244.5	243.6	262.5	241.9	185.3	65.2	6.0	3.4	3.4
57.5°	4.3	4.3	4.3	7.7	12.0	17.2	10.3	5.1	3.4	3.4	3.4
60°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
62.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
65°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	3.4
67.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
70°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
72.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.6	2.6	2.6
75°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	2.6
77.5°	0.9	0.9	0.9	0.9	1.7	1.7	1.7	1.7	1.7	1.7	1.7
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7	1.7	1.7
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7	1.7
85°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.7	1.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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	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°	626.2	626.2	626.2	626.2	626.2	626.2	626.2	626.2
2.5°	724.8	712.8	689.7	623.6	550.7	467.5	410.9	404.0
5°	790.0	772.0	734.3	599.6	433.2	288.2	214.5	187.0
7.5°	832.9	808.9	762.6	560.1	315.7	151.8	81.5	65.2
10°	858.7	836.4	777.2	501.0	200.7	60.0	27.4	25.7
12.5°	872.4	850.9	782.3	429.8	113.2	27.4	21.4	21.4
15°	881.8	858.7	774.6	347.4	56.6	20.6	19.7	19.7
17.5°	886.1	857.8	752.3	261.6	30.0	18.9	18.9	18.9
20°	888.7	848.4	711.1	178.4	20.6	17.2	18.0	18.0
22.5°	891.3	825.2	657.1	113.2	16.3	16.3	17.2	17.2
25°	886.1	784.9	580.7	68.6	14.6	15.4	16.3	17.2
27.5°	849.2	724.0	488.1	42.0	12.9	14.6	16.3	17.2
30°	785.8	634.8	380.9	26.6	12.0	14.6	16.3	17.2
32.5°	703.4	532.7	271.9	16.3	12.0	14.6	16.3	17.2
35°	592.7	407.5	176.7	11.2	12.0	14.6	17.2	18.0
37.5°	468.4	284.8	95.2	8.6	12.0	14.6	17.2	18.0
40°	337.1	170.7	34.3	7.7	11.2	15.4	18.0	18.9
42.5°	197.3	63.5	6.0	6.9	11.2	15.4	18.0	18.9
45°	56.6	6.9	3.4	6.9	11.2	15.4	18.9	19.7
47.5°	4.3	2.6	3.4	6.9	11.2	15.4	18.9	20.6
50°	2.6	2.6	2.6	6.9	11.2	16.3	19.7	20.6
52.5°	3.4	3.4	3.4	6.9	11.2	16.3	19.7	20.6
55°	3.4	3.4	3.4	6.9	11.2	16.3	19.7	20.6
57.5°	3.4	3.4	3.4	6.9	11.2	15.4	19.7	20.6
60°	3.4	3.4	3.4	6.0	10.3	15.4	18.9	19.7
62.5°	3.4	3.4	3.4	6.0	10.3	14.6	18.9	18.9
65°	3.4	3.4	3.4	5.1	9.4	13.7	17.2	18.0
67.5°	3.4	3.4	3.4	5.1	8.6	12.9	16.3	17.2
70°	2.6	3.4	3.4	4.3	7.7	12.0	15.4	16.3
72.5°	2.6	2.6	3.4	4.3	6.9	10.3	13.7	14.6
75°	2.6	2.6	2.6	3.4	6.0	9.4	12.0	12.9
77.5°	2.6	2.6	2.6	3.4	5.1	7.7	11.2	11.2
80°	1.7	2.6	2.6	2.6	4.3	6.0	8.6	9.4
82.5°	1.7	1.7	1.7	2.6	3.4	5.1	6.9	6.9
85°	1.7	1.7	1.7	1.7	2.6	3.4	4.3	4.3
87.5°	0.9	1.7	1.7	1.7	1.7	1.7	1.7	1.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)