

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: P1311358

Luminaire Tested: LDSQA3D09R509040DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1311358  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-53)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R509040DE010 3LSQCA30R 1MB  
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM  
Light Source: -  
Ballast/Driver: -

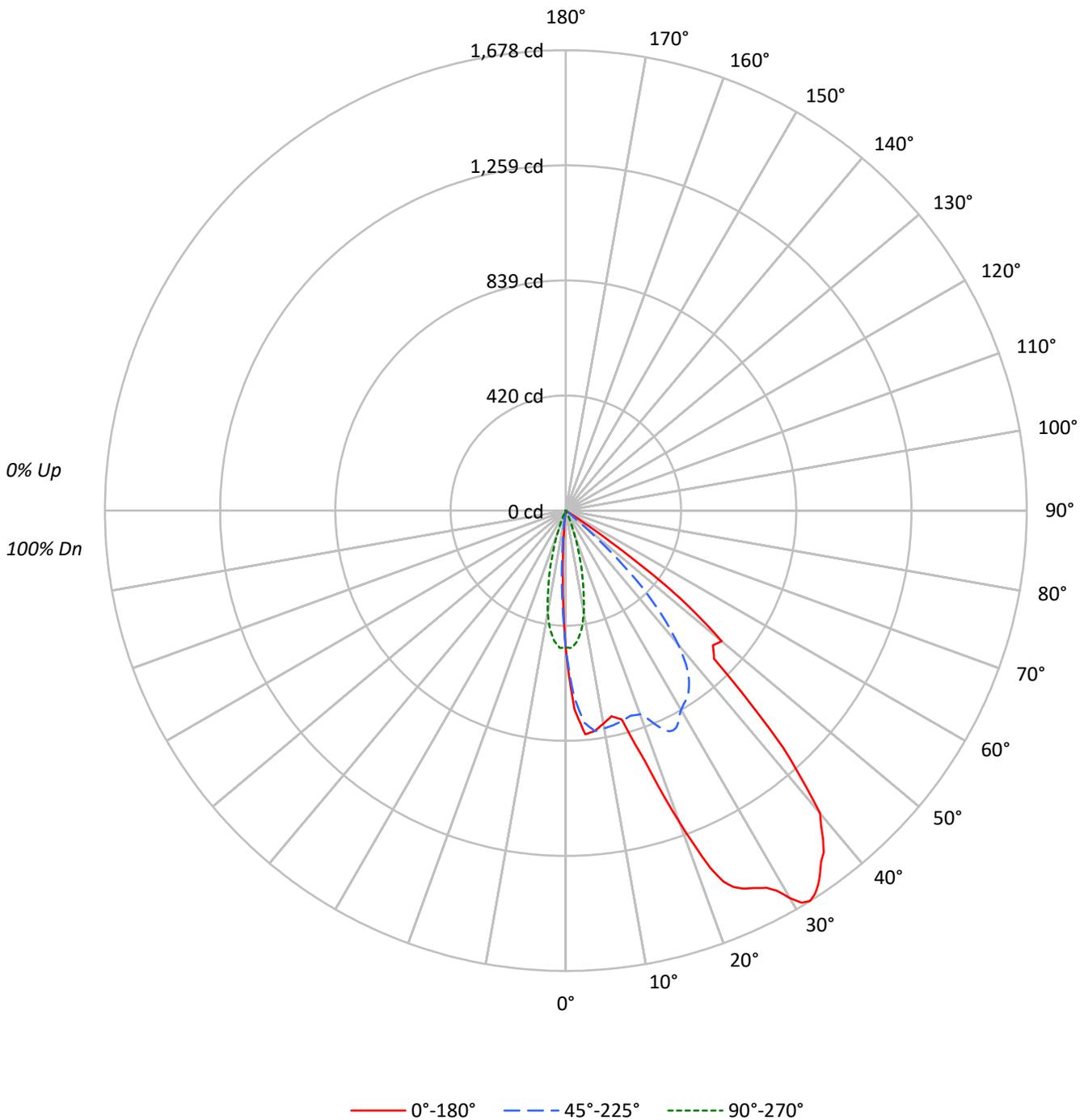
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 803.0 lumens  
Efficiency: N/A  
Efficacy: 72.3 lumens/watt  
Spacing Criteria (0/90/45): 1.8 / 0.48 / 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





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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	100				100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91				91
2	105	99	95	91	103	98	93	90	94	91	88	91	88	86	89	86	84	82				82
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74				74
4	92	83	76	71	90	81	75	70	79	74	70	77	72	69	75	71	68	66				66
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59				59
6	80	69	62	57	78	68	62	57	67	61	56	65	60	56	64	59	55	54				54
7	75	64	56	51	73	63	56	51	61	55	51	60	55	50	59	54	50	48				48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44				44
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40				40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37				37

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

	0°	45°	90°	135°	180°
0°	85870	85870	85870	85870	85870
5°	141468	134259	82516	24514	12257
10°	137875	140900	66122	1242	1661
15°	140570	141408	39600	1266	428
20°	221580	144788	16312	0	0
25°	288860	168687	3896	0	0
30°	324230	166808	159	0	0
35°	339293	164264	0	0	0
40°	323697	142716	0	0	0
45°	185885	94184	0	0	0
50°	198376	10771	0	0	0
55°	56509	0	0	0	0
60°	0	0	276	0	0
65°	0	326	326	0	0
70°	0	403	403	0	0
75°	0	532	532	0	0
80°	0	793	1587	793	0
85°	0	1581	3162	1581	0

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 15°  
 Vertical Angle: 45°  
 Luminance: 205272 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.9	5.2
10°-20°	105.5	13.1
20°-30°	202.6	25.2
30°-40°	235.9	29.4
40°-50°	168.8	21.0
50°-60°	47.0	5.9
60°-70°	0.3	0.0
70°-80°	0.5	0.1
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°	350.0	43.6
0°-40°	585.9	73.0
0°-60°	801.6	99.8
0°-90°	803.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	803.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	499	499	499	499	499	
5°	818	777	477	142	71	75
15°	788	793	222	7	2	254
25°	1520	888	20	0	0	691
35°	1614	781	0	0	0	999
45°	763	387	0	0	0	718
55°	188	0	0	0	0	237
65°	0	1	1	0	0	0
75°	0	1	1	0	0	0
85°	0	1	2	1	0	0
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
0°	498.6	498.6	498.6	498.6	498.6	498.6	498.6	498.6	498.6	498.6	498.6
2.5°	724.6	728.6	729.3	719.9	721.5	708.1	708.9	699.4	676.6	597.0	500.9
5°	818.3	816.0	818.3	815.2	818.3	810.5	805.7	801.8	776.6	664.0	477.3
7.5°	809.7	806.5	811.3	812.8	818.3	816.0	816.8	819.1	810.5	700.2	437.1
10°	788.4	787.6	790.0	790.0	796.3	797.1	800.2	805.0	805.7	712.8	378.1
12.5°	767.9	765.6	765.6	764.8	767.9	767.1	775.0	786.1	801.0	704.9	296.9
15°	788.4	786.1	782.9	774.2	767.9	760.8	761.6	768.7	793.1	684.4	222.1
17.5°	953.8	941.2	925.5	897.9	868.8	818.3	788.4	769.5	783.7	652.9	148.1
20°	1209.0	1203.5	1178.3	1133.4	1086.1	1012.1	919.9	845.9	790.0	613.6	89.0
21°	1305.9	1302.7	1276.0	1234.2	1180.7	1090.9	996.3	907.3	802.6	597.0	70.1
22°	1405.1	1393.3	1372.0	1325.6	1269.7	1179.9	1074.3	975.9	827.8	575.8	53.6
23°	1468.9	1461.8	1439.0	1402.0	1348.4	1261.0	1153.1	1046.0	852.2	552.1	40.2
24°	1502.0	1499.6	1481.5	1455.5	1409.9	1320.9	1218.5	1108.2	872.7	524.6	29.1
25°	1520.1	1512.2	1501.2	1482.3	1447.7	1370.5	1279.1	1162.5	887.7	497.0	20.5
26°	1531.1	1526.4	1509.1	1492.6	1459.5	1396.5	1318.5	1195.6	891.6	463.1	14.2
27°	1543.8	1532.7	1516.2	1496.5	1459.5	1404.3	1333.5	1209.8	886.9	428.5	9.5
28°	1557.1	1549.3	1526.4	1501.2	1457.1	1404.3	1327.9	1190.9	872.7	395.4	5.5
29°	1583.1	1572.9	1544.5	1507.5	1457.9	1402.8	1306.7	1151.5	853.8	358.4	3.2
30°	1630.4	1609.1	1574.5	1522.5	1463.4	1399.6	1271.2	1092.4	838.8	316.6	0.8
31°	1667.4	1655.6	1615.4	1550.1	1479.2	1391.0	1229.5	1034.2	828.6	280.4	0.0
32°	1677.6	1669.0	1639.8	1578.4	1505.9	1383.9	1182.2	977.4	820.7	240.2	0.0
33°	1665.8	1660.3	1629.6	1573.7	1513.0	1374.4	1127.9	921.5	812.0	204.0	0.0
34°	1643.8	1636.7	1609.9	1553.2	1494.9	1333.5	1075.9	879.0	799.4	170.1	0.0
35°	1613.8	1608.3	1580.8	1524.8	1461.8	1269.7	1023.9	850.6	781.3	136.3	0.0
36°	1581.6	1580.0	1544.5	1489.4	1419.3	1208.2	960.9	829.4	763.2	107.9	0.0
37°	1560.3	1552.4	1513.8	1459.5	1368.9	1136.5	910.5	822.3	738.0	83.5	0.0
38°	1521.7	1523.3	1479.2	1429.5	1317.7	1074.3	869.5	816.8	709.7	60.6	0.0
39°	1476.0	1476.8	1431.1	1388.6	1257.1	1009.0	835.7	811.3	674.2	38.6	0.0
40°	1439.8	1439.0	1387.0	1341.3	1191.7	947.5	817.6	803.4	634.8	22.1	0.0
42.5°	1170.4	1175.1	1181.4	1200.3	1038.1	839.6	800.2	759.3	523.0	0.0	0.0
45°	763.2	781.3	786.1	842.8	842.0	795.5	759.3	680.5	386.7	0.0	0.0
47.5°	726.2	731.7	741.9	764.0	775.8	753.0	678.9	568.7	211.1	0.0	0.0
50°	740.4	739.6	741.9	741.9	720.7	661.6	556.9	419.8	40.2	0.0	0.0
52.5°	531.6	551.3	572.6	582.1	554.5	492.3	406.4	246.5	0.0	0.0	0.0
55°	188.2	181.9	177.2	193.8	189.8	213.4	176.4	57.5	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.8	3.2	7.1	9.5	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.6
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.6



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	10°	15°	20°	25°	30°	35°	45°	67.5°	90°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	1.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	1.6
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):**

	112.5°	135°	157.5°	180°
0°	498.6	498.6	498.6	498.6
2.5°	399.3	306.4	248.1	252.0
5°	280.4	141.8	87.4	70.9
7.5°	167.8	43.3	8.7	7.1
10°	78.8	7.1	7.9	9.5
12.5°	23.6	6.3	8.7	7.9
15°	6.3	7.1	3.9	2.4
17.5°	2.4	3.2	0.0	0.0
20°	1.6	0.0	0.0	0.0
21°	1.6	0.0	0.0	0.0
22°	0.8	0.0	0.0	0.0
23°	0.0	0.0	0.0	0.0
24°	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0
26°	0.0	0.0	0.0	0.0
27°	0.0	0.0	0.0	0.0
28°	0.0	0.0	0.0	0.0
29°	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0
31°	0.0	0.0	0.0	0.0
32°	0.0	0.0	0.0	0.0
33°	0.0	0.0	0.0	0.0
34°	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0
36°	0.0	0.0	0.0	0.0
37°	0.0	0.0	0.0	0.0
38°	0.0	0.0	0.0	0.0
39°	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0
65°	0.8	0.0	0.0	0.0
67.5°	0.8	0.0	0.0	0.0
70°	0.8	0.0	0.0	0.0
72.5°	0.8	0.0	0.0	0.0
75°	0.8	0.0	0.0	0.0
77.5°	0.8	0.0	0.0	0.0
80°	0.8	0.8	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	112.5°	135°	157.5°	180°
82.5°	0.8	0.8	0.0	0.0
85°	0.8	0.8	0.0	0.0
87.5°	0.8	0.8	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)