

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: P1310233

Luminaire Tested: LDSQA3D09R459035DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

**Test Information**

Test Method: LM-79-2019  
Report Number: P1310233  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/29/2026  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: PORTFOLIO  
Catalog Number: LDSQA3D09R459035DE010 3LSQCA30R 1MW  
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM  
Light Source: -  
Ballast/Driver: -

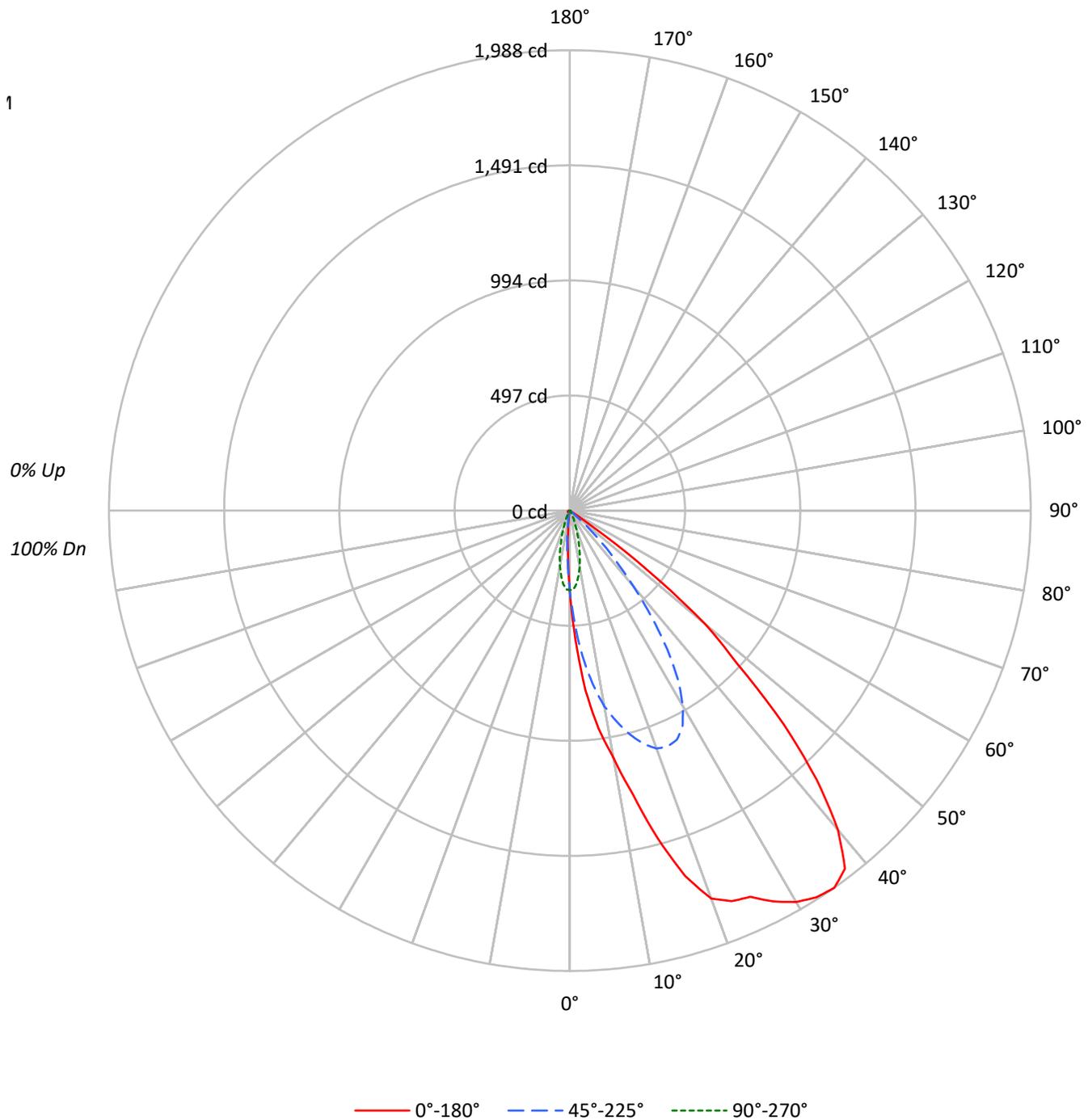
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 901.0 lumens  
Efficiency: N/A  
Efficacy: 81.2 lumens/watt  
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22  
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

TEST NUMBER: P1310233  
CATALOG NUMBER: LDSQA3D09R459035DE010 3LSQCA30R 1MW

### 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	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	93	90	95	91	88	91	88	86	89	86	84	89	86	84	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	82	79	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	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	81	70	63	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	57	52	62	56	51	61	55	51	60	55	51	60	55	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	55	50	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	51	46	42	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°	59038	59038	59038	59038	59038
5°	134570	109157	55235	22146	15110
10°	189622	149959	42688	4879	2238
15°	261314	178423	27280	1605	1337
20°	326744	200375	14222	1100	1100
25°	349668	207471	6594	855	1007
30°	388106	193755	3003	895	1054
35°	418072	154467	946	946	1261
40°	404542	95706	517	1192	1529
45°	317675	45156	560	1461	1827
50°	204110	5251	804	1822	2411
55°	30987	450	901	2252	2943
60°	517	517	1033	2583	3100
65°	611	611	1223	2771	3668
70°	755	755	1511	3021	4179
75°	532	998	1996	3527	4525
80°	793	1488	2281	3769	5256
85°	0	1581	2964	4545	4545

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 45°  
 Luminance: 317675 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.5	4.2
10°-20°	135.7	15.1
20°-30°	238.3	26.5
30°-40°	270.6	30.0
40°-50°	175.2	19.4
50°-60°	34.4	3.8
60°-70°	4.2	0.5
70°-80°	3.5	0.4
80°-90°	1.6	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°	411.5	45.7
0°-40°	682.1	75.7
0°-60°	891.8	99.0
0°-90°	901.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	901.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	343	343	343	343	343	
5°	778	631	320	128	87	83
15°	1466	1001	153	9	8	422
25°	1840	1092	35	4	5	863
35°	1988	735	4	4	6	1222
45°	1304	185	2	6	8	983
55°	103	2	3	8	10	197
65°	2	2	3	7	9	1
75°	1	2	3	5	7	1
85°	0	1	2	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°	342.8	342.8	342.8	342.8	342.8	342.8	342.8	342.8	342.8	342.8	342.8
2.5°	556.8	555.3	557.6	542.5	541.8	530.5	527.5	514.6	497.3	489.0	469.4
5°	778.4	770.8	770.8	752.8	746.7	733.9	712.1	684.9	662.3	631.4	598.3
7.5°	949.4	947.9	947.9	932.1	917.0	898.9	869.6	838.7	802.5	755.0	706.8
10°	1084.3	1086.6	1079.8	1065.5	1043.6	1024.0	989.4	951.7	907.2	857.5	793.4
12.5°	1254.6	1238.0	1232.7	1200.3	1172.5	1134.8	1093.3	1050.4	995.4	932.8	860.5
15°	1465.6	1444.5	1423.4	1380.4	1333.7	1275.7	1210.9	1147.6	1076.8	1000.7	910.2
17.5°	1654.0	1654.0	1626.1	1558.3	1498.0	1412.1	1324.7	1240.3	1156.6	1056.4	943.4
20°	1782.8	1776.0	1754.9	1705.2	1636.6	1539.4	1425.6	1307.3	1206.4	1093.3	962.2
22.5°	1825.0	1823.5	1824.3	1794.9	1739.9	1638.9	1499.5	1360.1	1233.5	1102.4	953.2
25°	1840.1	1843.1	1850.6	1839.3	1797.9	1696.9	1544.7	1385.0	1241.8	1091.8	918.5
27.5°	1902.6	1896.6	1904.9	1897.3	1850.6	1730.1	1553.7	1378.9	1223.7	1053.4	856.7
30°	1951.6	1950.1	1964.4	1957.6	1896.6	1751.2	1545.5	1356.3	1179.2	974.3	759.5
32.5°	1979.5	1980.2	1984.0	1956.1	1865.7	1705.2	1504.8	1310.4	1095.6	871.1	633.0
35°	1988.5	1984.0	1962.9	1894.3	1770.8	1599.0	1404.5	1201.1	981.8	734.7	500.3
37.5°	1949.3	1926.0	1871.7	1769.2	1626.1	1465.6	1276.5	1063.2	825.9	580.2	373.0
40°	1799.4	1768.5	1699.9	1595.2	1461.8	1306.6	1112.9	889.9	640.5	425.7	262.2
42.5°	1574.8	1559.0	1487.4	1396.3	1283.2	1126.5	926.8	700.8	474.0	293.9	167.3
45°	1304.3	1284.0	1238.8	1158.1	1069.2	905.0	718.9	501.8	323.3	185.4	82.9
47.5°	978.1	979.6	948.7	887.6	800.2	663.1	492.0	336.8	202.7	95.7	18.8
50°	761.8	751.3	707.5	645.0	543.3	441.6	318.0	212.5	107.0	19.6	1.5
52.5°	422.0	428.7	405.4	385.0	332.3	263.7	187.6	107.8	22.6	2.3	1.5
55°	103.2	109.3	104.7	107.0	110.8	98.7	76.1	21.1	2.3	1.5	1.5
57.5°	2.3	2.3	2.3	2.3	3.8	5.3	5.3	1.5	1.5	1.5	1.5
60°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
62.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
65°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
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	0.8	1.5	1.5	1.5	1.5	1.5	1.5	1.5
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5	1.5
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5	1.5
82.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	1.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
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°	342.8	342.8	342.8	342.8	342.8	342.8	342.8	342.8
2.5°	459.6	445.3	419.0	340.6	273.5	220.8	189.1	186.1
5°	568.9	530.5	474.7	319.5	201.9	128.1	92.7	87.4
7.5°	655.6	601.3	515.4	284.8	137.9	65.6	36.2	30.1
10°	727.1	650.3	536.5	244.1	86.7	27.9	15.1	12.8
12.5°	776.1	683.4	540.3	198.9	49.7	13.6	9.8	9.0
15°	807.8	694.0	522.2	153.0	27.9	9.0	8.3	7.5
17.5°	820.6	684.9	487.5	110.8	15.1	6.8	6.8	6.8
20°	814.5	655.6	436.3	77.6	9.8	6.0	6.0	6.0
22.5°	785.9	605.1	372.2	52.0	6.8	5.3	5.3	5.3
25°	729.4	536.5	304.4	34.7	4.5	4.5	5.3	5.3
27.5°	645.0	452.1	232.8	23.4	3.8	4.5	5.3	5.3
30°	538.8	357.9	167.3	15.1	3.8	4.5	4.5	5.3
32.5°	428.0	260.7	110.0	9.0	3.0	4.5	5.3	6.0
35°	310.4	177.8	70.1	4.5	3.8	4.5	5.3	6.0
37.5°	217.8	116.0	40.7	3.0	3.8	4.5	6.0	6.0
40°	141.7	64.8	15.1	2.3	3.8	5.3	6.0	6.8
42.5°	73.8	22.6	3.0	2.3	3.8	5.3	6.8	7.5
45°	18.8	3.0	0.8	2.3	4.5	6.0	7.5	7.5
47.5°	2.3	0.8	0.8	3.0	4.5	6.8	7.5	8.3
50°	0.8	1.5	1.5	3.0	4.5	6.8	8.3	9.0
52.5°	1.5	1.5	1.5	3.0	5.3	6.8	9.0	9.8
55°	1.5	1.5	1.5	3.0	5.3	7.5	9.0	9.8
57.5°	1.5	1.5	1.5	3.0	5.3	7.5	9.0	9.0
60°	1.5	1.5	1.5	3.0	5.3	7.5	9.0	9.0
62.5°	1.5	1.5	2.3	3.0	5.3	6.8	9.0	9.0
65°	1.5	2.3	2.3	3.0	5.3	6.8	8.3	9.0
67.5°	1.5	1.5	2.3	3.0	5.3	6.8	8.3	9.0
70°	1.5	1.5	2.3	3.0	4.5	6.0	7.5	8.3
72.5°	1.5	1.5	2.3	3.0	4.5	6.0	6.8	7.5
75°	1.5	1.5	2.3	3.0	3.8	5.3	6.8	6.8
77.5°	1.5	1.5	2.3	2.3	3.8	4.5	6.0	6.0
80°	1.5	1.5	2.3	2.3	3.0	3.8	4.5	5.3
82.5°	1.5	1.5	1.5	2.3	2.3	3.0	3.8	3.8
85°	1.5	1.5	1.5	1.5	1.5	2.3	2.3	2.3
87.5°	0.8	1.5	1.5	1.5	1.5	1.5	1.5	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)