

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: P1315481

Luminaire Tested: LDSQA3D09R409735DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1315481
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: LDSQA3D09R409735DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R40 optic, 3500K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

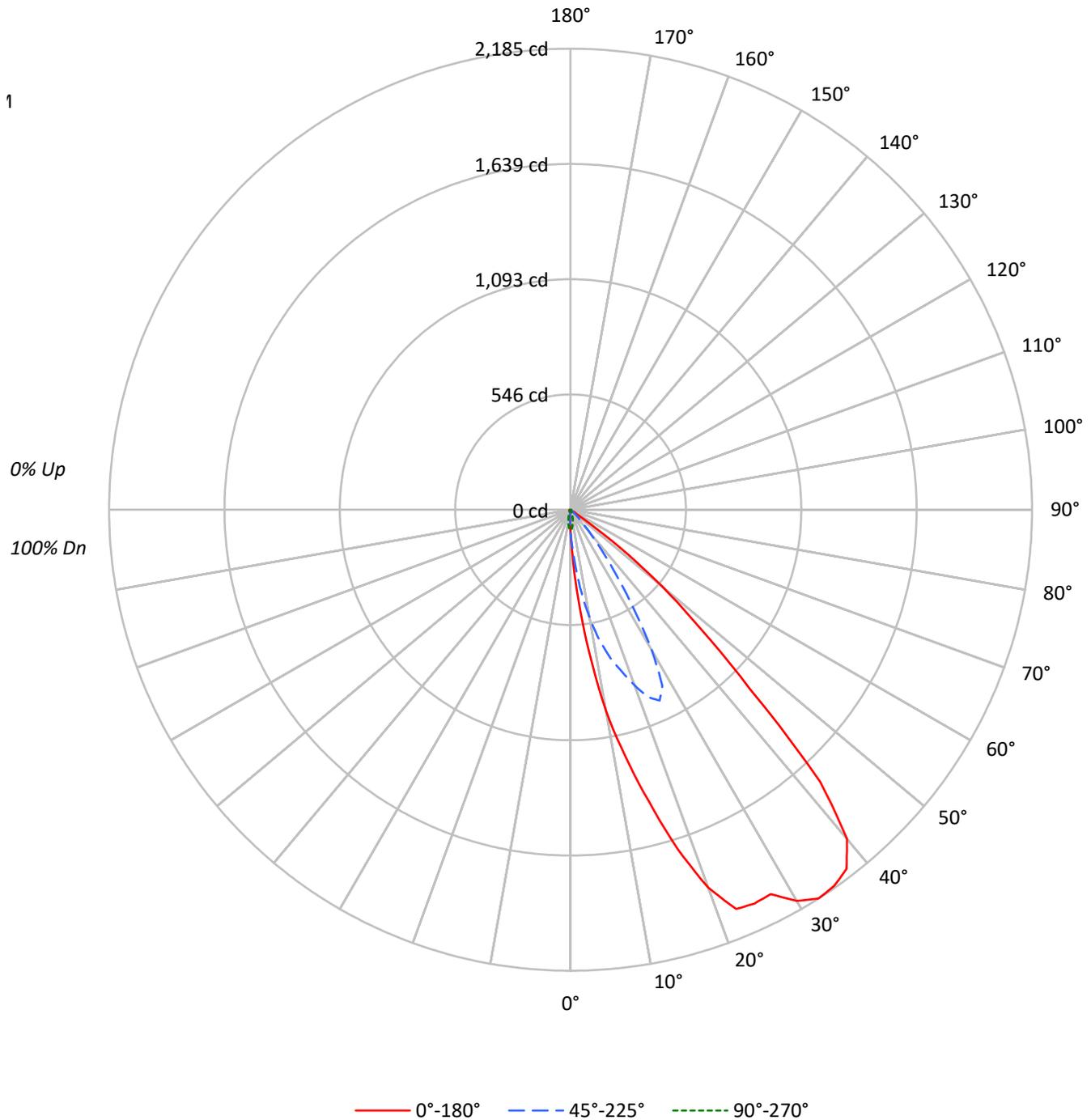
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 806.0 lumens
Efficiency: N/A
Efficacy: 72.6 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 (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

TEST NUMBER: P1315481
CATALOG NUMBER: LDSQA3D09R409735DE010 3LSQCA30R 1MW

Luminous Intensity Polar Plot





TEST NUMBER: P1315481

CATALOG NUMBER: LDSQA3D09R409735DE010 3LSQCA30R 1MW

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	100	100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91	91	91	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	82	82	82	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	74	74	74	74
4	92	83	77	71	90	82	76	71	80	74	70	78	73	69	76	72	68	67	67	67	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60	60	60	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54	54	54	54
7	75	64	57	52	74	63	56	52	62	56	51	61	55	51	59	54	51	49	49	49	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	44	44	44	44
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40	40	40	40
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	16430	16430	16430	16430	16430
5°	74079	47231	14729	5653	4115
10°	169878	91252	10370	2029	1556
15°	254948	129480	6437	1088	963
20°	349085	162309	3739	623	751
25°	391322	189647	1938	513	646
30°	425652	153087	815	398	676
35°	457451	78337	294	568	862
40°	457623	31250	157	607	1079
45°	292174	10449	341	999	1486
50°	151676	1286	536	1286	1822
55°	13091	210	601	1621	2252
60°	482	241	689	1860	2583
65°	571	285	1100	1956	2771
70°	352	352	1360	2065	2719
75°	466	466	1331	2262	3194
80°	694	694	1984	1984	2678
85°	0	1383	3952	2766	2766

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 292174 cd/sqm



TEST NUMBER: P1315481

CATALOG NUMBER: LDSQA3D09R409735DE010 3LSQCA30R 1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.6	2.3
10°-20°	109.1	13.5
20°-30°	238.9	29.6
30°-40°	272.2	33.8
40°-50°	143.6	17.8
50°-60°	16.9	2.1
60°-70°	3.0	0.4
70°-80°	2.5	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°	366.6	45.5
0°-40°	638.8	79.3
0°-60°	799.3	99.2
0°-90°	806.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	806.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	95	95	95	95	95	
5°	428	273	85	33	24	58
15°	1430	726	36	6	5	421
25°	2059	998	10	3	3	949
35°	2176	373	1	3	4	1349
45°	1200	43	1	4	6	967
55°	44	1	2	5	8	135
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	



TEST NUMBER: P1315481

CATALOG NUMBER: LDSQA3D09R409735DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	67.5°
0°	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4	95.4
2.5°	212.5	212.5	211.9	205.7	205.0	204.4	193.5	190.7	177.8	168.9	128.7
5°	428.5	418.9	418.3	407.4	389.0	364.5	348.8	323.6	299.1	273.2	158.7
7.5°	682.6	690.8	668.3	656.7	615.8	586.5	541.6	502.1	446.9	395.1	183.2
10°	971.4	957.1	934.6	912.1	867.9	815.4	748.7	678.5	598.8	521.8	196.9
12.5°	1196.9	1178.5	1164.9	1134.2	1090.6	1023.2	943.5	849.5	743.9	632.9	196.2
15°	1429.9	1411.5	1380.8	1353.6	1288.9	1213.2	1126.7	1002.8	873.3	726.2	181.9
17.5°	1686.0	1662.2	1628.1	1586.6	1523.9	1440.1	1330.4	1179.2	995.9	802.5	156.0
20°	1904.7	1890.4	1856.3	1807.3	1746.0	1664.2	1537.5	1369.9	1146.5	885.6	124.0
22.5°	2047.7	2034.8	2011.6	1968.7	1922.4	1835.2	1719.4	1535.5	1272.5	961.2	94.0
25°	2059.3	2053.9	2047.7	2033.4	2005.5	1943.5	1830.4	1632.2	1350.9	998.0	69.5
27.5°	2053.2	2051.1	2049.8	2042.3	2023.9	1962.6	1846.8	1646.5	1340.6	940.8	51.1
30°	2140.4	2134.3	2130.8	2106.3	2058.0	1963.3	1812.0	1569.5	1191.4	769.8	36.8
32.5°	2184.7	2183.3	2179.9	2156.1	2087.9	1964.6	1753.5	1383.6	944.8	555.9	25.2
35°	2175.8	2169.0	2156.7	2112.5	2017.8	1863.1	1564.1	1104.9	681.9	372.6	16.3
37.5°	2145.8	2130.2	2106.3	2026.6	1900.6	1689.4	1268.4	813.4	463.9	241.2	9.5
40°	2035.5	2014.4	1976.9	1879.5	1713.9	1392.4	938.0	549.7	304.5	139.0	2.7
42.5°	1750.0	1722.8	1695.5	1586.6	1397.2	1038.2	617.2	339.9	173.7	76.3	0.7
45°	1199.6	1165.6	1128.1	1049.1	897.2	628.8	367.2	191.4	89.9	42.9	0.7
47.5°	833.1	817.5	752.1	651.2	499.3	333.1	190.1	94.0	47.7	19.8	0.7
50°	566.1	548.4	472.1	374.7	265.7	159.4	87.2	47.0	21.1	4.8	0.7
52.5°	297.0	275.2	226.8	173.0	107.6	66.8	38.1	20.4	6.1	0.7	0.7
55°	43.6	40.2	32.7	26.6	23.8	18.4	10.9	4.8	0.7	0.7	1.4
57.5°	1.4	1.4	1.4	1.4	2.0	2.0	1.4	0.7	0.7	0.7	1.4
60°	1.4	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	0.7	1.4
62.5°	1.4	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	0.7	1.4
65°	1.4	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	0.7	1.4
67.5°	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	0.7	1.4	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	1.4	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	1.4	2.0
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	1.4
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	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1315481

CATALOG NUMBER: LDSQA3D09R409735DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	90°	112.5°	135°	157.5°	180°
0°	95.4	95.4	95.4	95.4	95.4
2.5°	94.0	69.5	53.8	46.3	45.6
5°	85.2	49.7	32.7	25.2	23.8
7.5°	72.2	34.7	19.1	13.6	12.9
10°	59.3	23.8	11.6	9.5	8.9
12.5°	47.0	15.7	8.2	7.5	6.8
15°	36.1	10.2	6.1	5.4	5.4
17.5°	27.2	6.8	4.8	4.8	4.8
20°	20.4	4.8	3.4	4.1	4.1
22.5°	14.3	3.4	2.7	3.4	3.4
25°	10.2	2.7	2.7	3.4	3.4
27.5°	6.8	2.0	2.0	2.7	3.4
30°	4.1	1.4	2.0	2.7	3.4
32.5°	2.0	1.4	2.0	3.4	3.4
35°	1.4	2.0	2.7	3.4	4.1
37.5°	0.7	2.0	2.7	4.1	4.1
40°	0.7	2.0	2.7	4.1	4.8
42.5°	1.4	2.7	3.4	4.8	5.4
45°	1.4	2.7	4.1	5.4	6.1
47.5°	1.4	2.7	4.8	6.1	6.1
50°	2.0	3.4	4.8	6.1	6.8
52.5°	2.0	3.4	4.8	6.8	7.5
55°	2.0	3.4	5.4	6.8	7.5
57.5°	2.0	4.1	5.4	6.8	7.5
60°	2.0	3.4	5.4	6.8	7.5
62.5°	2.7	3.4	4.8	6.8	6.8
65°	2.7	3.4	4.8	6.8	6.8
67.5°	2.7	3.4	4.8	6.1	6.1
70°	2.7	3.4	4.1	5.4	5.4
72.5°	2.7	3.4	4.1	4.8	5.4
75°	2.0	2.7	3.4	4.1	4.8
77.5°	2.0	2.7	2.7	4.1	4.1
80°	2.0	2.0	2.0	2.7	2.7
82.5°	2.0	2.0	1.4	2.0	2.0
85°	2.0	1.4	1.4	1.4	1.4
87.5°	1.4	1.4	0.7	0.7	0.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)