

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: P1316001

Luminaire Tested: LDSQA3D20R709735D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316001
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-70)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D20R709735D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

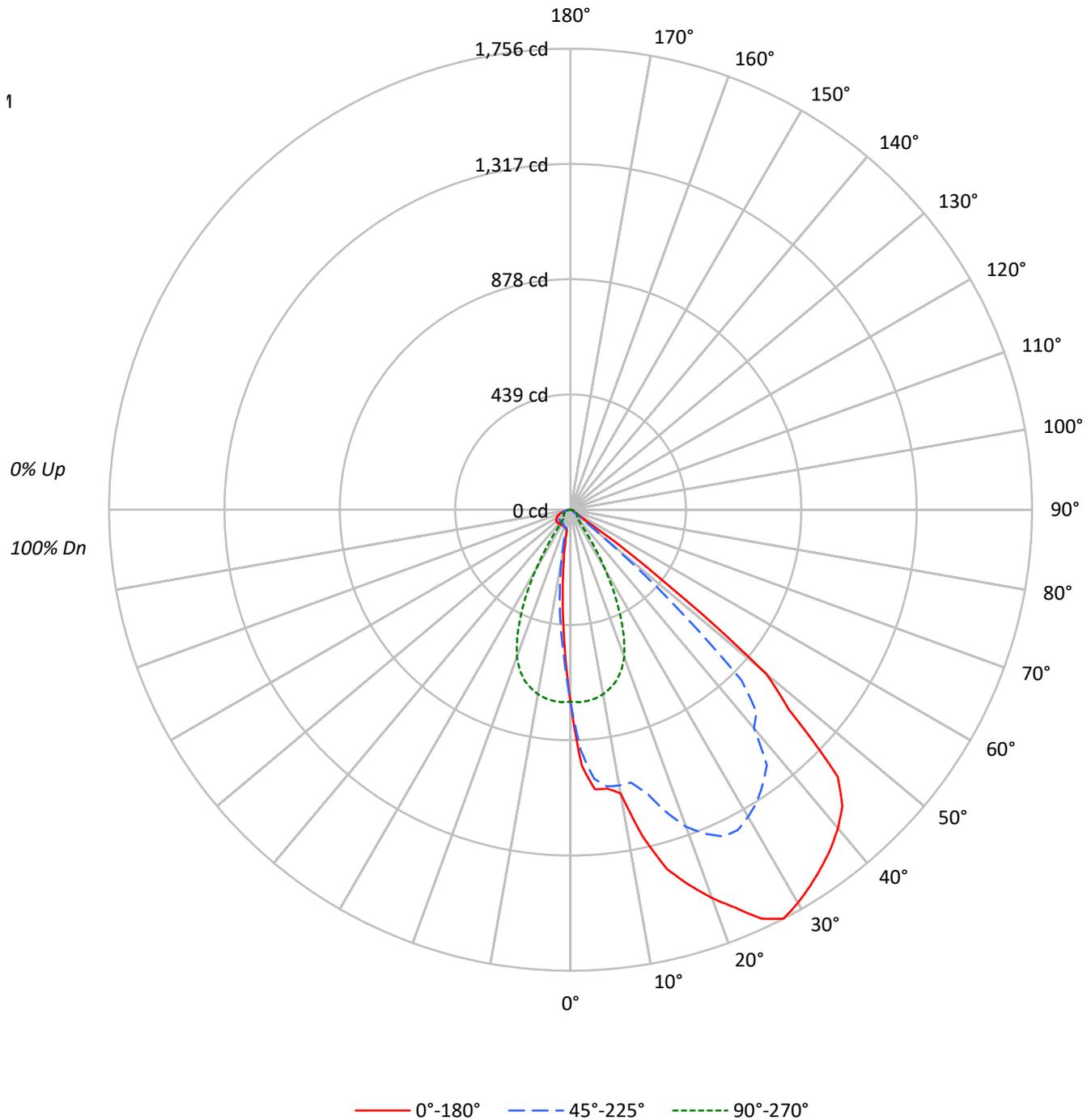
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1387.9 lumens
Efficiency: N/A
Efficacy: 48.2 lumens/watt
Spacing Criteria (0/90/45): 1.69 / 0.89 / 1.39
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 28.8
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

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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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90	90	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80	80	80
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	71	71	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64	64	64
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	62	59	57	57	57
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51	51	51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46	46	46
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	42	42	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38	38	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	35	35	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	125860	125860	125860	125860	125860
5°	184878	177790	126341	75428	59091
10°	191703	186456	124776	36078	14602
15°	252452	198820	120191	12909	12641
20°	288366	235546	109397	12408	12701
25°	326523	260983	85892	11972	12561
30°	343898	268727	53236	11892	13463
35°	349658	268210	17555	12257	14234
40°	355846	243953	8498	13107	15580
45°	350214	224026	8817	13810	16879
50°	260348	41342	8869	15192	18568
55°	20808	5675	9458	16064	19847
60°	4340	5959	9231	16258	20598
65°	4483	5787	8965	16056	21191
70°	3978	5539	8711	15056	20595
75°	3127	5257	7320	14639	19896
80°	3075	4661	7835	14083	18745
85°	3162	6126	9287	12449	15611

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 354452 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.5	4.8
10°-20°	187.0	13.5
20°-30°	314.0	22.6
30°-40°	377.6	27.2
40°-50°	299.3	21.6
50°-60°	95.8	6.9
60°-70°	26.7	1.9
70°-80°	15.9	1.1
80°-90°	5.0	0.4
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°	567.5	40.9
0°-40°	945.2	68.1
0°-60°	1340.2	96.6
0°-90°	1387.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1387.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	731	731	731	731	731	
5°	1069	1028	731	436	342	101
15°	1416	1115	674	72	71	398
25°	1718	1373	452	63	66	786
35°	1663	1276	84	58	68	1042
45°	1438	920	36	57	69	1033
55°	69	19	32	54	66	217
65°	11	14	22	39	52	11
75°	5	8	11	22	30	6
85°	2	3	5	6	8	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°	730.8	730.8	730.8	730.8	730.8	730.8	730.8	730.8	730.8	730.8	730.8
2.5°	974.9	981.2	981.2	973.3	976.5	963.9	954.4	940.2	937.1	919.8	897.7
5°	1069.4	1066.2	1066.2	1059.9	1063.1	1058.4	1053.6	1050.5	1041.0	1028.4	1015.8
7.5°	1071.0	1074.1	1075.7	1074.1	1080.4	1075.7	1075.7	1075.7	1069.4	1063.1	1050.5
10°	1096.2	1091.4	1086.7	1075.7	1069.4	1064.7	1064.7	1066.2	1069.4	1066.2	1058.4
12.5°	1277.3	1260.0	1252.1	1225.3	1204.8	1170.2	1130.8	1100.9	1074.1	1064.7	1058.4
15°	1415.9	1412.7	1397.0	1371.8	1346.6	1305.6	1260.0	1214.3	1165.5	1115.1	1078.8
17.5°	1497.8	1491.5	1475.7	1449.0	1419.0	1381.2	1345.0	1310.4	1263.1	1206.4	1148.1
20°	1573.4	1559.2	1538.7	1507.2	1477.3	1441.1	1401.7	1368.6	1329.3	1285.2	1217.4
22.5°	1641.1	1628.5	1595.4	1552.9	1523.0	1488.3	1453.7	1422.2	1386.0	1335.6	1274.1
25°	1718.3	1689.9	1636.4	1581.3	1545.0	1516.7	1491.5	1466.3	1428.5	1373.4	1300.9
27.5°	1756.1	1716.7	1658.4	1603.3	1568.7	1538.7	1512.0	1486.8	1444.2	1376.5	1293.0
30°	1729.3	1707.2	1666.3	1623.8	1595.4	1567.1	1535.6	1497.8	1430.1	1351.3	1274.1
32.5°	1697.8	1686.8	1667.9	1642.7	1625.3	1597.0	1552.9	1491.5	1397.0	1319.8	1236.3
35°	1663.1	1658.4	1652.1	1641.1	1630.1	1603.3	1548.2	1458.4	1363.9	1275.7	1195.4
37.5°	1626.9	1622.2	1626.9	1625.3	1615.9	1581.3	1497.8	1414.3	1316.7	1226.9	1071.0
40°	1582.8	1579.7	1587.5	1595.4	1584.4	1538.7	1449.0	1348.2	1261.5	1085.1	1031.6
42.5°	1530.9	1529.3	1543.5	1549.8	1534.0	1466.3	1360.8	1286.7	1104.0	1047.3	921.3
45°	1437.9	1441.1	1447.4	1455.3	1445.8	1371.8	1275.7	1140.3	1059.9	919.8	524.5
47.5°	1126.1	1129.2	1160.7	1226.9	1272.6	1247.4	1165.5	1064.7	948.1	526.0	165.4
50°	971.7	968.6	970.2	985.9	1022.1	1056.8	1031.6	976.5	565.4	154.3	20.5
52.5°	426.8	474.1	524.5	666.2	757.6	853.6	872.5	611.1	184.3	20.5	20.5
55°	69.3	72.4	91.3	133.9	241.0	363.8	441.0	204.7	18.9	18.9	18.9
57.5°	14.2	14.2	14.2	15.7	23.6	50.4	58.3	17.3	17.3	17.3	18.9
60°	12.6	12.6	12.6	12.6	14.2	14.2	14.2	15.7	15.7	17.3	17.3
62.5°	12.6	12.6	12.6	12.6	12.6	12.6	14.2	14.2	15.7	15.7	17.3
65°	11.0	11.0	11.0	11.0	12.6	12.6	12.6	14.2	14.2	14.2	15.7
67.5°	9.4	9.4	9.4	9.4	11.0	11.0	11.0	12.6	12.6	12.6	14.2
70°	7.9	7.9	7.9	7.9	9.4	9.4	9.4	9.4	11.0	11.0	11.0
72.5°	6.3	6.3	6.3	6.3	7.9	7.9	7.9	7.9	9.4	9.4	9.4
75°	4.7	4.7	6.3	6.3	6.3	6.3	6.3	6.3	7.9	7.9	7.9
77.5°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	6.3	6.3	6.3	6.3
80°	3.1	3.1	3.1	3.1	3.1	3.1	4.7	4.7	4.7	4.7	4.7
82.5°	1.6	1.6	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.1	3.1	3.1	3.1
87.5°	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6	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):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	730.8	730.8	730.8	730.8	730.8	730.8	730.8	730.8
2.5°	883.5	861.5	831.6	733.9	644.2	562.3	521.3	516.6
5°	995.4	974.9	924.5	730.8	559.1	436.3	362.2	341.8
7.5°	1037.9	1020.6	976.5	724.5	478.8	313.4	229.9	198.4
10°	1048.9	1037.9	1000.1	713.5	395.3	206.3	108.7	83.5
12.5°	1053.6	1045.8	1009.5	696.1	311.8	107.1	74.0	74.0
15°	1061.5	1053.6	1019.0	674.1	229.9	72.4	70.9	70.9
17.5°	1096.2	1071.0	1031.6	641.0	151.2	69.3	69.3	69.3
20°	1152.9	1097.7	1037.9	596.9	94.5	67.7	67.7	69.3
22.5°	1200.1	1126.1	1036.3	530.8	69.3	64.6	66.1	67.7
25°	1220.6	1138.7	1022.1	452.0	59.8	63.0	66.1	66.1
27.5°	1217.4	1143.4	1009.5	362.2	56.7	61.4	64.6	67.7
30°	1200.1	1130.8	981.2	267.7	53.5	59.8	64.6	67.7
32.5°	1170.2	1082.0	924.5	173.2	52.0	59.8	64.6	67.7
35°	1072.5	1003.2	842.6	83.5	50.4	58.3	66.1	67.7
37.5°	1015.8	919.8	642.6	40.9	48.8	58.3	66.1	67.7
40°	924.5	686.7	289.8	37.8	48.8	58.3	66.1	69.3
42.5°	581.2	281.9	47.2	36.2	47.2	58.3	66.1	69.3
45°	212.6	37.8	25.2	36.2	47.2	56.7	66.1	69.3
47.5°	22.0	22.0	23.6	34.6	45.7	56.7	66.1	69.3
50°	20.5	22.0	23.6	33.1	44.1	56.7	64.6	69.3
52.5°	20.5	22.0	23.6	33.1	42.5	55.1	64.6	69.3
55°	20.5	22.0	22.0	31.5	40.9	53.5	63.0	66.1
57.5°	18.9	20.5	22.0	29.9	39.4	50.4	61.4	64.6
60°	18.9	20.5	22.0	26.8	37.8	47.2	58.3	59.8
62.5°	17.3	18.9	20.5	25.2	34.6	44.1	53.5	56.7
65°	17.3	17.3	18.9	22.0	31.5	39.4	48.8	52.0
67.5°	14.2	15.7	15.7	18.9	26.8	34.6	44.1	47.2
70°	12.6	12.6	14.2	17.3	23.6	29.9	37.8	40.9
72.5°	11.0	11.0	11.0	14.2	20.5	26.8	33.1	36.2
75°	9.4	9.4	9.4	11.0	17.3	22.0	28.3	29.9
77.5°	7.9	7.9	7.9	9.4	14.2	18.9	22.0	25.2
80°	6.3	6.3	6.3	7.9	11.0	14.2	17.3	18.9
82.5°	4.7	4.7	4.7	6.3	7.9	9.4	12.6	12.6
85°	3.1	3.1	3.1	4.7	4.7	6.3	7.9	7.9
87.5°	1.6	1.6	1.6	3.1	3.1	3.1	3.1	3.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)