

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: P1318725

Luminaire Tested: LDSQA3D20R709830D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1318725
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: LDSQA3D20R709830D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 3000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

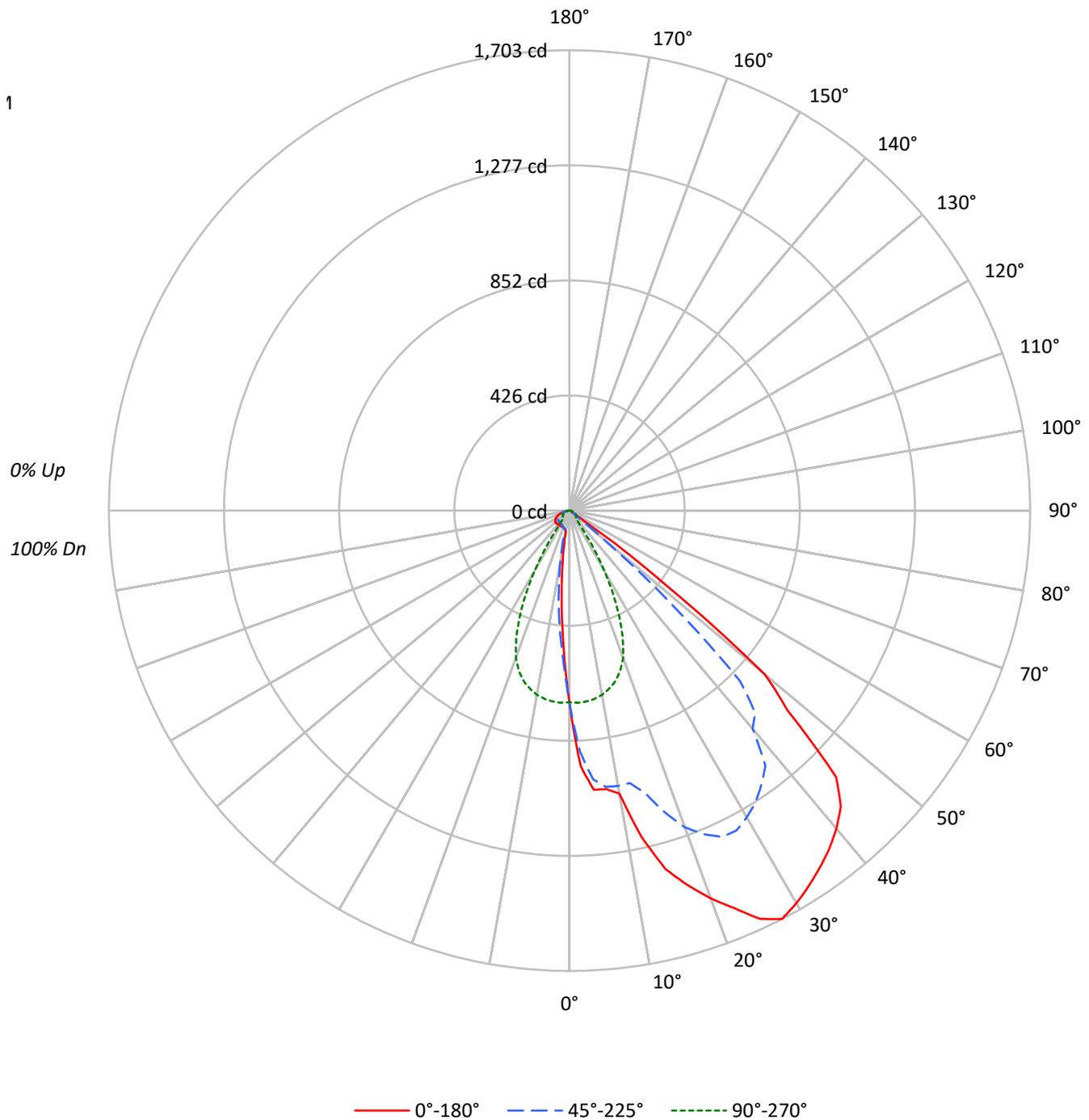
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1346.0 lumens
Efficiency: N/A
Efficacy: 49.1 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): 27.4
Input Voltage (V): NR
Input Current (A_{in}): 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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	64
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	62	59	57
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	46
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	122054	122054	122054	122054	122054
5°	179277	172414	122520	73146	57293
10°	185897	180825	120999	34993	14148
15°	244803	192794	116553	12534	12249
20°	279642	228416	106080	12041	12316
25°	316641	253078	83289	11611	12181
30°	333498	260593	51626	11534	13065
35°	339083	260094	17009	11879	13813
40°	345077	236579	8251	12702	15108
45°	339619	217231	8549	13396	16367
50°	252471	40109	8601	14736	18005
55°	20178	5495	9158	15584	19247
60°	4202	5787	8956	15776	19978
65°	4360	5583	8721	15567	20539
70°	3827	5388	8460	14603	19991
75°	3061	5057	7120	14240	19297
80°	3075	4562	7538	13588	18150
85°	2964	6126	9090	12054	15018

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 343711 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	4.8
10°-20°	181.4	13.5
20°-30°	304.5	22.6
30°-40°	366.2	27.2
40°-50°	290.3	21.6
50°-60°	92.9	6.9
60°-70°	25.9	1.9
70°-80°	15.5	1.1
80°-90°	4.9	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°	550.4	40.9
0°-40°	916.6	68.1
0°-60°	1299.7	96.6
0°-90°	1346.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1346.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	709	709	709	709	709	
5°	1037	997	709	423	331	98
15°	1373	1081	654	70	69	386
25°	1666	1332	438	61	64	762
35°	1613	1237	81	56	66	1010
45°	1394	892	35	55	67	1002
55°	67	18	30	52	64	210
65°	11	14	21	38	50	10
75°	5	8	11	21	29	5
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°	708.7	708.7	708.7	708.7	708.7	708.7	708.7	708.7	708.7	708.7	708.7
2.5°	945.4	951.5	951.5	943.9	946.9	934.7	925.5	911.8	908.7	891.9	870.6
5°	1037.0	1034.0	1034.0	1027.9	1030.9	1026.3	1021.8	1018.7	1009.5	997.3	985.1
7.5°	1038.6	1041.6	1043.1	1041.6	1047.7	1043.1	1043.1	1043.1	1037.0	1030.9	1018.7
10°	1063.0	1058.4	1053.8	1043.1	1037.0	1032.5	1032.5	1034.0	1037.0	1034.0	1026.3
12.5°	1238.6	1221.8	1214.2	1188.2	1168.4	1134.8	1096.6	1067.6	1041.6	1032.5	1026.3
15°	1373.0	1370.0	1354.7	1330.3	1305.8	1266.1	1221.8	1177.5	1130.2	1081.3	1046.2
17.5°	1452.5	1446.3	1431.1	1405.1	1376.1	1339.4	1304.3	1270.7	1224.9	1169.9	1113.4
20°	1525.8	1512.0	1492.2	1461.6	1432.6	1397.5	1359.3	1327.2	1289.0	1246.3	1180.6
22.5°	1591.4	1579.2	1547.1	1505.9	1476.9	1443.3	1409.7	1379.1	1344.0	1295.1	1235.6
25°	1666.3	1638.8	1586.9	1533.4	1498.3	1470.8	1446.3	1421.9	1385.3	1331.8	1261.5
27.5°	1702.9	1664.7	1608.2	1554.8	1521.2	1492.2	1466.2	1441.8	1400.5	1334.9	1253.9
30°	1677.0	1655.6	1615.9	1574.6	1547.1	1519.7	1489.1	1452.5	1386.8	1310.4	1235.6
32.5°	1646.4	1635.7	1617.4	1593.0	1576.2	1548.7	1505.9	1446.3	1354.7	1279.9	1198.9
35°	1612.8	1608.2	1602.1	1591.4	1580.7	1554.8	1501.3	1414.3	1322.6	1237.1	1159.2
37.5°	1577.7	1573.1	1577.7	1576.2	1567.0	1533.4	1452.5	1371.5	1276.8	1189.8	1038.6
40°	1534.9	1531.9	1539.5	1547.1	1536.5	1492.2	1405.1	1307.4	1223.4	1052.3	1000.4
42.5°	1484.5	1483.0	1496.7	1502.9	1487.6	1421.9	1319.6	1247.8	1070.6	1015.7	893.5
45°	1394.4	1397.5	1403.6	1411.2	1402.1	1330.3	1237.1	1105.8	1027.9	891.9	508.6
47.5°	1092.0	1095.1	1125.6	1189.8	1234.1	1209.6	1130.2	1032.5	919.4	510.1	160.4
50°	942.3	939.3	940.8	956.1	991.2	1024.8	1000.4	946.9	548.3	149.7	19.9
52.5°	413.9	459.7	508.6	646.0	734.6	827.8	846.1	592.6	178.7	19.9	19.9
55°	67.2	70.3	88.6	129.8	233.7	352.8	427.6	198.5	18.3	18.3	18.3
57.5°	13.7	13.7	13.7	15.3	22.9	48.9	56.5	16.8	16.8	16.8	18.3
60°	12.2	12.2	12.2	12.2	13.7	13.7	13.7	15.3	15.3	16.8	16.8
62.5°	12.2	12.2	12.2	12.2	12.2	12.2	13.7	13.7	15.3	15.3	16.8
65°	10.7	10.7	10.7	10.7	12.2	12.2	12.2	12.2	13.7	13.7	15.3
67.5°	9.2	9.2	9.2	9.2	10.7	10.7	10.7	12.2	12.2	12.2	13.7
70°	7.6	7.6	7.6	7.6	9.2	9.2	9.2	9.2	10.7	10.7	10.7
72.5°	6.1	6.1	6.1	6.1	7.6	7.6	7.6	7.6	9.2	9.2	9.2
75°	4.6	4.6	6.1	6.1	6.1	6.1	6.1	6.1	7.6	7.6	7.6
77.5°	4.6	4.6	4.6	4.6	4.6	4.6	4.6	6.1	6.1	6.1	6.1
80°	3.1	3.1	3.1	3.1	3.1	3.1	4.6	4.6	4.6	4.6	4.6
82.5°	1.5	1.5	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	3.1	3.1	3.1	3.1
87.5°	0.0	0.0	0.0	0.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5
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°	708.7	708.7	708.7	708.7	708.7	708.7	708.7	708.7
2.5°	856.8	835.4	806.4	711.7	624.7	545.2	505.5	501.0
5°	965.2	945.4	896.5	708.7	542.2	423.1	351.3	331.4
7.5°	1006.5	989.7	946.9	702.6	464.3	303.9	223.0	192.4
10°	1017.2	1006.5	969.8	691.9	383.4	200.1	105.4	80.9
12.5°	1021.8	1014.1	979.0	675.1	302.4	103.9	71.8	71.8
15°	1029.4	1021.8	988.2	653.7	223.0	70.3	68.7	68.7
17.5°	1063.0	1038.6	1000.4	621.6	146.6	67.2	67.2	67.2
20°	1118.0	1064.5	1006.5	578.8	91.6	65.7	65.7	67.2
22.5°	1163.8	1092.0	1005.0	514.7	67.2	62.6	64.1	65.7
25°	1183.7	1104.2	991.2	438.3	58.0	61.1	64.1	64.1
27.5°	1180.6	1108.8	979.0	351.3	55.0	59.6	62.6	65.7
30°	1163.8	1096.6	951.5	259.6	51.9	58.0	62.6	65.7
32.5°	1134.8	1049.3	896.5	168.0	50.4	58.0	62.6	65.7
35°	1040.1	972.9	817.1	80.9	48.9	56.5	64.1	65.7
37.5°	985.1	891.9	623.1	39.7	47.3	56.5	64.1	65.7
40°	896.5	665.9	281.0	36.7	47.3	56.5	64.1	67.2
42.5°	563.6	273.4	45.8	35.1	45.8	56.5	64.1	67.2
45°	206.2	36.7	24.4	35.1	45.8	55.0	64.1	67.2
47.5°	21.4	21.4	22.9	33.6	44.3	55.0	64.1	67.2
50°	19.9	21.4	22.9	32.1	42.8	55.0	62.6	67.2
52.5°	19.9	21.4	22.9	32.1	41.2	53.5	62.6	67.2
55°	19.9	21.4	21.4	30.5	39.7	51.9	61.1	64.1
57.5°	18.3	19.9	21.4	29.0	38.2	48.9	59.6	62.6
60°	18.3	19.9	21.4	26.0	36.7	45.8	56.5	58.0
62.5°	16.8	18.3	19.9	24.4	33.6	42.8	51.9	55.0
65°	16.8	16.8	18.3	21.4	30.5	38.2	47.3	50.4
67.5°	13.7	15.3	15.3	18.3	26.0	33.6	42.8	45.8
70°	12.2	12.2	13.7	16.8	22.9	29.0	36.7	39.7
72.5°	10.7	10.7	10.7	13.7	19.9	26.0	32.1	35.1
75°	9.2	9.2	9.2	10.7	16.8	21.4	27.5	29.0
77.5°	7.6	7.6	7.6	9.2	13.7	18.3	21.4	24.4
80°	6.1	6.1	6.1	7.6	10.7	13.7	16.8	18.3
82.5°	4.6	4.6	4.6	6.1	7.6	9.2	12.2	12.2
85°	3.1	3.1	3.1	4.6	4.6	6.1	7.6	7.6
87.5°	1.5	1.5	1.5	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)