

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: P1312793

Luminaire Tested: LDSQA3D17R709050DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312793
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: LDSQA3D17R709050DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

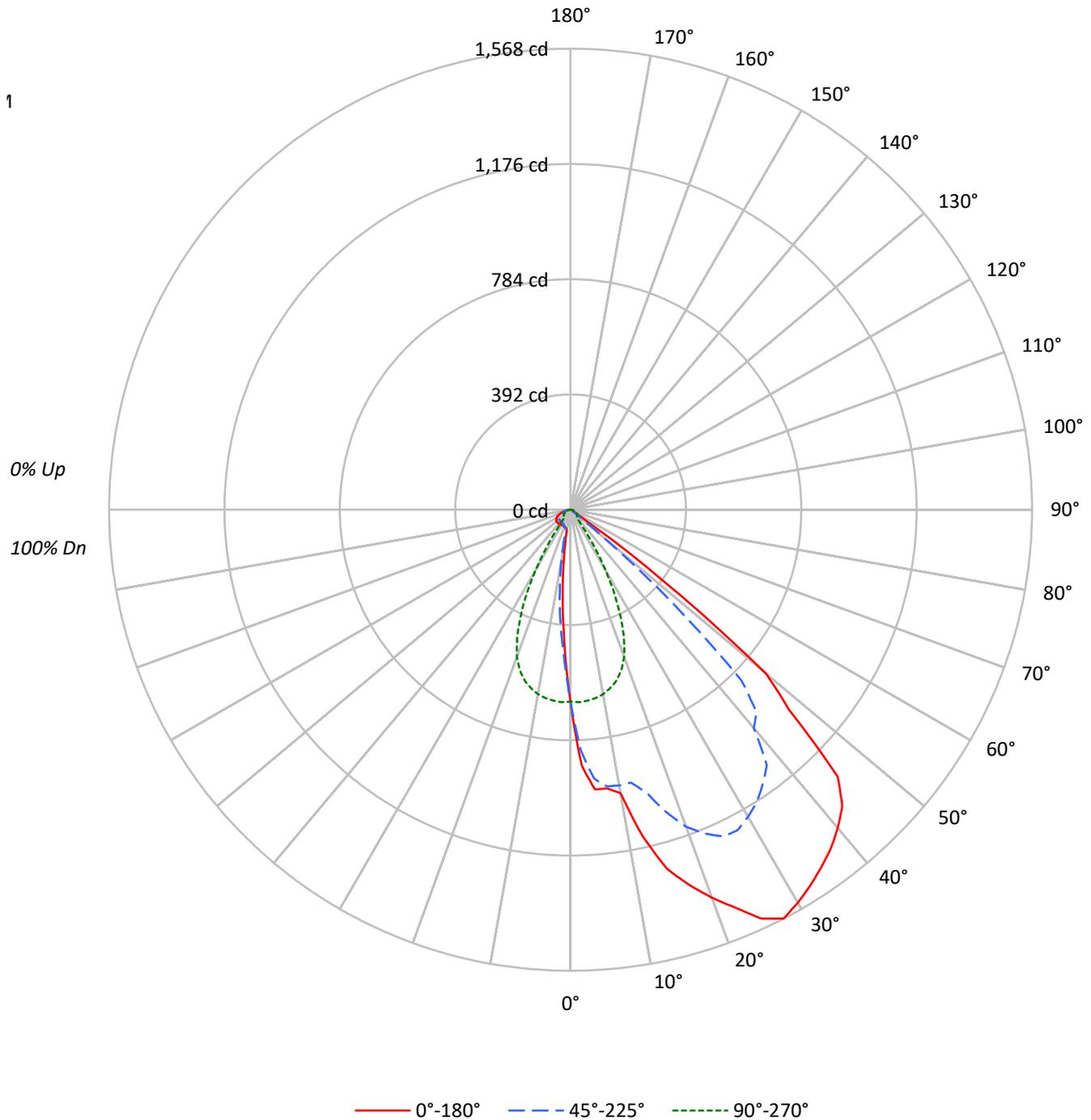
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1239.0 lumens
Efficiency: N/A
Efficacy: 58.4 lumens/watt
Spacing Criteria (0/90/45): 1.7 / 0.89 / 1.39
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 21.2
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

TEST NUMBER: P1312793
CATALOG NUMBER: LDSQA3D17R709050DE010 3LSQCA30R 1MW

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

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	112341	112341	112341	112341	112341
5°	165032	158704	112770	67320	52746
10°	171120	166450	111381	32213	13029
15°	225351	177478	107282	11536	11286
20°	257410	210254	97649	11088	11345
25°	291463	232954	76676	10679	11212
30°	306989	239872	47529	10619	12031
35°	312130	239427	15663	10933	12720
40°	317649	217784	7576	11691	13916
45°	312633	199962	7867	12324	15076
50°	232403	36921	7904	13557	16585
55°	18586	5074	8437	14352	17715
60°	3858	5339	8232	14536	18393
65°	3994	5175	8028	14304	18909
70°	3525	4935	7805	13445	18430
75°	2795	4658	6521	13109	17767
80°	2777	4166	6943	12596	16761
85°	2766	5533	8299	11066	13832

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 316384 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.4	4.8
10°-20°	167.0	13.5
20°-30°	280.3	22.6
30°-40°	337.1	27.2
40°-50°	267.2	21.6
50°-60°	85.5	6.9
60°-70°	23.9	1.9
70°-80°	14.2	1.1
80°-90°	4.5	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°	506.6	40.9
0°-40°	843.7	68.1
0°-60°	1196.4	96.6
0°-90°	1239.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1239.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	652	652	652	652	652	
5°	955	918	652	389	305	90
15°	1264	995	602	65	63	356
25°	1534	1226	404	56	59	701
35°	1485	1139	74	52	60	930
45°	1284	821	32	51	62	922
55°	62	17	28	48	59	194
65°	10	13	20	35	46	10
75°	4	7	10	20	27	5
85°	1	3	4	6	7	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°	652.3	652.3	652.3	652.3	652.3	652.3	652.3	652.3	652.3	652.3	652.3
2.5°	870.2	875.9	875.9	868.8	871.6	860.4	852.0	839.3	836.5	821.0	801.4
5°	954.6	951.8	951.8	946.2	949.0	944.8	940.5	937.7	929.3	918.0	906.8
7.5°	956.0	958.8	960.2	958.8	964.4	960.2	960.2	960.2	954.6	949.0	937.7
10°	978.5	974.3	970.1	960.2	954.6	950.4	950.4	951.8	954.6	951.8	944.8
12.5°	1140.2	1124.7	1117.7	1093.8	1075.5	1044.6	1009.4	982.7	958.8	950.4	944.8
15°	1263.9	1261.1	1247.0	1224.5	1202.0	1165.5	1124.7	1083.9	1040.4	995.4	963.0
17.5°	1337.0	1331.4	1317.3	1293.4	1266.7	1233.0	1200.6	1169.7	1127.5	1076.9	1024.9
20°	1404.5	1391.8	1373.5	1345.4	1318.7	1286.4	1251.2	1221.7	1186.6	1147.2	1086.7
22.5°	1464.9	1453.7	1424.2	1386.2	1359.5	1328.6	1297.6	1269.5	1237.2	1192.2	1137.4
25°	1533.8	1508.5	1460.7	1411.5	1379.2	1353.9	1331.4	1308.9	1275.1	1225.9	1161.3
27.5°	1567.6	1532.4	1480.4	1431.2	1400.3	1373.5	1349.6	1327.2	1289.2	1228.7	1154.2
30°	1543.7	1524.0	1487.4	1449.5	1424.2	1398.9	1370.7	1337.0	1276.5	1206.2	1137.4
32.5°	1515.5	1505.7	1488.8	1466.3	1450.9	1425.6	1386.2	1331.4	1247.0	1178.1	1103.6
35°	1484.6	1480.4	1474.8	1464.9	1455.1	1431.2	1382.0	1301.8	1217.5	1138.8	1067.1
37.5°	1452.3	1448.1	1452.3	1450.9	1442.4	1411.5	1337.0	1262.5	1175.3	1095.2	956.0
40°	1412.9	1410.1	1417.1	1424.2	1414.3	1373.5	1293.4	1203.4	1126.1	968.7	920.9
42.5°	1366.5	1365.1	1377.8	1383.4	1369.3	1308.9	1214.7	1148.6	985.5	934.9	822.4
45°	1283.6	1286.4	1292.0	1299.0	1290.6	1224.5	1138.8	1017.9	946.2	821.0	468.2
47.5°	1005.2	1008.0	1036.1	1095.2	1136.0	1113.5	1040.4	950.4	846.3	469.6	147.6
50°	867.4	864.6	866.0	880.1	912.4	943.3	920.9	871.6	504.7	137.8	18.3
52.5°	381.0	423.2	468.2	594.7	676.2	762.0	778.9	545.5	164.5	18.3	18.3
55°	61.9	64.7	81.5	119.5	215.1	324.8	393.6	182.8	16.9	16.9	16.9
57.5°	12.7	12.7	12.7	14.1	21.1	45.0	52.0	15.5	15.5	15.5	16.9
60°	11.2	11.2	11.2	11.2	12.7	12.7	12.7	14.1	14.1	15.5	15.5
62.5°	11.2	11.2	11.2	11.2	11.2	11.2	12.7	12.7	14.1	14.1	15.5
65°	9.8	9.8	9.8	9.8	11.2	11.2	11.2	11.2	12.7	12.7	14.1
67.5°	8.4	8.4	8.4	8.4	9.8	9.8	9.8	11.2	11.2	11.2	12.7
70°	7.0	7.0	7.0	7.0	8.4	8.4	8.4	8.4	9.8	9.8	9.8
72.5°	5.6	5.6	5.6	5.6	7.0	7.0	7.0	7.0	8.4	8.4	8.4
75°	4.2	4.2	5.6	5.6	5.6	5.6	5.6	5.6	7.0	7.0	7.0
77.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	5.6	5.6	5.6	5.6
80°	2.8	2.8	2.8	2.8	2.8	2.8	4.2	4.2	4.2	4.2	4.2
82.5°	1.4	1.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8	2.8
87.5°	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	652.3	652.3	652.3	652.3	652.3	652.3	652.3	652.3
2.5°	788.7	769.0	742.3	655.1	575.0	501.9	465.3	461.1
5°	888.5	870.2	825.3	652.3	499.1	389.4	323.4	305.1
7.5°	926.5	911.0	871.6	646.7	427.4	279.8	205.3	177.1
10°	936.3	926.5	892.7	636.9	352.9	184.2	97.0	74.5
12.5°	940.5	933.5	901.2	621.4	278.4	95.6	66.1	66.1
15°	947.6	940.5	909.6	601.7	205.3	64.7	63.3	63.3
17.5°	978.5	956.0	920.9	572.2	135.0	61.9	61.9	61.9
20°	1029.1	979.9	926.5	532.8	84.4	60.5	60.5	61.9
22.5°	1071.3	1005.2	925.1	473.8	61.9	57.6	59.0	60.5
25°	1089.6	1016.5	912.4	403.5	53.4	56.2	59.0	59.0
27.5°	1086.7	1020.7	901.2	323.4	50.6	54.8	57.6	60.5
30°	1071.3	1009.4	875.9	239.0	47.8	53.4	57.6	60.5
32.5°	1044.6	965.8	825.3	154.6	46.4	53.4	57.6	60.5
35°	957.4	895.5	752.1	74.5	45.0	52.0	59.0	60.5
37.5°	906.8	821.0	573.6	36.6	43.6	52.0	59.0	60.5
40°	825.3	613.0	258.7	33.7	43.6	52.0	59.0	61.9
42.5°	518.8	251.7	42.2	32.3	42.2	52.0	59.0	61.9
45°	189.8	33.7	22.5	32.3	42.2	50.6	59.0	61.9
47.5°	19.7	19.7	21.1	30.9	40.8	50.6	59.0	61.9
50°	18.3	19.7	21.1	29.5	39.4	50.6	57.6	61.9
52.5°	18.3	19.7	21.1	29.5	38.0	49.2	57.6	61.9
55°	18.3	19.7	19.7	28.1	36.6	47.8	56.2	59.0
57.5°	16.9	18.3	19.7	26.7	35.1	45.0	54.8	57.6
60°	16.9	18.3	19.7	23.9	33.7	42.2	52.0	53.4
62.5°	15.5	16.9	18.3	22.5	30.9	39.4	47.8	50.6
65°	15.5	15.5	16.9	19.7	28.1	35.1	43.6	46.4
67.5°	12.7	14.1	14.1	16.9	23.9	30.9	39.4	42.2
70°	11.2	11.2	12.7	15.5	21.1	26.7	33.7	36.6
72.5°	9.8	9.8	9.8	12.7	18.3	23.9	29.5	32.3
75°	8.4	8.4	8.4	9.8	15.5	19.7	25.3	26.7
77.5°	7.0	7.0	7.0	8.4	12.7	16.9	19.7	22.5
80°	5.6	5.6	5.6	7.0	9.8	12.7	15.5	16.9
82.5°	4.2	4.2	4.2	5.6	7.0	8.4	11.2	11.2
85°	2.8	2.8	2.8	4.2	4.2	5.6	7.0	7.0
87.5°	1.4	1.4	1.4	2.8	2.8	2.8	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)