

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: P1320477

Luminaire Tested: LDSQA3D20R709840D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320477
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: LDSQA3D20R709840D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

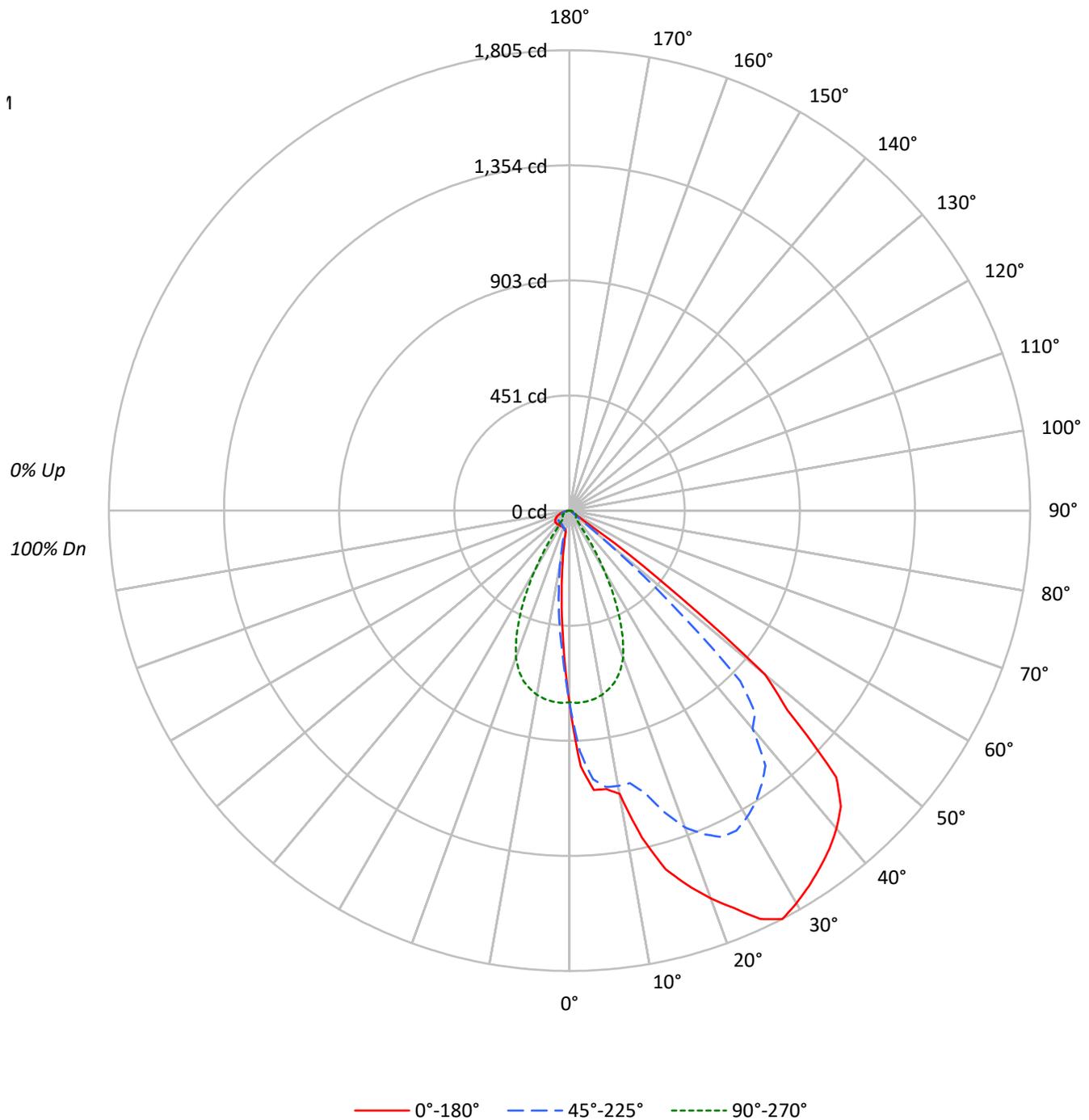
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1427.0 lumens
Efficiency: N/A
Efficacy: 52.1 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 (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	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	95	93	92	90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	87	84	82	80
3	97	89	83	78	95	87	82	77	85	80	76	82	78	74	80	76	73	80	76	73	71
4	90	81	74	68	88	80	73	68	77	72	67	75	70	66	73	69	65	73	69	65	64
5	84	74	66	61	82	73	66	61	71	65	60	69	64	59	67	62	59	67	62	59	57
6	79	67	60	54	77	66	59	54	65	58	54	63	58	53	62	57	53	62	57	53	51
7	73	62	54	49	72	61	54	49	60	53	48	58	52	48	57	52	48	57	52	48	46
8	69	57	49	44	67	56	49	44	55	49	44	54	48	44	53	47	43	53	47	43	42
9	64	52	45	40	63	52	45	40	51	44	40	50	44	40	49	44	40	49	44	40	38
10	60	49	42	37	59	48	41	37	47	41	37	46	41	36	45	40	36	45	40	36	35

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	129391	129391	129391	129391	129391
5°	190065	182787	129885	77537	60750
10°	197089	191703	128274	37092	15005
15°	259548	204401	123561	13283	12998
20°	296466	242162	112476	12756	13049
25°	335701	268299	88305	12314	12922
30°	353563	276284	54748	12230	13841
35°	359498	275757	18039	12594	14633
40°	365851	250810	8746	13467	16007
45°	360054	230310	9060	14200	17341
50°	267663	42521	9110	15620	19077
55°	21379	5825	9728	16544	20418
60°	4478	6131	9472	16740	21183
65°	4605	5950	9251	16504	21761
70°	4079	5690	8963	15509	21199
75°	3261	5390	7519	15105	20495
80°	3174	4860	8034	14480	19241
85°	3162	6323	9683	12844	16006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 364390 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.4	4.8
10°-20°	192.3	13.5
20°-30°	322.8	22.6
30°-40°	388.2	27.2
40°-50°	307.8	21.6
50°-60°	98.4	6.9
60°-70°	27.5	1.9
70°-80°	16.4	1.1
80°-90°	5.2	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°	583.5	40.9
0°-40°	971.7	68.1
0°-60°	1377.9	96.6
0°-90°	1427.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1427.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	751	751	751	751	751	
5°	1099	1057	751	448	351	103
15°	1456	1146	693	74	73	409
25°	1767	1412	465	65	68	808
35°	1710	1312	86	60	70	1071
45°	1478	946	37	58	71	1062
55°	71	19	32	55	68	223
65°	11	15	23	40	53	11
75°	5	8	11	23	31	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°	751.3	751.3	751.3	751.3	751.3	751.3	751.3	751.3	751.3	751.3	751.3
2.5°	1002.3	1008.8	1008.8	1000.7	1003.9	991.0	981.2	966.7	963.4	945.6	922.9
5°	1099.4	1096.2	1096.2	1089.7	1093.0	1088.1	1083.2	1080.0	1070.3	1057.3	1044.4
7.5°	1101.1	1104.3	1105.9	1104.3	1110.8	1105.9	1105.9	1105.9	1099.4	1093.0	1080.0
10°	1127.0	1122.1	1117.3	1105.9	1099.4	1094.6	1094.6	1096.2	1099.4	1096.2	1088.1
12.5°	1313.2	1295.4	1287.3	1259.7	1238.7	1203.1	1162.6	1131.8	1104.3	1094.6	1088.1
15°	1455.7	1452.4	1436.2	1410.3	1384.4	1342.3	1295.4	1248.4	1198.2	1146.4	1109.2
17.5°	1539.9	1533.4	1517.2	1489.7	1458.9	1420.0	1382.8	1347.2	1298.6	1240.3	1180.4
20°	1617.6	1603.0	1582.0	1549.6	1518.8	1481.6	1441.1	1407.1	1366.6	1321.3	1251.6
22.5°	1687.2	1674.3	1640.3	1596.5	1565.8	1530.1	1494.5	1462.1	1424.9	1373.1	1309.9
25°	1766.6	1737.4	1682.4	1625.7	1588.4	1559.3	1533.4	1507.5	1468.6	1411.9	1337.5
27.5°	1805.4	1764.9	1705.0	1648.3	1612.7	1582.0	1554.4	1528.5	1484.8	1415.2	1329.4
30°	1777.9	1755.2	1713.1	1669.4	1640.3	1611.1	1578.7	1539.9	1470.2	1389.3	1309.9
32.5°	1745.5	1734.2	1714.7	1688.8	1671.0	1641.9	1596.5	1533.4	1436.2	1356.9	1271.1
35°	1709.9	1705.0	1698.5	1687.2	1675.9	1648.3	1591.7	1499.4	1402.2	1311.6	1229.0
37.5°	1672.6	1667.8	1672.6	1671.0	1661.3	1625.7	1539.9	1454.0	1353.7	1261.4	1101.1
40°	1627.3	1624.1	1632.2	1640.3	1628.9	1582.0	1489.7	1386.0	1297.0	1115.6	1060.6
42.5°	1573.9	1572.2	1586.8	1593.3	1577.1	1507.5	1399.0	1322.9	1135.1	1076.8	947.2
45°	1478.3	1481.6	1488.0	1496.1	1486.4	1410.3	1311.6	1172.3	1089.7	945.6	539.2
47.5°	1157.7	1161.0	1193.4	1261.4	1308.3	1282.4	1198.2	1094.6	974.8	540.8	170.0
50°	999.0	995.8	997.4	1013.6	1050.9	1086.5	1060.6	1003.9	581.3	158.7	21.0
52.5°	438.8	487.4	539.2	684.9	778.8	877.6	897.0	628.3	189.4	21.0	21.0
55°	71.2	74.5	93.9	137.6	247.7	374.0	453.4	210.5	19.4	19.4	19.4
57.5°	14.6	14.6	14.6	16.2	24.3	51.8	59.9	17.8	17.8	17.8	19.4
60°	13.0	13.0	13.0	13.0	14.6	14.6	14.6	16.2	16.2	17.8	17.8
62.5°	13.0	13.0	13.0	13.0	13.0	13.0	14.6	14.6	16.2	16.2	17.8
65°	11.3	11.3	11.3	11.3	13.0	13.0	13.0	13.0	14.6	14.6	16.2
67.5°	9.7	9.7	9.7	9.7	11.3	11.3	11.3	13.0	13.0	13.0	14.6
70°	8.1	8.1	8.1	8.1	9.7	9.7	9.7	9.7	11.3	11.3	11.3
72.5°	6.5	6.5	6.5	6.5	8.1	8.1	8.1	8.1	9.7	9.7	9.7
75°	4.9	4.9	6.5	6.5	6.5	6.5	6.5	6.5	8.1	8.1	8.1
77.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.5	6.5	6.5	6.5
80°	3.2	3.2	3.2	3.2	3.2	3.2	4.9	4.9	4.9	4.9	4.9
82.5°	1.6	1.6	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	3.2	3.2
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°	751.3	751.3	751.3	751.3	751.3	751.3	751.3	751.3
2.5°	908.4	885.7	854.9	754.5	662.3	578.1	536.0	531.1
5°	1023.3	1002.3	950.5	751.3	574.8	448.5	372.4	351.4
7.5°	1067.1	1049.2	1003.9	744.8	492.2	322.2	236.4	204.0
10°	1078.4	1067.1	1028.2	733.5	406.4	212.1	111.7	85.8
12.5°	1083.2	1075.2	1037.9	715.7	320.6	110.1	76.1	76.1
15°	1091.3	1083.2	1047.6	693.0	236.4	74.5	72.9	72.9
17.5°	1127.0	1101.1	1060.6	659.0	155.4	71.2	71.2	71.2
20°	1185.3	1128.6	1067.1	613.7	97.2	69.6	69.6	71.2
22.5°	1233.8	1157.7	1065.4	545.7	71.2	66.4	68.0	69.6
25°	1254.9	1170.7	1050.9	464.7	61.5	64.8	68.0	68.0
27.5°	1251.6	1175.5	1037.9	372.4	58.3	63.1	66.4	69.6
30°	1233.8	1162.6	1008.8	275.3	55.1	61.5	66.4	69.6
32.5°	1203.1	1112.4	950.5	178.1	53.4	61.5	66.4	69.6
35°	1102.7	1031.4	866.3	85.8	51.8	59.9	68.0	69.6
37.5°	1044.4	945.6	660.6	42.1	50.2	59.9	68.0	69.6
40°	950.5	706.0	297.9	38.9	50.2	59.9	68.0	71.2
42.5°	597.5	289.8	48.6	37.2	48.6	59.9	68.0	71.2
45°	218.6	38.9	25.9	37.2	48.6	58.3	68.0	71.2
47.5°	22.7	22.7	24.3	35.6	47.0	58.3	68.0	71.2
50°	21.0	22.7	24.3	34.0	45.3	58.3	66.4	71.2
52.5°	21.0	22.7	24.3	34.0	43.7	56.7	66.4	71.2
55°	21.0	22.7	22.7	32.4	42.1	55.1	64.8	68.0
57.5°	19.4	21.0	22.7	30.8	40.5	51.8	63.1	66.4
60°	19.4	21.0	22.7	27.5	38.9	48.6	59.9	61.5
62.5°	17.8	19.4	21.0	25.9	35.6	45.3	55.1	58.3
65°	17.8	17.8	19.4	22.7	32.4	40.5	50.2	53.4
67.5°	14.6	16.2	16.2	19.4	27.5	35.6	45.3	48.6
70°	13.0	13.0	14.6	17.8	24.3	30.8	38.9	42.1
72.5°	11.3	11.3	11.3	14.6	21.0	27.5	34.0	37.2
75°	9.7	9.7	9.7	11.3	17.8	22.7	29.1	30.8
77.5°	8.1	8.1	8.1	9.7	14.6	19.4	22.7	25.9
80°	6.5	6.5	6.5	8.1	11.3	14.6	17.8	19.4
82.5°	4.9	4.9	4.9	6.5	8.1	9.7	13.0	13.0
85°	3.2	3.2	3.2	4.9	4.9	6.5	8.1	8.1
87.5°	1.6	1.6	1.6	3.2	3.2	3.2	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)