

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: P1310598

Luminaire Tested: LDSQA3D17R709035DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310598
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: LDSQA3D17R709035DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R70 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

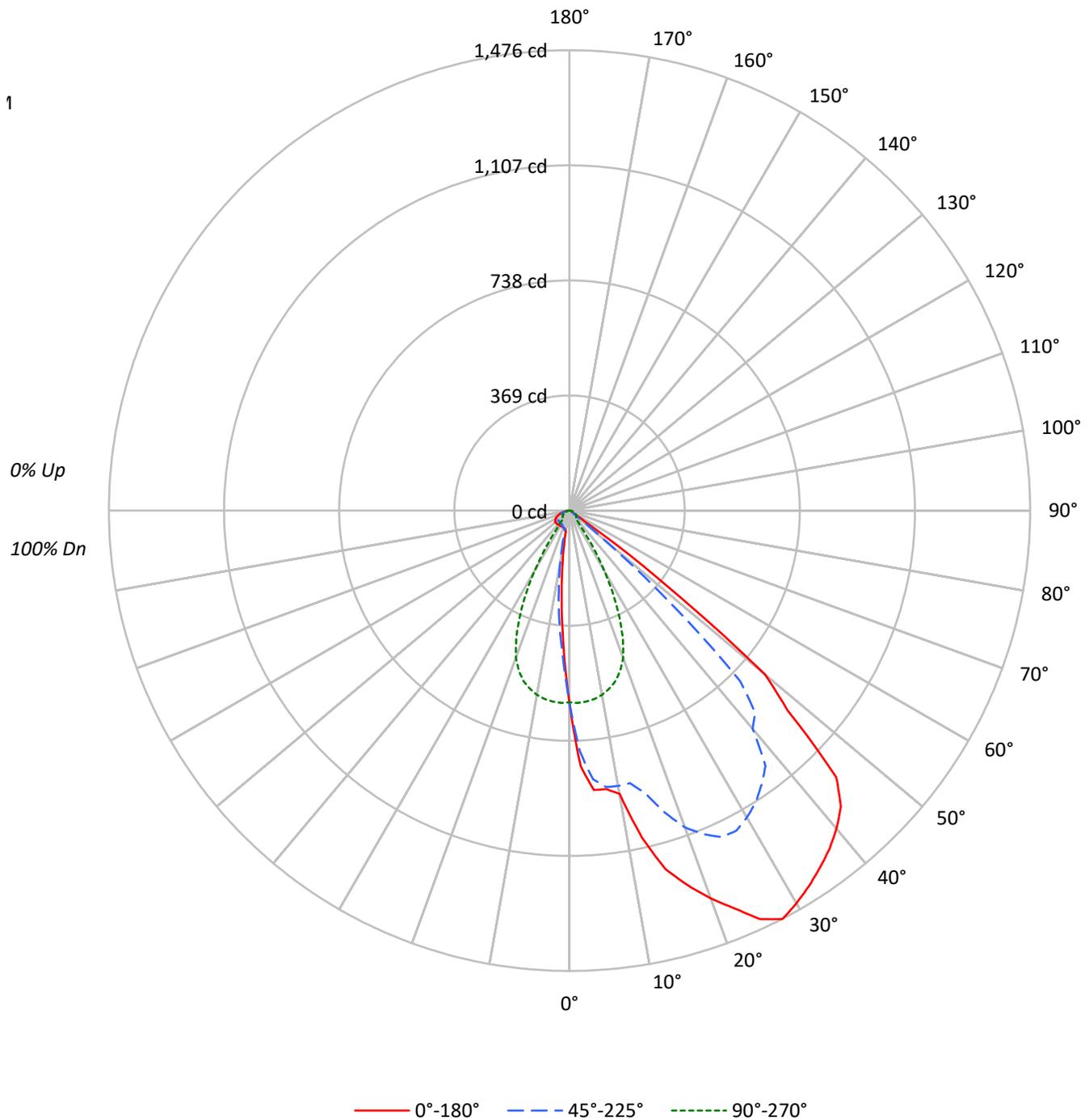
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1167.0 lumens
Efficiency: N/A
Efficacy: 55.0 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 (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°	105814	105814	105814	105814	105814
5°	155437	149490	106218	63413	49669
10°	161169	156779	104910	30342	12277
15°	212246	167154	101059	10858	10627
20°	242455	198029	91986	10428	10685
25°	274532	219424	72210	10071	10565
30°	289151	225931	44765	10003	11315
35°	293986	225509	14759	10302	11963
40°	299191	205126	7149	11016	13107
45°	294464	188345	7429	11618	14200
50°	218900	34777	7448	12780	15620
55°	17505	4774	7957	13512	16695
60°	3651	5029	7750	13674	17326
65°	3790	4849	7539	13489	17808
70°	3323	4683	7352	12689	17322
75°	2662	4392	6188	12310	16769
80°	2579	3967	6546	11802	15769
85°	2569	5138	7904	10473	13042

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 15°
 Vertical Angle: 45°
 Luminance: 297995 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.9	4.8
10°-20°	157.3	13.5
20°-30°	264.0	22.6
30°-40°	317.5	27.2
40°-50°	251.7	21.6
50°-60°	80.5	6.9
60°-70°	22.5	1.9
70°-80°	13.4	1.1
80°-90°	4.2	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°	477.2	40.9
0°-40°	794.7	68.1
0°-60°	1126.9	96.6
0°-90°	1167.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1167.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	614	614	614	614	614	
5°	899	865	614	367	287	85
15°	1190	938	567	61	60	335
25°	1445	1155	380	53	56	660
35°	1398	1073	70	49	57	876
45°	1209	773	30	48	58	868
55°	58	16	26	45	56	182
65°	9	12	18	33	44	9
75°	4	7	9	18	25	5
85°	1	3	4	5	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°	614.4	614.4	614.4	614.4	614.4	614.4	614.4	614.4	614.4	614.4	614.4
2.5°	819.7	825.0	825.0	818.3	821.0	810.4	802.5	790.5	787.9	773.3	754.8
5°	899.1	896.5	896.5	891.2	893.8	889.9	885.9	883.2	875.3	864.7	854.1
7.5°	900.4	903.1	904.4	903.1	908.4	904.4	904.4	904.4	899.1	893.8	883.2
10°	921.6	917.7	913.7	904.4	899.1	895.1	895.1	896.5	899.1	896.5	889.9
12.5°	1073.9	1059.3	1052.7	1030.2	1013.0	983.9	950.8	925.6	903.1	895.1	889.9
15°	1190.4	1187.8	1174.6	1153.4	1132.2	1097.7	1059.3	1020.9	979.9	937.5	907.1
17.5°	1259.3	1254.0	1240.8	1218.2	1193.1	1161.3	1130.9	1101.7	1062.0	1014.3	965.3
20°	1322.9	1310.9	1293.7	1267.2	1242.1	1211.6	1178.5	1150.7	1117.6	1080.5	1023.6
22.5°	1379.8	1369.2	1341.4	1305.6	1280.5	1251.4	1222.2	1195.7	1165.3	1122.9	1071.3
25°	1444.7	1420.8	1375.8	1329.5	1299.0	1275.2	1254.0	1232.8	1201.0	1154.7	1093.8
27.5°	1476.5	1443.4	1394.4	1348.0	1318.9	1293.7	1271.2	1250.0	1214.3	1157.3	1087.2
30°	1454.0	1435.4	1401.0	1365.2	1341.4	1317.6	1291.1	1259.3	1202.4	1136.1	1071.3
32.5°	1427.5	1418.2	1402.3	1381.1	1366.6	1342.7	1305.6	1254.0	1174.6	1109.7	1039.5
35°	1398.3	1394.4	1389.1	1379.8	1370.5	1348.0	1301.7	1226.2	1146.7	1072.6	1005.1
37.5°	1367.9	1363.9	1367.9	1366.6	1358.6	1329.5	1259.3	1189.1	1107.0	1031.5	900.4
40°	1330.8	1328.2	1334.8	1341.4	1332.1	1293.7	1218.2	1133.5	1060.7	912.4	867.3
42.5°	1287.1	1285.8	1297.7	1303.0	1289.8	1232.8	1144.1	1081.9	928.3	880.6	774.6
45°	1209.0	1211.6	1216.9	1223.5	1215.6	1153.4	1072.6	958.7	891.2	773.3	441.0
47.5°	946.8	949.4	975.9	1031.5	1069.9	1048.8	979.9	895.1	797.2	442.3	139.0
50°	817.0	814.4	815.7	828.9	859.4	888.5	867.3	821.0	475.4	129.8	17.2
52.5°	358.9	398.6	441.0	560.1	636.9	717.7	733.6	513.8	154.9	17.2	17.2
55°	58.3	60.9	76.8	112.6	202.6	305.9	370.8	172.1	15.9	15.9	15.9
57.5°	11.9	11.9	11.9	13.2	19.9	42.4	49.0	14.6	14.6	14.6	15.9
60°	10.6	10.6	10.6	10.6	11.9	11.9	11.9	13.2	13.2	14.6	14.6
62.5°	10.6	10.6	10.6	10.6	10.6	10.6	11.9	11.9	13.2	13.2	14.6
65°	9.3	9.3	9.3	9.3	10.6	10.6	10.6	10.6	11.9	11.9	13.2
67.5°	7.9	7.9	7.9	7.9	9.3	9.3	9.3	10.6	10.6	10.6	11.9
70°	6.6	6.6	6.6	6.6	7.9	7.9	7.9	7.9	9.3	9.3	9.3
72.5°	5.3	5.3	5.3	5.3	6.6	6.6	6.6	6.6	7.9	7.9	7.9
75°	4.0	4.0	5.3	5.3	5.3	5.3	5.3	5.3	6.6	6.6	6.6
77.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	5.3	5.3	5.3	5.3
80°	2.6	2.6	2.6	2.6	2.6	2.6	4.0	4.0	4.0	4.0	4.0
82.5°	1.3	1.3	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
85°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6	2.6	2.6
87.5°	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3
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°	614.4	614.4	614.4	614.4	614.4	614.4	614.4	614.4
2.5°	742.9	724.3	699.2	617.1	541.6	472.7	438.3	434.3
5°	836.9	819.7	777.3	614.4	470.1	366.8	304.6	287.3
7.5°	872.6	858.1	821.0	609.1	402.6	263.5	193.3	166.8
10°	881.9	872.6	840.9	599.9	332.4	173.5	91.4	70.2
12.5°	885.9	879.3	848.8	585.3	262.2	90.0	62.2	62.2
15°	892.5	885.9	856.7	566.8	193.3	60.9	59.6	59.6
17.5°	921.6	900.4	867.3	538.9	127.1	58.3	58.3	58.3
20°	969.3	923.0	872.6	501.9	79.5	56.9	56.9	58.3
22.5°	1009.0	946.8	871.3	446.2	58.3	54.3	55.6	56.9
25°	1026.2	957.4	859.4	380.0	50.3	53.0	55.6	55.6
27.5°	1023.6	961.4	848.8	304.6	47.7	51.6	54.3	56.9
30°	1009.0	950.8	825.0	225.1	45.0	50.3	54.3	56.9
32.5°	983.9	909.7	777.3	145.7	43.7	50.3	54.3	56.9
35°	901.8	843.5	708.4	70.2	42.4	49.0	55.6	56.9
37.5°	854.1	773.3	540.3	34.4	41.0	49.0	55.6	56.9
40°	777.3	577.3	243.6	31.8	41.0	49.0	55.6	58.3
42.5°	488.6	237.0	39.7	30.5	39.7	49.0	55.6	58.3
45°	178.8	31.8	21.2	30.5	39.7	47.7	55.6	58.3
47.5°	18.5	18.5	19.9	29.1	38.4	47.7	55.6	58.3
50°	17.2	18.5	19.9	27.8	37.1	47.7	54.3	58.3
52.5°	17.2	18.5	19.9	27.8	35.8	46.3	54.3	58.3
55°	17.2	18.5	18.5	26.5	34.4	45.0	53.0	55.6
57.5°	15.9	17.2	18.5	25.2	33.1	42.4	51.6	54.3
60°	15.9	17.2	18.5	22.5	31.8	39.7	49.0	50.3
62.5°	14.6	15.9	17.2	21.2	29.1	37.1	45.0	47.7
65°	14.6	14.6	15.9	18.5	26.5	33.1	41.0	43.7
67.5°	11.9	13.2	13.2	15.9	22.5	29.1	37.1	39.7
70°	10.6	10.6	11.9	14.6	19.9	25.2	31.8	34.4
72.5°	9.3	9.3	9.3	11.9	17.2	22.5	27.8	30.5
75°	7.9	7.9	7.9	9.3	14.6	18.5	23.8	25.2
77.5°	6.6	6.6	6.6	7.9	11.9	15.9	18.5	21.2
80°	5.3	5.3	5.3	6.6	9.3	11.9	14.6	15.9
82.5°	4.0	4.0	4.0	5.3	6.6	7.9	10.6	10.6
85°	2.6	2.6	2.6	4.0	4.0	5.3	6.6	6.6
87.5°	1.3	1.3	1.3	2.6	2.6	2.6	2.6	2.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)