

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: P1316785

Luminaire Tested: LDSQA3D17R509740DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316785
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-65)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R509740DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

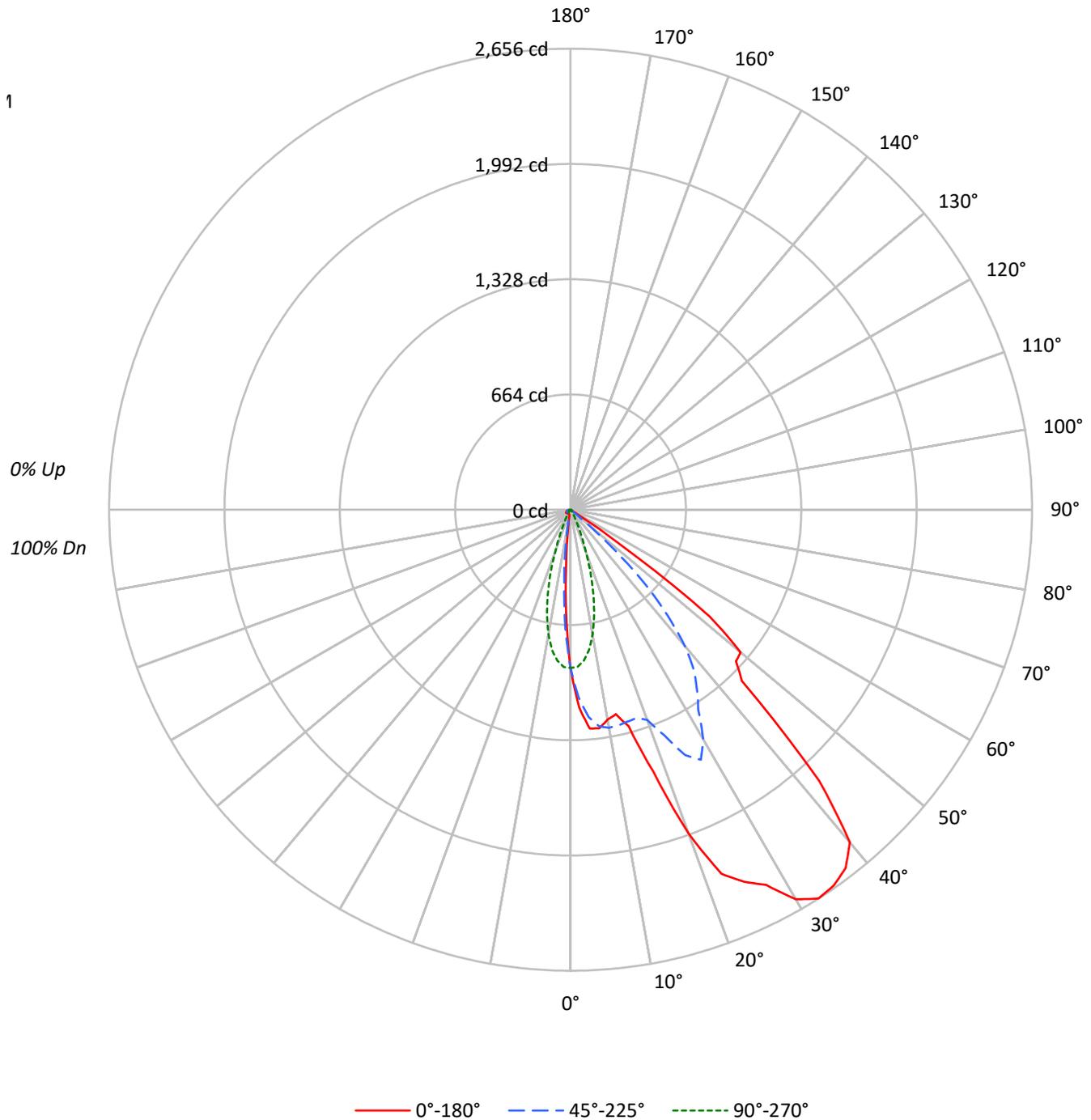
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1417.0 lumens
Efficiency: N/A
Efficacy: 66.8 lumens/watt
Spacing Criteria (0/90/45): 1.8 / 0.54 / 1.2
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	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	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	93	95	94	93	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	88	85	83	81
3	98	90	84	79	96	88	83	78	86	81	77	83	79	76	81	77	74	81	77	74	73
4	91	82	75	70	89	81	74	69	78	73	68	76	71	68	74	70	67	74	70	67	65
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	68	64	60	58
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	63	58	54	53
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	58	53	49	47
8	69	58	51	45	68	57	50	45	56	50	45	55	49	45	54	49	45	54	49	45	43
9	65	53	46	41	64	53	46	41	52	46	41	51	45	41	50	45	41	50	45	41	39
10	61	50	43	38	60	49	42	38	48	42	38	47	42	38	46	41	37	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	156895	156895	156895	156895	156895
5°	218763	207543	150804	72489	47041
10°	214752	223041	127452	15284	6540
15°	230290	225404	90112	5349	5117
20°	363674	236041	47578	4582	4802
25°	449394	296423	18965	4276	4751
30°	515221	304026	7696	4216	4972
35°	555446	266843	3406	4457	5508
40°	562254	229789	2518	5058	6183
45°	339814	148937	2436	5480	6990
50°	342389	25748	2679	6350	8038
55°	101158	1501	3003	7116	9008
60°	1722	1722	2997	7750	9886
65°	1508	1508	3056	8150	10677
70°	1863	1863	3122	8812	11934
75°	1664	1664	3327	9116	12443
80°	1190	2479	3670	8629	13588
85°	2371	4940	4940	9880	12251

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 388137 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.7	5.2
10°-20°	182.9	12.9
20°-30°	342.7	24.2
30°-40°	409.7	28.9
40°-50°	293.6	20.7
50°-60°	90.5	6.4
60°-70°	11.8	0.8
70°-80°	8.6	0.6
80°-90°	3.5	0.2
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°	599.3	42.3
0°-40°	1009.0	71.2
0°-60°	1393.1	98.3
0°-90°	1417.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1417.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	911	911	911	911	911	
5°	1265	1200	872	419	272	118
15°	1292	1264	505	30	29	414
25°	2365	1560	100	22	25	1090
35°	2642	1269	16	21	26	1639
45°	1395	612	10	22	29	1281
55°	337	5	10	24	30	434
65°	4	4	8	20	26	4
75°	2	2	5	14	19	2
85°	1	2	2	5	6	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°	911.0	911.0	911.0	911.0	911.0	911.0	911.0	911.0	911.0	911.0	911.0
2.5°	1139.4	1141.9	1145.6	1135.6	1129.4	1124.4	1115.7	1113.2	1092.0	1083.2	1074.5
5°	1265.4	1262.9	1265.4	1261.7	1259.2	1251.7	1244.2	1231.7	1218.0	1200.5	1180.6
7.5°	1269.2	1266.7	1271.7	1271.7	1276.7	1276.7	1276.7	1277.9	1270.4	1257.9	1240.5
10°	1228.0	1228.0	1233.0	1230.5	1239.2	1243.0	1251.7	1266.7	1274.2	1275.4	1270.4
12.5°	1206.8	1206.8	1208.0	1203.0	1205.5	1209.3	1219.3	1236.7	1254.2	1271.7	1281.7
15°	1291.6	1294.1	1276.7	1251.7	1233.0	1213.0	1206.8	1218.0	1236.7	1264.2	1286.6
17.5°	1579.9	1583.7	1564.9	1505.0	1447.6	1365.3	1291.6	1255.4	1235.5	1257.9	1287.9
20°	1984.3	1970.5	1938.1	1874.4	1790.8	1663.5	1548.7	1432.7	1321.6	1287.9	1297.9
22.5°	2270.0	2265.0	2238.8	2167.7	2095.3	1976.8	1830.8	1668.5	1507.5	1405.2	1351.5
25°	2364.9	2361.1	2337.4	2295.0	2255.1	2165.2	2034.2	1870.7	1702.2	1559.9	1425.2
27.5°	2436.0	2431.0	2393.6	2346.2	2305.0	2213.9	2094.1	1970.5	1815.8	1623.6	1416.4
30°	2590.8	2577.0	2524.6	2439.8	2361.1	2235.1	2102.8	1949.3	1739.7	1528.8	1326.6
32.5°	2655.7	2648.2	2603.2	2534.6	2448.5	2283.8	2082.8	1825.8	1550.0	1367.8	1220.5
35°	2641.9	2630.7	2584.5	2505.9	2401.1	2242.6	1974.3	1621.1	1396.5	1269.2	1103.2
37.5°	2600.7	2584.5	2529.6	2437.3	2310.0	2102.8	1752.1	1455.1	1310.4	1166.8	943.5
40°	2500.9	2474.7	2411.1	2315.0	2187.7	1915.6	1550.0	1355.3	1220.5	1022.1	765.0
42.5°	2119.0	2105.3	2136.5	2120.3	2008.0	1687.2	1406.5	1264.2	1078.2	826.1	554.1
45°	1395.2	1418.9	1475.1	1571.2	1593.6	1451.4	1289.1	1114.4	887.3	611.5	319.5
47.5°	1291.6	1286.6	1300.4	1319.1	1322.8	1262.9	1115.7	921.0	658.9	349.4	88.6
50°	1277.9	1270.4	1259.2	1236.7	1189.3	1073.2	906.0	671.4	380.6	96.1	6.2
52.5°	1009.6	1002.1	1002.1	969.7	908.5	796.2	625.2	369.4	106.1	6.2	5.0
55°	336.9	359.4	355.7	354.4	381.9	351.9	269.6	94.8	8.7	5.0	5.0
57.5°	6.2	6.2	6.2	11.2	17.5	25.0	15.0	7.5	5.0	5.0	5.0
60°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
62.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
65°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.0
67.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
70°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
72.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.7	3.7	3.7
75°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	3.7
77.5°	1.2	1.2	1.2	1.2	2.5	2.5	2.5	2.5	2.5	2.5	2.5
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5	2.5
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2
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°	911.0	911.0	911.0	911.0	911.0	911.0	911.0	911.0
2.5°	1054.5	1037.1	1003.4	907.3	801.2	680.1	597.8	587.8
5°	1149.4	1123.2	1068.3	872.3	630.2	419.3	312.0	272.1
7.5°	1211.8	1176.8	1109.4	814.9	459.2	220.9	118.6	94.8
10°	1249.2	1216.8	1130.7	728.8	292.0	87.4	39.9	37.4
12.5°	1269.2	1238.0	1138.1	625.2	164.7	39.9	31.2	31.2
15°	1282.9	1249.2	1126.9	505.4	82.4	30.0	28.7	28.7
17.5°	1289.1	1248.0	1094.5	380.6	43.7	27.5	27.5	27.5
20°	1292.9	1234.2	1034.6	259.6	30.0	25.0	26.2	26.2
22.5°	1296.6	1200.5	955.9	164.7	23.7	23.7	25.0	25.0
25°	1289.1	1141.9	844.9	99.8	21.2	22.5	23.7	25.0
27.5°	1235.5	1053.3	710.1	61.2	18.7	21.2	23.7	25.0
30°	1143.1	923.5	554.1	38.7	17.5	21.2	23.7	25.0
32.5°	1023.3	775.0	395.6	23.7	17.5	21.2	23.7	25.0
35°	862.3	592.8	257.1	16.2	17.5	21.2	25.0	26.2
37.5°	681.4	414.3	138.5	12.5	17.5	21.2	25.0	26.2
40°	490.4	248.3	49.9	11.2	16.2	22.5	26.2	27.5
42.5°	287.0	92.3	8.7	10.0	16.2	22.5	26.2	27.5
45°	82.4	10.0	5.0	10.0	16.2	22.5	27.5	28.7
47.5°	6.2	3.7	5.0	10.0	16.2	22.5	27.5	30.0
50°	3.7	3.7	3.7	10.0	16.2	23.7	28.7	30.0
52.5°	5.0	5.0	5.0	10.0	16.2	23.7	28.7	30.0
55°	5.0	5.0	5.0	10.0	16.2	23.7	28.7	30.0
57.5°	5.0	5.0	5.0	10.0	16.2	22.5	28.7	30.0
60°	5.0	5.0	5.0	8.7	15.0	22.5	27.5	28.7
62.5°	5.0	5.0	5.0	8.7	15.0	21.2	27.5	27.5
65°	5.0	5.0	5.0	7.5	13.7	20.0	25.0	26.2
67.5°	5.0	5.0	5.0	7.5	12.5	18.7	23.7	25.0
70°	3.7	5.0	5.0	6.2	11.2	17.5	22.5	23.7
72.5°	3.7	3.7	5.0	6.2	10.0	15.0	20.0	21.2
75°	3.7	3.7	3.7	5.0	8.7	13.7	17.5	18.7
77.5°	3.7	3.7	3.7	5.0	7.5	11.2	16.2	16.2
80°	2.5	3.7	3.7	3.7	6.2	8.7	12.5	13.7
82.5°	2.5	2.5	2.5	3.7	5.0	7.5	10.0	10.0
85°	2.5	2.5	2.5	2.5	3.7	5.0	6.2	6.2
87.5°	1.2	2.5	2.5	2.5	2.5	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)