

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: P1319413

Luminaire Tested: LDSQA3D17R459835DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1319413
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-58)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D17R459835DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 98CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

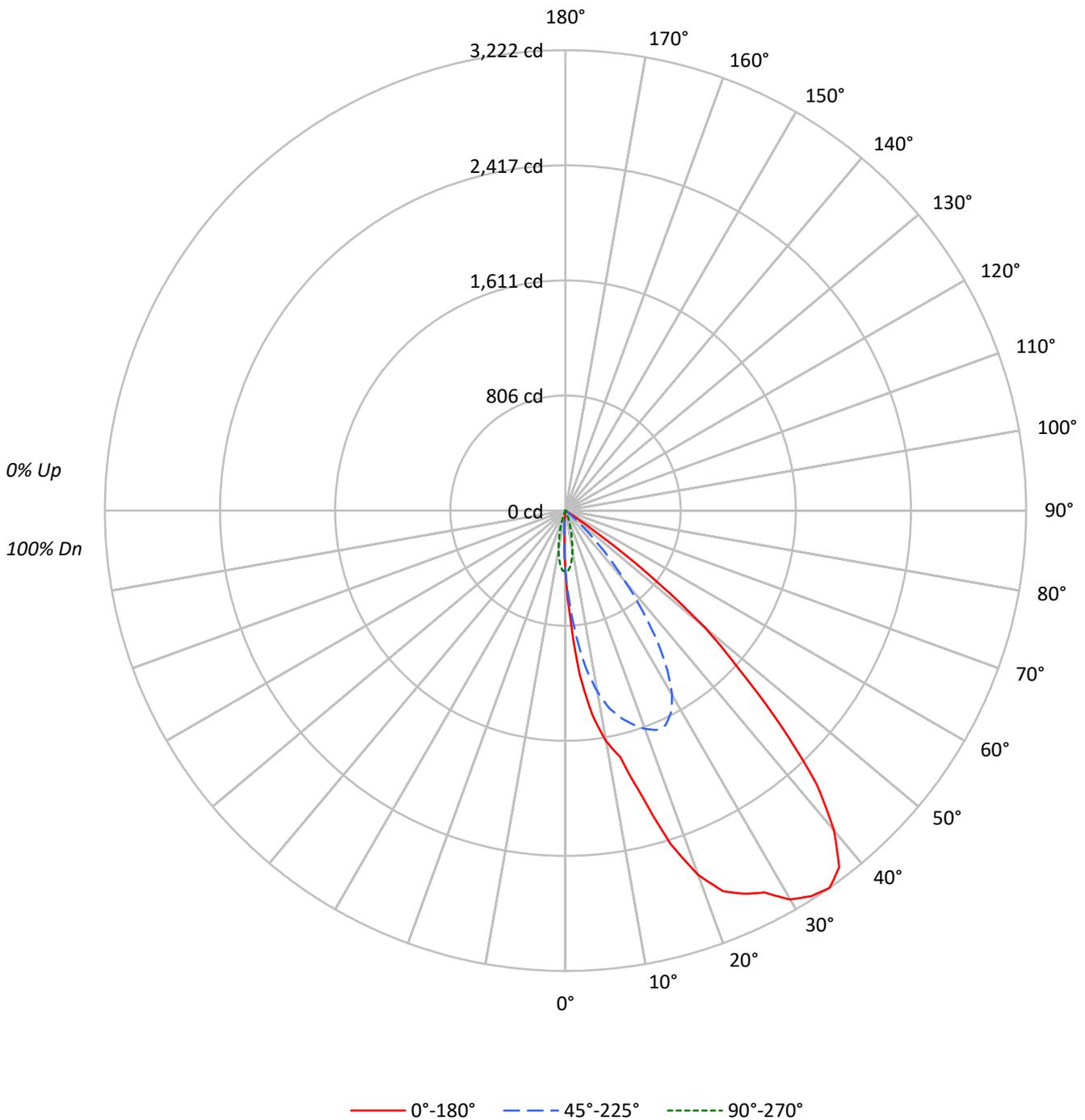
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1366.0 lumens
Efficiency: N/A
Efficacy: 67.0 lumens/watt
Spacing Criteria (0/90/45): 2.27 / 0.42 / 1.27
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 20.4
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	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	104	110	107	104	102	103	101	99	99	98	96	96	94	93	96	94	93	91
2	105	100	95	91	103	98	94	90	95	91	88	92	89	86	89	86	84	89	86	84	82
3	99	91	85	80	97	90	84	80	87	82	78	84	80	77	82	79	76	82	79	76	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	76	72	68	67
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	70	65	62	60
6	80	70	62	57	79	69	62	57	67	61	57	66	60	56	64	59	56	64	59	56	54
7	75	64	57	52	74	63	56	51	62	56	51	61	55	51	59	54	51	59	54	51	49
8	70	59	52	47	69	58	51	47	57	51	46	56	50	46	55	50	46	55	50	46	44
9	66	54	47	43	65	54	47	42	53	47	42	52	46	42	51	46	42	51	46	42	40
10	62	50	43	39	61	50	43	39	49	43	39	48	42	38	47	42	38	47	42	38	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	73057	73057	73057	73057	73057
5°	199470	153466	67614	13571	5083
10°	286470	225140	48896	1294	1067
15°	368809	267804	26014	446	0
20°	497080	297988	9897	0	0
25°	562232	314779	2565	0	0
30°	624955	296747	239	0	0
35°	677473	236652	0	0	0
40°	656634	148584	0	0	0
45°	520536	70778	0	0	0
50°	340674	8869	0	0	0
55°	58551	0	0	0	0
60°	0	0	413	0	0
65°	0	489	489	0	0
70°	0	604	1259	0	0
75°	0	799	1664	0	0
80°	0	1190	2479	1190	0
85°	0	2371	4940	2371	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 520536 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.5	3.7
10°-20°	194.6	14.2
20°-30°	364.3	26.7
30°-40°	425.2	31.1
40°-50°	277.3	20.3
50°-60°	51.5	3.8
60°-70°	0.5	0.0
70°-80°	1.0	0.1
80°-90°	1.1	0.1
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°	609.4	44.6
0°-40°	1034.6	75.7
0°-60°	1363.4	99.8
0°-90°	1366.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1366.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	424	424	424	424	424	
5°	1154	888	391	78	29	124
15°	2068	1502	146	2	0	616
25°	2959	1656	14	0	0	1368
35°	3222	1126	0	0	0	1976
45°	2137	291	0	0	0	1625
55°	195	0	0	0	0	339
65°	0	1	1	0	0	0
75°	0	1	2	0	0	0
85°	0	1	2	1	0	0
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°	424.2	424.2	424.2	424.2	424.2	424.2	424.2	424.2	424.2	424.2	424.2
2.5°	747.9	754.1	741.8	736.9	721.0	724.6	697.7	686.6	669.5	641.3	627.8
5°	1153.8	1142.8	1133.0	1112.1	1099.8	1066.7	1030.0	988.3	938.0	887.7	830.1
7.5°	1443.2	1434.6	1430.9	1413.7	1389.2	1354.9	1307.1	1254.3	1189.4	1121.9	1034.9
10°	1638.1	1629.5	1614.8	1597.7	1578.0	1549.8	1503.2	1445.6	1374.5	1287.4	1185.7
12.5°	1765.6	1764.4	1739.9	1720.3	1695.7	1671.2	1623.4	1576.8	1506.9	1417.4	1302.2
15°	2068.5	2048.9	2017.0	1961.8	1893.2	1829.4	1752.1	1678.6	1602.6	1502.0	1373.3
17.5°	2446.1	2424.1	2370.1	2300.2	2189.9	2068.5	1936.1	1819.6	1705.6	1569.5	1417.4
20°	2712.2	2703.6	2658.3	2577.3	2459.6	2299.0	2124.9	1960.6	1800.0	1625.9	1438.3
22.5°	2882.6	2877.7	2859.4	2804.2	2684.0	2503.8	2279.4	2058.7	1865.0	1661.4	1432.1
25°	2958.7	2964.8	2967.3	2940.3	2843.4	2659.5	2393.4	2133.5	1901.7	1656.5	1385.5
27.5°	3012.6	3012.6	3022.4	3010.2	2912.1	2718.3	2437.6	2159.2	1889.5	1596.4	1287.4
30°	3142.6	3140.1	3146.3	3113.2	2977.1	2736.7	2417.9	2117.5	1819.6	1492.2	1146.4
32.5°	3199.0	3201.4	3200.2	3147.5	2989.3	2724.5	2370.1	2037.8	1690.8	1329.1	960.1
35°	3222.3	3211.3	3165.9	3045.7	2845.9	2561.4	2235.2	1903.0	1510.6	1125.6	757.8
37.5°	3145.0	3113.2	3012.6	2848.3	2604.3	2330.9	2012.1	1661.4	1271.5	882.8	570.2
40°	2920.7	2879.0	2752.7	2554.0	2330.9	2084.4	1748.5	1378.2	994.4	660.9	399.7
42.5°	2603.1	2555.3	2419.2	2246.3	2042.7	1784.0	1449.3	1079.0	728.3	456.1	253.8
45°	2137.2	2110.2	2031.7	1885.8	1685.9	1417.4	1110.9	787.2	503.9	290.6	130.0
47.5°	1652.8	1618.5	1562.1	1461.6	1294.8	1039.8	777.4	534.6	323.7	143.5	27.0
50°	1271.5	1231.0	1162.4	1050.8	876.7	694.0	503.9	333.5	164.3	33.1	1.2
52.5°	732.0	740.6	707.5	636.4	539.5	415.7	291.8	168.0	36.8	1.2	0.0
55°	195.0	210.9	206.0	221.9	195.0	164.3	121.4	31.9	2.5	0.0	0.0
57.5°	0.0	0.0	1.2	2.5	7.4	11.0	3.7	1.2	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	424.2	424.2	424.2	424.2	424.2	424.2	424.2	424.2
2.5°	597.1	571.4	539.5	421.8	317.6	228.1	177.8	164.3
5°	774.9	712.4	631.5	391.1	196.2	78.5	35.6	29.4
7.5°	942.9	850.9	705.0	342.1	99.3	19.6	9.8	8.6
10°	1072.9	949.0	759.0	279.6	36.8	7.4	6.1	6.1
12.5°	1162.4	1011.6	778.6	212.1	13.5	3.7	3.7	2.5
15°	1213.9	1036.1	760.2	145.9	4.9	2.5	0.0	0.0
17.5°	1229.8	1026.3	711.2	92.0	1.2	0.0	0.0	0.0
20°	1216.3	978.5	633.9	54.0	0.0	0.0	0.0	0.0
22.5°	1172.2	903.7	540.7	29.4	0.0	0.0	0.0	0.0
25°	1090.0	798.2	431.6	13.5	0.0	0.0	0.0	0.0
27.5°	956.4	662.1	324.9	4.9	0.0	0.0	0.0	0.0
30°	804.3	516.2	230.5	1.2	0.0	0.0	0.0	0.0
32.5°	627.8	380.1	148.4	0.0	0.0	0.0	0.0	0.0
35°	472.1	266.1	88.3	0.0	0.0	0.0	0.0	0.0
37.5°	328.6	168.0	46.6	0.0	0.0	0.0	0.0	0.0
40°	204.8	90.7	15.9	0.0	0.0	0.0	0.0	0.0
42.5°	114.0	31.9	1.2	0.0	0.0	0.0	0.0	0.0
45°	27.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	1.2	0.0	0.0	0.0	0.0
60°	0.0	1.2	1.2	1.2	0.0	0.0	0.0	0.0
62.5°	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0
65°	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0
67.5°	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0
70°	1.2	1.2	1.2	2.5	1.2	0.0	0.0	0.0
72.5°	1.2	1.2	2.5	2.5	1.2	0.0	0.0	0.0
75°	1.2	1.2	2.5	2.5	1.2	0.0	0.0	0.0
77.5°	1.2	2.5	2.5	2.5	1.2	1.2	0.0	0.0
80°	1.2	2.5	2.5	2.5	2.5	1.2	0.0	0.0
82.5°	1.2	2.5	2.5	2.5	2.5	1.2	0.0	0.0
85°	1.2	2.5	2.5	2.5	1.2	1.2	0.0	0.0
87.5°	1.2	2.5	2.5	2.5	2.5	1.2	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)