

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: P1310567

Luminaire Tested: LDSQA3D17R509035DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310567
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: LDSQA3D17R509035DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

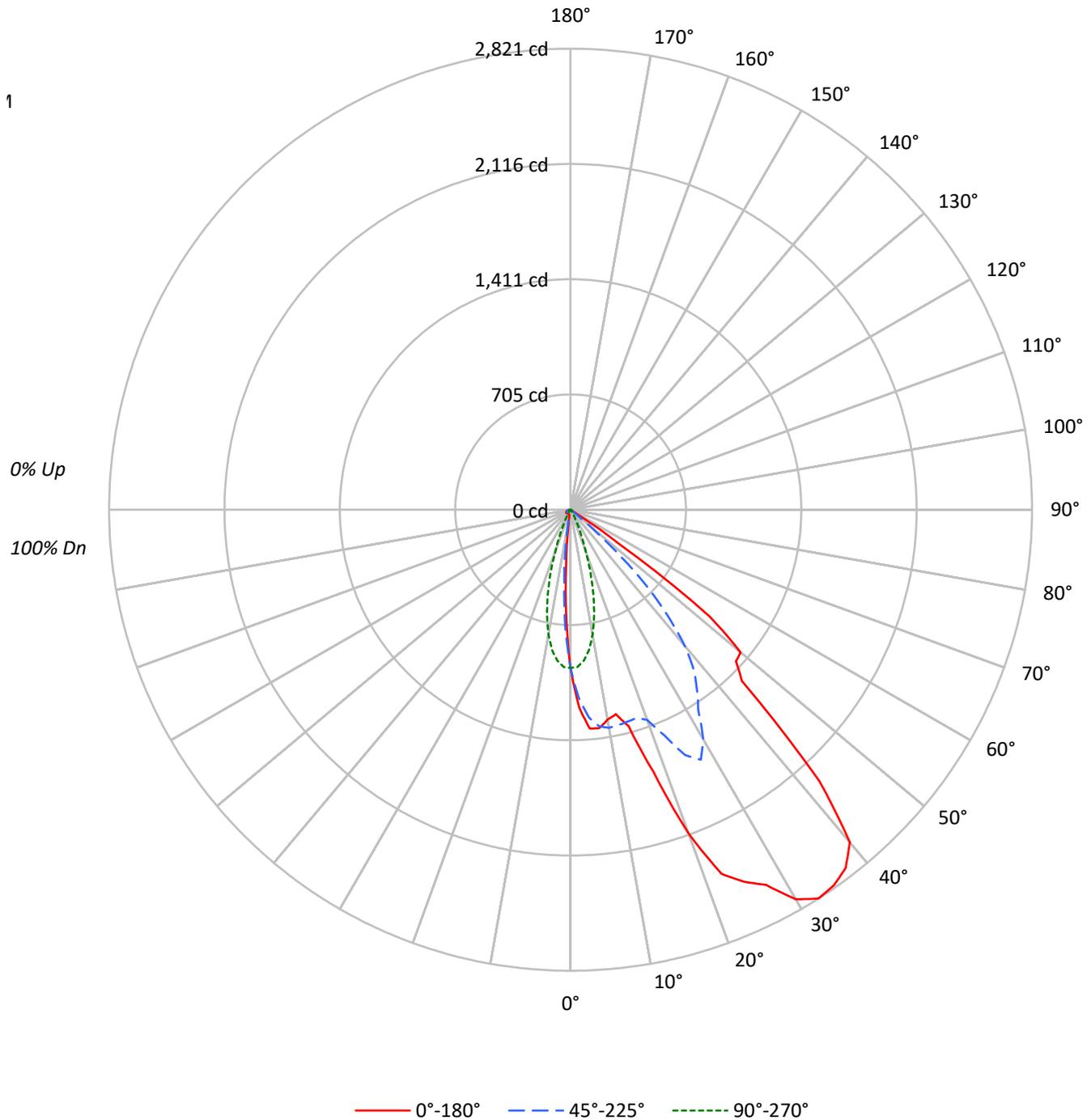
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1505.0 lumens
Efficiency: N/A
Efficacy: 71.0 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 (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	103	110	107	104	101	102	100	98	99	97	95	95	94	92	95	94	92	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	50	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	42	38	60	49	42	38	48	42	38	47	42	37	46	41	37	46	41	37	36

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	166643	166643	166643	166643	166643
5°	232351	220440	160174	77001	49962
10°	228095	236892	135374	16229	6960
15°	244607	239401	95710	5670	5438
20°	386253	250703	50529	4857	5095
25°	477290	314836	20143	4542	5036
30°	547218	322898	8173	4474	5270
35°	589948	283410	3616	4731	5845
40°	597169	244065	2675	5373	6565
45°	360931	158192	2582	5821	7429
50°	363663	27356	2840	6752	8520
55°	107463	1591	3183	7567	9548
60°	1826	1826	3203	8232	10506
65°	1630	1630	3260	8639	11329
70°	2014	2014	3323	9366	12689
75°	1797	1797	3527	9715	13242
80°	1289	2678	3967	9224	14480
85°	2569	5335	5335	10473	13042

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 412249 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.3	5.2
10°-20°	194.3	12.9
20°-30°	364.0	24.2
30°-40°	435.1	28.9
40°-50°	311.9	20.7
50°-60°	96.1	6.4
60°-70°	12.6	0.8
70°-80°	9.1	0.6
80°-90°	3.7	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°	636.5	42.3
0°-40°	1071.6	71.2
0°-60°	1479.6	98.3
0°-90°	1505.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1505.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	968	968	968	968	968	
5°	1344	1275	926	445	289	125
15°	1372	1343	537	32	30	439
25°	2512	1657	106	24	26	1157
35°	2806	1348	17	22	28	1741
45°	1482	650	11	24	30	1361
55°	358	5	11	25	32	461
65°	4	4	8	21	28	4
75°	3	3	5	15	20	2
85°	1	3	3	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°	967.6	967.6	967.6	967.6	967.6	967.6	967.6	967.6	967.6	967.6	967.6
2.5°	1210.1	1212.8	1216.8	1206.2	1199.5	1194.2	1185.0	1182.3	1159.8	1150.5	1141.2
5°	1344.0	1341.4	1344.0	1340.0	1337.4	1329.4	1321.5	1308.2	1293.7	1275.1	1253.9
7.5°	1348.0	1345.3	1350.6	1350.6	1355.9	1355.9	1355.9	1357.3	1349.3	1336.1	1317.5
10°	1304.3	1304.3	1309.6	1306.9	1316.2	1320.2	1329.4	1345.3	1353.3	1354.6	1349.3
12.5°	1281.7	1281.7	1283.0	1277.7	1280.4	1284.4	1295.0	1313.5	1332.1	1350.6	1361.2
15°	1371.9	1374.5	1355.9	1329.4	1309.6	1288.3	1281.7	1293.7	1313.5	1342.7	1366.6
17.5°	1678.0	1682.0	1662.1	1598.5	1537.5	1450.1	1371.9	1333.4	1312.2	1336.1	1367.9
20°	2107.5	2092.9	2058.4	1990.8	1902.0	1766.8	1644.9	1521.6	1403.7	1367.9	1378.5
22.5°	2411.0	2405.7	2377.9	2302.3	2225.4	2099.5	1944.5	1772.1	1601.2	1492.5	1435.5
25°	2511.7	2507.8	2482.6	2437.5	2395.1	2299.7	2160.5	1986.9	1807.9	1656.8	1513.7
27.5°	2587.3	2582.0	2542.2	2491.9	2448.1	2351.4	2224.1	2092.9	1928.5	1724.4	1504.4
30°	2751.7	2737.1	2681.4	2591.3	2507.8	2373.9	2233.4	2070.4	1847.7	1623.7	1409.0
32.5°	2820.6	2812.6	2764.9	2692.0	2600.6	2425.6	2212.2	1939.2	1646.2	1452.7	1296.3
35°	2806.0	2794.1	2745.0	2661.5	2550.2	2381.9	2096.9	1721.8	1483.2	1348.0	1171.7
37.5°	2762.3	2745.0	2686.7	2588.6	2453.4	2233.4	1860.9	1545.5	1391.7	1239.3	1002.0
40°	2656.2	2628.4	2560.8	2458.7	2323.5	2034.6	1646.2	1439.5	1296.3	1085.6	812.5
42.5°	2250.6	2236.1	2269.2	2252.0	2132.7	1792.0	1493.8	1342.7	1145.2	877.5	588.5
45°	1481.9	1507.0	1566.7	1668.8	1692.6	1541.5	1369.2	1183.6	942.4	649.5	339.3
47.5°	1371.9	1366.6	1381.1	1401.0	1405.0	1341.4	1185.0	978.2	699.8	371.1	94.1
50°	1357.3	1349.3	1337.4	1313.5	1263.2	1139.9	962.3	713.1	404.3	102.1	6.6
52.5°	1072.3	1064.3	1064.3	1029.9	964.9	845.6	664.1	392.3	112.7	6.6	5.3
55°	357.9	381.7	377.8	376.4	405.6	373.8	286.3	100.7	9.3	5.3	5.3
57.5°	6.6	6.6	6.6	11.9	18.6	26.5	15.9	8.0	5.3	5.3	5.3
60°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
62.5°	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3	5.3
65°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	5.3
67.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
70°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
72.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	4.0	4.0	4.0
75°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	4.0
77.5°	1.3	1.3	1.3	1.3	2.7	2.7	2.7	2.7	2.7	2.7	2.7
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.7	2.7	2.7	2.7
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.7	2.7	2.7
85°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.7	2.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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°	967.6	967.6	967.6	967.6	967.6	967.6	967.6	967.6
2.5°	1120.0	1101.5	1065.7	963.6	850.9	722.4	634.9	624.3
5°	1220.7	1192.9	1134.6	926.5	669.4	445.4	331.4	289.0
7.5°	1287.0	1249.9	1178.3	865.5	487.8	234.6	125.9	100.7
10°	1326.8	1292.3	1200.9	774.1	310.2	92.8	42.4	39.8
12.5°	1348.0	1314.9	1208.8	664.1	175.0	42.4	33.1	33.1
15°	1362.6	1326.8	1196.9	536.8	87.5	31.8	30.5	30.5
17.5°	1369.2	1325.5	1162.4	404.3	46.4	29.2	29.2	29.2
20°	1373.2	1310.9	1098.8	275.7	31.8	26.5	27.8	27.8
22.5°	1377.2	1275.1	1015.3	175.0	25.2	25.2	26.5	26.5
25°	1369.2	1212.8	897.3	106.0	22.5	23.9	25.2	26.5
27.5°	1312.2	1118.7	754.2	64.9	19.9	22.5	25.2	26.5
30°	1214.1	980.8	588.5	41.1	18.6	22.5	25.2	26.5
32.5°	1086.9	823.1	420.2	25.2	18.6	22.5	25.2	26.5
35°	915.9	629.6	273.0	17.2	18.6	22.5	26.5	27.8
37.5°	723.7	440.1	147.1	13.3	18.6	22.5	26.5	27.8
40°	520.9	263.8	53.0	11.9	17.2	23.9	27.8	29.2
42.5°	304.9	98.1	9.3	10.6	17.2	23.9	27.8	29.2
45°	87.5	10.6	5.3	10.6	17.2	23.9	29.2	30.5
47.5°	6.6	4.0	5.3	10.6	17.2	23.9	29.2	31.8
50°	4.0	4.0	4.0	10.6	17.2	25.2	30.5	31.8
52.5°	5.3	5.3	5.3	10.6	17.2	25.2	30.5	31.8
55°	5.3	5.3	5.3	10.6	17.2	25.2	30.5	31.8
57.5°	5.3	5.3	5.3	10.6	17.2	23.9	30.5	31.8
60°	5.3	5.3	5.3	9.3	15.9	23.9	29.2	30.5
62.5°	5.3	5.3	5.3	9.3	15.9	22.5	29.2	29.2
65°	5.3	5.3	5.3	8.0	14.6	21.2	26.5	27.8
67.5°	5.3	5.3	5.3	8.0	13.3	19.9	25.2	26.5
70°	4.0	5.3	5.3	6.6	11.9	18.6	23.9	25.2
72.5°	4.0	4.0	5.3	6.6	10.6	15.9	21.2	22.5
75°	4.0	4.0	4.0	5.3	9.3	14.6	18.6	19.9
77.5°	4.0	4.0	4.0	5.3	8.0	11.9	17.2	17.2
80°	2.7	4.0	4.0	4.0	6.6	9.3	13.3	14.6
82.5°	2.7	2.7	2.7	4.0	5.3	8.0	10.6	10.6
85°	2.7	2.7	2.7	2.7	4.0	5.3	6.6	6.6
87.5°	1.3	2.7	2.7	2.7	2.7	2.7	2.7	2.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)