

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: P1316648

Luminaire Tested: LDSQA3D13R559740DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316648
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-66)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D13R559740DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R55 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

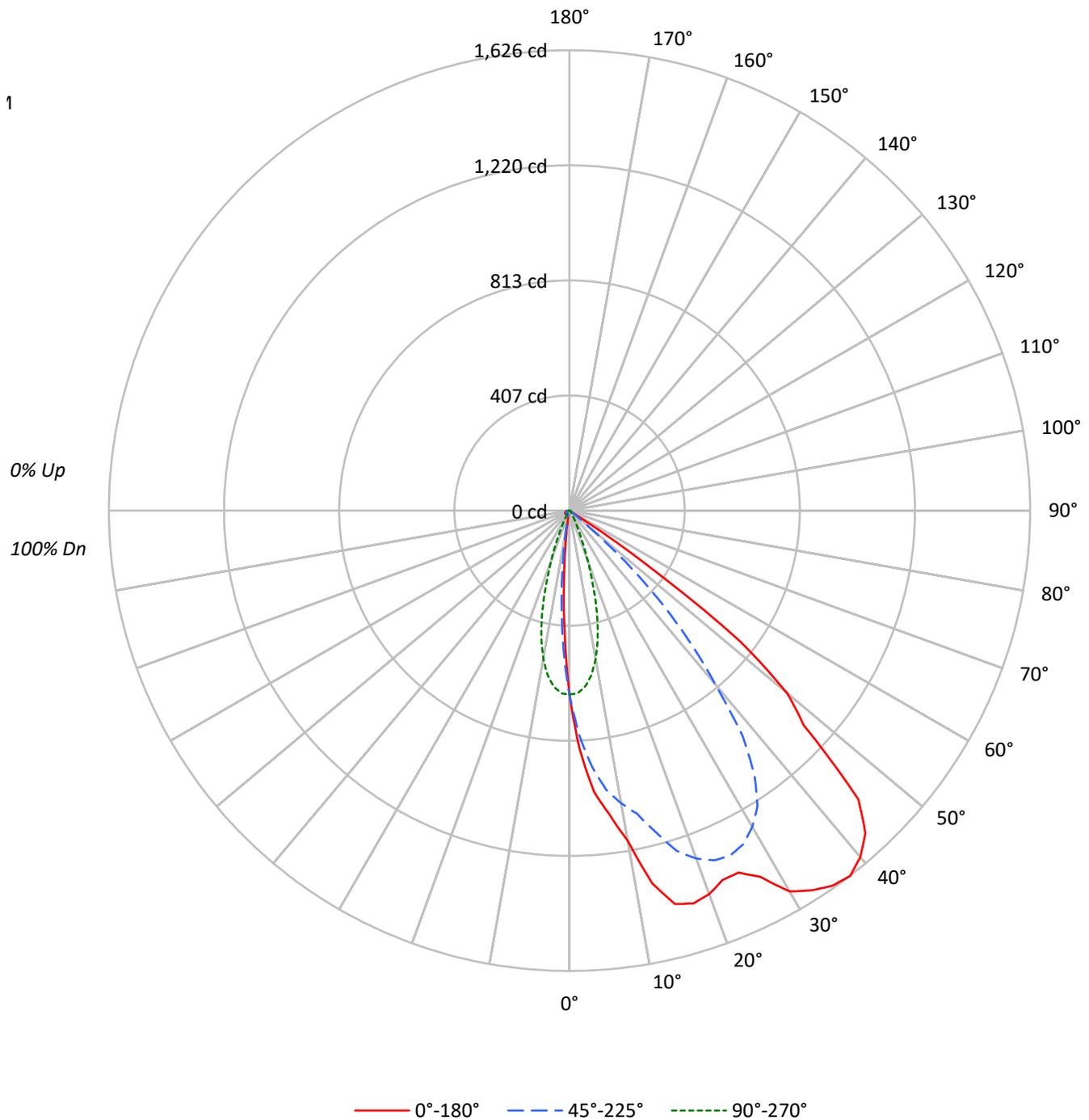
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1083.0 lumens
Efficiency: N/A
Efficacy: 74.2 lumens/watt
Spacing Criteria (0/90/45): 1.79 / 0.55 / 1.22
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
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		
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91		
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	81		
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73		
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65		
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59		
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53		
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48		
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	44		
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40		
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	111790	111790	111790	111790	111790
5°	172396	156941	107998	55460	36426
10°	207127	183431	92948	13990	5596
15°	256464	209500	66416	3851	3013
20°	264137	239651	34309	2584	2584
25°	267976	255282	13758	2318	2679
30°	308878	256497	5986	2426	2804
35°	339987	239133	2565	2565	3175
40°	359129	179991	1484	2968	3395
45°	351262	109992	1364	3215	4116
50°	268681	23444	1500	3778	4796
55°	98576	841	1681	4234	5375
60°	964	964	1929	4857	6166
65°	1141	1141	2282	4972	6520
70°	957	1410	2367	5690	7604
75°	599	1264	2529	6255	8784
80°	893	1884	2777	6546	9323
85°	0	1778	3754	7509	9287

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 351262 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.1	5.3
10°-20°	163.6	15.1
20°-30°	251.0	23.2
30°-40°	292.5	27.0
40°-50°	233.8	21.6
50°-60°	69.2	6.4
60°-70°	7.4	0.7
70°-80°	5.8	0.5
80°-90°	2.5	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°	471.8	43.6
0°-40°	764.4	70.6
0°-60°	1067.3	98.6
0°-90°	1083.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1083.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	649	649	649	649	649	
5°	997	908	625	321	211	99
15°	1438	1175	372	22	17	397
25°	1410	1343	72	12	14	670
35°	1617	1137	12	12	15	1007
45°	1442	452	6	13	17	1040
55°	328	3	6	14	18	348
65°	3	3	6	12	16	2
75°	1	2	4	9	13	1
85°	0	1	2	4	5	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°	649.1	649.1	649.1	649.1	649.1	649.1	649.1	649.1	649.1	649.1	649.1
2.5°	846.7	846.7	843.8	844.8	842.9	832.6	830.7	817.5	806.2	794.0	783.6
5°	997.2	999.1	996.2	990.6	983.1	975.6	959.6	947.3	931.3	907.8	886.2
7.5°	1082.8	1080.9	1076.2	1074.3	1069.6	1061.2	1049.9	1036.7	1017.9	994.4	969.0
10°	1184.4	1168.4	1163.7	1156.2	1141.1	1124.2	1104.4	1086.6	1070.6	1048.9	1021.6
12.5°	1348.1	1345.3	1326.4	1312.3	1291.6	1254.0	1220.1	1180.6	1133.6	1096.0	1060.2
15°	1438.4	1440.3	1431.8	1420.5	1407.4	1376.3	1342.4	1296.3	1240.8	1175.0	1116.7
17.5°	1454.4	1457.2	1452.5	1447.8	1444.0	1426.2	1405.5	1372.5	1321.7	1260.6	1174.0
20°	1441.2	1446.9	1447.8	1453.4	1461.0	1453.4	1436.5	1413.9	1371.6	1307.6	1224.8
22.5°	1412.1	1422.4	1429.9	1449.7	1469.4	1469.4	1459.1	1441.2	1399.8	1336.8	1252.1
25°	1410.2	1412.1	1414.9	1446.9	1477.9	1484.5	1475.1	1456.3	1411.1	1343.4	1251.2
27.5°	1457.2	1445.0	1426.2	1458.2	1494.8	1500.5	1487.3	1461.9	1408.3	1328.3	1219.2
30°	1553.2	1525.9	1486.4	1509.9	1535.3	1528.7	1502.4	1461.9	1389.5	1289.8	1159.0
32.5°	1589.9	1574.8	1560.7	1586.1	1590.8	1563.5	1516.5	1456.3	1359.4	1235.2	1060.2
35°	1617.1	1618.1	1612.4	1617.1	1594.6	1556.0	1504.2	1425.2	1302.9	1137.4	929.5
37.5°	1626.5	1628.4	1616.2	1599.3	1565.4	1521.2	1459.1	1368.8	1208.9	1002.8	731.9
40°	1597.4	1591.7	1572.0	1548.5	1511.8	1466.6	1398.9	1264.4	1068.7	800.6	571.0
42.5°	1545.6	1536.2	1512.7	1484.5	1445.9	1388.5	1280.4	1117.6	868.3	624.7	399.8
45°	1442.2	1435.6	1406.4	1385.7	1339.6	1265.3	1126.1	921.0	671.7	451.6	231.4
47.5°	1120.4	1121.4	1143.9	1154.3	1138.3	1079.0	915.3	699.9	490.1	269.1	78.1
50°	1002.8	998.1	975.6	944.5	892.8	804.3	671.7	494.8	289.7	87.5	11.3
52.5°	761.1	761.1	749.8	733.8	679.2	593.6	454.4	273.8	101.6	15.1	2.8
55°	328.3	311.4	320.8	338.7	324.6	282.2	212.6	81.8	17.9	2.8	2.8
57.5°	4.7	11.3	16.9	27.3	36.7	44.2	23.5	8.5	2.8	2.8	2.8
60°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
62.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
65°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
67.5°	1.9	1.9	1.9	2.8	1.9	2.8	2.8	2.8	2.8	2.8	2.8
70°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	2.8	2.8
72.5°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
75°	0.9	0.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	1.9	1.9	1.9	1.9	1.9
80°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.9	1.9	1.9
82.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.9	1.9
85°	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9
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°	649.1	649.1	649.1	649.1	649.1	649.1	649.1	649.1
2.5°	768.6	752.6	726.3	646.3	563.5	487.3	432.7	412.0
5°	861.7	832.6	788.3	624.7	460.0	320.8	241.8	210.7
7.5°	935.1	897.5	833.5	587.0	337.7	171.2	102.5	80.9
10°	984.0	942.6	858.9	531.5	223.9	80.0	38.6	32.0
12.5°	1019.8	968.0	868.3	460.0	131.7	36.7	20.7	18.8
15°	1046.1	979.3	857.0	372.5	72.4	21.6	16.9	16.9
17.5°	1082.8	985.0	829.7	274.7	41.4	16.0	16.0	16.0
20°	1111.0	985.0	778.0	187.2	25.4	14.1	14.1	14.1
22.5°	1125.1	969.9	715.0	118.5	17.9	13.2	14.1	14.1
25°	1111.0	933.2	634.1	72.4	14.1	12.2	13.2	14.1
27.5°	1059.3	859.8	525.9	46.1	11.3	12.2	13.2	14.1
30°	972.7	753.5	403.6	30.1	10.3	12.2	13.2	14.1
32.5°	850.4	595.5	261.5	19.8	9.4	12.2	13.2	14.1
35°	664.2	421.5	158.0	12.2	9.4	12.2	14.1	15.1
37.5°	497.7	281.3	85.6	7.5	9.4	12.2	14.1	15.1
40°	345.3	163.7	36.7	6.6	9.4	13.2	15.1	15.1
42.5°	200.4	64.9	9.4	5.6	9.4	13.2	15.1	16.0
45°	73.4	13.2	2.8	5.6	10.3	13.2	15.1	16.9
47.5°	10.3	2.8	2.8	5.6	10.3	13.2	16.0	16.9
50°	2.8	2.8	2.8	5.6	10.3	14.1	16.9	17.9
52.5°	2.8	2.8	2.8	5.6	10.3	14.1	16.9	17.9
55°	2.8	2.8	2.8	5.6	10.3	14.1	16.9	17.9
57.5°	2.8	2.8	2.8	5.6	10.3	14.1	16.9	17.9
60°	2.8	2.8	2.8	5.6	9.4	14.1	16.9	17.9
62.5°	2.8	2.8	2.8	5.6	9.4	13.2	16.0	16.9
65°	2.8	2.8	2.8	5.6	8.5	12.2	16.0	16.0
67.5°	2.8	2.8	2.8	4.7	8.5	12.2	15.1	16.0
70°	2.8	2.8	2.8	4.7	7.5	11.3	14.1	15.1
72.5°	2.8	2.8	2.8	3.8	6.6	10.3	13.2	14.1
75°	1.9	2.8	2.8	3.8	6.6	9.4	12.2	13.2
77.5°	1.9	2.8	2.8	2.8	5.6	7.5	10.3	11.3
80°	1.9	1.9	2.8	2.8	4.7	6.6	8.5	9.4
82.5°	1.9	1.9	1.9	2.8	3.8	4.7	6.6	6.6
85°	1.9	1.9	1.9	1.9	2.8	3.8	4.7	4.7
87.5°	0.9	0.9	1.9	1.9	1.9	1.9	1.9	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)