

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: P1312614

Luminaire Tested: LDSQA3D13R559050DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312614
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: LDSQA3D13R559050DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R55 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

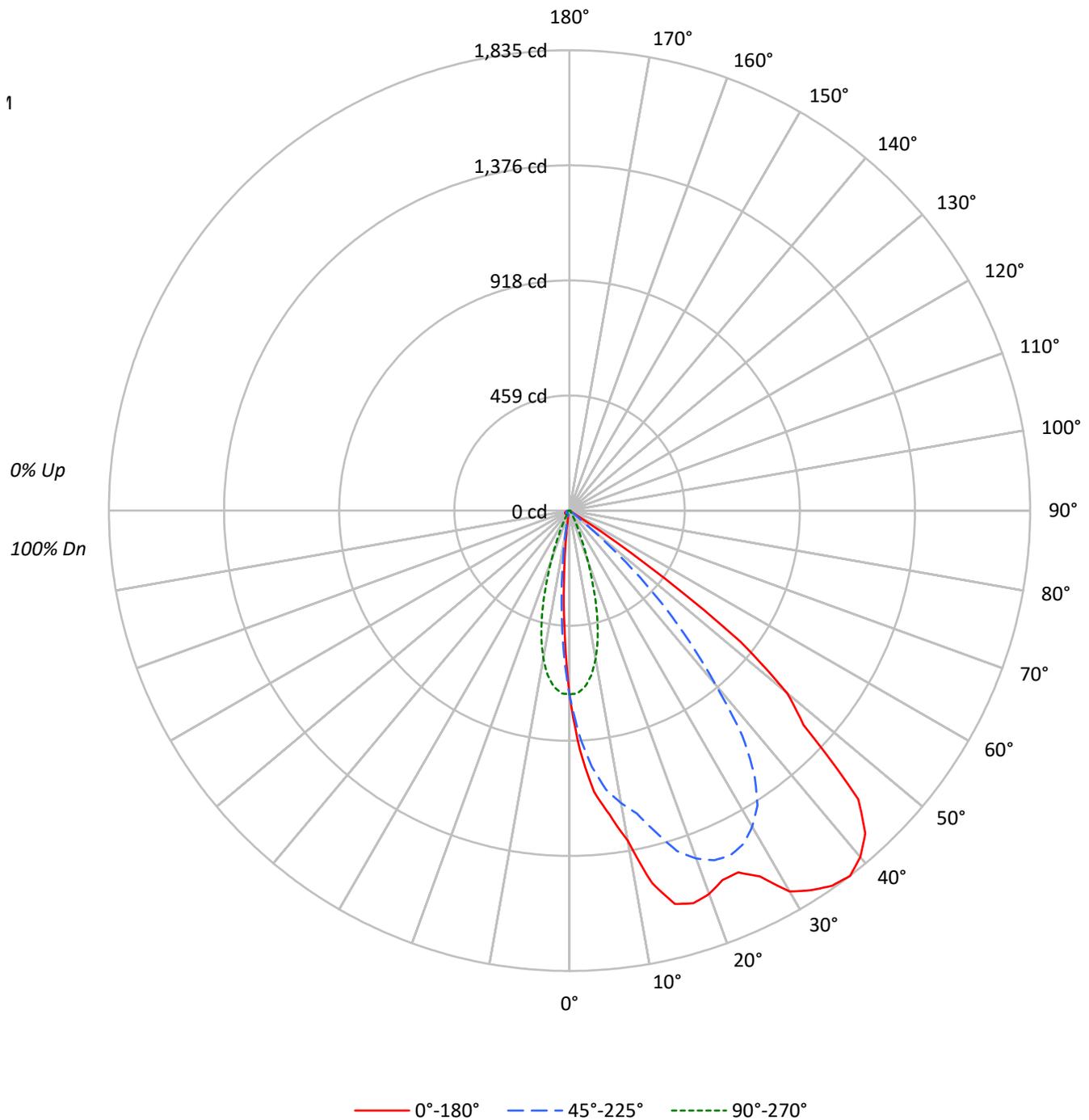
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1222.0 lumens
Efficiency: N/A
Efficacy: 83.7 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	100	100
1	112	109	106	103	110	107	104	102	103	100	98	99	97	95	95	94	93	91	91	91
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	81	81	81
3	98	90	84	79	96	89	83	79	86	81	77	83	79	76	81	78	75	73	73	73
4	91	82	75	70	89	81	75	70	79	73	69	77	72	68	75	71	67	65	65	65
5	85	75	68	63	84	74	67	62	72	66	62	70	65	61	69	64	61	59	59	59
6	80	69	62	56	78	68	61	56	66	60	56	65	59	55	63	59	55	53	53	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48	48	48
8	70	58	51	46	68	58	51	46	57	50	46	55	50	46	54	49	45	44	44	44
9	66	54	47	42	64	53	47	42	52	46	42	51	46	42	50	45	41	40	40	40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	126136	126136	126136	126136	126136
5°	194525	177081	121846	62583	41111
10°	233709	206987	104875	15774	6313
15°	289378	236387	74939	4350	3405
20°	298043	270423	38708	2914	2914
25°	302370	288042	15525	2622	3021
30°	348512	289409	6761	2744	3162
35°	383634	269807	2901	2901	3574
40°	405217	203081	1664	3350	3822
45°	396345	124094	1559	3629	4652
50°	303164	26445	1715	4260	5412
55°	111247	961	1922	4774	6065
60°	1102	1102	2204	5477	6958
65°	1304	1304	2608	5624	7335
70°	1057	1611	2669	6395	8560
75°	732	1397	2795	7053	9915
80°	1091	2083	3174	7339	10513
85°	0	2174	4150	8299	10473

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 396345 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	5.3
10°-20°	184.6	15.1
20°-30°	283.3	23.2
30°-40°	330.1	27.0
40°-50°	263.8	21.6
50°-60°	78.1	6.4
60°-70°	8.4	0.7
70°-80°	6.5	0.5
80°-90°	2.8	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°	532.4	43.6
0°-40°	862.5	70.6
0°-60°	1204.3	98.6
0°-90°	1222.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1222.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	732	732	732	732	732	
5°	1125	1024	705	362	238	112
15°	1623	1326	420	24	19	448
25°	1591	1516	82	14	16	756
35°	1825	1283	14	14	17	1136
45°	1627	510	6	15	19	1173
55°	370	3	6	16	20	392
65°	3	3	6	14	18	3
75°	1	2	4	11	15	2
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°	732.4	732.4	732.4	732.4	732.4	732.4	732.4	732.4	732.4	732.4	732.4
2.5°	955.3	955.3	952.2	953.2	951.1	939.4	937.3	922.4	909.7	895.9	884.2
5°	1125.2	1127.3	1124.1	1117.7	1109.3	1100.8	1082.7	1068.9	1050.9	1024.3	999.9
7.5°	1221.8	1219.6	1214.3	1212.2	1206.9	1197.4	1184.6	1169.8	1148.5	1122.0	1093.3
10°	1336.4	1318.4	1313.1	1304.6	1287.6	1268.5	1246.2	1226.0	1208.0	1183.6	1152.8
12.5°	1521.1	1517.9	1496.7	1480.8	1457.4	1415.0	1376.7	1332.2	1279.1	1236.6	1196.3
15°	1623.0	1625.1	1615.6	1602.8	1588.0	1553.0	1514.7	1462.7	1400.1	1325.8	1260.0
17.5°	1641.1	1644.2	1638.9	1633.6	1629.4	1609.2	1585.9	1548.7	1491.4	1422.4	1324.7
20°	1626.2	1632.6	1633.6	1640.0	1648.5	1640.0	1620.9	1595.4	1547.6	1475.5	1382.1
22.5°	1593.3	1605.0	1613.5	1635.7	1658.0	1658.0	1646.4	1626.2	1579.5	1508.4	1412.8
25°	1591.2	1593.3	1596.5	1632.6	1667.6	1675.0	1664.4	1643.2	1592.2	1515.8	1411.8
27.5°	1644.2	1630.4	1609.2	1645.3	1686.7	1693.1	1678.2	1649.5	1589.0	1498.8	1375.7
30°	1752.5	1721.7	1677.1	1703.7	1732.3	1724.9	1695.2	1649.5	1567.8	1455.3	1307.7
32.5°	1793.9	1776.9	1761.0	1789.7	1795.0	1764.2	1711.1	1643.2	1533.8	1393.7	1196.3
35°	1824.7	1825.8	1819.4	1824.7	1799.2	1755.7	1697.3	1608.2	1470.2	1283.3	1048.7
37.5°	1835.3	1837.4	1823.6	1804.5	1766.3	1716.4	1646.4	1544.5	1364.0	1131.5	825.8
40°	1802.4	1796.0	1773.7	1747.2	1705.8	1654.9	1578.4	1426.6	1205.8	903.3	644.3
42.5°	1744.0	1733.4	1706.9	1675.0	1631.5	1566.8	1444.7	1261.0	979.8	704.8	451.1
45°	1627.3	1619.8	1586.9	1563.6	1511.6	1427.7	1270.6	1039.2	757.9	509.5	261.1
47.5°	1264.2	1265.3	1290.8	1302.4	1284.4	1217.5	1032.8	789.7	553.0	303.6	88.1
50°	1131.5	1126.2	1100.8	1065.7	1007.3	907.6	757.9	558.3	326.9	98.7	12.7
52.5°	858.7	858.7	846.0	828.0	766.4	669.8	512.7	308.9	114.6	17.0	3.2
55°	370.5	351.4	362.0	382.1	366.2	318.4	239.9	92.3	20.2	3.2	3.2
57.5°	5.3	12.7	19.1	30.8	41.4	49.9	26.5	9.6	3.2	3.2	3.2
60°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
62.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
65°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
67.5°	2.1	2.1	2.1	3.2	2.1	3.2	3.2	3.2	3.2	3.2	3.2
70°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	3.2	3.2
72.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
75°	1.1	1.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
77.5°	1.1	1.1	1.1	1.1	1.1	1.1	2.1	2.1	2.1	2.1	2.1
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	2.1	2.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	2.1	2.1
85°	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1	1.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.1	1.1	1.1	1.1	1.1
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°	732.4	732.4	732.4	732.4	732.4	732.4	732.4	732.4
2.5°	867.2	849.2	819.5	729.2	635.8	549.8	488.3	464.9
5°	972.3	939.4	889.5	704.8	519.1	362.0	272.8	237.8
7.5°	1055.1	1012.7	940.5	662.4	381.1	193.2	115.7	91.3
10°	1110.3	1063.6	969.1	599.7	252.6	90.2	43.5	36.1
12.5°	1150.6	1092.3	979.8	519.1	148.6	41.4	23.4	21.2
15°	1180.4	1105.0	967.0	420.3	81.7	24.4	19.1	19.1
17.5°	1221.8	1111.4	936.2	310.0	46.7	18.0	18.0	18.0
20°	1253.6	1111.4	877.8	211.2	28.7	15.9	15.9	15.9
22.5°	1269.5	1094.4	806.7	133.7	20.2	14.9	15.9	15.9
25°	1253.6	1053.0	715.4	81.7	15.9	13.8	14.9	15.9
27.5°	1195.2	970.2	593.4	52.0	12.7	13.8	14.9	15.9
30°	1097.6	850.2	455.4	34.0	11.7	13.8	14.9	15.9
32.5°	959.6	671.9	295.1	22.3	10.6	13.8	14.9	15.9
35°	749.4	475.5	178.3	13.8	10.6	13.8	15.9	17.0
37.5°	561.5	317.4	96.6	8.5	10.6	13.8	15.9	17.0
40°	389.6	184.7	41.4	7.4	10.6	14.9	17.0	17.0
42.5°	226.1	73.2	10.6	6.4	10.6	14.9	17.0	18.0
45°	82.8	14.9	3.2	6.4	11.7	14.9	17.0	19.1
47.5°	11.7	3.2	3.2	6.4	11.7	14.9	18.0	19.1
50°	3.2	3.2	3.2	6.4	11.7	15.9	19.1	20.2
52.5°	3.2	3.2	3.2	6.4	11.7	15.9	19.1	20.2
55°	3.2	3.2	3.2	6.4	11.7	15.9	19.1	20.2
57.5°	3.2	3.2	3.2	6.4	11.7	15.9	19.1	20.2
60°	3.2	3.2	3.2	6.4	10.6	15.9	19.1	20.2
62.5°	3.2	3.2	3.2	6.4	10.6	14.9	18.0	19.1
65°	3.2	3.2	3.2	6.4	9.6	13.8	18.0	18.0
67.5°	3.2	3.2	3.2	5.3	9.6	13.8	17.0	18.0
70°	3.2	3.2	3.2	5.3	8.5	12.7	15.9	17.0
72.5°	3.2	3.2	3.2	4.2	7.4	11.7	14.9	15.9
75°	2.1	3.2	3.2	4.2	7.4	10.6	13.8	14.9
77.5°	2.1	3.2	3.2	3.2	6.4	8.5	11.7	12.7
80°	2.1	2.1	3.2	3.2	5.3	7.4	9.6	10.6
82.5°	2.1	2.1	2.1	3.2	4.2	5.3	7.4	7.4
85°	2.1	2.1	2.1	2.1	3.2	4.2	5.3	5.3
87.5°	1.1	1.1	2.1	2.1	2.1	2.1	2.1	2.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)