

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: P1310231

Luminaire Tested: LDSQA3D09R459035DE010 3LSQCA30R 1MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310231
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: LDSQA3D09R459035DE010 3LSQCA30R 1MB
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MB TRIM
Light Source: -
Ballast/Driver: -

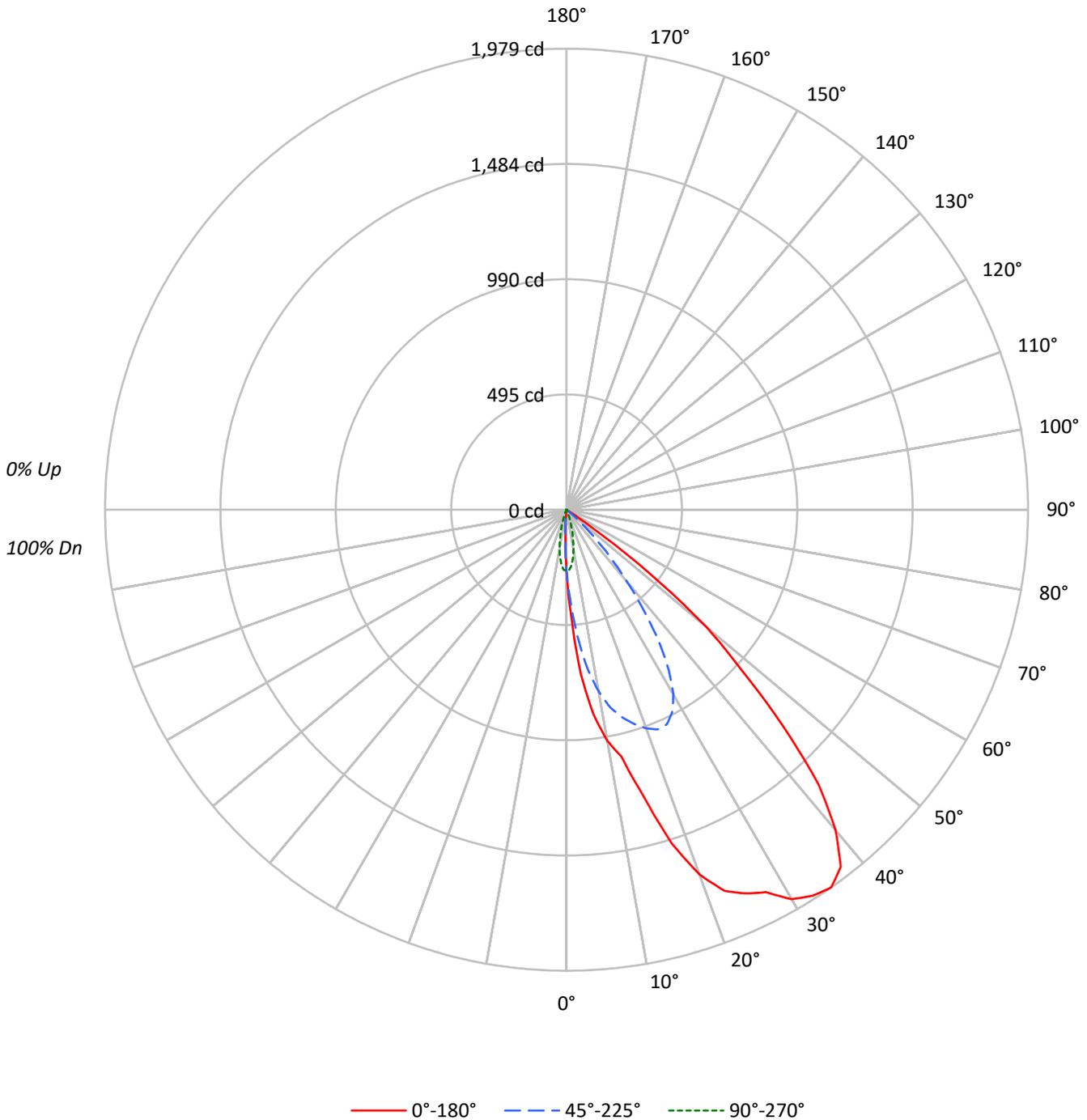
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 839.1 lumens
Efficiency: N/A
Efficacy: 75.6 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): 11.1
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

TEST NUMBER: P1310231
CATALOG NUMBER: LDSQA3D09R459035DE010 3LSQCA30R 1MB

Luminous Intensity Polar Plot





TEST NUMBER: P1310231

CATALOG NUMBER: LDSQA3D09R459035DE010 3LSQCA30R 1MB

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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°	44881	44881	44881	44881	44881
5°	122520	94254	41526	8333	3129
10°	175946	138295	30027	787	665
15°	226528	164480	15976	267	0
20°	305300	183019	6066	0	0
25°	345316	193333	1577	0	0
30°	383850	182260	159	0	0
35°	416096	145342	0	0	0
40°	403306	91255	0	0	0
45°	319696	43475	0	0	0
50°	209254	5439	0	0	0
55°	35941	0	0	0	0
60°	0	0	276	0	0
65°	0	326	326	0	0
70°	0	403	755	0	0
75°	0	532	998	0	0
80°	0	793	1488	793	0
85°	0	1581	2964	1581	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 319696 cd/sqm



TEST NUMBER: P1310231

CATALOG NUMBER: LDSQA3D09R459035DE010 3LSQCA30R 1MB

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.0	3.7
10°-20°	119.5	14.2
20°-30°	223.7	26.7
30°-40°	261.2	31.1
40°-50°	170.3	20.3
50°-60°	31.6	3.8
60°-70°	0.3	0.0
70°-80°	0.6	0.1
80°-90°	0.7	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°	374.3	44.6
0°-40°	635.5	75.7
0°-60°	837.4	99.8
0°-90°	839.1	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	839.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	261	261	261	261	261	
5°	709	545	240	48	18	76
15°	1270	922	90	2	0	379
25°	1817	1017	8	0	0	840
35°	1979	691	0	0	0	1214
45°	1313	178	0	0	0	998
55°	120	0	0	0	0	208
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	



TEST NUMBER: P1310231

CATALOG NUMBER: LDSQA3D09R459035DE010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	260.6	260.6	260.6	260.6	260.6	260.6	260.6	260.6	260.6	260.6	260.6
2.5°	459.4	463.2	455.6	452.6	442.8	445.1	428.5	421.7	411.2	393.9	385.6
5°	708.7	701.9	695.9	683.1	675.5	655.2	632.6	607.0	576.1	545.2	509.8
7.5°	886.4	881.1	878.9	868.3	853.3	832.2	802.8	770.4	730.5	689.1	635.6
10°	1006.1	1000.9	991.8	981.3	969.2	951.9	923.3	887.9	844.2	790.8	728.2
12.5°	1084.5	1083.7	1068.6	1056.6	1041.5	1026.5	997.1	968.5	925.6	870.6	799.8
15°	1270.5	1258.4	1238.8	1205.0	1162.8	1123.6	1076.2	1031.0	984.3	922.5	843.5
17.5°	1502.4	1488.9	1455.7	1412.8	1345.0	1270.5	1189.1	1117.6	1047.6	964.0	870.6
20°	1665.8	1660.6	1632.7	1583.0	1510.7	1412.1	1305.1	1204.2	1105.5	998.6	883.4
22.5°	1770.5	1767.5	1756.2	1722.3	1648.5	1537.8	1400.0	1264.4	1145.5	1020.4	879.6
25°	1817.2	1821.0	1822.5	1805.9	1746.4	1633.5	1470.0	1310.4	1168.1	1017.4	851.0
27.5°	1850.4	1850.4	1856.4	1848.8	1788.6	1669.6	1497.2	1326.2	1160.5	980.5	790.8
30°	1930.2	1928.7	1932.4	1912.1	1828.5	1680.9	1485.1	1300.6	1117.6	916.5	704.1
32.5°	1964.8	1966.3	1965.6	1933.2	1836.0	1673.4	1455.7	1251.6	1038.5	816.4	589.7
35°	1979.1	1972.4	1944.5	1870.7	1747.9	1573.2	1372.9	1168.8	927.8	691.3	465.4
37.5°	1931.7	1912.1	1850.4	1749.4	1599.6	1431.6	1235.8	1020.4	781.0	542.2	350.2
40°	1793.9	1768.3	1690.7	1568.7	1431.6	1280.3	1073.9	846.5	610.8	405.9	245.5
42.5°	1598.8	1569.5	1485.9	1379.7	1254.7	1095.8	890.2	662.7	447.3	280.2	155.9
45°	1312.6	1296.1	1247.9	1158.3	1035.5	870.6	682.3	483.5	309.5	178.5	79.8
47.5°	1015.2	994.1	959.4	897.7	795.3	638.6	477.5	328.3	198.8	88.1	16.6
50°	781.0	756.1	713.9	645.4	538.5	426.3	309.5	204.8	100.9	20.3	0.8
52.5°	449.6	454.9	434.5	390.9	331.4	255.3	179.2	103.2	22.6	0.8	0.0
55°	119.7	129.5	126.5	136.3	119.7	100.9	74.6	19.6	1.5	0.0	0.0
57.5°	0.0	0.0	0.8	1.5	4.5	6.8	2.3	0.8	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	0.8	0.8
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1310231

CATALOG NUMBER: LDSQA3D09R459035DE010 3LSQCA30R 1MB

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	260.6	260.6	260.6	260.6	260.6	260.6	260.6	260.6
2.5°	366.8	350.9	331.4	259.1	195.1	140.1	109.2	100.9
5°	476.0	437.5	387.8	240.2	120.5	48.2	21.8	18.1
7.5°	579.1	522.6	433.0	210.1	61.0	12.0	6.0	5.3
10°	659.0	582.9	466.2	171.7	22.6	4.5	3.8	3.8
12.5°	713.9	621.3	478.2	130.3	8.3	2.3	2.3	1.5
15°	745.6	636.4	466.9	89.6	3.0	1.5	0.0	0.0
17.5°	755.4	630.3	436.8	56.5	0.8	0.0	0.0	0.0
20°	747.1	601.0	389.4	33.1	0.0	0.0	0.0	0.0
22.5°	720.0	555.0	332.1	18.1	0.0	0.0	0.0	0.0
25°	669.5	490.3	265.1	8.3	0.0	0.0	0.0	0.0
27.5°	587.4	406.7	199.6	3.0	0.0	0.0	0.0	0.0
30°	494.0	317.1	141.6	0.8	0.0	0.0	0.0	0.0
32.5°	385.6	233.5	91.1	0.0	0.0	0.0	0.0	0.0
35°	289.9	163.4	54.2	0.0	0.0	0.0	0.0	0.0
37.5°	201.8	103.2	28.6	0.0	0.0	0.0	0.0	0.0
40°	125.8	55.7	9.8	0.0	0.0	0.0	0.0	0.0
42.5°	70.0	19.6	0.8	0.0	0.0	0.0	0.0	0.0
45°	16.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.8	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	0.8	0.0	0.0	0.0	0.0
60°	0.0	0.8	0.8	0.8	0.0	0.0	0.0	0.0
62.5°	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0
65°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0
67.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0
70°	0.8	0.8	0.8	1.5	0.8	0.0	0.0	0.0
72.5°	0.8	0.8	1.5	1.5	0.8	0.0	0.0	0.0
75°	0.8	0.8	1.5	1.5	0.8	0.0	0.0	0.0
77.5°	0.8	1.5	1.5	1.5	0.8	0.8	0.0	0.0
80°	0.8	1.5	1.5	1.5	1.5	0.8	0.0	0.0
82.5°	0.8	1.5	1.5	1.5	1.5	0.8	0.0	0.0
85°	0.8	1.5	1.5	1.5	0.8	0.8	0.0	0.0
87.5°	0.8	1.5	1.5	1.5	1.5	0.8	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)