

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: P1312428

Luminaire Tested: LDSQA3D09R459050DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-69)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: PORTFOLIO
Catalog Number: LDSQA3D09R459050DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

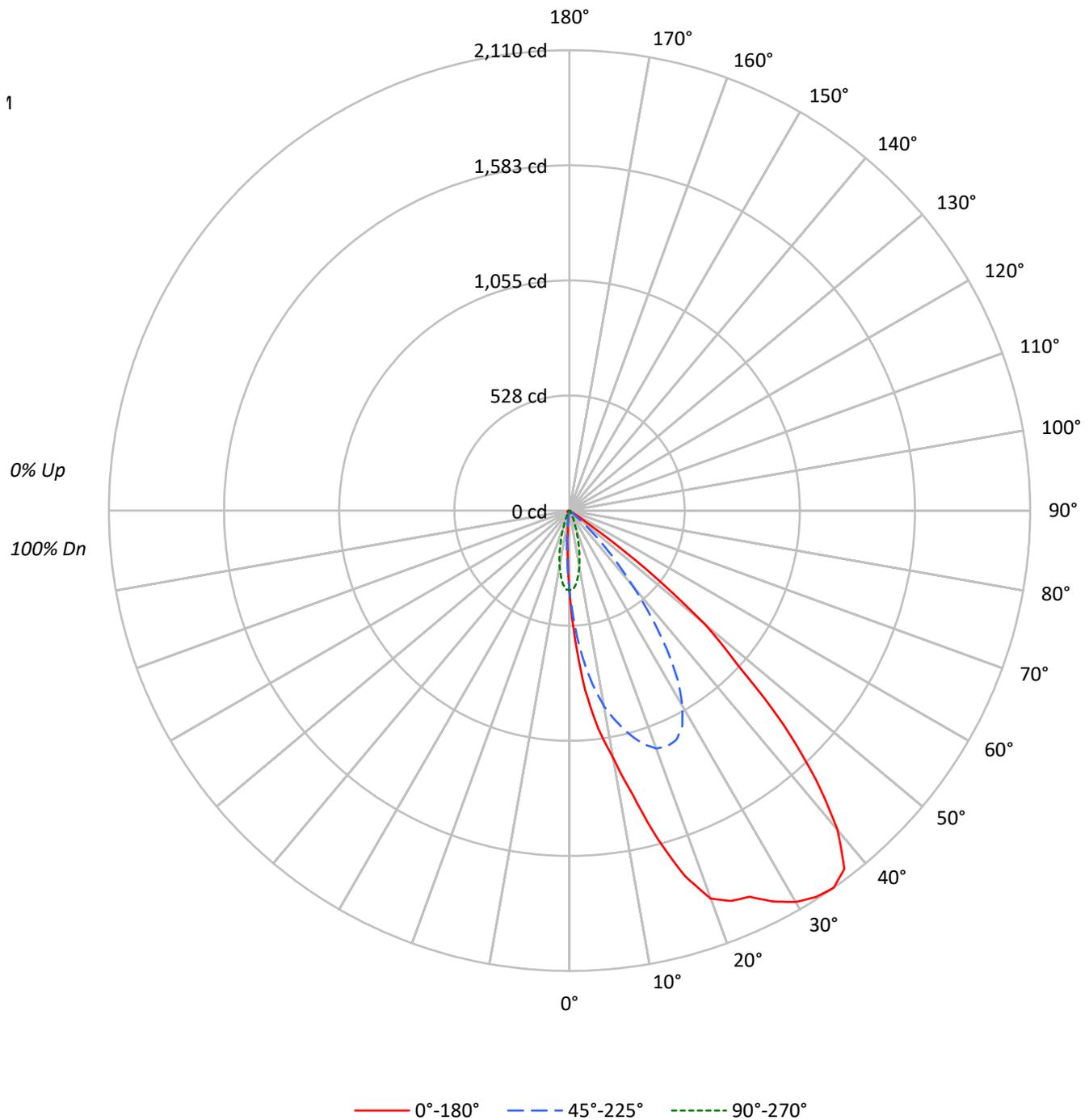
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 956.0 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Spacing Criteria (0/90/45): 2.13 / 0.47 / 1.22
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

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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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91	91	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82	82	82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74	74	74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67	67	67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60	60	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54	54	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49	49	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45	45	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41	41	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37	37	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	62655	62655	62655	62655	62655
5°	142782	115830	58606	23494	16026
10°	201199	159105	45294	5176	2378
15°	277253	189299	28938	1712	1426
20°	346684	212618	15084	1173	1173
25°	371008	220146	6993	912	1064
30°	411791	205587	3182	955	1114
35°	443596	163886	1009	1009	1346
40°	429228	101552	540	1259	1619
45°	337086	47908	585	1559	1948
50°	216569	5573	857	1929	2572
55°	32879	480	961	2402	3123
60°	551	551	1102	2756	3307
65°	652	652	1304	2934	3912
70°	806	806	1611	3223	4431
75°	532	1065	2129	3726	4791
80°	793	1587	2380	3967	5554
85°	0	1581	3162	4742	4742

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 337086 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.8	4.2
10°-20°	143.9	15.1
20°-30°	252.9	26.5
30°-40°	287.2	30.0
40°-50°	185.9	19.4
50°-60°	36.5	3.8
60°-70°	4.4	0.5
70°-80°	3.7	0.4
80°-90°	1.7	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°	436.6	45.7
0°-40°	723.8	75.7
0°-60°	946.2	99.0
0°-90°	956.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	956.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	364	364	364	364	364	
5°	826	670	339	136	93	88
15°	1555	1062	162	10	8	448
25°	1952	1158	37	5	6	915
35°	2110	780	5	5	6	1297
45°	1384	197	2	6	8	1043
55°	110	2	3	8	10	209
65°	2	2	3	7	10	2
75°	1	2	3	6	7	1
85°	0	1	2	2	2	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°	363.8	363.8	363.8	363.8	363.8	363.8	363.8	363.8	363.8	363.8	363.8
2.5°	590.8	589.2	591.6	575.6	574.8	562.9	559.7	546.1	527.7	518.9	498.1
5°	825.9	817.9	817.9	798.7	792.3	778.7	755.5	726.8	702.8	670.0	634.8
7.5°	1007.4	1005.8	1005.8	989.0	973.0	953.8	922.6	889.9	851.5	801.1	749.9
10°	1150.5	1152.9	1145.7	1130.5	1107.3	1086.5	1049.8	1009.8	962.6	909.8	841.9
12.5°	1331.2	1313.6	1308.0	1273.6	1244.0	1204.1	1160.1	1114.5	1056.2	989.8	913.0
15°	1555.0	1532.7	1510.3	1464.7	1415.1	1353.6	1284.8	1217.7	1142.5	1061.7	965.8
17.5°	1754.9	1754.9	1725.3	1653.4	1589.4	1498.3	1405.5	1316.0	1227.2	1120.9	1001.0
20°	1891.6	1884.4	1862.1	1809.3	1736.5	1633.4	1512.7	1387.2	1280.0	1160.1	1021.0
22.5°	1936.4	1934.8	1935.6	1904.4	1846.1	1738.9	1591.0	1443.1	1308.8	1169.7	1011.4
25°	1952.4	1955.6	1963.6	1951.6	1907.6	1800.5	1639.0	1469.5	1317.6	1158.5	974.6
27.5°	2018.8	2012.4	2021.2	2013.2	1963.6	1835.7	1648.6	1463.1	1298.4	1117.7	909.0
30°	2070.7	2069.1	2084.3	2077.1	2012.4	1858.1	1639.8	1439.1	1251.2	1033.8	805.9
32.5°	2100.3	2101.1	2105.1	2075.5	1979.6	1809.3	1596.6	1390.3	1162.5	924.2	671.6
35°	2109.9	2105.1	2082.7	2010.0	1878.8	1696.6	1490.3	1274.4	1041.8	779.5	530.9
37.5°	2068.3	2043.5	1986.0	1877.2	1725.3	1555.0	1354.4	1128.1	876.3	615.6	395.8
40°	1909.2	1876.5	1803.7	1692.6	1551.0	1386.4	1180.9	944.2	679.6	451.7	278.2
42.5°	1671.0	1654.2	1578.2	1481.5	1361.6	1195.3	983.4	743.5	502.9	311.8	177.5
45°	1384.0	1362.4	1314.4	1228.8	1134.5	960.2	762.7	532.5	343.0	196.7	87.9
47.5°	1037.8	1039.4	1006.6	941.8	849.1	703.6	522.1	357.4	215.1	101.5	20.0
50°	808.3	797.1	750.7	684.4	576.4	468.5	337.4	225.5	113.5	20.8	1.6
52.5°	447.7	454.9	430.1	408.5	352.6	279.8	199.1	114.3	24.0	2.4	1.6
55°	109.5	115.9	111.1	113.5	117.5	104.7	80.8	22.4	2.4	1.6	1.6
57.5°	2.4	2.4	2.4	2.4	4.0	5.6	5.6	1.6	1.6	1.6	1.6
60°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
62.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
65°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
67.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
70°	1.6	1.6	1.6	0.8	1.6	1.6	1.6	1.6	1.6	1.6	1.6
72.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6
75°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6
77.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6
80°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6
82.5°	0.0	0.0	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	1.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	363.8	363.8	363.8	363.8	363.8	363.8	363.8	363.8
2.5°	487.7	472.5	444.5	361.4	290.2	234.3	200.7	197.5
5°	603.6	562.9	503.7	339.0	214.3	135.9	98.3	92.7
7.5°	695.6	638.0	546.9	302.2	146.3	69.6	38.4	32.0
10°	771.5	690.0	569.3	259.0	91.9	29.6	16.0	13.6
12.5°	823.5	725.2	573.2	211.1	52.8	14.4	10.4	9.6
15°	857.1	736.3	554.1	162.3	29.6	9.6	8.8	8.0
17.5°	870.7	726.8	517.3	117.5	16.0	7.2	7.2	7.2
20°	864.3	695.6	462.9	82.3	10.4	6.4	6.4	6.4
22.5°	833.9	642.0	395.0	55.2	7.2	5.6	5.6	5.6
25°	773.9	569.3	323.0	36.8	4.8	4.8	5.6	5.6
27.5°	684.4	479.7	247.0	24.8	4.0	4.8	5.6	5.6
30°	571.6	379.8	177.5	16.0	4.0	4.8	4.8	5.6
32.5°	454.1	276.6	116.7	9.6	3.2	4.8	5.6	6.4
35°	329.4	188.7	74.4	4.8	4.0	4.8	5.6	6.4
37.5°	231.1	123.1	43.2	3.2	4.0	4.8	6.4	6.4
40°	150.3	68.8	16.0	2.4	4.0	5.6	6.4	7.2
42.5°	78.4	24.0	3.2	2.4	4.0	5.6	7.2	8.0
45°	20.0	3.2	0.8	2.4	4.8	6.4	8.0	8.0
47.5°	2.4	0.8	0.8	3.2	4.8	7.2	8.0	8.8
50°	0.8	1.6	1.6	3.2	4.8	7.2	8.8	9.6
52.5°	1.6	1.6	1.6	3.2	5.6	7.2	9.6	10.4
55°	1.6	1.6	1.6	3.2	5.6	8.0	9.6	10.4
57.5°	1.6	1.6	1.6	3.2	5.6	8.0	9.6	9.6
60°	1.6	1.6	1.6	3.2	5.6	8.0	9.6	9.6
62.5°	1.6	1.6	2.4	3.2	5.6	7.2	9.6	9.6
65°	1.6	2.4	2.4	3.2	5.6	7.2	8.8	9.6
67.5°	1.6	1.6	2.4	3.2	5.6	7.2	8.8	9.6
70°	1.6	1.6	2.4	3.2	4.8	6.4	8.0	8.8
72.5°	1.6	1.6	2.4	3.2	4.8	6.4	7.2	8.0
75°	1.6	1.6	2.4	3.2	4.0	5.6	7.2	7.2
77.5°	1.6	1.6	2.4	2.4	4.0	4.8	6.4	6.4
80°	1.6	1.6	2.4	2.4	3.2	4.0	4.8	5.6
82.5°	1.6	1.6	1.6	2.4	2.4	3.2	4.0	4.0
85°	1.6	1.6	1.6	1.6	1.6	2.4	2.4	2.4
87.5°	0.8	1.6	1.6	1.6	1.6	1.6	1.6	0.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)