

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: P1312908

Luminaire Tested: LDSQA3D20R509050D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312908
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: LDSQA3D20R509050D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

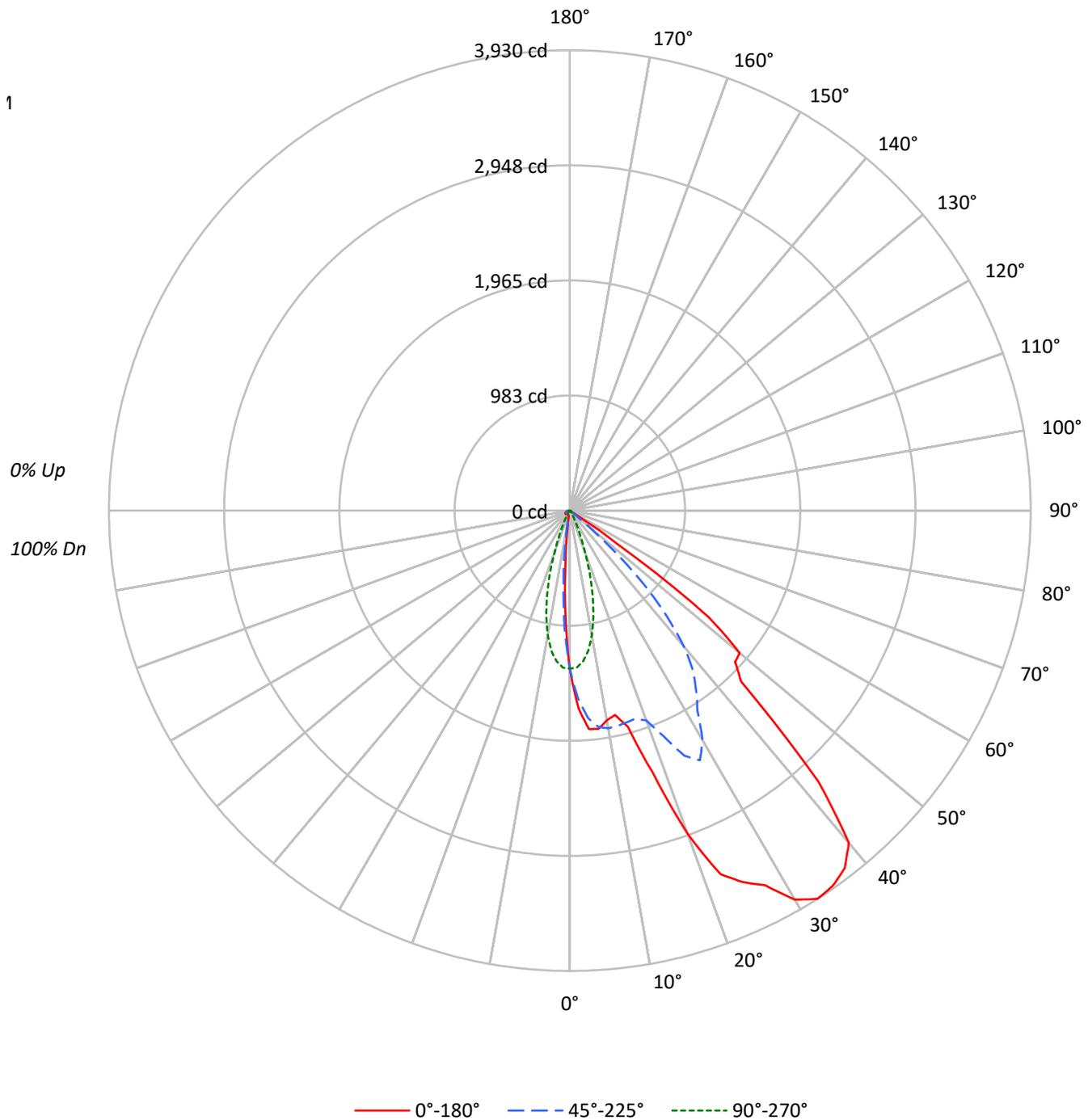
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2097.0 lumens
Efficiency: N/A
Efficacy: 72.8 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): 28.8
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	93	95	94	93	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	51	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	43	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°	232191	232191	232191	232191	232191
5°	323753	307157	223171	107272	69602
10°	317808	330085	188625	22612	9688
15°	340817	333560	133367	7899	7578
20°	538189	349305	70396	6763	7111
25°	665055	438677	28067	6309	7012
30°	762451	449913	11395	6244	7338
35°	822016	394882	5046	6602	8158
40°	832084	340064	3732	7464	9128
45°	502902	220421	3605	8086	10351
50°	506711	38100	3965	9404	11869
55°	149710	2222	4444	10539	13302
60°	2549	2549	4443	11436	14639
65°	2241	2241	4523	12022	15812
70°	2769	2769	4633	13042	17674
75°	2462	2462	4924	13508	18432
80°	1785	3670	5455	12794	20133
85°	3557	7311	7311	14623	18180

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 574411 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.0	5.2
10°-20°	270.7	12.9
20°-30°	507.1	24.2
30°-40°	606.3	28.9
40°-50°	434.5	20.7
50°-60°	133.9	6.4
60°-70°	17.5	0.8
70°-80°	12.7	0.6
80°-90°	5.2	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°	886.8	42.3
0°-40°	1493.2	71.2
0°-60°	2061.6	98.3
0°-90°	2097.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2097.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1348	1348	1348	1348	1348	
5°	1873	1777	1291	620	403	174
15°	1912	1871	748	44	42	612
25°	3500	2308	148	33	37	1613
35°	3910	1878	24	31	39	2426
45°	2065	905	15	33	42	1896
55°	499	7	15	35	44	642
65°	6	6	11	30	39	6
75°	4	4	7	20	28	3
85°	2	4	4	7	9	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°	1348.2	1348.2	1348.2	1348.2	1348.2	1348.2	1348.2	1348.2	1348.2	1348.2	1348.2
2.5°	1686.2	1689.9	1695.4	1680.6	1671.4	1664.0	1651.1	1647.4	1616.0	1603.1	1590.1
5°	1872.7	1869.0	1872.7	1867.2	1863.5	1852.4	1841.3	1822.8	1802.5	1776.7	1747.1
7.5°	1878.2	1874.5	1881.9	1881.9	1889.3	1889.3	1889.3	1891.2	1880.1	1861.6	1835.8
10°	1817.3	1817.3	1824.7	1821.0	1833.9	1839.5	1852.4	1874.5	1885.6	1887.5	1880.1
12.5°	1785.9	1785.9	1787.7	1780.4	1784.0	1789.6	1804.4	1830.2	1856.1	1881.9	1896.7
15°	1911.5	1915.2	1889.3	1852.4	1824.7	1795.1	1785.9	1802.5	1830.2	1870.8	1904.1
17.5°	2338.1	2343.6	2315.9	2227.3	2142.3	2020.4	1911.5	1857.9	1828.4	1861.6	1905.9
20°	2936.5	2916.2	2868.1	2774.0	2650.2	2461.8	2291.9	2120.2	1955.8	1905.9	1920.7
22.5°	3359.4	3352.0	3313.2	3208.0	3100.8	2925.4	2709.3	2469.2	2231.0	2079.5	2000.1
25°	3499.8	3494.2	3459.1	3396.3	3337.2	3204.3	3010.3	2768.4	2519.1	2308.5	2109.1
27.5°	3605.0	3597.6	3542.2	3472.1	3411.1	3276.3	3099.0	2916.2	2687.2	2402.7	2096.2
30°	3834.0	3813.7	3736.2	3610.6	3494.2	3307.7	3111.9	2884.8	2574.5	2262.4	1963.2
32.5°	3930.1	3919.0	3852.5	3750.9	3623.5	3379.7	3082.4	2701.9	2293.8	2024.1	1806.2
35°	3909.8	3893.1	3824.8	3708.5	3553.3	3318.8	2921.7	2399.0	2066.6	1878.2	1632.6
37.5°	3848.8	3824.8	3743.5	3606.9	3418.5	3111.9	2593.0	2153.4	1939.2	1726.8	1396.2
40°	3701.1	3662.3	3568.1	3425.9	3237.5	2834.9	2293.8	2005.7	1806.2	1512.6	1132.1
42.5°	3135.9	3115.6	3161.8	3137.8	2971.6	2496.9	2081.4	1870.8	1595.7	1222.6	820.0
45°	2064.8	2099.9	2183.0	2325.2	2358.4	2147.9	1907.8	1649.2	1313.1	905.0	472.8
47.5°	1911.5	1904.1	1924.4	1952.1	1957.6	1869.0	1651.1	1363.0	975.1	517.1	131.1
50°	1891.2	1880.1	1863.5	1830.2	1760.0	1588.3	1340.8	993.6	563.3	142.2	9.2
52.5°	1494.1	1483.0	1483.0	1435.0	1344.5	1178.3	925.3	546.7	157.0	9.2	7.4
55°	498.6	531.9	526.3	524.5	565.1	520.8	398.9	140.4	12.9	7.4	7.4
57.5°	9.2	9.2	9.2	16.6	25.9	36.9	22.2	11.1	7.4	7.4	7.4
60°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
62.5°	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4	7.4
65°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	7.4
67.5°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
70°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
72.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.5	5.5	5.5
75°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	5.5
77.5°	1.8	1.8	1.8	1.8	3.7	3.7	3.7	3.7	3.7	3.7	3.7
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7	3.7	3.7	3.7
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7	3.7	3.7
85°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.7	3.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	1.8	1.8	1.8	1.8
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°	1348.2	1348.2	1348.2	1348.2	1348.2	1348.2	1348.2	1348.2
2.5°	1560.6	1534.7	1484.9	1342.7	1185.7	1006.5	884.6	869.9
5°	1700.9	1662.2	1580.9	1290.9	932.7	620.5	461.7	402.6
7.5°	1793.3	1741.6	1641.8	1206.0	679.6	326.9	175.4	140.4
10°	1848.7	1800.7	1673.2	1078.6	432.2	129.3	59.1	55.4
12.5°	1878.2	1832.1	1684.3	925.3	243.8	59.1	46.2	46.2
15°	1898.6	1848.7	1667.7	748.0	121.9	44.3	42.5	42.5
17.5°	1907.8	1846.8	1619.7	563.3	64.6	40.6	40.6	40.6
20°	1913.3	1826.5	1531.0	384.1	44.3	36.9	38.8	38.8
22.5°	1918.9	1776.7	1414.7	243.8	35.1	35.1	36.9	36.9
25°	1907.8	1689.9	1250.3	147.7	31.4	33.2	35.1	36.9
27.5°	1828.4	1558.7	1050.9	90.5	27.7	31.4	35.1	36.9
30°	1691.7	1366.7	820.0	57.3	25.9	31.4	35.1	36.9
32.5°	1514.4	1146.9	585.4	35.1	25.9	31.4	35.1	36.9
35°	1276.2	877.2	380.4	24.0	25.9	31.4	36.9	38.8
37.5°	1008.4	613.2	205.0	18.5	25.9	31.4	36.9	38.8
40°	725.8	367.5	73.9	16.6	24.0	33.2	38.8	40.6
42.5°	424.8	136.7	12.9	14.8	24.0	33.2	38.8	40.6
45°	121.9	14.8	7.4	14.8	24.0	33.2	40.6	42.5
47.5°	9.2	5.5	7.4	14.8	24.0	33.2	40.6	44.3
50°	5.5	5.5	5.5	14.8	24.0	35.1	42.5	44.3
52.5°	7.4	7.4	7.4	14.8	24.0	35.1	42.5	44.3
55°	7.4	7.4	7.4	14.8	24.0	35.1	42.5	44.3
57.5°	7.4	7.4	7.4	14.8	24.0	33.2	42.5	44.3
60°	7.4	7.4	7.4	12.9	22.2	33.2	40.6	42.5
62.5°	7.4	7.4	7.4	12.9	22.2	31.4	40.6	40.6
65°	7.4	7.4	7.4	11.1	20.3	29.5	36.9	38.8
67.5°	7.4	7.4	7.4	11.1	18.5	27.7	35.1	36.9
70°	5.5	7.4	7.4	9.2	16.6	25.9	33.2	35.1
72.5°	5.5	5.5	7.4	9.2	14.8	22.2	29.5	31.4
75°	5.5	5.5	5.5	7.4	12.9	20.3	25.9	27.7
77.5°	5.5	5.5	5.5	7.4	11.1	16.6	24.0	24.0
80°	3.7	5.5	5.5	5.5	9.2	12.9	18.5	20.3
82.5°	3.7	3.7	3.7	5.5	7.4	11.1	14.8	14.8
85°	3.7	3.7	3.7	3.7	5.5	7.4	9.2	9.2
87.5°	1.8	3.7	3.7	3.7	3.7	3.7	3.7	3.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)