

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: P1311831

Luminaire Tested: LDSQA3D20R509040D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1311831
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: LDSQA3D20R509040D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

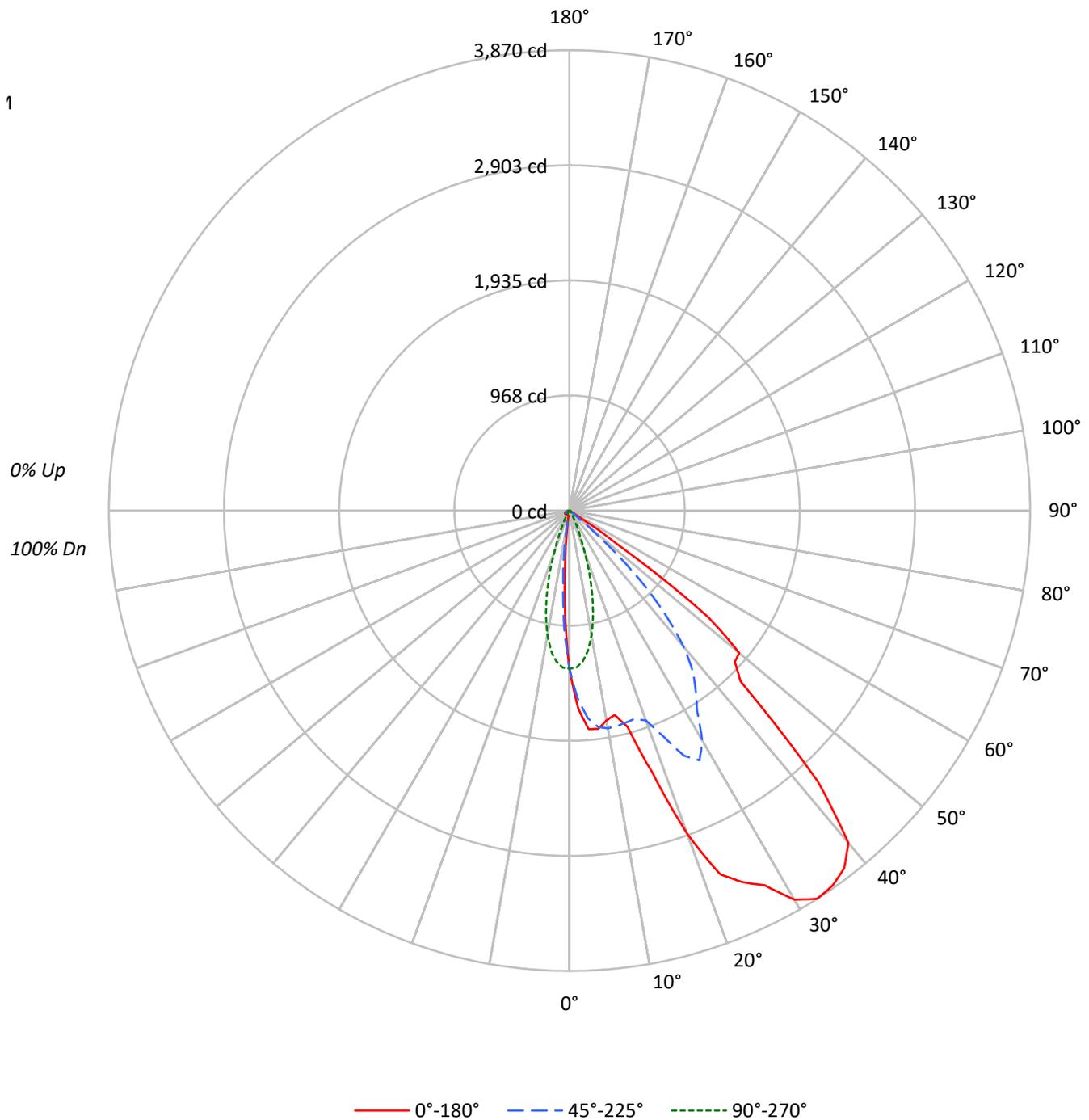
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2065.0 lumens
Efficiency: N/A
Efficacy: 71.7 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 (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	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°	228643	228643	228643	228643	228643
5°	318809	302454	219766	105647	68547
10°	312964	325048	185739	22262	9548
15°	335610	328478	131334	7774	7453
20°	529978	343990	69333	6671	7001
25°	654908	431988	27649	6214	6917
30°	750817	443053	11216	6145	7239
35°	809464	388869	4962	6497	8031
40°	819381	334870	3687	7352	8993
45°	495230	217036	3532	7964	10181
50°	498968	37510	3885	9270	11682
55°	147428	2192	4354	10389	13091
60°	2514	2514	4374	11263	14398
65°	2241	2241	4442	11859	15567
70°	2769	2769	4582	12840	17423
75°	2396	2396	4858	13308	18166
80°	1785	3570	5455	12596	19836
85°	3557	7114	7114	14425	17982

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 565643 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.4	5.2
10°-20°	266.6	12.9
20°-30°	499.4	24.2
30°-40°	597.1	28.9
40°-50°	427.9	20.7
50°-60°	131.9	6.4
60°-70°	17.2	0.8
70°-80°	12.5	0.6
80°-90°	5.1	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°	873.3	42.3
0°-40°	1470.4	71.2
0°-60°	2030.1	98.3
0°-90°	2065.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2065.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1328	1328	1328	1328	1328	
5°	1844	1750	1271	611	396	171
15°	1882	1842	737	44	42	603
25°	3446	2273	146	33	36	1588
35°	3850	1850	24	31	38	2389
45°	2033	891	14	33	42	1867
55°	491	7	14	35	44	632
65°	6	6	11	29	38	6
75°	4	4	7	20	27	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°	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6
2.5°	1660.4	1664.1	1669.5	1655.0	1645.9	1638.6	1625.9	1622.2	1591.3	1578.6	1565.9
5°	1844.1	1840.5	1844.1	1838.7	1835.0	1824.1	1813.2	1795.0	1775.0	1749.5	1720.4
7.5°	1849.6	1845.9	1853.2	1853.2	1860.5	1860.5	1860.5	1862.3	1851.4	1833.2	1807.7
10°	1789.6	1789.6	1796.8	1793.2	1805.9	1811.4	1824.1	1845.9	1856.8	1858.7	1851.4
12.5°	1758.6	1758.6	1760.5	1753.2	1756.8	1762.3	1776.8	1802.3	1827.7	1853.2	1867.8
15°	1882.3	1885.9	1860.5	1824.1	1796.8	1767.7	1758.6	1775.0	1802.3	1842.3	1875.0
17.5°	2302.4	2307.9	2280.6	2193.3	2109.6	1989.6	1882.3	1829.6	1800.5	1833.2	1876.9
20°	2891.7	2871.7	2824.4	2731.6	2609.8	2424.3	2257.0	2087.8	1926.0	1876.9	1891.4
22.5°	3308.1	3300.9	3262.7	3159.0	3053.5	2880.8	2668.0	2431.5	2196.9	2047.8	1969.6
25°	3446.4	3440.9	3406.3	3344.5	3286.3	3155.4	2964.4	2726.2	2480.6	2273.3	2076.9
27.5°	3550.0	3542.7	3488.2	3419.1	3359.1	3226.3	3051.7	2871.7	2646.1	2366.1	2064.2
30°	3775.5	3755.5	3679.1	3555.5	3440.9	3257.2	3064.4	2840.7	2535.2	2227.9	1933.2
32.5°	3870.1	3859.2	3793.7	3693.7	3568.2	3328.1	3035.3	2660.7	2258.8	1993.2	1778.6
35°	3850.1	3833.7	3766.4	3651.9	3499.1	3268.1	2877.1	2362.4	2035.1	1849.6	1607.7
37.5°	3790.1	3766.4	3686.4	3551.8	3366.3	3064.4	2553.4	2120.6	1909.6	1700.4	1374.9
40°	3644.6	3606.4	3513.6	3373.6	3188.1	2791.6	2258.8	1975.1	1778.6	1489.5	1114.8
42.5°	3088.1	3068.1	3113.5	3089.9	2926.2	2458.8	2049.6	1842.3	1571.3	1204.0	807.5
45°	2033.3	2067.8	2149.7	2289.7	2322.4	2115.1	1878.7	1624.1	1293.1	891.1	465.6
47.5°	1882.3	1875.0	1895.0	1922.3	1927.8	1840.5	1625.9	1342.2	960.3	509.2	129.1
50°	1862.3	1851.4	1835.0	1802.3	1733.2	1564.0	1320.3	978.4	554.7	140.0	9.1
52.5°	1471.3	1460.4	1460.4	1413.1	1324.0	1160.3	911.1	538.3	154.6	9.1	7.3
55°	491.0	523.8	518.3	516.5	556.5	512.9	392.8	138.2	12.7	7.3	7.3
57.5°	9.1	9.1	9.1	16.4	25.5	36.4	21.8	10.9	7.3	7.3	7.3
60°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
62.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
65°	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5	7.3
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°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	5.5	5.5	5.5
75°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	5.5
77.5°	1.8	1.8	1.8	1.8	3.6	3.6	3.6	3.6	3.6	3.6	3.6
80°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6	3.6	3.6	3.6
82.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6	3.6	3.6
85°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	3.6	3.6
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°	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6	1327.6
2.5°	1536.8	1511.3	1462.2	1322.2	1167.6	991.2	871.1	856.6
5°	1675.0	1636.8	1556.8	1271.2	918.4	611.1	454.7	396.5
7.5°	1765.9	1715.0	1616.8	1187.6	669.3	321.9	172.8	138.2
10°	1820.5	1773.2	1647.7	1062.1	425.6	127.3	58.2	54.6
12.5°	1849.6	1804.1	1658.6	911.1	240.1	58.2	45.5	45.5
15°	1869.6	1820.5	1642.2	736.6	120.0	43.6	41.8	41.8
17.5°	1878.7	1818.7	1595.0	554.7	63.7	40.0	40.0	40.0
20°	1884.1	1798.7	1507.7	378.3	43.6	36.4	38.2	38.2
22.5°	1889.6	1749.5	1393.1	240.1	34.6	34.6	36.4	36.4
25°	1878.7	1664.1	1231.2	145.5	30.9	32.7	34.6	36.4
27.5°	1800.5	1534.9	1034.8	89.1	27.3	30.9	34.6	36.4
30°	1665.9	1345.8	807.5	56.4	25.5	30.9	34.6	36.4
32.5°	1491.3	1129.4	576.5	34.6	25.5	30.9	34.6	36.4
35°	1256.7	863.9	374.6	23.6	25.5	30.9	36.4	38.2
37.5°	993.0	603.8	201.9	18.2	25.5	30.9	36.4	38.2
40°	714.7	361.9	72.7	16.4	23.6	32.7	38.2	40.0
42.5°	418.3	134.6	12.7	14.5	23.6	32.7	38.2	40.0
45°	120.0	14.5	7.3	14.5	23.6	32.7	40.0	41.8
47.5°	9.1	5.5	7.3	14.5	23.6	32.7	40.0	43.6
50°	5.5	5.5	5.5	14.5	23.6	34.6	41.8	43.6
52.5°	7.3	7.3	7.3	14.5	23.6	34.6	41.8	43.6
55°	7.3	7.3	7.3	14.5	23.6	34.6	41.8	43.6
57.5°	7.3	7.3	7.3	14.5	23.6	32.7	41.8	43.6
60°	7.3	7.3	7.3	12.7	21.8	32.7	40.0	41.8
62.5°	7.3	7.3	7.3	12.7	21.8	30.9	40.0	40.0
65°	7.3	7.3	7.3	10.9	20.0	29.1	36.4	38.2
67.5°	7.3	7.3	7.3	10.9	18.2	27.3	34.6	36.4
70°	5.5	7.3	7.3	9.1	16.4	25.5	32.7	34.6
72.5°	5.5	5.5	7.3	9.1	14.5	21.8	29.1	30.9
75°	5.5	5.5	5.5	7.3	12.7	20.0	25.5	27.3
77.5°	5.5	5.5	5.5	7.3	10.9	16.4	23.6	23.6
80°	3.6	5.5	5.5	5.5	9.1	12.7	18.2	20.0
82.5°	3.6	3.6	3.6	5.5	7.3	10.9	14.5	14.5
85°	3.6	3.6	3.6	3.6	5.5	7.3	9.1	9.1
87.5°	1.8	3.6	3.6	3.6	3.6	3.6	3.6	3.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)