

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: P1320446

Luminaire Tested: LDSQA3D20R509840D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1320446
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: LDSQA3D20R509840D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R50 optic, 4000K CCT AND, 98CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

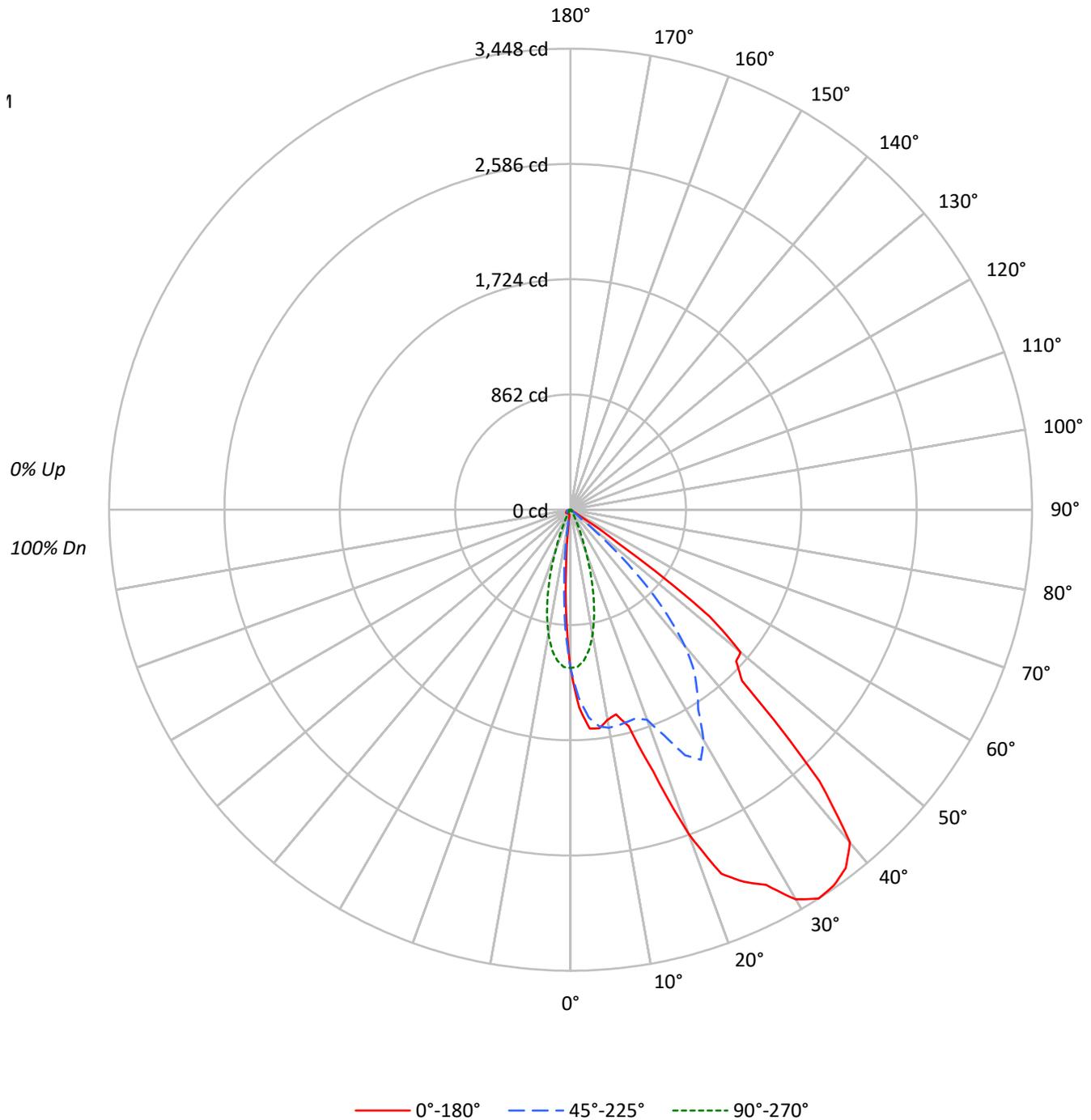
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1840.0 lumens
Efficiency: N/A
Efficacy: 67.2 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): 27.4
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	50	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°	203739	203739	203739	203739	203739
5°	284077	269503	195822	94133	61079
10°	278863	289618	165506	19831	8499
15°	299041	292694	117017	6936	6651
20°	472228	306510	61782	5938	6231
25°	583534	384918	24627	5549	6157
30°	669024	394768	9983	5469	6443
35°	721267	346484	4436	5782	7148
40°	730105	298382	3282	6565	8026
45°	441257	193386	3166	7112	9085
50°	444604	33438	3483	8252	10423
55°	131364	1952	3903	9248	11680
60°	2239	2239	3892	10058	12848
65°	1997	1997	3953	10555	13855
70°	2467	2467	4079	11430	15509
75°	2129	2129	4325	11844	16170
80°	1587	3174	4860	11207	17654
85°	3162	6323	6323	12844	16006

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 504022 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.7	5.2
10°-20°	237.5	12.9
20°-30°	445.0	24.2
30°-40°	532.0	28.9
40°-50°	381.3	20.7
50°-60°	117.5	6.4
60°-70°	15.4	0.8
70°-80°	11.2	0.6
80°-90°	4.5	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°	778.2	42.3
0°-40°	1310.2	71.2
0°-60°	1809.0	98.3
0°-90°	1840.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1840.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1183	1183	1183	1183	1183	
5°	1643	1559	1133	544	353	153
15°	1677	1642	656	39	37	537
25°	3071	2026	130	29	32	1415
35°	3431	1648	21	28	34	2128
45°	1812	794	13	29	37	1664
55°	438	6	13	31	39	563
65°	5	5	10	26	34	5
75°	3	3	6	18	24	3
85°	2	3	3	6	8	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°	1183.0	1183.0	1183.0	1183.0	1183.0	1183.0	1183.0	1183.0	1183.0	1183.0	1183.0
2.5°	1479.5	1482.8	1487.6	1474.7	1466.6	1460.1	1448.7	1445.5	1417.9	1406.6	1395.2
5°	1643.2	1639.9	1643.2	1638.3	1635.1	1625.4	1615.6	1599.4	1581.6	1558.9	1533.0
7.5°	1648.0	1644.8	1651.3	1651.3	1657.8	1657.8	1657.8	1659.4	1649.7	1633.5	1610.8
10°	1594.6	1594.6	1601.1	1597.8	1609.2	1614.0	1625.4	1644.8	1654.5	1656.1	1649.7
12.5°	1567.0	1567.0	1568.6	1562.2	1565.4	1570.3	1583.2	1605.9	1628.6	1651.3	1664.3
15°	1677.2	1680.5	1657.8	1625.4	1601.1	1575.1	1567.0	1581.6	1605.9	1641.6	1670.7
17.5°	2051.6	2056.4	2032.1	1954.3	1879.8	1772.8	1677.2	1630.2	1604.3	1633.5	1672.4
20°	2576.6	2558.8	2516.6	2434.0	2325.4	2160.1	2011.0	1860.3	1716.1	1672.4	1685.3
22.5°	2947.7	2941.2	2907.2	2814.8	2720.8	2566.9	2377.3	2166.6	1957.6	1824.7	1755.0
25°	3070.8	3066.0	3035.2	2980.1	2928.2	2811.6	2641.4	2429.1	2210.4	2025.6	1850.6
27.5°	3163.2	3156.7	3108.1	3046.5	2993.1	2874.8	2719.2	2558.8	2357.8	2108.3	1839.3
30°	3364.2	3346.3	3278.3	3168.1	3066.0	2902.3	2730.5	2531.2	2259.0	1985.1	1722.6
32.5°	3448.4	3438.7	3380.4	3291.2	3179.4	2965.5	2704.6	2370.8	2012.7	1776.1	1584.8
35°	3430.6	3416.0	3356.1	3254.0	3117.8	2912.0	2563.6	2105.0	1813.3	1648.0	1432.5
37.5°	3377.1	3356.1	3284.7	3164.8	2999.5	2730.5	2275.2	1889.5	1701.5	1515.2	1225.1
40°	3247.5	3213.4	3130.8	3006.0	2840.7	2487.5	2012.7	1759.9	1584.8	1327.2	993.4
42.5°	2751.6	2733.8	2774.3	2753.2	2607.4	2190.9	1826.3	1641.6	1400.1	1072.8	719.5
45°	1811.7	1842.5	1915.4	2040.2	2069.4	1884.6	1674.0	1447.1	1152.2	794.0	414.8
47.5°	1677.2	1670.7	1688.6	1712.9	1717.7	1639.9	1448.7	1195.9	855.6	453.7	115.1
50°	1659.4	1649.7	1635.1	1605.9	1544.3	1393.6	1176.5	871.8	494.3	124.8	8.1
52.5°	1311.0	1301.3	1301.3	1259.1	1179.7	1033.9	811.9	479.7	137.7	8.1	6.5
55°	437.5	466.7	461.8	460.2	495.9	457.0	350.0	123.2	11.3	6.5	6.5
57.5°	8.1	8.1	8.1	14.6	22.7	32.4	19.4	9.7	6.5	6.5	6.5
60°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
62.5°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5	6.5
65°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.5
67.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
70°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
72.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.9	4.9	4.9
75°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.9
77.5°	1.6	1.6	1.6	1.6	3.2	3.2	3.2	3.2	3.2	3.2	3.2
80°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	3.2	3.2
82.5°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2	3.2
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	3.2	3.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6
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°	1183.0	1183.0	1183.0	1183.0	1183.0	1183.0	1183.0	1183.0
2.5°	1369.3	1346.6	1302.9	1178.1	1040.4	883.2	776.2	763.3
5°	1492.5	1458.4	1387.1	1132.7	818.4	544.5	405.1	353.3
7.5°	1573.5	1528.1	1440.6	1058.2	596.3	286.8	153.9	123.2
10°	1622.1	1580.0	1468.2	946.4	379.2	113.4	51.9	48.6
12.5°	1648.0	1607.5	1477.9	811.9	213.9	51.9	40.5	40.5
15°	1665.9	1622.1	1463.3	656.3	107.0	38.9	37.3	37.3
17.5°	1674.0	1620.5	1421.2	494.3	56.7	35.7	35.7	35.7
20°	1678.8	1602.7	1343.4	337.1	38.9	32.4	34.0	34.0
22.5°	1683.7	1558.9	1241.3	213.9	30.8	30.8	32.4	32.4
25°	1674.0	1482.8	1097.1	129.6	27.5	29.2	30.8	32.4
27.5°	1604.3	1367.7	922.1	79.4	24.3	27.5	30.8	32.4
30°	1484.4	1199.2	719.5	50.2	22.7	27.5	30.8	32.4
32.5°	1328.8	1006.3	513.7	30.8	22.7	27.5	30.8	32.4
35°	1119.8	769.7	333.8	21.1	22.7	27.5	32.4	34.0
37.5°	884.8	538.0	179.9	16.2	22.7	27.5	32.4	34.0
40°	636.9	322.5	64.8	14.6	21.1	29.2	34.0	35.7
42.5°	372.7	119.9	11.3	13.0	21.1	29.2	34.0	35.7
45°	107.0	13.0	6.5	13.0	21.1	29.2	35.7	37.3
47.5°	8.1	4.9	6.5	13.0	21.1	29.2	35.7	38.9
50°	4.9	4.9	4.9	13.0	21.1	30.8	37.3	38.9
52.5°	6.5	6.5	6.5	13.0	21.1	30.8	37.3	38.9
55°	6.5	6.5	6.5	13.0	21.1	30.8	37.3	38.9
57.5°	6.5	6.5	6.5	13.0	21.1	29.2	37.3	38.9
60°	6.5	6.5	6.5	11.3	19.4	29.2	35.7	37.3
62.5°	6.5	6.5	6.5	11.3	19.4	27.5	35.7	35.7
65°	6.5	6.5	6.5	9.7	17.8	25.9	32.4	34.0
67.5°	6.5	6.5	6.5	9.7	16.2	24.3	30.8	32.4
70°	4.9	6.5	6.5	8.1	14.6	22.7	29.2	30.8
72.5°	4.9	4.9	6.5	8.1	13.0	19.4	25.9	27.5
75°	4.9	4.9	4.9	6.5	11.3	17.8	22.7	24.3
77.5°	4.9	4.9	4.9	6.5	9.7	14.6	21.1	21.1
80°	3.2	4.9	4.9	4.9	8.1	11.3	16.2	17.8
82.5°	3.2	3.2	3.2	4.9	6.5	9.7	13.0	13.0
85°	3.2	3.2	3.2	3.2	4.9	6.5	8.1	8.1
87.5°	1.6	3.2	3.2	3.2	3.2	3.2	3.2	3.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)