

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: P1312753

Luminaire Tested: LDSQA3D17R459050DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1312753
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: LDSQA3D17R459050DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 5000K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

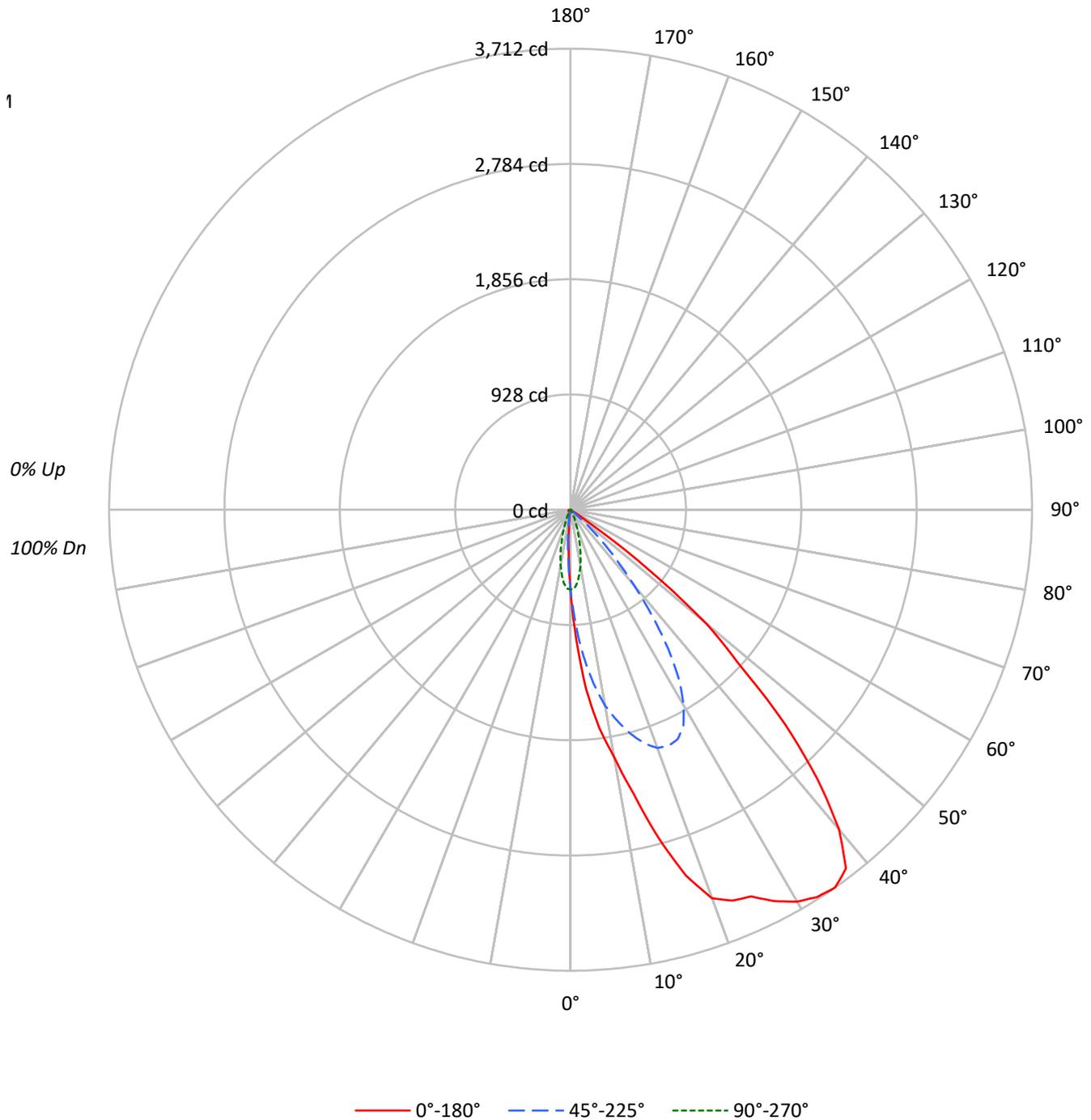
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1682.0 lumens
Efficiency: N/A
Efficacy: 79.3 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): 21.2
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	104	110	107	104	102	103	101	99	99	97	96	96	94	93	96	94	93	91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	89	86	84	82
3	99	91	85	80	96	89	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	64	73	67	63	71	66	62	70	65	62	70	65	62	60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	64	60	56	54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	60	55	51	49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	55	50	46	45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	51	46	42	41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	48	43	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	110222	110222	110222	110222	110222
5°	251213	203792	103106	41336	28214
10°	353991	279947	79710	9094	4180
15°	487823	333078	50922	3013	2514
20°	609978	374084	26557	2071	2071
25°	652761	387331	12295	1596	1862
30°	724527	361697	5588	1670	1949
35°	780472	288351	1766	1766	2376
40°	755195	178687	944	2203	2855
45°	593043	84272	1023	2752	3434
50°	381024	9806	1500	3403	4528
55°	57860	841	1681	4234	5495
60°	964	964	1929	4857	5821
65°	1141	1141	2282	5175	6887
70°	1410	1410	2820	5690	7805
75°	932	1863	3726	6521	8451
80°	1389	2777	4166	6943	9720
85°	0	2766	5533	8299	8299

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 593043 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.0	4.2
10°-20°	253.2	15.1
20°-30°	444.9	26.5
30°-40°	505.2	30.0
40°-50°	327.1	19.4
50°-60°	64.2	3.8
60°-70°	7.8	0.5
70°-80°	6.5	0.4
80°-90°	2.9	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°	768.2	45.7
0°-40°	1273.4	75.7
0°-60°	1664.8	99.0
0°-90°	1682.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1682.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	640	640	640	640	640	
5°	1453	1179	596	239	163	155
15°	2736	1868	286	17	14	788
25°	3435	2038	65	8	10	1610
35°	3712	1372	8	8	11	2282
45°	2435	346	4	11	14	1835
55°	193	3	6	14	18	368
65°	3	3	6	13	17	3
75°	1	3	6	10	13	2
85°	0	1	3	4	4	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°	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0
2.5°	1039.5	1036.7	1040.9	1012.8	1011.4	990.3	984.7	960.8	928.4	912.9	876.4
5°	1453.1	1439.0	1439.0	1405.3	1394.0	1370.1	1329.3	1278.7	1236.5	1178.8	1116.9
7.5°	1772.4	1769.6	1769.6	1740.1	1711.9	1678.2	1623.3	1565.6	1498.1	1409.5	1319.5
10°	2024.2	2028.4	2015.8	1989.0	1948.2	1911.7	1847.0	1776.6	1693.6	1600.8	1481.2
12.5°	2342.1	2311.2	2301.3	2240.8	2188.8	2118.4	2041.1	1960.9	1858.2	1741.5	1606.4
15°	2736.0	2696.6	2657.2	2577.0	2489.8	2381.5	2260.5	2142.4	2010.1	1868.1	1699.3
17.5°	3087.6	3087.6	3035.6	2909.0	2796.5	2636.1	2472.9	2315.4	2159.2	1972.2	1761.2
20°	3328.2	3315.5	3276.1	3183.3	3055.3	2873.8	2661.4	2440.6	2252.1	2041.1	1796.3
22.5°	3407.0	3404.1	3405.5	3350.7	3248.0	3059.5	2799.3	2539.0	2302.7	2058.0	1779.4
25°	3435.1	3440.7	3454.8	3433.7	3356.3	3167.8	2883.7	2585.5	2318.2	2038.3	1714.7
27.5°	3551.8	3540.6	3556.1	3542.0	3454.8	3229.7	2900.6	2574.2	2284.4	1966.5	1599.4
30°	3643.3	3640.5	3667.2	3654.5	3540.6	3269.1	2885.1	2532.0	2201.4	1818.8	1417.9
32.5°	3695.3	3696.7	3703.8	3651.7	3482.9	3183.3	2809.1	2446.2	2045.3	1626.1	1181.6
35°	3712.2	3703.8	3664.4	3536.4	3305.7	2985.0	2622.0	2242.2	1832.9	1371.5	934.0
37.5°	3639.1	3595.4	3494.2	3302.9	3035.6	2736.0	2382.9	1984.8	1541.7	1083.1	696.3
40°	3359.1	3301.5	3173.4	2977.9	2728.9	2439.2	2077.7	1661.3	1195.7	794.8	489.5
42.5°	2939.9	2910.4	2776.8	2606.6	2395.6	2103.0	1730.2	1308.2	884.8	548.6	312.3
45°	2434.9	2397.0	2312.6	2162.1	1996.1	1689.4	1342.0	936.8	603.5	346.0	154.7
47.5°	1825.9	1828.7	1771.0	1657.1	1493.9	1237.9	918.6	628.8	378.4	178.6	35.2
50°	1422.1	1402.4	1320.9	1204.1	1014.2	824.3	593.6	396.7	199.7	36.6	2.8
52.5°	787.7	800.4	756.8	718.8	620.3	492.3	350.3	201.2	42.2	4.2	2.8
55°	192.7	204.0	195.5	199.7	206.8	184.3	142.1	39.4	4.2	2.8	2.8
57.5°	4.2	4.2	4.2	4.2	7.0	9.8	9.8	2.8	2.8	2.8	2.8
60°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
62.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
65°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
67.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
70°	2.8	2.8	2.8	1.4	2.8	2.8	2.8	2.8	2.8	2.8	2.8
72.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8
75°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8	2.8
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	2.8	2.8
82.5°	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4	1.4	2.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4	1.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	1.4	1.4	1.4
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°	640.0	640.0	640.0	640.0	640.0	640.0	640.0	640.0
2.5°	858.1	831.3	782.1	635.8	510.6	412.2	353.1	347.4
5°	1062.0	990.3	886.2	596.4	377.0	239.1	173.0	163.2
7.5°	1223.8	1122.5	962.2	531.7	257.4	122.4	67.5	56.3
10°	1357.4	1214.0	1001.5	455.8	161.8	52.0	28.1	23.9
12.5°	1448.9	1275.8	1008.6	371.4	92.8	25.3	18.3	16.9
15°	1507.9	1295.5	974.8	285.6	52.0	16.9	15.5	14.1
17.5°	1531.9	1278.7	910.1	206.8	28.1	12.7	12.7	12.7
20°	1520.6	1223.8	814.5	144.9	18.3	11.3	11.3	11.3
22.5°	1467.2	1129.6	694.9	97.1	12.7	9.8	9.8	9.8
25°	1361.7	1001.5	568.3	64.7	8.4	8.4	9.8	9.8
27.5°	1204.1	844.0	434.7	43.6	7.0	8.4	9.8	9.8
30°	1005.8	668.2	312.3	28.1	7.0	8.4	8.4	9.8
32.5°	799.0	486.7	205.4	16.9	5.6	8.4	9.8	11.3
35°	579.5	332.0	130.8	8.4	7.0	8.4	9.8	11.3
37.5°	406.5	216.6	76.0	5.6	7.0	8.4	11.3	11.3
40°	264.5	121.0	28.1	4.2	7.0	9.8	11.3	12.7
42.5°	137.9	42.2	5.6	4.2	7.0	9.8	12.7	14.1
45°	35.2	5.6	1.4	4.2	8.4	11.3	14.1	14.1
47.5°	4.2	1.4	1.4	5.6	8.4	12.7	14.1	15.5
50°	1.4	2.8	2.8	5.6	8.4	12.7	15.5	16.9
52.5°	2.8	2.8	2.8	5.6	9.8	12.7	16.9	18.3
55°	2.8	2.8	2.8	5.6	9.8	14.1	16.9	18.3
57.5°	2.8	2.8	2.8	5.6	9.8	14.1	16.9	16.9
60°	2.8	2.8	2.8	5.6	9.8	14.1	16.9	16.9
62.5°	2.8	2.8	4.2	5.6	9.8	12.7	16.9	16.9
65°	2.8	4.2	4.2	5.6	9.8	12.7	15.5	16.9
67.5°	2.8	2.8	4.2	5.6	9.8	12.7	15.5	16.9
70°	2.8	2.8	4.2	5.6	8.4	11.3	14.1	15.5
72.5°	2.8	2.8	4.2	5.6	8.4	11.3	12.7	14.1
75°	2.8	2.8	4.2	5.6	7.0	9.8	12.7	12.7
77.5°	2.8	2.8	4.2	4.2	7.0	8.4	11.3	11.3
80°	2.8	2.8	4.2	4.2	5.6	7.0	8.4	9.8
82.5°	2.8	2.8	2.8	4.2	4.2	5.6	7.0	7.0
85°	2.8	2.8	2.8	2.8	2.8	4.2	4.2	4.2
87.5°	1.4	2.8	2.8	2.8	2.8	2.8	2.8	1.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)