

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: P1310558

Luminaire Tested: LDSQA3D17R459035DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1310558
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: LDSQA3D17R459035DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 3500K CCT AND, 90CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

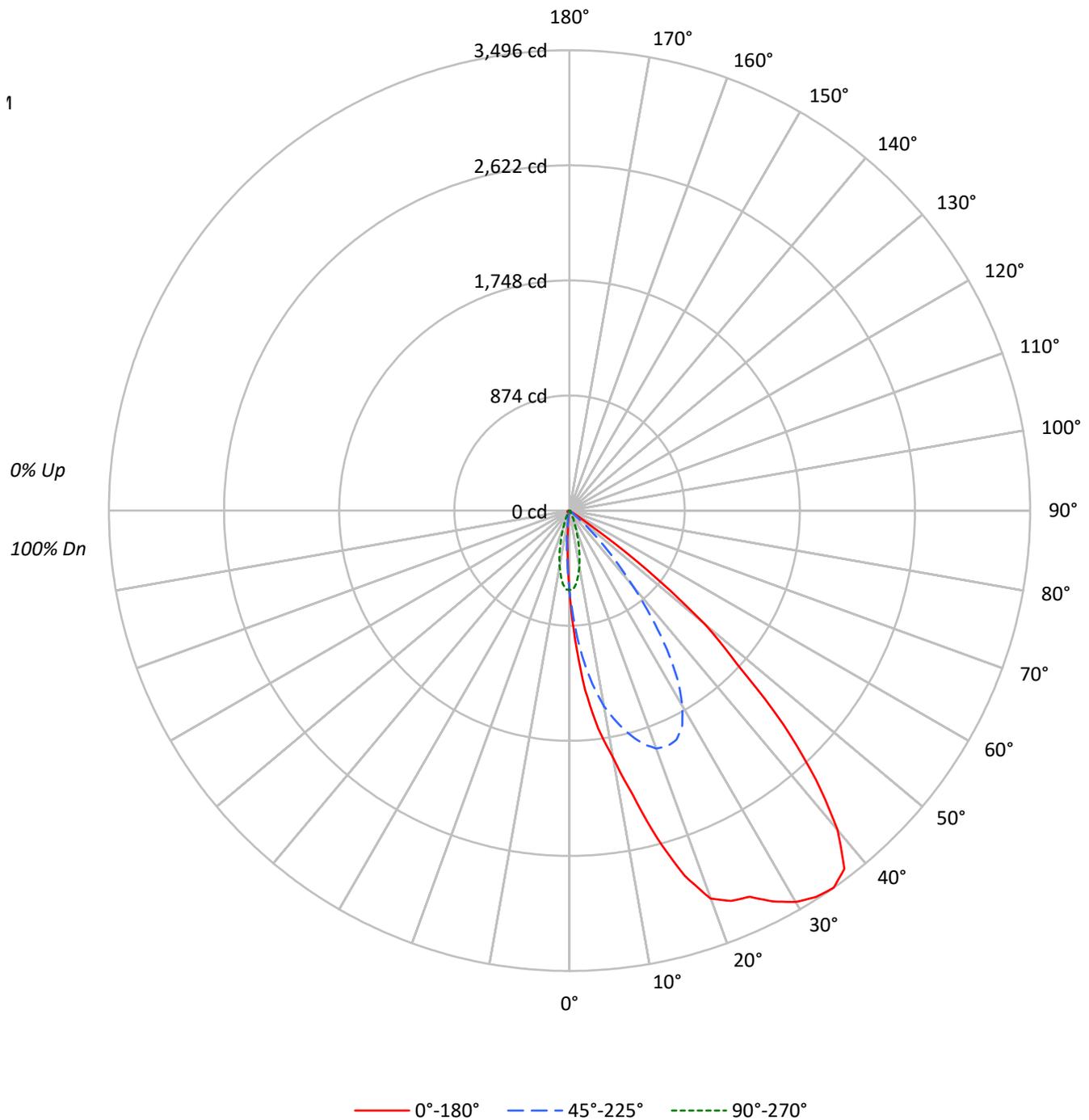
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1583.9 lumens
Efficiency: N/A
Efficacy: 74.7 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	100			100
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91			91
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82			82
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74			74
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67			67
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60			60
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54			54
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49			49
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45			45
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41			41
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37			37

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	103799	103799	103799	103799	103799
5°	236570	191915	97107	38933	26572
10°	333373	263631	75058	8569	3935
15°	459403	313662	47944	2835	2354
20°	574440	352292	24999	1943	1943
25°	614717	364756	11573	1501	1767
30°	682308	340637	5270	1571	1849
35°	734996	271552	1661	1661	2229
40°	711198	168278	899	2091	2675
45°	558507	79376	974	2582	3215
50°	358840	9217	1420	3188	4260
55°	54497	781	1591	3963	5164
60°	896	896	1826	4547	5477
65°	1060	1060	2160	4849	6479
70°	1309	1309	2669	5338	7352
75°	865	1730	3527	6188	7918
80°	1289	2579	3967	6546	9224
85°	0	2569	5138	7904	7904

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 558507 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.0	4.2
10°-20°	238.5	15.1
20°-30°	419.0	26.5
30°-40°	475.8	30.0
40°-50°	308.1	19.4
50°-60°	60.5	3.8
60°-70°	7.3	0.5
70°-80°	6.1	0.4
80°-90°	2.8	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°	723.4	45.7
0°-40°	1199.2	75.7
0°-60°	1567.7	99.0
0°-90°	1583.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1583.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	603	603	603	603	603	
5°	1368	1110	562	225	154	146
15°	2577	1759	269	16	13	742
25°	3235	1920	61	8	9	1516
35°	3496	1292	8	8	11	2149
45°	2293	326	4	11	13	1728
55°	182	3	5	13	17	346
65°	3	3	5	12	16	3
75°	1	3	5	9	12	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°	602.7	602.7	602.7	602.7	602.7	602.7	602.7	602.7	602.7	602.7	602.7
2.5°	979.0	976.3	980.3	953.8	952.5	932.6	927.3	904.8	874.3	859.7	825.3
5°	1368.4	1355.2	1355.2	1323.4	1312.8	1290.3	1251.9	1204.2	1164.4	1110.1	1051.8
7.5°	1669.1	1666.5	1666.5	1638.7	1612.2	1580.4	1528.7	1474.4	1410.8	1327.4	1242.6
10°	1906.3	1910.2	1898.3	1873.1	1834.7	1800.3	1739.3	1673.1	1595.0	1507.5	1394.9
12.5°	2205.6	2176.5	2167.2	2110.3	2061.3	1995.0	1922.2	1846.6	1749.9	1640.0	1512.8
15°	2576.6	2539.5	2502.4	2426.9	2344.7	2242.7	2128.8	2017.5	1893.0	1759.2	1600.3
17.5°	2907.7	2907.7	2858.7	2739.5	2633.5	2482.5	2328.8	2180.5	2033.4	1857.2	1658.5
20°	3134.3	3122.3	3085.3	2997.8	2877.3	2706.4	2506.4	2298.4	2120.9	1922.2	1691.7
22.5°	3208.5	3205.8	3207.1	3155.5	3058.8	2881.2	2636.2	2391.1	2168.6	1938.1	1675.8
25°	3234.9	3240.2	3253.5	3233.6	3160.8	2983.3	2715.7	2434.8	2183.1	1919.5	1614.8
27.5°	3344.9	3334.3	3348.9	3335.6	3253.5	3041.5	2731.6	2424.2	2151.3	1851.9	1506.2
30°	3431.0	3428.4	3453.5	3441.6	3334.3	3078.6	2717.0	2384.5	2073.2	1712.9	1335.3
32.5°	3480.0	3481.3	3488.0	3439.0	3280.0	2997.8	2645.4	2303.7	1926.1	1531.4	1112.8
35°	3495.9	3488.0	3450.9	3330.3	3113.1	2811.0	2469.3	2111.6	1726.1	1291.6	879.6
37.5°	3427.0	3386.0	3290.6	3110.4	2858.7	2576.6	2244.1	1869.2	1451.9	1020.0	655.7
40°	3163.4	3109.1	2988.5	2804.4	2569.9	2297.0	1956.6	1564.5	1126.0	748.5	461.0
42.5°	2768.6	2740.8	2615.0	2454.7	2256.0	1980.4	1629.4	1232.0	833.2	516.6	294.1
45°	2293.1	2257.3	2177.8	2036.1	1879.8	1591.0	1263.8	882.3	568.3	325.9	145.7
47.5°	1719.5	1722.1	1667.8	1560.5	1406.8	1165.7	865.0	592.1	356.3	168.2	33.1
50°	1339.3	1320.7	1243.9	1134.0	955.1	776.3	559.0	373.6	188.1	34.4	2.6
52.5°	741.8	753.8	712.7	676.9	584.2	463.6	329.9	189.4	39.7	4.0	2.6
55°	181.5	192.1	184.1	188.1	194.7	173.5	133.8	37.1	4.0	2.6	2.6
57.5°	4.0	4.0	4.0	4.0	6.6	9.3	9.3	2.6	2.6	2.6	2.6
60°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
62.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
65°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
67.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
70°	2.6	2.6	2.6	1.3	2.6	2.6	2.6	2.6	2.6	2.6	2.6
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6	2.6
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6	2.6
77.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	2.6	2.6
82.5°	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3	1.3	2.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3	1.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	1.3	1.3	1.3
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°	602.7	602.7	602.7	602.7	602.7	602.7	602.7	602.7
2.5°	808.1	782.9	736.5	598.8	480.9	388.1	332.5	327.2
5°	1000.2	932.6	834.6	561.7	355.0	225.2	162.9	153.7
7.5°	1152.5	1057.1	906.1	500.7	242.4	115.2	63.6	53.0
10°	1278.3	1143.2	943.2	429.2	152.3	49.0	26.5	22.5
12.5°	1364.5	1201.5	949.8	349.7	87.4	23.8	17.2	15.9
15°	1420.1	1220.1	918.0	268.9	49.0	15.9	14.6	13.2
17.5°	1442.6	1204.2	857.1	194.7	26.5	11.9	11.9	11.9
20°	1432.0	1152.5	767.0	136.4	17.2	10.6	10.6	10.6
22.5°	1381.7	1063.7	654.4	91.4	11.9	9.3	9.3	9.3
25°	1282.3	943.2	535.2	60.9	7.9	7.9	9.3	9.3
27.5°	1134.0	794.8	409.3	41.1	6.6	7.9	9.3	9.3
30°	947.2	629.2	294.1	26.5	6.6	7.9	7.9	9.3
32.5°	752.4	458.4	193.4	15.9	5.3	7.9	9.3	10.6
35°	545.8	312.6	123.2	7.9	6.6	7.9	9.3	10.6
37.5°	382.8	204.0	71.5	5.3	6.6	7.9	10.6	10.6
40°	249.0	113.9	26.5	4.0	6.6	9.3	10.6	11.9
42.5°	129.8	39.7	5.3	4.0	6.6	9.3	11.9	13.2
45°	33.1	5.3	1.3	4.0	7.9	10.6	13.2	13.2
47.5°	4.0	1.3	1.3	5.3	7.9	11.9	13.2	14.6
50°	1.3	2.6	2.6	5.3	7.9	11.9	14.6	15.9
52.5°	2.6	2.6	2.6	5.3	9.3	11.9	15.9	17.2
55°	2.6	2.6	2.6	5.3	9.3	13.2	15.9	17.2
57.5°	2.6	2.6	2.6	5.3	9.3	13.2	15.9	15.9
60°	2.6	2.6	2.6	5.3	9.3	13.2	15.9	15.9
62.5°	2.6	2.6	4.0	5.3	9.3	11.9	15.9	15.9
65°	2.6	4.0	4.0	5.3	9.3	11.9	14.6	15.9
67.5°	2.6	2.6	4.0	5.3	9.3	11.9	14.6	15.9
70°	2.6	2.6	4.0	5.3	7.9	10.6	13.2	14.6
72.5°	2.6	2.6	4.0	5.3	7.9	10.6	11.9	13.2
75°	2.6	2.6	4.0	5.3	6.6	9.3	11.9	11.9
77.5°	2.6	2.6	4.0	4.0	6.6	7.9	10.6	10.6
80°	2.6	2.6	4.0	4.0	5.3	6.6	7.9	9.3
82.5°	2.6	2.6	2.6	4.0	4.0	5.3	6.6	6.6
85°	2.6	2.6	2.6	2.6	2.6	4.0	4.0	4.0
87.5°	1.3	2.6	2.6	2.6	2.6	2.6	2.6	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)