

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: P1316776

Luminaire Tested: LDSQA3D17R459740DE010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1316776
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: LDSQA3D17R459740DE010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 4000K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

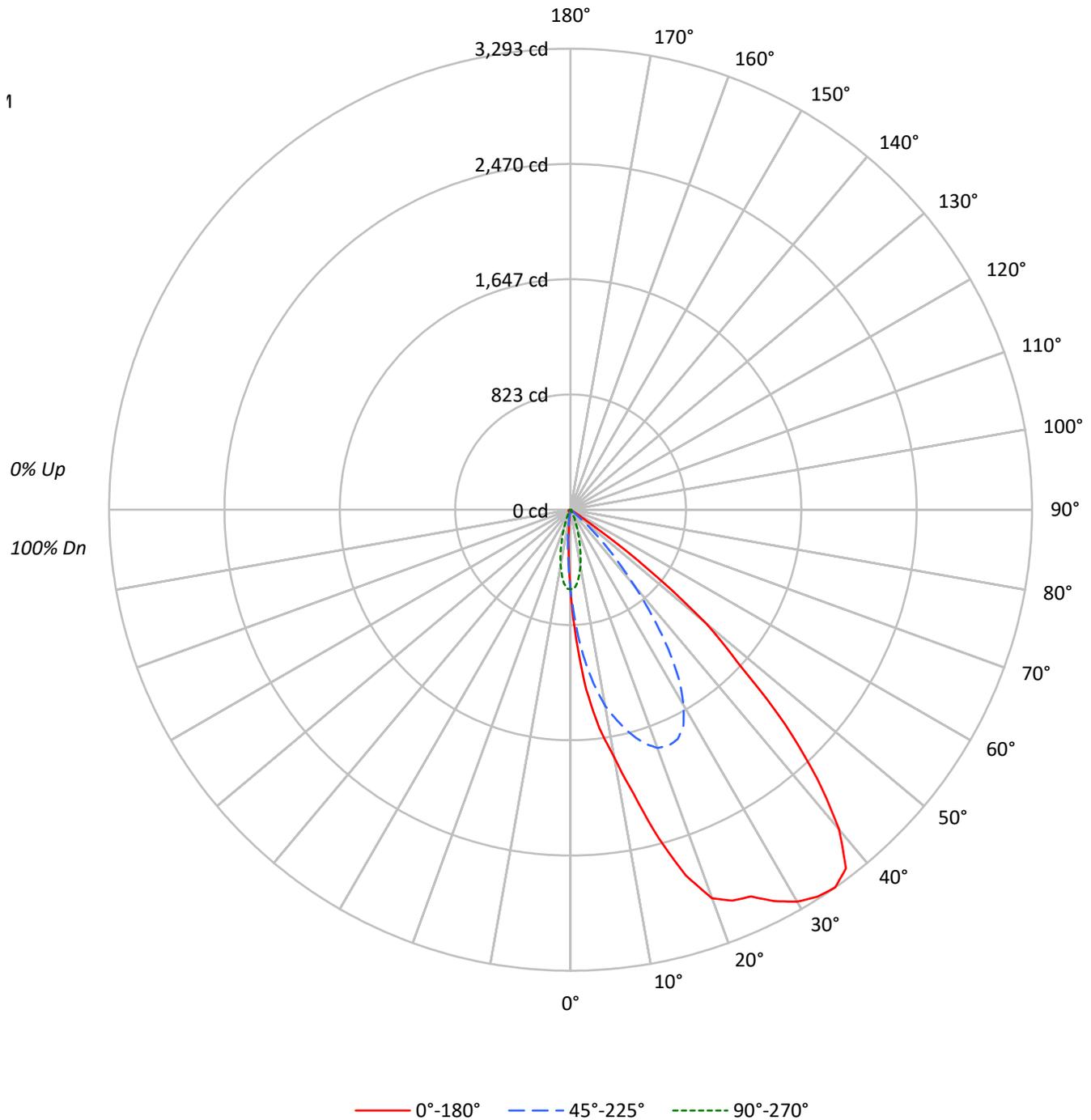
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1492.0 lumens
Efficiency: N/A
Efficacy: 70.4 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 (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

TEST NUMBER: P1316776
CATALOG NUMBER: LDSQA3D17R459740DE010 3LSQCA30R 1MW

Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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°	97771	97771	97771	97771	97771
5°	222826	180764	91471	36668	25016
10°	313996	248329	70704	8079	3707
15°	432711	295440	45163	2674	2229
20°	541066	331820	23551	1833	1833
25°	579030	343568	10908	1425	1653
30°	642674	320850	4972	1491	1730
35°	692316	255784	1577	1577	2102
40°	669898	158499	832	1956	2518
45°	526064	74773	901	2436	3044
50°	337995	8681	1340	3001	4019
55°	51315	751	1501	3753	4864
60°	861	861	1722	4306	5167
65°	1019	1019	2038	4564	6113
70°	1259	1259	2518	5035	6899
75°	799	1664	3327	5789	7453
80°	1190	2479	3670	6149	8629
85°	0	2371	4940	7311	7311

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 526064 cd/sqm



TEST NUMBER: P1316776

CATALOG NUMBER: LDSQA3D17R459740DE010 3LSQCA30R 1MW

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.1	4.2
10°-20°	224.6	15.1
20°-30°	394.7	26.5
30°-40°	448.2	30.0
40°-50°	290.2	19.4
50°-60°	57.0	3.8
60°-70°	6.9	0.5
70°-80°	5.7	0.4
80°-90°	2.6	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°	681.4	45.7
0°-40°	1129.6	75.7
0°-60°	1476.7	99.0
0°-90°	1492.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1492.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	568	568	568	568	568	
5°	1289	1046	529	212	145	137
15°	2427	1657	253	15	12	699
25°	3047	1808	57	8	9	1428
35°	3293	1217	8	8	10	2024
45°	2160	307	4	10	12	1628
55°	171	2	5	12	16	326
65°	2	2	5	11	15	2
75°	1	2	5	9	11	1
85°	0	1	2	4	4	0
90°	0	0	0	0	0	



TEST NUMBER: P1316776

CATALOG NUMBER: LDSQA3D17R459740DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	567.7	567.7	567.7	567.7	567.7	567.7	567.7	567.7	567.7	567.7	567.7
2.5°	922.1	919.6	923.4	898.4	897.1	878.4	873.4	852.2	823.5	809.8	777.4
5°	1288.9	1276.5	1276.5	1246.5	1236.5	1215.3	1179.1	1134.2	1096.8	1045.6	990.7
7.5°	1572.2	1569.7	1569.7	1543.5	1518.5	1488.6	1439.9	1388.8	1328.9	1250.3	1170.4
10°	1795.5	1799.3	1788.1	1764.3	1728.2	1695.7	1638.3	1575.9	1502.3	1420.0	1313.9
12.5°	2077.5	2050.1	2041.4	1987.7	1941.5	1879.1	1810.5	1739.4	1648.3	1544.7	1425.0
15°	2426.9	2392.0	2357.0	2285.9	2208.6	2112.5	2005.2	1900.4	1783.1	1657.0	1507.3
17.5°	2738.9	2738.9	2692.7	2580.4	2480.6	2338.3	2193.6	2053.8	1915.3	1749.4	1562.2
20°	2952.2	2941.0	2906.1	2823.7	2710.2	2549.2	2360.8	2164.9	1997.7	1810.5	1593.4
22.5°	3022.1	3019.6	3020.9	2972.2	2881.1	2713.9	2483.1	2252.2	2042.6	1825.5	1578.4
25°	3047.1	3052.0	3064.5	3045.8	2977.2	2810.0	2557.9	2293.4	2056.3	1808.0	1521.0
27.5°	3150.6	3140.6	3154.4	3141.9	3064.5	2864.9	2572.9	2283.4	2026.4	1744.4	1418.7
30°	3231.7	3229.2	3252.9	3241.7	3140.6	2899.8	2559.2	2246.0	1952.8	1613.4	1257.8
32.5°	3277.9	3279.1	3285.4	3239.2	3089.5	2823.7	2491.8	2169.9	1814.3	1442.4	1048.1
35°	3292.9	3285.4	3250.4	3136.9	2932.3	2647.8	2325.8	1988.9	1625.8	1216.6	828.5
37.5°	3228.0	3189.3	3099.5	2929.8	2692.7	2426.9	2113.7	1760.6	1367.6	960.8	617.6
40°	2979.7	2928.5	2815.0	2641.5	2420.7	2163.6	1843.0	1473.6	1060.6	705.0	434.2
42.5°	2607.8	2581.6	2463.1	2312.1	2125.0	1865.4	1534.8	1160.4	784.8	486.6	277.0
45°	2159.9	2126.2	2051.3	1917.8	1770.6	1498.6	1190.4	831.0	535.3	307.0	137.3
47.5°	1619.6	1622.1	1570.9	1469.9	1325.1	1098.0	814.8	557.8	335.7	158.5	31.2
50°	1261.5	1244.0	1171.7	1068.1	899.6	731.2	526.6	351.9	177.2	32.4	2.5
52.5°	698.8	710.0	671.3	637.6	550.3	436.7	310.7	178.4	37.4	3.7	2.5
55°	170.9	180.9	173.4	177.2	183.4	163.5	126.0	34.9	3.7	2.5	2.5
57.5°	3.7	3.7	3.7	3.7	6.2	8.7	8.7	2.5	2.5	2.5	2.5
60°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
62.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
65°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
67.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
70°	2.5	2.5	2.5	1.2	2.5	2.5	2.5	2.5	2.5	2.5	2.5
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5
75°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5	2.5
77.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.5	2.5
82.5°	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2	1.2	2.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	1.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P1316776

CATALOG NUMBER: LDSQA3D17R459740DE010 3LSQCA30R 1MW

CANDELA DISTRIBUTION (continued):

	55°	60°	67.5°	90°	112.5°	135°	157.5°	180°
0°	567.7	567.7	567.7	567.7	567.7	567.7	567.7	567.7
2.5°	761.1	737.4	693.8	564.0	452.9	365.6	313.2	308.2
5°	942.1	878.4	786.1	529.1	334.4	212.1	153.5	144.7
7.5°	1085.6	995.7	853.5	471.7	228.3	108.6	59.9	49.9
10°	1204.1	1076.8	888.4	404.3	143.5	46.2	25.0	21.2
12.5°	1285.2	1131.7	894.7	329.4	82.4	22.5	16.2	15.0
15°	1337.6	1149.2	864.7	253.3	46.2	15.0	13.7	12.5
17.5°	1358.8	1134.2	807.3	183.4	25.0	11.2	11.2	11.2
20°	1348.8	1085.6	722.5	128.5	16.2	10.0	10.0	10.0
22.5°	1301.4	1002.0	616.4	86.1	11.2	8.7	8.7	8.7
25°	1207.8	888.4	504.1	57.4	7.5	7.5	8.7	8.7
27.5°	1068.1	748.7	385.6	38.7	6.2	7.5	8.7	8.7
30°	892.2	592.7	277.0	25.0	6.2	7.5	7.5	8.7
32.5°	708.7	431.7	182.2	15.0	5.0	7.5	8.7	10.0
35°	514.1	294.5	116.0	7.5	6.2	7.5	8.7	10.0
37.5°	360.6	192.2	67.4	5.0	6.2	7.5	10.0	10.0
40°	234.6	107.3	25.0	3.7	6.2	8.7	10.0	11.2
42.5°	122.3	37.4	5.0	3.7	6.2	8.7	11.2	12.5
45°	31.2	5.0	1.2	3.7	7.5	10.0	12.5	12.5
47.5°	3.7	1.2	1.2	5.0	7.5	11.2	12.5	13.7
50°	1.2	2.5	2.5	5.0	7.5	11.2	13.7	15.0
52.5°	2.5	2.5	2.5	5.0	8.7	11.2	15.0	16.2
55°	2.5	2.5	2.5	5.0	8.7	12.5	15.0	16.2
57.5°	2.5	2.5	2.5	5.0	8.7	12.5	15.0	15.0
60°	2.5	2.5	2.5	5.0	8.7	12.5	15.0	15.0
62.5°	2.5	2.5	3.7	5.0	8.7	11.2	15.0	15.0
65°	2.5	3.7	3.7	5.0	8.7	11.2	13.7	15.0
67.5°	2.5	2.5	3.7	5.0	8.7	11.2	13.7	15.0
70°	2.5	2.5	3.7	5.0	7.5	10.0	12.5	13.7
72.5°	2.5	2.5	3.7	5.0	7.5	10.0	11.2	12.5
75°	2.5	2.5	3.7	5.0	6.2	8.7	11.2	11.2
77.5°	2.5	2.5	3.7	3.7	6.2	7.5	10.0	10.0
80°	2.5	2.5	3.7	3.7	5.0	6.2	7.5	8.7
82.5°	2.5	2.5	2.5	3.7	3.7	5.0	6.2	6.2
85°	2.5	2.5	2.5	2.5	2.5	3.7	3.7	3.7
87.5°	1.2	2.5	2.5	2.5	2.5	2.5	2.5	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)