

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: P1314017

Luminaire Tested: LDSQA3D20R459727D010 3LSQCA30R 1MW

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1314017
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: LDSQA3D20R459727D010 3LSQCA30R 1MW
Description: 3in Adjustable LED luminaire with, R45 optic, 2700K CCT AND, 97CRI , 3LSQCA30R 1MW TRIM
Light Source: -
Ballast/Driver: -

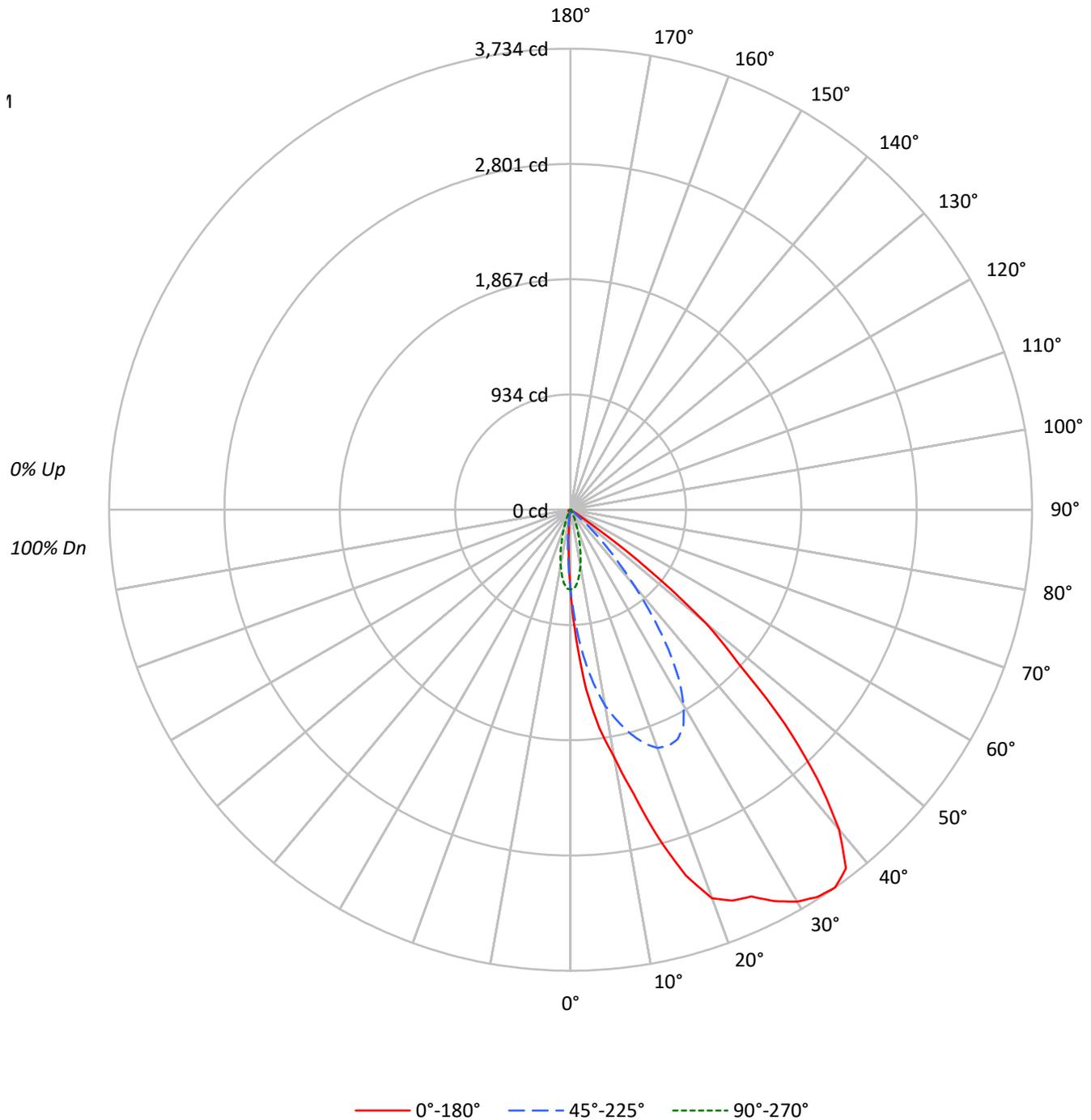
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1692.0 lumens
Efficiency: N/A
Efficacy: 58.7 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): 28.8
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
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	112	109	106	104	110	107	104	102	103	101	99	99	97	96	96	94	93	91		
2	105	100	95	91	103	98	93	90	95	91	88	91	88	86	89	86	84	82		
3	99	91	85	80	96	89	84	80	87	82	78	84	80	77	82	79	76	74		
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	76	72	68	67		
5	86	76	69	64	84	75	68	64	73	67	63	71	66	62	70	65	62	60		
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54		
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49		
8	71	59	52	47	69	59	52	47	57	51	47	56	51	47	55	50	46	45		
9	66	55	48	43	65	54	47	43	53	47	43	52	47	43	51	46	42	41		
10	62	51	44	39	61	50	44	39	49	43	39	49	43	39	48	43	39	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	110877	110877	110877	110877	110877
5°	252699	205002	103728	41595	28370
10°	356090	281608	80182	9164	4215
15°	490712	335058	51225	3031	2532
20°	613606	376301	26703	2071	2071
25°	656637	389631	12371	1615	1881
30°	728822	363844	5628	1690	1969
35°	785118	290075	1787	1787	2376
40°	759692	179744	944	2226	2855
45°	596575	84783	1023	2752	3459
50°	383302	9860	1527	3403	4555
55°	58221	841	1711	4264	5525
60°	964	964	1963	4891	5856
65°	1141	1141	2323	5175	6928
70°	1410	1410	2870	5690	7855
75°	932	1863	3793	6588	8451
80°	1389	2777	4166	7042	9819
85°	0	2766	5533	8299	8299

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 45°
 Luminance: 596575 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	4.2
10°-20°	254.8	15.1
20°-30°	447.6	26.5
30°-40°	508.2	30.0
40°-50°	329.1	19.4
50°-60°	64.6	3.8
60°-70°	7.8	0.5
70°-80°	6.5	0.4
80°-90°	3.0	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°	772.8	45.7
0°-40°	1281.0	75.7
0°-60°	1674.7	99.0
0°-90°	1692.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1692.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	644	644	644	644	644	
5°	1462	1186	600	241	164	156
15°	2752	1879	287	17	14	793
25°	3456	2050	65	8	10	1620
35°	3734	1380	8	8	11	2296
45°	2449	348	4	11	14	1846
55°	194	3	6	14	18	370
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°	643.8	643.8	643.8	643.8	643.8	643.8	643.8	643.8	643.8	643.8	643.8
2.5°	1045.7	1042.9	1047.1	1018.8	1017.4	996.2	990.5	966.5	933.9	918.4	881.6
5°	1461.7	1447.6	1447.6	1413.6	1402.3	1378.2	1337.2	1286.3	1243.8	1185.8	1123.5
7.5°	1782.9	1780.1	1780.1	1750.4	1722.1	1688.1	1632.9	1574.9	1507.0	1417.9	1327.3
10°	2036.2	2040.5	2027.7	2000.9	1959.8	1923.0	1857.9	1787.2	1703.7	1610.3	1490.0
12.5°	2356.0	2324.9	2315.0	2254.1	2201.8	2131.0	2053.2	1972.6	1869.3	1751.8	1616.0
15°	2752.2	2712.6	2673.0	2592.3	2504.6	2395.7	2274.0	2155.1	2022.1	1879.2	1709.4
17.5°	3106.0	3106.0	3053.6	2926.3	2813.1	2651.8	2487.6	2329.1	2172.1	1983.9	1771.6
20°	3348.0	3335.2	3295.6	3202.2	3073.5	2890.9	2677.2	2455.1	2265.5	2053.2	1807.0
22.5°	3427.2	3424.4	3425.8	3370.6	3267.3	3077.7	2815.9	2554.1	2316.4	2070.2	1790.0
25°	3455.5	3461.2	3475.3	3454.1	3376.3	3186.7	2900.8	2600.8	2332.0	2050.4	1724.9
27.5°	3573.0	3561.6	3577.2	3563.1	3475.3	3248.9	2917.8	2589.5	2298.0	1978.2	1608.9
30°	3664.9	3662.1	3689.0	3676.3	3561.6	3288.5	2902.2	2547.1	2214.5	1829.6	1426.4
32.5°	3717.3	3718.7	3725.8	3673.4	3503.6	3202.2	2825.8	2460.7	2057.5	1635.8	1188.6
35°	3734.3	3725.8	3686.2	3557.4	3325.3	3002.7	2637.6	2255.6	1843.8	1379.7	939.6
37.5°	3660.7	3616.8	3514.9	3322.5	3053.6	2752.2	2397.1	1996.6	1550.9	1089.6	700.4
40°	3379.1	3321.1	3192.3	2995.6	2745.2	2453.7	2090.0	1671.2	1202.8	799.5	492.4
42.5°	2957.4	2927.7	2793.3	2622.1	2409.8	2115.5	1740.5	1316.0	890.1	551.9	314.1
45°	2449.4	2411.2	2326.3	2174.9	2007.9	1699.5	1349.9	942.4	607.0	348.1	155.7
47.5°	1836.7	1839.5	1781.5	1666.9	1502.8	1245.2	924.0	632.5	380.6	179.7	35.4
50°	1430.6	1410.8	1328.7	1211.3	1020.2	829.2	597.1	399.0	200.9	36.8	2.8
52.5°	792.4	805.2	761.3	723.1	624.0	495.3	352.3	202.3	42.5	4.2	2.8
55°	193.9	205.2	196.7	200.9	208.0	185.4	142.9	39.6	4.2	2.8	2.8
57.5°	4.2	4.2	4.2	4.2	7.1	9.9	9.9	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°	643.8	643.8	643.8	643.8	643.8	643.8	643.8	643.8
2.5°	863.2	836.3	786.8	639.6	513.7	414.6	355.2	349.5
5°	1068.3	996.2	891.5	600.0	379.2	240.6	174.0	164.1
7.5°	1231.1	1129.2	967.9	534.9	259.0	123.1	67.9	56.6
10°	1365.5	1221.2	1007.5	458.5	162.7	52.4	28.3	24.1
12.5°	1457.5	1283.4	1014.6	373.6	93.4	25.5	18.4	17.0
15°	1516.9	1303.2	980.6	287.3	52.4	17.0	15.6	14.2
17.5°	1541.0	1286.3	915.5	208.0	28.3	12.7	12.7	12.7
20°	1529.7	1231.1	819.3	145.7	18.4	11.3	11.3	11.3
22.5°	1475.9	1136.3	699.0	97.6	12.7	9.9	9.9	9.9
25°	1369.8	1007.5	571.7	65.1	8.5	8.5	9.9	9.9
27.5°	1211.3	849.0	437.2	43.9	7.1	8.5	9.9	9.9
30°	1011.7	672.1	314.1	28.3	7.1	8.5	8.5	9.9
32.5°	803.7	489.6	206.6	17.0	5.7	8.5	9.9	11.3
35°	583.0	333.9	131.6	8.5	7.1	8.5	9.9	11.3
37.5°	408.9	217.9	76.4	5.7	7.1	8.5	11.3	11.3
40°	266.0	121.7	28.3	4.2	7.1	9.9	11.3	12.7
42.5°	138.7	42.5	5.7	4.2	7.1	9.9	12.7	14.2
45°	35.4	5.7	1.4	4.2	8.5	11.3	14.2	14.2
47.5°	4.2	1.4	1.4	5.7	8.5	12.7	14.2	15.6
50°	1.4	2.8	2.8	5.7	8.5	12.7	15.6	17.0
52.5°	2.8	2.8	2.8	5.7	9.9	12.7	17.0	18.4
55°	2.8	2.8	2.8	5.7	9.9	14.2	17.0	18.4
57.5°	2.8	2.8	2.8	5.7	9.9	14.2	17.0	17.0
60°	2.8	2.8	2.8	5.7	9.9	14.2	17.0	17.0
62.5°	2.8	2.8	4.2	5.7	9.9	12.7	17.0	17.0
65°	2.8	4.2	4.2	5.7	9.9	12.7	15.6	17.0
67.5°	2.8	2.8	4.2	5.7	9.9	12.7	15.6	17.0
70°	2.8	2.8	4.2	5.7	8.5	11.3	14.2	15.6
72.5°	2.8	2.8	4.2	5.7	8.5	11.3	12.7	14.2
75°	2.8	2.8	4.2	5.7	7.1	9.9	12.7	12.7
77.5°	2.8	2.8	4.2	4.2	7.1	8.5	11.3	11.3
80°	2.8	2.8	4.2	4.2	5.7	7.1	8.5	9.9
82.5°	2.8	2.8	2.8	4.2	4.2	5.7	7.1	7.1
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)