


osq Series

OSQ™ is the industry's first fully feature-rich, fully integrated, patented NanoCore™ Technology – Hybrid C.

OSQ-A Mount



Product Description

The OSQ™ Pro™ Hybrid Luminaire blends advanced optical and electronic, advanced thermal management and proprietary, ultra-efficient lighting technology to produce a luminaire with an extremely precise, uniform, and consistent beam of light. The OSQ™ Pro™ Hybrid Luminaire is the only luminaire that can produce a beam of light that is as uniform as a laser beam, yet is as bright as a 1000-watt incandescent bulb. The OSQ™ Pro™ Hybrid Luminaire is the only luminaire that can produce a beam of light that is as uniform as a laser beam, yet is as bright as a 1000-watt incandescent bulb. The OSQ™ Pro™ Hybrid Luminaire is the only luminaire that can produce a beam of light that is as uniform as a laser beam, yet is as bright as a 1000-watt incandescent bulb.

Applications: Warehouse, retail, outdoor, sports, industrial, office, commercial, residential, etc.

Applications Features: Withstands corrosion, heat, shock/vibration, ultra-compact, adjustable mount, high beam accuracy.

Performance Summary

- Ultra-High Beam Accuracy™ Technology
- Utilizes Core Technology™ to OSQ™ Luminaire
- Available in 100, 200, 300, 400, 500, 600, 700, 800, 900, 1000, 1100, 1200, 1300, 1400, 1500, 1600, 1700, 1800, 1900, 2000, 2100, 2200, 2300, 2400, 2500, 2600, 2700, 2800, 2900, 3000, 3100, 3200, 3300, 3400, 3500, 3600, 3700, 3800, 3900, 4000, 4100, 4200, 4300, 4400, 4500, 4600, 4700, 4800, 4900, 5000, 5100, 5200, 5300, 5400, 5500, 5600, 5700, 5800, 5900, 6000, 6100, 6200, 6300, 6400, 6500, 6600, 6700, 6800, 6900, 7000, 7100, 7200, 7300, 7400, 7500, 7600, 7700, 7800, 7900, 8000, 8100, 8200, 8300, 8400, 8500, 8600, 8700, 8800, 8900, 9000, 9100, 9200, 9300, 9400, 9500, 9600, 9700, 9800, 9900, 10000, 10100, 10200, 10300, 10400, 10500, 10600, 10700, 10800, 10900, 11000, 11100, 11200, 11300, 11400, 11500, 11600, 11700, 11800, 11900, 12000, 12100, 12200, 12300, 12400, 12500, 12600, 12700, 12800, 12900, 13000, 13100, 13200, 13300, 13400, 13500, 13600, 13700, 13800, 13900, 14000, 14100, 14200, 14300, 14400, 14500, 14600, 14700, 14800, 14900, 15000, 15100, 15200, 15300, 15400, 15500, 15600, 15700, 15800, 15900, 16000, 16100, 16200, 16300, 16400, 16500, 16600, 16700, 16800, 16900, 17000, 17100, 17200, 17300, 17400, 17500, 17600, 17700, 17800, 17900, 18000, 18100, 18200, 18300, 18400, 18500, 18600, 18700, 18800, 18900, 19000, 19100, 19200, 19300, 19400, 19500, 19600, 19700, 19800, 19900, 20000, 20100, 20200, 20300, 20400, 20500, 20600, 20700, 20800, 20900, 21000, 21100, 21200, 21300, 21400, 21500, 21600, 21700, 21800, 21900, 22000, 22100, 22200, 22300, 22400, 22500, 22600, 22700, 22800, 22900, 23000, 23100, 23200, 23300, 23400, 23500, 23600, 23700, 23800, 23900, 24000, 24100, 24200, 24300, 24400, 24500, 24600, 24700, 24800, 24900, 25000, 25100, 25200, 25300, 25400, 25500, 25600, 25700, 25800, 25900, 26000, 26100, 26200, 26300, 26400, 26500, 26600, 26700, 26800, 26900, 27000, 27100, 27200, 27300, 27400, 27500, 27600, 27700, 27800, 27900, 28000, 28100, 28200, 28300, 28400, 28500, 28600, 28700, 28800, 28900, 29000, 29100, 29200, 29300, 29400, 29500, 29600, 29700, 29800, 29900, 30000, 30100, 30200, 30300, 30400, 30500, 30600, 30700, 30800, 30900, 31000, 31100, 31200, 31300, 31400, 31500, 31600, 31700, 31800, 31900, 32000, 32100, 32200, 32300, 32400, 32500, 32600, 32700, 32800, 32900, 33000, 33100, 33200, 33300, 33400, 33500, 33600, 33700, 33800, 33900, 34000, 34100, 34200, 34300, 34400, 34500, 34600, 34700, 34800, 34900, 35000, 35100, 35200, 35300, 35400, 35500, 35600, 35700, 35800, 35900, 36000, 36100, 36200, 36300, 36400, 36500, 36600, 36700, 36800, 36900, 37000, 37100, 37200, 37300, 37400, 37500, 37600, 37700, 37800, 37900, 38000, 38100, 38200, 38300, 38400, 38500, 38600, 38700, 38800, 38900, 39000, 39100, 39200, 39300, 39400, 39500, 39600, 39700, 39800, 39900, 40000, 40100, 40200, 40300, 40400, 40500, 40600, 40700, 40800, 40900, 41000, 41100, 41200, 41300, 41400, 41500, 41600, 41700, 41800, 41900, 42000, 42100, 42200, 42300, 42400, 42500, 42600, 42700, 42800, 42900, 43000, 43100, 43200, 43300, 43400, 43500, 43600, 43700, 43800, 43900, 44000, 44100, 44200, 44300, 44400, 44500, 44600, 44700, 44800, 44900, 45000, 45100, 45200, 45300, 45400, 45500, 45600, 45700, 45800, 45900, 46000, 46100, 46200, 46300, 46400, 46500, 46600, 46700, 46800, 46900, 47000, 47100, 47200, 47300, 47400, 47500, 47600, 47700, 47800, 47900, 48000, 48100, 48200, 48300, 48400, 48500, 48600, 48700, 48800, 48900, 49000, 49100, 49200, 49300, 49400, 49500, 49600, 49700, 49800, 49900, 50000, 50100, 50200, 50300, 50400, 50500, 50600, 50700, 50800, 50900, 51000, 51100, 51200, 51300, 51400, 51500, 51600, 51700, 51800, 51900, 52000,

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0122™ LED Area™ Flood Luminaires Featuring Patented NovaCenter™ Technology - Version C

Photometry

All photometric performance photometric readings performed to IES LM-79 standards. To obtain an IES file specific to your project consult:

0122™ LED Area™ Flood Luminaire
Type 10
10.0° Beam Spread
10.0 ft Beam Diameter at 100 ft

0122™ LED Area™ Flood Luminaire
Type 10
10.0° Beam Spread
10.0 ft Beam Diameter at 100 ft

Type 10 and 100 Beam Data

Type 10	Beam Spread	Beam Diameter at 100 ft	100000 Lux		100000 Lux		100000 Lux		100000 Lux		100000 Lux	
			Beam Spread	Beam Diameter at 100 ft	Beam Spread	Beam Diameter at 100 ft	Beam Spread	Beam Diameter at 100 ft	Beam Spread	Beam Diameter at 100 ft	Beam Spread	Beam Diameter at 100 ft
1	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft
2	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft
3	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft
4	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft
5	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft
6	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft
7	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft
8	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft
9	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft
10	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft
11	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft
12	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft
13	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft
14	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft
15	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft
16	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft
17	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft
18	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft
19	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft
20	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft	10.0°	10.0 ft

* Beam diameter and beam spread are approximate values. For more information, please contact your local distributor or visit www.cree.com.

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0122™ LED Area™ Flood Luminaire
Type 10
10.0° Beam Spread
10.0 ft Beam Diameter at 100 ft

0122™ LED Area™ Flood Luminaire
Type 10
10.0° Beam Spread
10

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Performance Data									
Lumen Ambient Temperature (L40) Multipliers									
Lumen Ambient Temperature (L40) Multiplier									
Temp	10°C	15°C	20°C	25°C	30°C	35°C	40°C	45°C	50°C
10°C	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
15°C	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
20°C	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
25°C	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
30°C	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35°C	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40°C	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
45°C	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
50°C	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Electrical Load									
Electrical Load									
Power	10W	15W	20W	25W	30W	35W	40W	45W	50W
10W	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
15W	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
20W	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
25W	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
30W	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35W	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40W	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
45W	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
50W	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Project LED Lumen Maintenance

LED Lumen Maintenance (LM-79) is a measure of the ability of an LED to maintain its initial lumen output over time. The LM-79 is a standard test method for measuring the lumen maintenance of LEDs. The LM-79 is a standard test method for measuring the lumen maintenance of LEDs. The LM-79 is a standard test method for measuring the lumen maintenance of LEDs.

Power	10W	15W	20W	25W	30W	35W	40W	45W	50W
10W	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
15W	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
20W	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
25W	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
30W	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35W	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
40W	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
45W	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
50W	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00

Active Thermal Thermal Analysis

Power	10W	15W	20W	25W	30W	35W	40W	45W	50W
10W	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
15W	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
20W	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
25W	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
30W	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
35W	1.00	1.00	1.00	1					

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