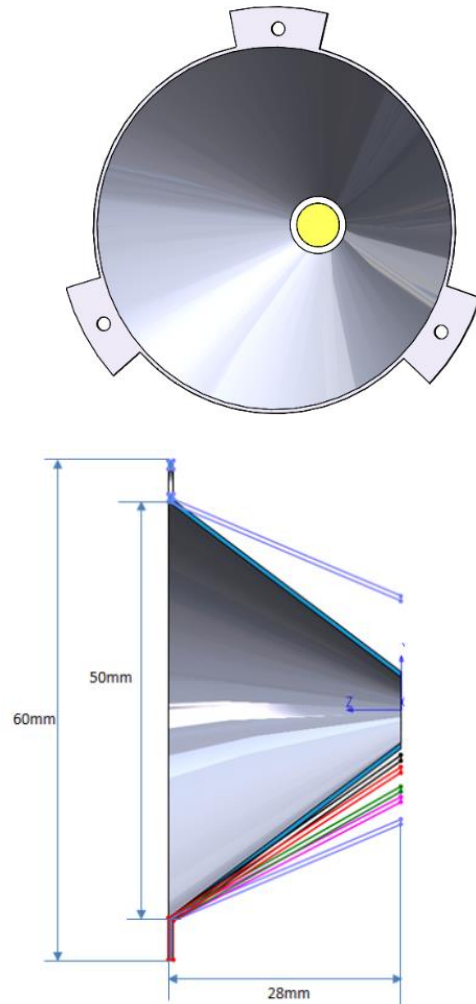
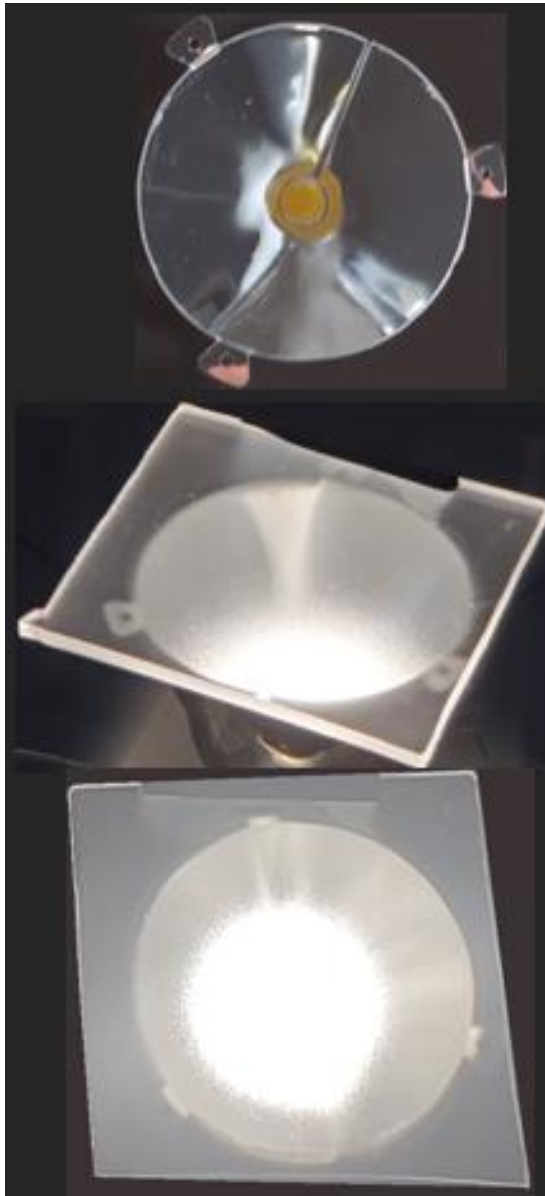


All CoreLed Systems, LLC Optical Components are designed and manufactured in the USA.

- Optical System: Reflector, COB and Optional P95 Diffusive Lens
- Stamped Reflector: 60° 50° 36° 24° 18° 10° Floods
- Optional Outer Lens: improves lit appearance
- Source: 6mm COB or smaller
 - Lumileds Luxeon COB Core
 - Cree XLamp CXA1304
 - Bridgelux Gen 7 V4 HD LED array
 - Bridgelux Gen 7 V6 HD LED array

60° Prototype Hardware with P95 Outer Lens



CORELED SYSTEMS

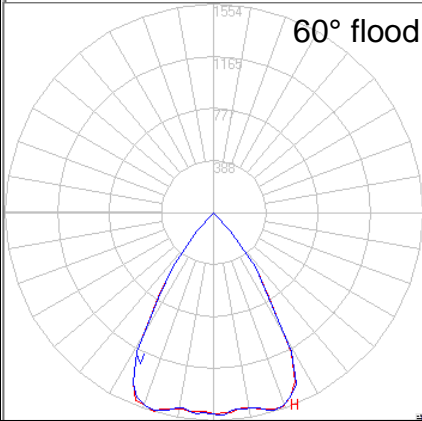
www.coreled.com

TECH BRIEF

Stamped Reflector 09/02/20

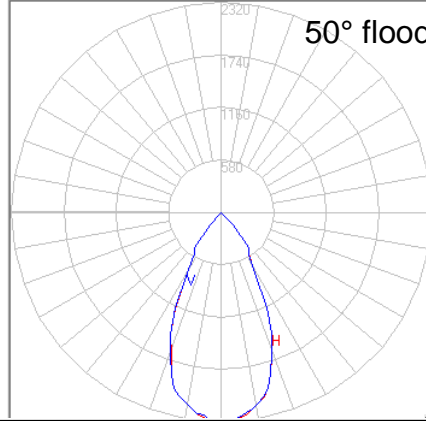
Characteristics

NEMA Type	5 H x 5 V
Maximum Candela	1553.8
Maximum Candela Angle	19.5 H -5 V
Horizontal Beam Angle (50%)	65.1
Vertical Beam Angle (50%)	54.0
Horizontal Field Angle (10%)	85.4
Vertical Field Angle (10%)	79.2
Lumens Per Lamp	500 (4 lamps)
Total Lamp Lumens	2000
Beam Lumens	1363
Beam Efficiency	68 %
Field Lumens	1666
Field Efficiency	83 %
Spill Lumens	27
Luminaire Lumens	1693
Total Efficiency	85 %



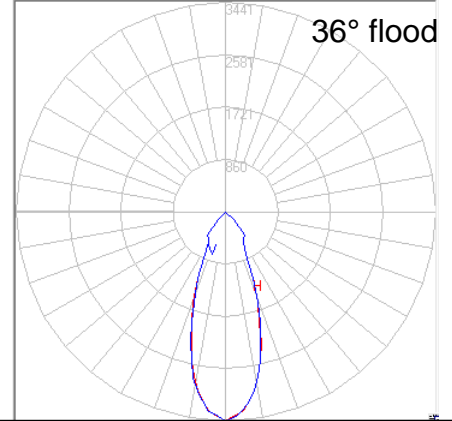
Characteristics

NEMA Type	5 H x 5 V
Maximum Candela	2319.598
Maximum Candela Angle	1 H -1 V
Horizontal Beam Angle (50%)	51.2
Vertical Beam Angle (50%)	51.2
Horizontal Field Angle (10%)	83.3
Vertical Field Angle (10%)	83.3
Lumens Per Lamp	500 (4 lamps)
Total Lamp Lumens	2000
Beam Lumens	1092
Beam Efficiency	55 %
Field Lumens	1666
Field Efficiency	83 %
Spill Lumens	37
Luminaire Lumens	1703
Total Efficiency	85 %



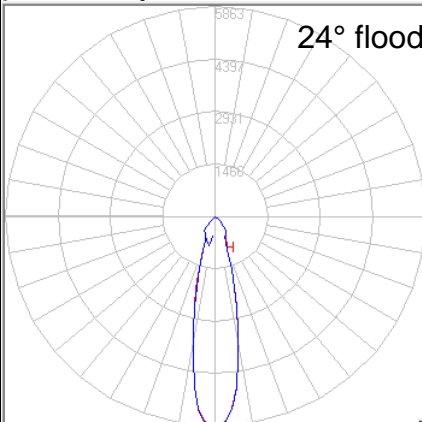
Characteristics

NEMA Type	5 H x 5 V
Maximum Candela	3441.326
Maximum Candela Angle	0 H 0 V
Horizontal Beam Angle (50%)	36.8
Vertical Beam Angle (50%)	36.8
Horizontal Field Angle (10%)	79.8
Vertical Field Angle (10%)	79.8
Lumens Per Lamp	500 (4 lamps)
Total Lamp Lumens	2000
Beam Lumens	794
Beam Efficiency	40 %
Field Lumens	1598
Field Efficiency	80 %
Spill Lumens	107
Luminaire Lumens	1705
Total Efficiency	85 %



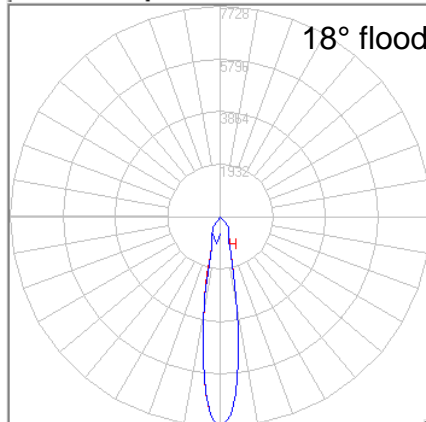
Characteristics

NEMA Type	4 H x 4 V
Maximum Candela	5862.616
Maximum Candela Angle	0 H 0 V
Horizontal Beam Angle (50%)	24.0
Vertical Beam Angle (50%)	24.0
Horizontal Field Angle (10%)	56.2
Vertical Field Angle (10%)	56.2
Lumens Per Lamp	500 (4 lamps)
Total Lamp Lumens	2000
Beam Lumens	574
Beam Efficiency	29 %
Field Lumens	1268
Field Efficiency	63 %
Spill Lumens	439
Luminaire Lumens	1707
Total Efficiency	85 %



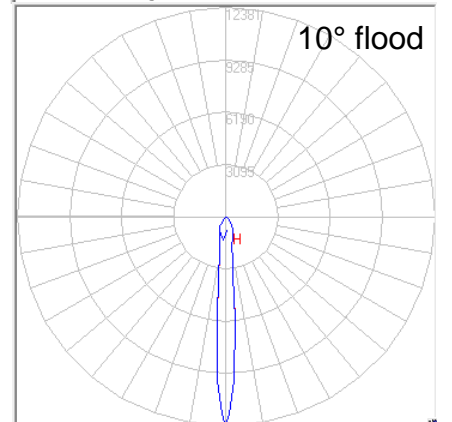
Characteristics

NEMA Type	4 H x 4 V
Maximum Candela	7728.323
Maximum Candela Angle	0 H 0 V
Horizontal Beam Angle (50%)	19.0
Vertical Beam Angle (50%)	19.0
Horizontal Field Angle (10%)	47.2
Vertical Field Angle (10%)	47.1
Lumens Per Lamp	500 (4 lamps)
Total Lamp Lumens	2000
Beam Lumens	475
Beam Efficiency	24 %
Field Lumens	1095
Field Efficiency	55 %
Spill Lumens	614
Luminaire Lumens	1709
Total Efficiency	85 %



Characteristics

NEMA Type	3 H x 3 V
Maximum Candela	12380.59
Maximum Candela Angle	0 H 0 V
Horizontal Beam Angle (50%)	9.9
Vertical Beam Angle (50%)	10.0
Horizontal Field Angle (10%)	35.8
Vertical Field Angle (10%)	35.9
Lumens Per Lamp	500 (4 lamps)
Total Lamp Lumens	2000
Beam Lumens	218
Beam Efficiency	11 %
Field Lumens	756
Field Efficiency	38 %
Spill Lumens	959
Luminaire Lumens	1715
Total Efficiency	86 %



Prototype measurement with Bridgelux Gen7 V6 and **No Outer Lens** with 60° flood reflector

Characteristics

NEMA Type	5 H x 5 V
Maximum Candela	982.688
Maximum Candela Angle	-1 H 5 V
Horizontal Beam Angle (50%)	63.7
Vertical Beam Angle (50%)	64.5
Horizontal Field Angle (10%)	83.8
Vertical Field Angle (10%)	84.1
Lumens Per Lamp	1000 (1 lamp)
Total Lamp Lumens	1000
Beam Lumens	796
Beam Efficiency	80 %
Field Lumens	973
Field Efficiency	97 %
Spill Lumens	24
Luminaire Lumens	997

Prototype measurement with Bridgelux Gen7 V6 and **P95 Outer Lens** with 60° flood reflector

Characteristics

NEMA Type	5 H x 5 V
Maximum Candela	1012.887
Maximum Candela Angle	-1 H 5 V
Horizontal Beam Angle (50%)	59.7
Vertical Beam Angle (50%)	60.9
Horizontal Field Angle (10%)	91.0
Vertical Field Angle (10%)	91.2
Lumens Per Lamp	1000 (1 lamp)
Total Lamp Lumens	1000
Beam Lumens	667
Beam Efficiency	67 %
Field Lumens	937
Field Efficiency	94 %
Spill Lumens	59
Luminaire Lumens	996

