

SPECIFICATIONS

Open reflector lighting fixture

- PHYSICAL** Die-cast aluminum
 - Tool free cleaning of the reflector or lens
 - High-impact, thermally insulated knobs
 - Sealed reflector housing
 - Reflector temperature control through integral heat sink fins
 - Gel frame holders with two accessory slots
 - Top-mounted, gel-frame retainer
 - Steel yoke with two mounting positions
 - Positive locking yoke clutch
 - UL and cUL listed
- ELECTRICAL** 115-240V, 50/60Hz
 - High-temperature three-conductor 36" leads in a glass fiber outer sleeve
 - Supports ETC Dimmer Doubling™ technology:
- LAMP** HPL — compact tungsten filament contained in a krypton/xenon-filled quartz envelope (see table for suitable lamp types)
 - 575W maximum
 - Patented filament geometry makes for extremely efficient light collection and transmission
 - Integral die-cast aluminum heat sink lamp base
- LENSES** Four heat resistant, molded borosilicate glass lenses supplied with each unit: Very Narrow Spot (VNSP), Narrow Spot (NSP), Medium Flood (MFL) and Wide Flood (WFL).
 - Round beam for VNSP and NSP, oblong beam shape for MFL and WFL
 - Tool free lens changing
 - Thermally insulated lens rotation ring outside of the fixture
- OPTICAL** Modified parabolic and multifaceted reflector
 - Computer designed reflector facets molded directly into heat sink casting, finished with a metal cold mirror, dichroic coating
 - Enhanced Aluminum (EA) also available

ORDERING INFORMATION

Source Four Par MCM

Model #	Description
PAR-MCM	Source Four PAR Metal Cold Mirror (Black)
PAR-MCM-1	Source Four PAR Metal Cold Mirror (White)

ETC Source Four PAR MCM are supplied with 4 lens set: VNSP, NSP, MFL, WFL; color frame and 36" (92cm) bare leads

Connector Designation

Use Suffixes below to specify Factory-Fitted Connector type	
Model#	Description
A	Parallel-blade U-ground connector
B	Two-pin and ground, 20 amp connector
C	Grounded, 20 amp, twistlock connector
M	Dimmer Doubling™ connector (NEMA L515P)

Source Four PAR MCM Accessories

Model#	Description
407CF	Color frame (7.5") (included)
400SC	Safety Cable
400CC	C-Clamp
400-VNSP	Very Narrow Spot lens
400-NSP	Narrow Spot lens
400-MFL	Medium Flood lens
400-WFL	Wide Flood lens
400-LS4	Set of four Source Four PAR lenses (VNSP, NSP, MFL, WFL)
400PTH3	Top hat, 3"
400PTH6	Top hat, 6"
400PHH	Half hat
400XBTH	Cross baffle top hat
400PGE3	Gel extender, 3"
400PGE6	Gel extender, 6"
400BD	Barn Door
400L	Egg crate louver
400WB	Weighted base

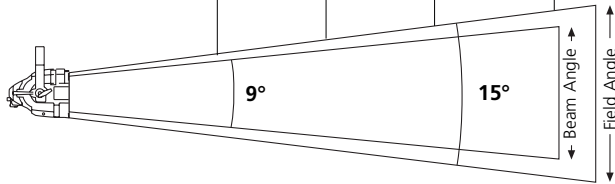
Note: For colors other than black or white, please call ETC



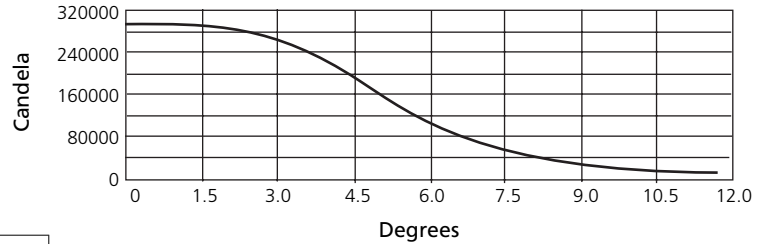
PHOTOMETRIC DATA

Very Narrow Spot

Distance (ft)	35	50	65	80
Field Diameter (ft)	11.0	15.7	20.4	25.1
Illumination (fc)	254	128	74	49



Candlepower Distribution Curve



VNSP

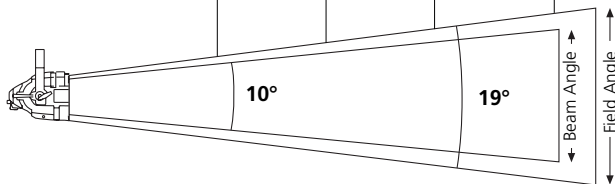
Degree	Candlepower	Field Lumens	Efficacy	Efficiency
VNSP	311,000	7,010	9.3 LPW	42%

For Field diameter at any distance, multiply distance by .31

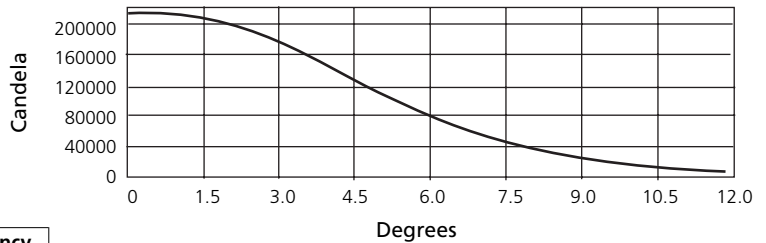
For Beam diameter at any distance, multiply distance by .17

Narrow Spot

Distance (ft)	35	45	55	65
Field Diameter (ft)	11.5	14.7	18.0	21.3
Illumination (fc)	178	108	72	52



Candlepower Distribution Curve



NSP

Degree	Candlepower	Field Lumens	Efficacy	Efficiency
NSP	218,000	7,030	9.4 LPW	45%

For Field diameter at any distance, multiply distance by .33

For Beam diameter at any distance, multiply distance by .17

Metric Conversions: For Meters multiply feet by .3048
For Lux multiply footcandles by 10.76

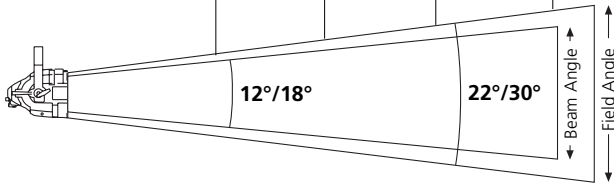
All photometric data in this document was prepared using standard production fixtures, and the Prometric™ CCD measurement system. Fixtures were adjusted for cosine distribution, and were tested with a calibrated HPL 575/115V 16,520 lamp at its rated voltage. All data were normalized to nominal lamp lumens.

To determine illumination in footcandles or lux at any throw distance, divide candlepower by distance squared.

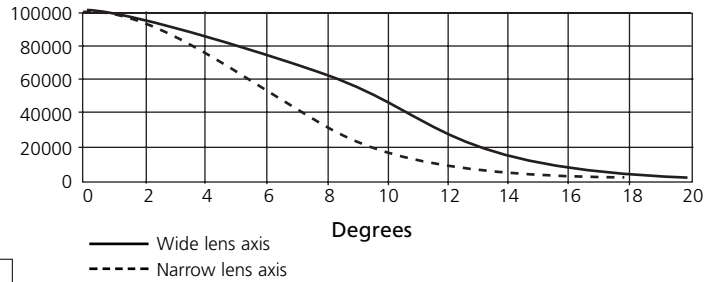
For illumination with any lamp, multiply the candlepower of a beam spread by the multiplying factor (mf) shown for that lamp.

Medium Flood

Distance (ft)	30	35	40	45
Field Diameter (ft)	11.7/16.7	13.6/19.2	15.6/22.0	17.5/24.7
Illumination (fc)	113	83	64	50



Candlepower Distribution Curve



MFL cosine

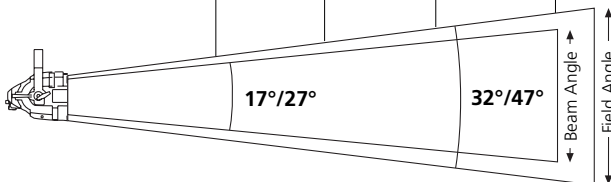
Degree	Candlepower	Field Lumens	Efficacy	Efficiency
MFL	102,000	7,140	9.5 LPW	43%

For Field diameter at any distance, multiply distance by .55 / .39

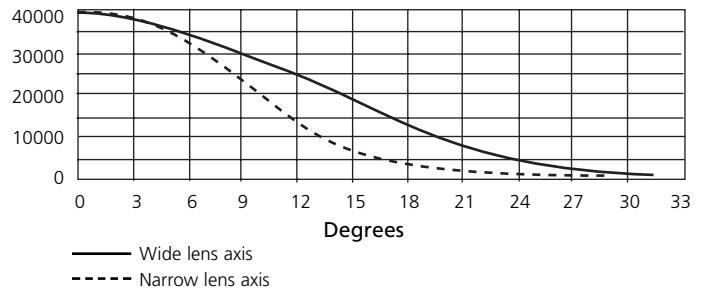
For Beam diameter at any distance, multiply distance by .32 / .21

Wide Flood

Distance (ft)	15	20	25	30
Field Diameter (ft)	8.5/13.0	11.4/17.4	14.2/21.7	17.1/26.1
Illumination (fc)	180	101	65	45



Candlepower Distribution Curve



WFL cosine

Degree	Candlepower	Field Lumens	Efficacy	Efficiency
WFL	40,500	7,750	10.3 LPW	47%

For Field diameter at any distance, multiply distance by .84 / .57

For Beam diameter at any distance, multiply distance by .49 / .30

Metric Conversions: For Meters multiply feet by .3048
For Lux multiply footcandles by 10.76

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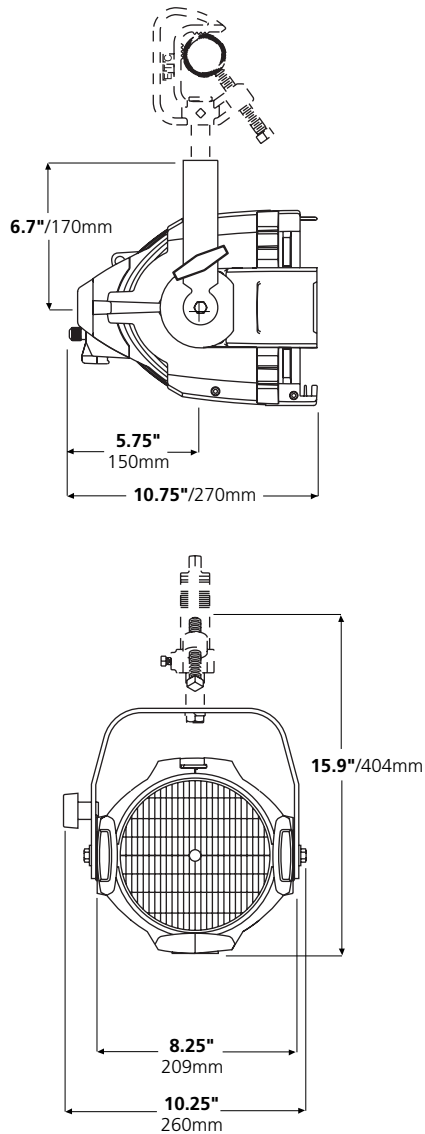
To determine illumination in footcandles or lux at any throw distance, divide candlepower by distance squared.

For illumination with any lamp, multiply the candlepower of a beam spread by the multiplying factor (mf) shown for that lamp.

Source Four® PAR MCM

PAR-MCM Series

PHYSICAL



LAMPS

Lamp code	Watts	Volts	Initial Lumens	Color Temp.	Average Rated Life	MF
HPL 575/115	575	115	16,520	3,250°	300	1.00
HPL 575/115X	575	115	12,360	3,050°	2000	0.76
HPL 575/120	575	120	16,460	3,250°	300	1.00
HPL 375/115	375	115	10,540	3,250°	300	0.63
HPL 375/115X	375	115	8,060	3,050°	1000	0.49
HPL 550/77*	550	77	16,170	3,250°	300	1.00
HPL 550/77X*	550	77	12,160	3,050°	2000	0.76
HPL 575/230	575	230	14,900	3,200°	300	0.87
HPL 575/240	575	240	14,900	3,200°	300	0.87
HPL 575/230X	575	230	11,780	3,050°	1500	0.70
HPL 575/240X	575	240	11,780	3,050°	1500	0.74
HPL 375/230X	375	230	7,800	3,050°	1000	0.47
HPL 375/240X	375	240	7,800	3,050°	1000	0.47

*77V lamps are intended for use with the ETC Dimmer Doubler™.

Warning: Use of lamps other than HPL will void UL/cUL safety approval and product warranty. Source Four PAR MCM is rated for 575W maximum.

Source Four PAR MCM Weights

Model	Fixture Weight*		Shipping Weight	
	lbs	kgs	lbs	kgs
PAR EA	7.5	3.4	12.8	5.8

*Add 2.3 lbs for C-clamp



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Source Four® products protected by U.S. Patent Numbers 5,268,613, 5,345,371, 5,544,029, 5,446,637 and 5,775,799; Japanese Patent Number 2,501,772; US and International Patents Pending.