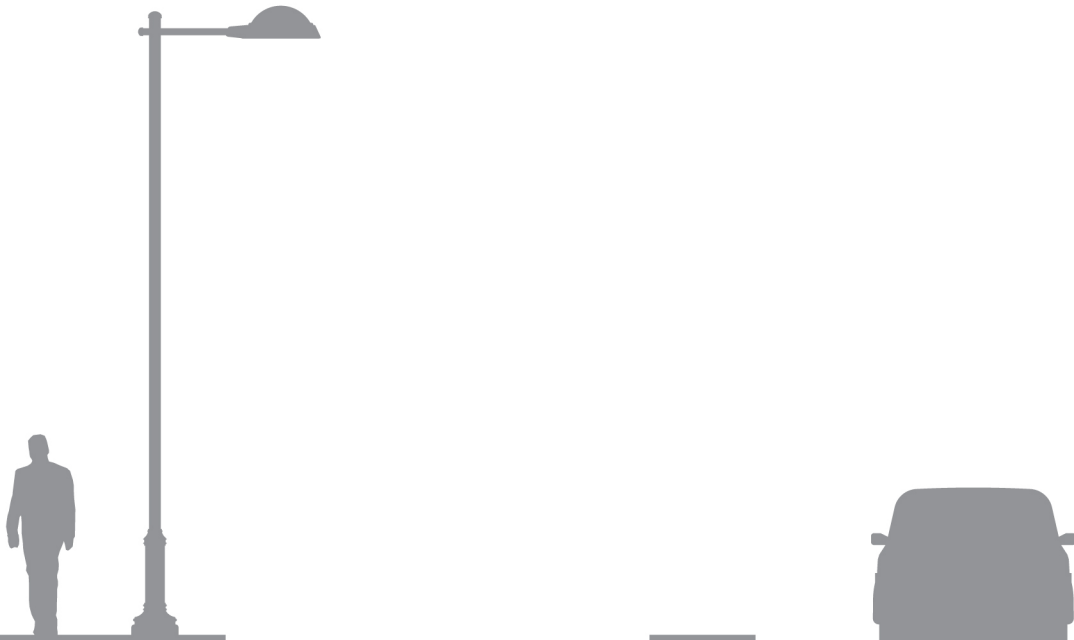
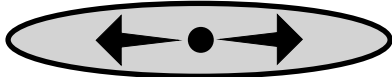


QUATTRO

PHOTOMETRIC GUIDE

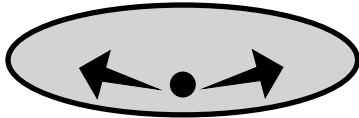


LATERAL LIGHT DISTRIBUTION



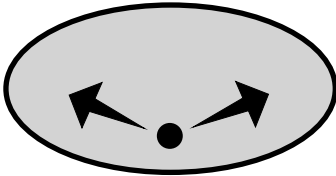
TYPE I

Pathway, bikeway and very narrow streets with a large overhang bringing the fixture completely over the street.



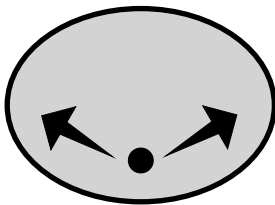
TYPE II

Narrow streets not exceeding 1.75 mounting height in width.



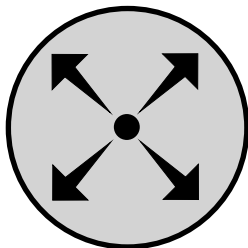
TYPE III

Streets with parking on the sides. Fixtures on both sides of the road for larger streets.



TYPE IV

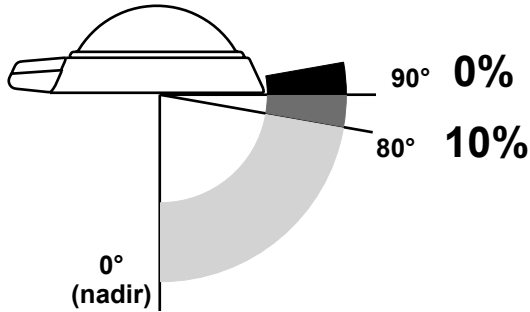
Large areas such as parking lots.



TYPE V

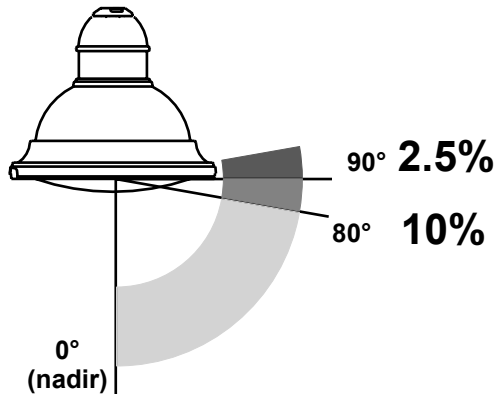
Use for large areas, parks, symmetrical application and ambient lighting.

UP-LIGHT CLASSIFICATION



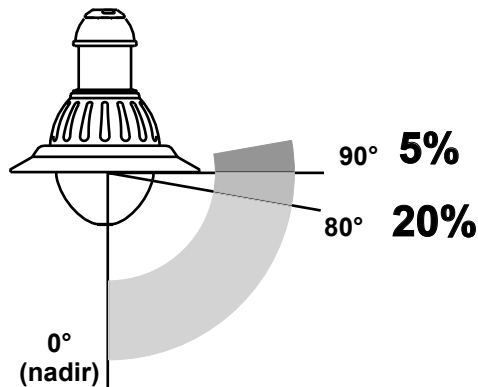
FULL CUT-OFF

No light at or over 90° above nadir
No value exceeding 10% of the maximum candlepower at or over 80° above nadir



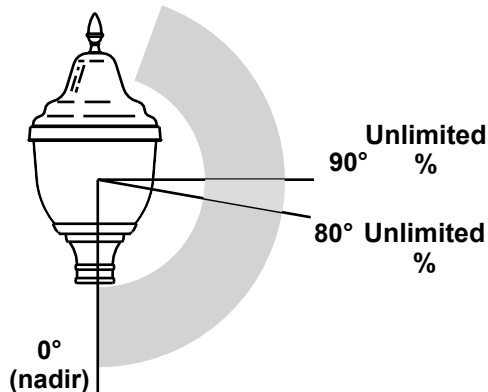
CUT-OFF

No value exceeding 2.5% of the maximum candlepower at or over 90° above nadir
No value exceeding 10% of the maximum candlepower at or over 80° above nadir



SEMI CUT-OFF

No value exceeding 5% of the maximum candlepower at or over 90° above nadir
No value exceeding 20% of the maximum candlepower at or over 80° above nadir



NON CUT-OFF

Considerable light is produced above the horizontal plane.

OCB 3 / QS

OPTICAL SYSTEM TYPE ————
LATERAL LIGHT DISTRIBUTION ———— OPTION

REFRACTORS

NO3
NO5



Non Cut-Off
Vertical lamp

Bare lamp used without optical system.

OG3
OG5



Non Cut-Off
Glass Refractor
Vertical lamp
Type III & type V

Heat resistant borosilicate glass refractor.
Available in type III & V distributions.

OGS3
OGS5



Non Cut-Off
Small Glass Refractor
Vertical lamp
Type III & type V

Heat resistant borosilicate glass refractor.
Available in type III & V distributions.

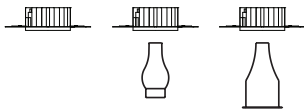
OP3
OP5



Non Cut-Off
Reflector
Vertical lamp
Type III & type V

Prismatic globe available in
acrylic (GAP) or polycarbonate (GPP)
combined to a formed reflector.
Available in type III & V distributions.

L3
L5

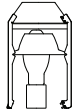


Full Cut-Off
Type III & type V

Available in type III & V distributions.
Optional: A decorative glass chimney (CH) or a silver painted spun
cone (S) can be added to give a traditional elegance.

LOUVERS

OLS3
OLS5



Semi Cut-Off
Louvers System
Vertical lamp
Type III & type V

Stacked louver system made of highly reflective aluminum.
Available in type III (asymetrical) & V (symetrical) distributions.

REFLECTORS

OV3
OV5



Semi Cut-Off
Reflector
Vertical lamp
Type III & type V

Reflector made of aluminum.

OCB1
OCB2
OCB3
OCB4



Full Cut-Off
Reflector
Horizontal lamp
Type I to IV

Semi specular hydroformed reflector made from anodized aluminum.
Optional: A decorative glass chimney (CH) or a silver painted spun
cone (S) can be added to give a traditional elegance.

ORH3
ORH5
GRH2
GRH3
QRH3



Full Cut-Off
Reflector
Horizontal lamp
Type III & type V

Facetted reflector made of highly reflective aluminum. Horizontal lamp.
Optional: A decorative glass chimney (CH) or a silver painted spun
cone (S) can be added to give a traditional elegance.

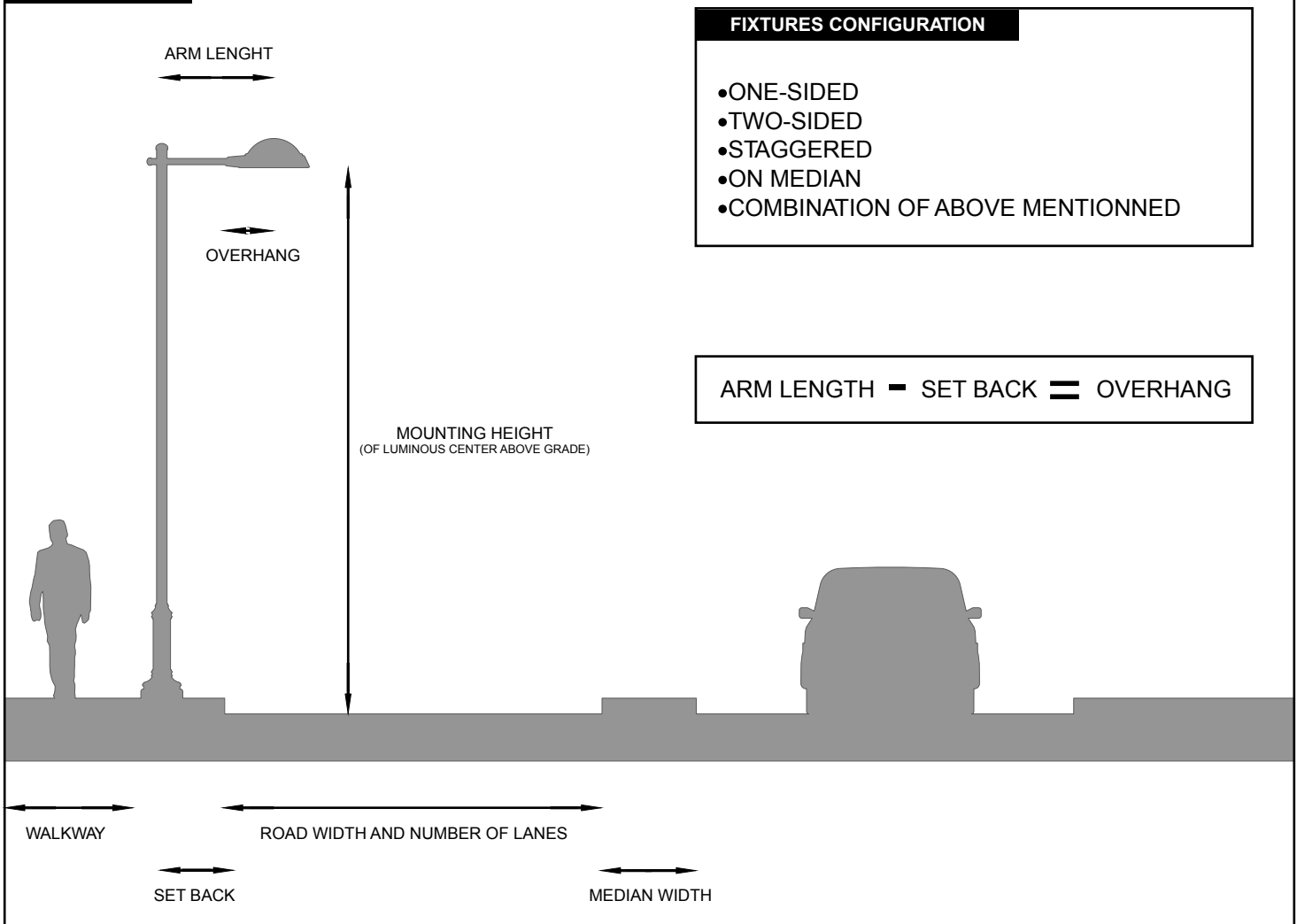
ORV3
ORV5



Semi Cut-Off
Reflector
Vertical lamp
Type III & type V

Facetted reflector made of highly reflective aluminum. Vertical lamp.
Optional: A decorative glass chimney (CH) or a silver painted spun
cone (S) can be added to give a traditional elegance.

TYPICAL LAYOUT



FIXTURES CONFIGURATION

- ONE-SIDED
- TWO-SIDED
- STAGGERED
- ON MEDIAN
- COMBINATION OF ABOVE MENTIONED

ARM LENGTH = SET BACK = OVERHANG

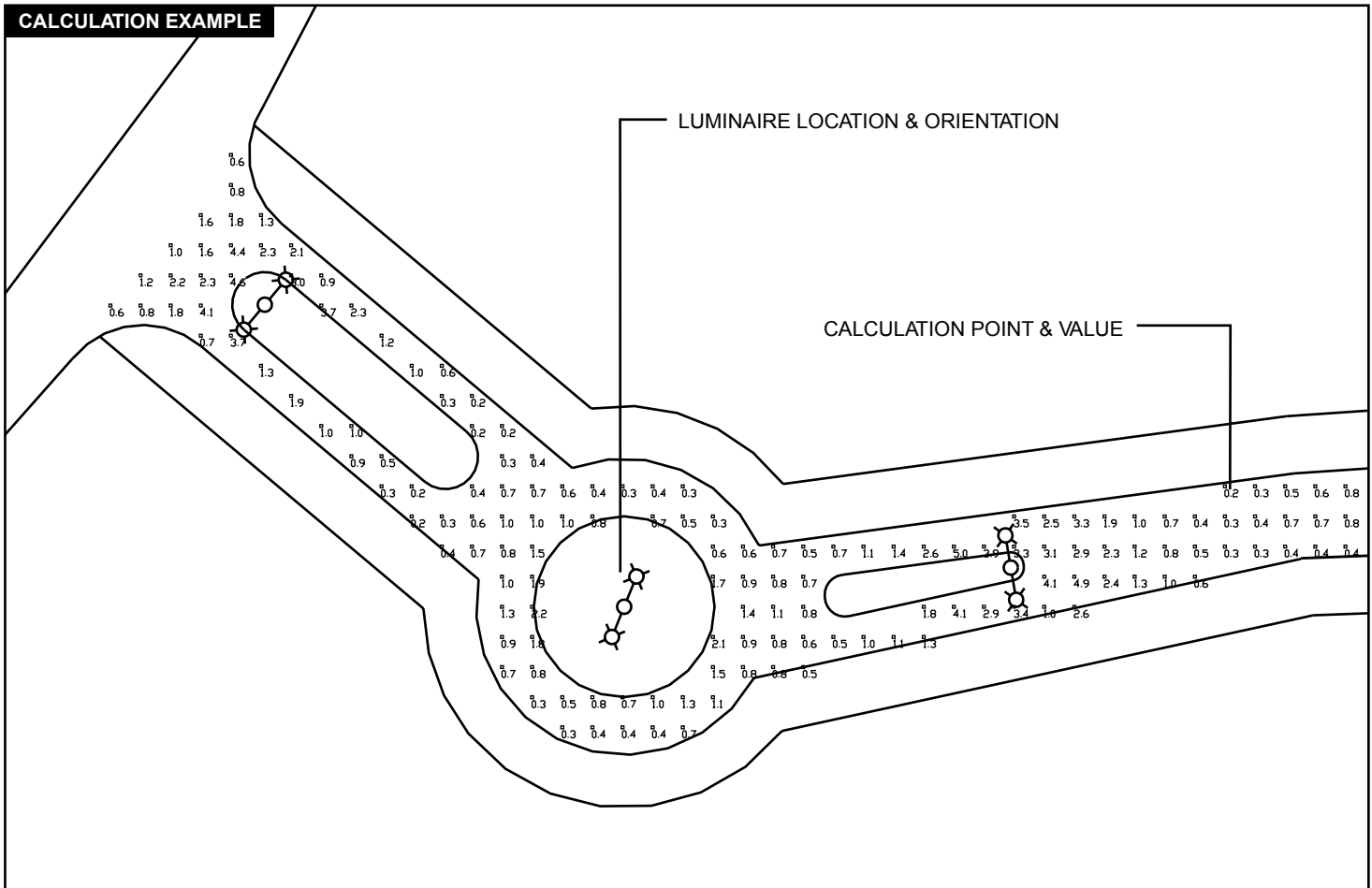
RECOMMENDED PRACTICE

Illuminance value (E_{avg}) for Roadways (in Footcandle)

Road and Area Classification		Pavement Classification	Illuminance Uniformity Ratio
		R2 & R3 (asphalt)	E_{avg} to E_{min}
Expressway	Commercial	1,4	3 to 1
	Intermediate	1,2	
	Residential	0,9	
Major	Commercial	1,7	3 to 1
	Intermediate	1,3	
	Residential	0,9	
Collector	Commercial	1,2	4 to 1
	Intermediate	0,9	
	Residential	0,6	
Local	Commercial	0,9	6 to 1
	Intermediate	0,7	
	Residential	0,4	

For approximate values in LUX, multiply by 10

CALCULATION EXAMPLE



SUMMARY EXAMPLE

QUANTITY OF FIXTURES
 MAINTENANCE FACTOR
 FLUX FOR EACH FIXTURE

Luminaire Schedule							
Project:							
Symbol	Qty	Label	Arrangement	Lumens	LLF	Description	Watts
⊗-○-⊗	3	PR0800-DRV3-DOUBLE	BACK-BACK	16000	0.720	2.5ft arm,	150

Numeric Summary							
Project:							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
LAYOUT	Illuminance	Fc	1.40	2.82	0.47	3.00	6.00

ILLUMINANCE AVERAGE VALUE

AVERAGE TO MINIMUM UNIFORMITY RATIO