

job name:
 type:

12" yo.yo™ spec sheet 90CRI

material

housing

three-piece precision CNC spun .063" aluminum. select from 15 standard powder coat paints listed below.

bottom diffuser

.125" gloss white acrylic.

LED module

two COB light engines in 2700K, 3000K, 3500K, or 4000K. (call factory for 5000K) (90+ cri standard). under normal operating conditions, the LEDs employed are rated for >50,000hrs L70 (6.8K) per IES TM-21 from LM-80 test data.

driver

integral, programmable, UL class P, class 2, universal input (120-277v), constant current, 0-10v dimming, 1% minimum dimming level, PF >.9, THD <20%, protections include open and short circuit, overload and over temperature. (dual circuit dimming optional) (requires second power cord)

mounting

5"dia. spun steel canopy in satin white with 6ft stainless steel cable tripod and field adjustable grippers that allow for exact AFF mounting heights. or select 12ft adjustable suspension. (drawing below)

finish

select from standard powder coat paint finishes or specify RAL# for custom colors.

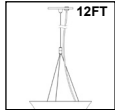
emergency

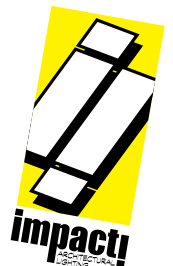
recommend use of inverter (by other).

optional WREM: wired for remote EM battery (by other). 2nd power cord required.



catalog number

P5012						
size	indirect LED		direct LED		painted finish	power cord
P5012 12"dia X 8"ht	CCT lumens	CCT lumens	CCT lumens	CCT lumens	AP anodized paint	WHPC white power cord and canopy
see page 2 for info on P5016	27 2700K FX 720 lm	27 2700K FX 485 lm	30 3000K LO 1170 lm	30 3000K LO 850 lm	BS brass	BKPC black power cord and canopy
	35 3500K HI 1985 lm	35 3500K HI 1095 lm	40 4000K	40 4000K	BU blue	SBPC silver braid power cord and white canopy
					BZ bronze	
					CP champagne	
					FB flat black	
					GM gun metal	
					MB military blue	
					MW matte white	
					OR orange	
					RD red	
					SB satin black	
					SS satin silver	
					TG textured gray	
					YO yellow	
					premium finish	
					RAL specify RAL#	
						options
						6FT 72" cable
						12FT 12ft adjustable suspension
						DCDM dual circuit wiring on dimming direct/indirect (requires 2nd power cord)
						WREM wired for remote EM battery pack (by other) (see note above)
						



job name:
 type:

16" yo.yo™ spec sheet 90CRI

material
housing
 three-piece precision CNC spun .063" aluminum. select from 15 standard powder coat paints listed below.
bottom diffuser
 .125" gloss white acrylic.

LED module
 two COB light engines in 2700K, 3000K, 3500K, or 4000K. (call factory for 5000K) (90+ cri standard). under normal operating conditions, the LEDs employed are rated for >50,000hrs L70 (6.8K) per IES TM-21 from LM-80 test data.

driver
 integral, programmable, UL class P, class 2, universal input (120-277v), constant current, 0-10v dimming, 1% minimum dimming level, PF >.9, THD <20%, protections include open and short circuit, overload and over temperature.

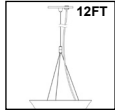
mounting
 5"dia. spun steel canopy in satin white with 6ft stainless steel cable tripod and field adjustable grippers that allow for exact AFF mounting heights. or select 12ft adjustable suspension. (drawing below)

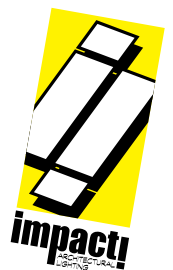
finish
 select from standard powder coat paint finishes or specify RAL# for custom colors.

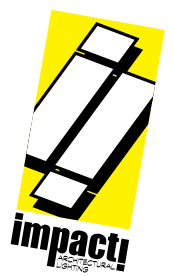
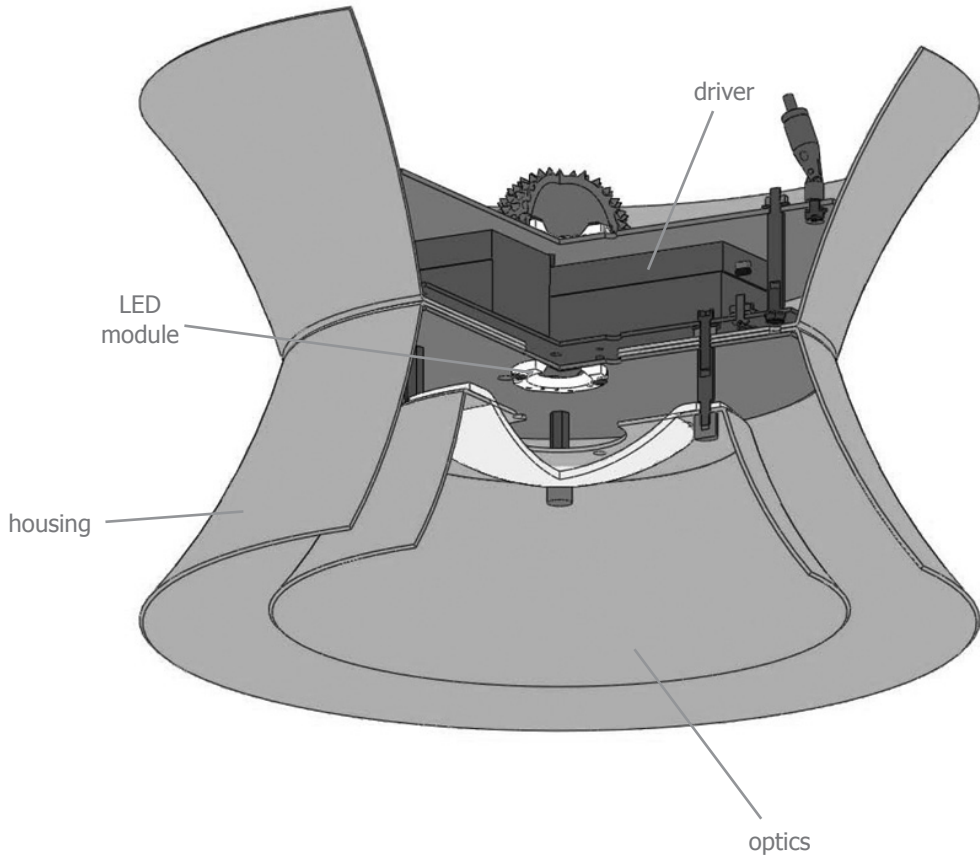
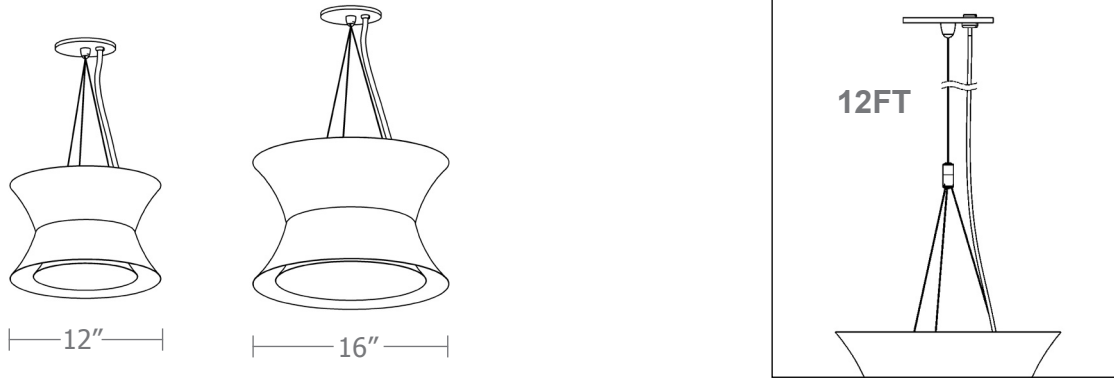
emergency
 recommend use of inverter (by other).
 optional WREM: wired for remote EM battery (by other). 2nd power cord required.



catalog number

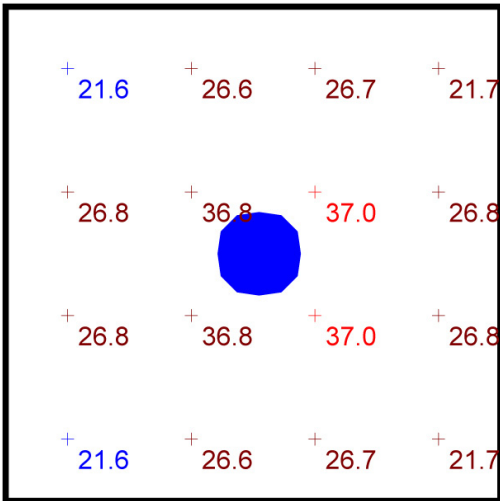
P5016						
size P5016 16.25"dia X 10.25"ht	indirect LED CCT lumens 27 2700K FX 720 lm 30 3000K LO 1805 lm 35 3500K HI 2980 lm 40 4000K	direct LED CCT lumens 27 2700K FX 485 lm 30 3000K LO 970 lm 35 3500K HI 1340 lm 40 4000K	painted finish AP anodized paint BS brass BU blue BZ bronze CP champagne FB flat black GM gun metal MB military blue MW matte white OR orange RD red SB satin black SS satin silver TG textured gray YO yellow	power cord WHPC white power cord and canopy BKPC black power cord and canopy SBPC silver braid power cord and white canopy	options 6FT 72" cable 12FT 12ft adjustable suspension DCDM dual circuit wiring on dimming direct/indirect (requires 2nd power cord) WREM wired for remote EM battery pack (by other) (see note above)	
			premium finish RAL specify RAL#			





Quick Calc Typical Lighting Layout

- 8' x 8' x 10'H space
- 80/50/20 reflectances
- bottom of fixture at 8' aff
- FC readings at 2.5' aff
- layout conducted using P5012 HI-HI 90 CRI package providing 3080 delivered lumens

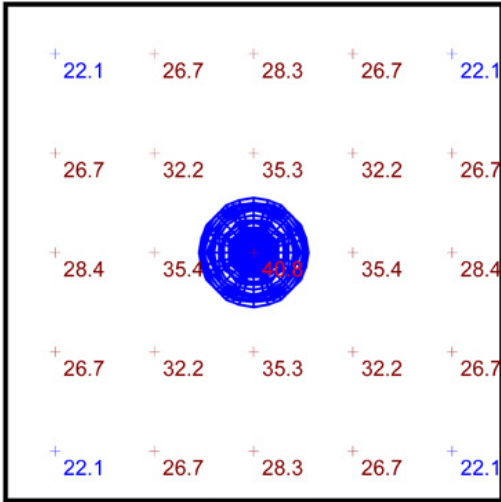


Plan View
Scale - 1" = 2ft

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
yo.yo	+	21.0 fc	28.1 fc	16.1 fc	1.7:1	1.3:1

Advanced Calculation Typical Lighting Layout

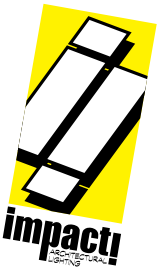
- 8' x 8' x 10'H space
- 80/50/20 reflectances
- 90 CRI
- bottom of fixture at 8' aff (lensed bottom)
- FC readings at 2.5' aff
- layout conducted using separate indirect and direct photometric files P5016 HI-HI 90 CRI package providing 2980 indirect and 1340 direct delivered lumens.



Plan View
Scale - 1" = 2ft

Schedule					
Quantity	Manufacturer	Catalog Number	Description	Lamp	Wattage
1	Impact Architectural Lighting	P5016 40 HI NDL- indirect component ONLY	Indirect light component ONLY for pendant yo.yo	4000k 90cri LED	30
1	Impact Architectural Lighting	P5016 40HI NUL direct component ONLY	Direct light component ONLY for pendant yo.yo	4000k 90cri LED	21

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
yo.yo	+	28.0 fc	37.0 fc	21.6 fc	1.7:1	1.3:1



Quick Calc Table

Tests indicated below are a combination of direct and indirect. LLF are as close as possible.

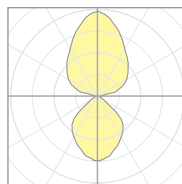
for more detailed calculations see table on next page.

Cat No	Indirect Delivered* Lumens	Direct Delivered* Lumens	Watts 120V / 277V	IES File #	LLF to be applied
P5012 FX FX	720	485	16	20200	.41
P5012 LO LO	1170	850	27	20200	.68
P5012 HI HI	1985	1095	42	20200	1.04
P5016 FX FX	720	485	16	20693	.30
P5016 LO LO	1805	970	37	20693	.68
P5016 HI HI	2980	1340	57	20693	1.06

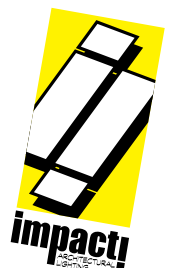
*delivered lumens based on 4000K, 90+ cri

The application of a Light Loss Factor is required to:

- match the lumen output for the power module specified
- incorporate the increased lumen output due to LED/Driver upgrades



20200
P5012-40HI-40HI



Advanced Calculation Table

Tests are for each element separately and must be "stacked" to represent single fixture
Consult factory for applications assistance

Indirect

Cat No	Delivered* Lumens	Watts 120V/277V	IES File #	LLF to be applied
P5012	FX 720	8	20694	.38
P5012	LO 1170	13	20694	.38
P5012	HI 1985	23	20694	.38

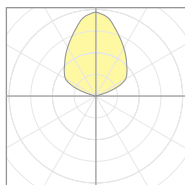
P5016	FX 720	8	20691	.25
P5016	LO 1805	21	20691	.62
P5016	HI 2980	34	20691	1.02

Direct

Delivered* Lumens	Watts 120V/277V	IES File #	LLF to be applied
FX 720	8	20695	.52
LO 850	14	20695	.92
HI 1095	19	20695	1.18

FX 485	8	20692	.40
LO 970	16	20692	.80
HI 1340	23	20692	1.10

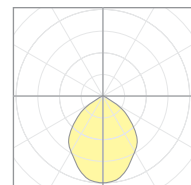
*delivered lumens based on 4000K, 90+ cri



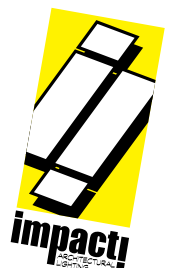
20691
P5016-40HI-NDL

The application of a Light Loss Factor is required to:

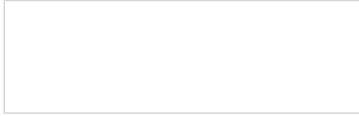
- match the lumen output for the power module specified
- incorporate the increased lumen output due to LED/Driver upgrades



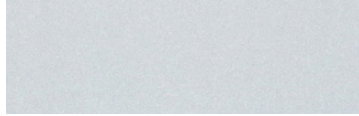
20692
P5016-NUL-40HI



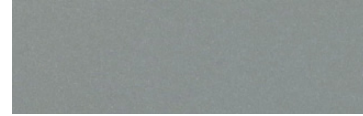
Powder Coat Paint Finishes



MW matte white



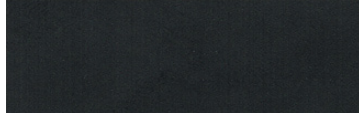
AP anodized paint



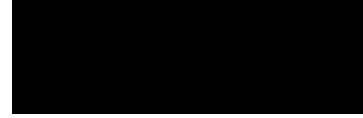
SS satin silver



TG textured gray



FB flat black



SB satin black



CP champagne



BZ bronze



GM gun metal



OR orange 2011



BU blue 5017



BS brass



RD red 3020



YO yellow 1018



MB military blue

For accurate color verification, actual finish samples are available upon request.

Premium Finishes*



RAL#

*Available on select series. Consult product submittal for availability.

