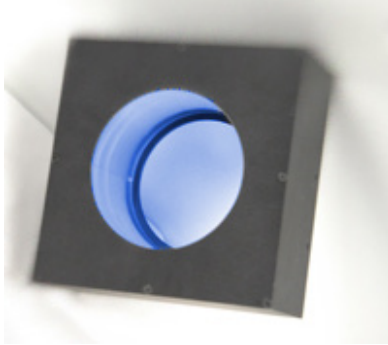


MetaLight™ 3 - Ring Off-Axis Ring Light Model#: TOARL241



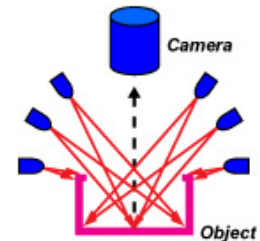
- Horizontal Plane of Light
- Useful for Highlighting Surface Defects
- Illuminates Specular Surfaces
- Configurable for Wavelength
- Economical, High Power
- Additional Ring at larger incident angle for flexible illumination

Part #	Color	Power Supply	Specifications:
TOARL241-W-24	White 5500K	24 volt power supply available upon request.	Current Consumption 0.4A
TOARL241-R-24	Red 630nm		Individual Ring Draw 0.2A
TOARL241-B-24	Blue 455nm		Housing Anodized Aluminum
TOARL241-G-24	Green 530nm		Intensity Uniformity +/-5%
TOARL241-IRN-24	Infrared 850nm		Operating Temperature 120° F Max
TOARL241-IRL-24	Infrared 880nm		Compliance CE/RoHS
TOARL241-UVL-24	UV 395nm		Lifetime Hours 75,000 Hours
TOARL241-UVS-24	UV 365nm		

10 ft. flying leads come standard on all products.
Light features built-in constant current driver.
No expensive controller required.

Angle of LED Rings

TOP RING - 45°
CENTER RING - 20°
BOTTOM RING - 20°



Active Area	Dimensions
Ø4.44in Aperture	L: 7in / 177.8mm
Ø112.7mm Aperture	W: 7in / 177.8mm
	H: 2.5in / 63.4mm

ORDERING INFORMATION:

• T O A R L 2 4 1 - - 2 4 -

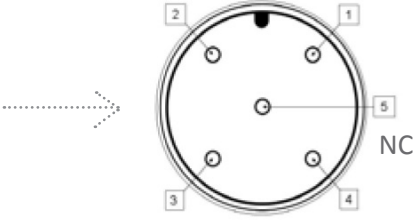
W	White 5500k	*BLANK	10 ft. Flying Leads
R	Red 630nm	T	M12 Quick Disconnect
G	Green 530nm	ILD	In Line Dimmer
B	Blue 455 nm	ILS	In Line Strobe (customer provide trigger info)
IRL	Infrared 880nm		
UVL	(long) 395nm		
UVS	(short) 365nm		

MetaLight™ 3 - Ring Off-Axis Ring Light Model#: TOARL241

Wiring Diagram

M12 Connector

PIN #	Function
1	+24VDC
2	0-10VDC Intensity Control
3	Ground
4	Signal Ground



Flying Leads	Function
RED	+24VDC
BLACK	Ground
WHITE	+24VDC
GREEN	Ground

24 AWG 4 WIRES CABLE X 1
When not using intensity control, connect 0-10V control line to +24 (Max Intensity Control = 25V) and intensity control ground to ground

Drawing/Diagram

ELECTRICAL CABLE, 10 FT LG (4) CONDUCTOR, 22 AWG WITH FLYING LEAD WIRE ENDS

#8-32 UNC X 3/16 DP (4) PLACES

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED
	C	REDRAWN IN SOLIDWORKS, KW	4/30/2012	

<p>UNLESS OTHERWISE SPECIFIED:</p> <p>DIMENSIONS ARE IN INCHES</p> <p>TOLERANCES:</p> <p>FRACTIONALS ±1/64</p> <p>ANGULAR: MINUS ±1/2° MINUS ±1°</p> <p>TWO PLACE DECIMAL ±.01</p> <p>THREE PLACE DECIMAL ±.005</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>NAME</td> <td>DATE</td> <td>METAPHASE TECHNOLOGIES, INC.</td> </tr> <tr> <td>DRAWN</td> <td>KW</td> <td>4/25/2012</td> </tr> <tr> <td>CHECKED</td> <td></td> <td>TITLE:</td> </tr> <tr> <td>ENG APPR.</td> <td></td> <td>TRIPLE OFF AXIS RING LIGHT, 4 INCH</td> </tr> <tr> <td>MFG APPR.</td> <td></td> <td></td> </tr> <tr> <td>Q.A.</td> <td></td> <td></td> </tr> <tr> <td>COMMENTS:</td> <td></td> <td></td> </tr> </table>	NAME	DATE	METAPHASE TECHNOLOGIES, INC.	DRAWN	KW	4/25/2012	CHECKED		TITLE:	ENG APPR.		TRIPLE OFF AXIS RING LIGHT, 4 INCH	MFG APPR.			Q.A.			COMMENTS:		
NAME	DATE	METAPHASE TECHNOLOGIES, INC.																				
DRAWN	KW	4/25/2012																				
CHECKED		TITLE:																				
ENG APPR.		TRIPLE OFF AXIS RING LIGHT, 4 INCH																				
MFG APPR.																						
Q.A.																						
COMMENTS:																						

TOARL241	INTERPRET GEOMETRIC TOLERANCING PER:	FINISH	SCALE: 1:2
NEXT ASSY	USED ON	APPLICATION	WEIGHT:
		DO NOT SCALE DRAWING	SHEET 1 OF 1

PROPRIETARY AND CONFIDENTIAL

THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF METAPHASE TECHNOLOGIES, INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF METAPHASE TECHNOLOGIES, INC. IS PROHIBITED.