

## “OPTIMA” TRI-PROOF (IP66) LIGHT (Model : TPCO)

### FEATURES:

- Replaces a set of conventional 1x36W, 2X36W fluorescent tubes with tri-proof casing
- Applications: Outdoor, carpark, food processing factories, warehouses, etc.
- High efficiency Samsung LED (LM80 compliant)
- 90-305Vac: Wide input voltage range that protects lamps against voltage fluctuations
- 2 kV surge protection: Protection against transient voltage
- Polycarbonate housing (diffuser, body and clips). Optional stainless steel clips
- Optional emergency battery pack
- 40,000 hours design life



### SPECIFICATIONS\*:

PARAMETERS	TPCO-180	TPCO-360	TPCO-720
System Power	18W	36W	72W
LED	Samsung		
Color Temperature (CCT)	3000K, 4000K, 5700K, 6500K (standard model)		
CRI	>80 Ra		
Luminous Flux	2000 lumens	4000 lumens	8000 lumens
Luminous efficacy	>110 lumens/W		
Input Voltage	90-305 VAC, 50/60 Hz		
Power Factor	>0.95		
Power Supply Efficiency	>90%		
Surge Protection	2 kV		
Dimming	Non-dimmable		
Emergency Backup	Optional emergency battery pack		
Beam Angle	110 Degrees		
Design Life	40,000 hours		
Work Temperature	- 25 ~ 40 °C		
Material	Polycarbonate (diffuser, housing and clips). Optional stainless steel clips		
Ingress Protection	IP66		
Product Size	L665 x W86 x H75 mm	L1275 x W86 x H75 mm	L1275 x W118 x H75 mm
Carton Size	L680 x W90 x H80 mm	L1310 x W90 x H80 mm	L1310 x W125 x H80 mm
Net Weight	1.1kg	1.7kg	2.9kg
Gross Weight	1.2kg	1.9kg	3.2kg

\*Specifications are subject to changes without notice.

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Date: 2017.03.21

Title: CLARO “OPTIMA” TRI-PROOF (IP66) LIGHT

Model: TPCO

SHEET No: 1 of 5

Version: 4.2

## “OPTIMA” TRI-PROOF (IP66) LIGHT (Model : TPCO)



PRODUCT PHOTOS:



ORDERING INFORMATION: e.g., TPCO-36065N-80110-12

Series	Wattage	Color Temperature (CCT)	Dimming	CRI	Beam Angle (deg)	Length
TPCO	180 18W	30 3000K	N Non-dimmable	80 Ra 80	110 110 Degrees	06 665mm (2ft)
	360 36W	40 4000K				12 1265mm (4ft)
	720 72W	57 5700K	D Dimmable			
		65 6500K				

## “OPTIMA” TRI-PROOF (IP66) LIGHT (Model : TPCO)



### PHOTOMETRIC TEST REPORT: 72W

**Filename: TPCO-720 v2.0**

Manufacturer: Claro Research (Shenzhen) Co., Ltd.

Luminaire: CLARO 72W Triproof Light

Luminaire Cat: TPCO-720

Lamp Output: Total luminaire Lumens: 8412.4

Max Candela: 2,784.8 at Horizontal: 120°, Vertical: 0°

Input Wattage: 73

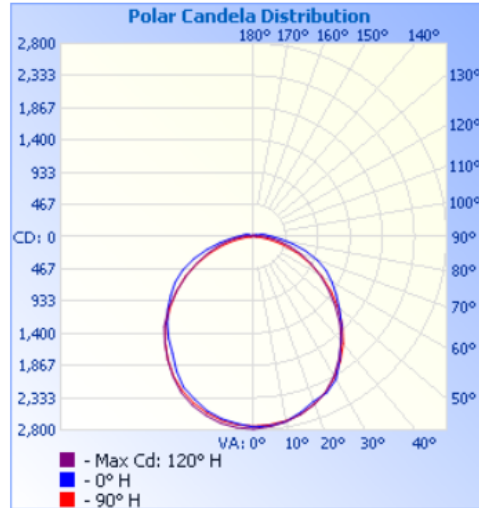
Luminous Opening: Rectangle w/Luminous Sides (L: 1.24M, W: 0.15M, H: 0.1M)

Test Date: 2016-12-23

Photometry : Type C

Cutoff Class: Semicutoff

Nema Type: 7 X 7

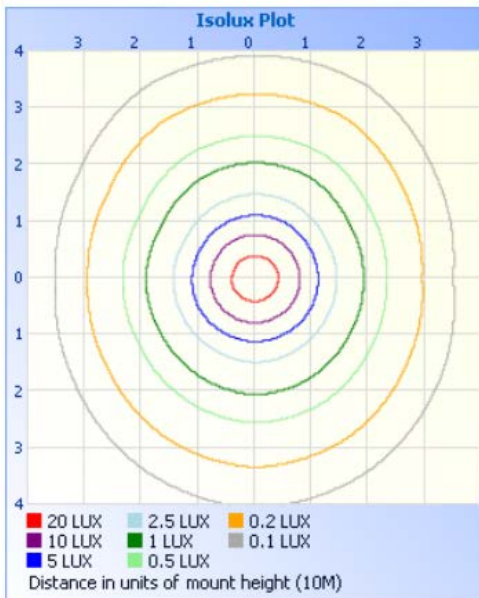


**Flood Summary**

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	94.7%	7,968.2	159.3	178.3
Beam (50%):	65.8%	5,533.5	109.1	114.7
Total:	100%	8,413.7		

**Zonal Lumen Summary**

Zone	Lumens	% Luminaire
0-30	2,130.9	25.3%
0-40	3,474.9	41.3%
0-60	6,090.7	72.4%
60-90	1,968.3	23.4%
70-100	1,136.3	13.5%
90-120	283.4	3.4%
0-90	8,059.0	95.8%
90-180	353.4	4.2%
0-180	8,412.4	100%



**Illuminance at a Distance**

	Center Beam LUX	Beam Width	
8.33M	39.7 LUX	26.00 M	23.40 M
16.67M	9.92 LUX	52.00 M	46.79 M
25.00M	4.41 LUX	77.99 M	70.19 M
33.33M	2.48 LUX	103.99 M	93.58 M
41.67M	1.59 LUX	129.99 M	116.98 M
50.00M	1.10 LUX	155.99 M	140.38 M

Legend:  
 - Vert. Spread: 114.7°  
 - Horiz. Spread: 109.1°

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Title: CLARO “OPTIMA” TRI-PROOF (IP66) LIGHT

Model: TPCO

SHEET No: 3 of 5

Version: 4.2

## “OPTIMA” TRI-PROOF (IP66) LIGHT (Model : TPCO)



### PHOTOMETRIC TEST REPORT: 36W

**Filename: TPCO-360 v2.0**

Manufacturer: Claro Research (Shenzhen) Co., Ltd.

Luminaire: CLARO 36W Triproof Light

Luminaire Cat: TPCO-360

Lamp Output: Total luminaire Lumens: 4189.4

Max Candela: 1,386.8 at Horizontal: 120°, Vertical: 0°

Input Wattage: 35.6

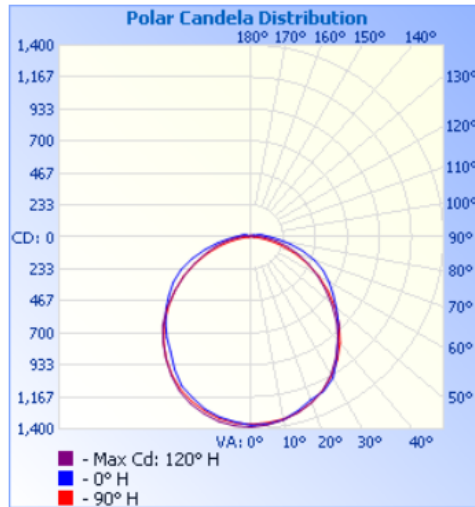
Luminous Opening: Rectangle w/Luminous Sides (L: 1.24M, W: 0.1M, H: 0.1M)

Test Date: 2016-12-23

Photometry : Type C

Cutoff Class: Semicutoff

Nema Type: 7 X 7

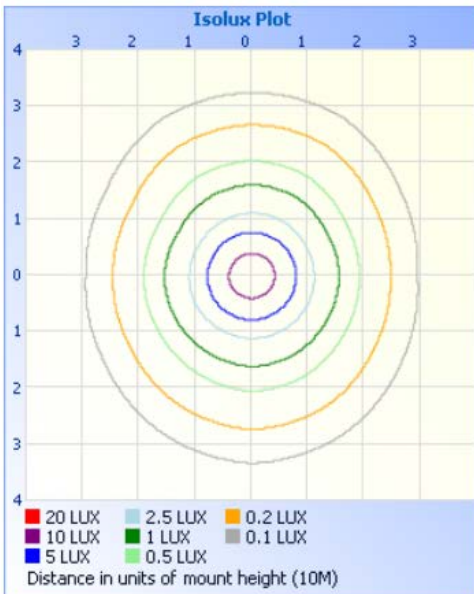


**Flood Summary**

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	94.7%	3,968.2	159.3	178.3
Beam (50%):	65.8%	2,755.7	109.1	114.7
Total:	100%	4,190.0		

**Zonal Lumen Summary**

Zone	Lumens	% Luminaire
0-30	1,061.2	25.3%
0-40	1,730.5	41.3%
0-60	3,033.2	72.4%
60-90	980.2	23.4%
70-100	565.9	13.5%
90-120	141.1	3.4%
0-90	4,013.4	95.8%
90-180	176.0	4.2%
0-180	4,189.4	100%



**Illuminance at a Distance**

	Center Beam LUX	Beam Width	
8.33M	19.8 LUX	26.00 M	23.40 M
16.67M	4.94 LUX	52.00 M	46.79 M
25.00M	2.20 LUX	77.99 M	70.19 M
33.33M	1.24 LUX	103.99 M	93.58 M
41.67M	0.79 LUX	129.99 M	116.98 M
50.00M	0.55 LUX	155.99 M	140.38 M

■ Vert. Spread: 114.7°  
■ Horiz. Spread: 109.1°

## “OPTIMA” TRI-PROOF (IP66) LIGHT (Model : TPCO)



### PHOTOMETRIC TEST REPORT: 18W

**Filename: TPCO-180 v2.0**

Manufacturer: Claro Research (Shenzhen) Co., Ltd.

Luminaire: CLARO 18W Triproof Light

Luminaire Cat: TPCO-180

Lamp Output: Total luminaire Lumens: 2043.6

Max Candela: 676.5 at Horizontal: 120°, Vertical: 0°

Input Wattage: 17.5

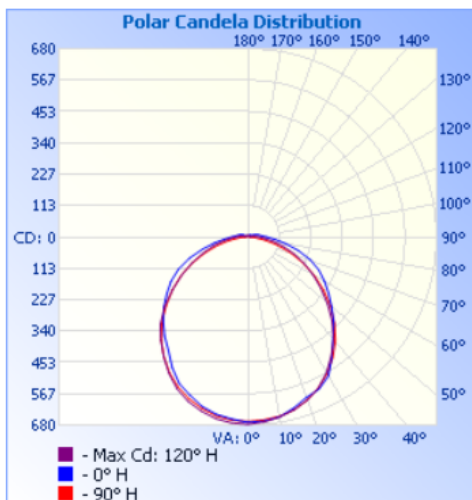
Luminous Opening: Rectangle w/Luminous Sides (L: 0.65M, W: 0.1M, H: 0.1M)

Test Date: 2016-12-23

Photometry : Type C

Cutoff Class: Semicutoff

Nema Type: 7 X 7

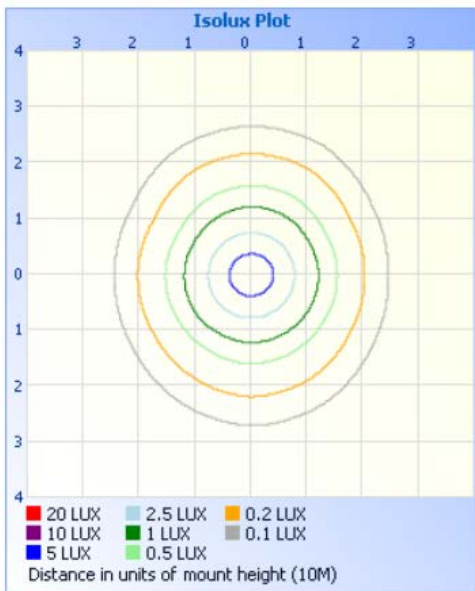


**Flood Summary**

	Efficiency	Lumens	Horizontal Spread	Vertical Spread
Field (10%):	94.7%	1,935.7	159.3	178.3
Beam (50%):	65.8%	1,344.2	109.1	114.7
Total:	100%	2,043.9		

**Zonal Lumen Summary**

Zone	Lumens	% Luminaire
0-30	517.6	25.3%
0-40	844.1	41.3%
0-60	1,479.6	72.4%
60-90	478.1	23.4%
70-100	276.0	13.5%
90-120	68.8	3.4%
0-90	1,957.7	95.8%
90-180	85.8	4.2%
0-180	2,043.6	100%



**Illuminance at a Distance**

	Center Beam LUX	Beam Width	
8.33M	9.64 LUX	26.00 M	23.40 M
16.67M	2.41 LUX	52.00 M	46.79 M
25.00M	1.07 LUX	77.99 M	70.19 M
33.33M	0.60 LUX	103.99 M	93.58 M
41.67M	0.39 LUX	129.99 M	116.98 M
50.00M	0.27 LUX	155.99 M	140.38 M

Legend:  
■ Vert. Spread: 114.7°  
■ Horiz. Spread: 109.1°