

TINA3-S

~13° spot beam optimized for CREE XP-E.
Assembly with holder, installation tape and
location pins.

SPECIFICATION:

| | |
|----------------|-----------|
| Dimensions | Ø 16.1 mm |
| Height | 11.4 mm |
| Fastening | tape, pin |
| ROHS compliant | yes ⓘ |

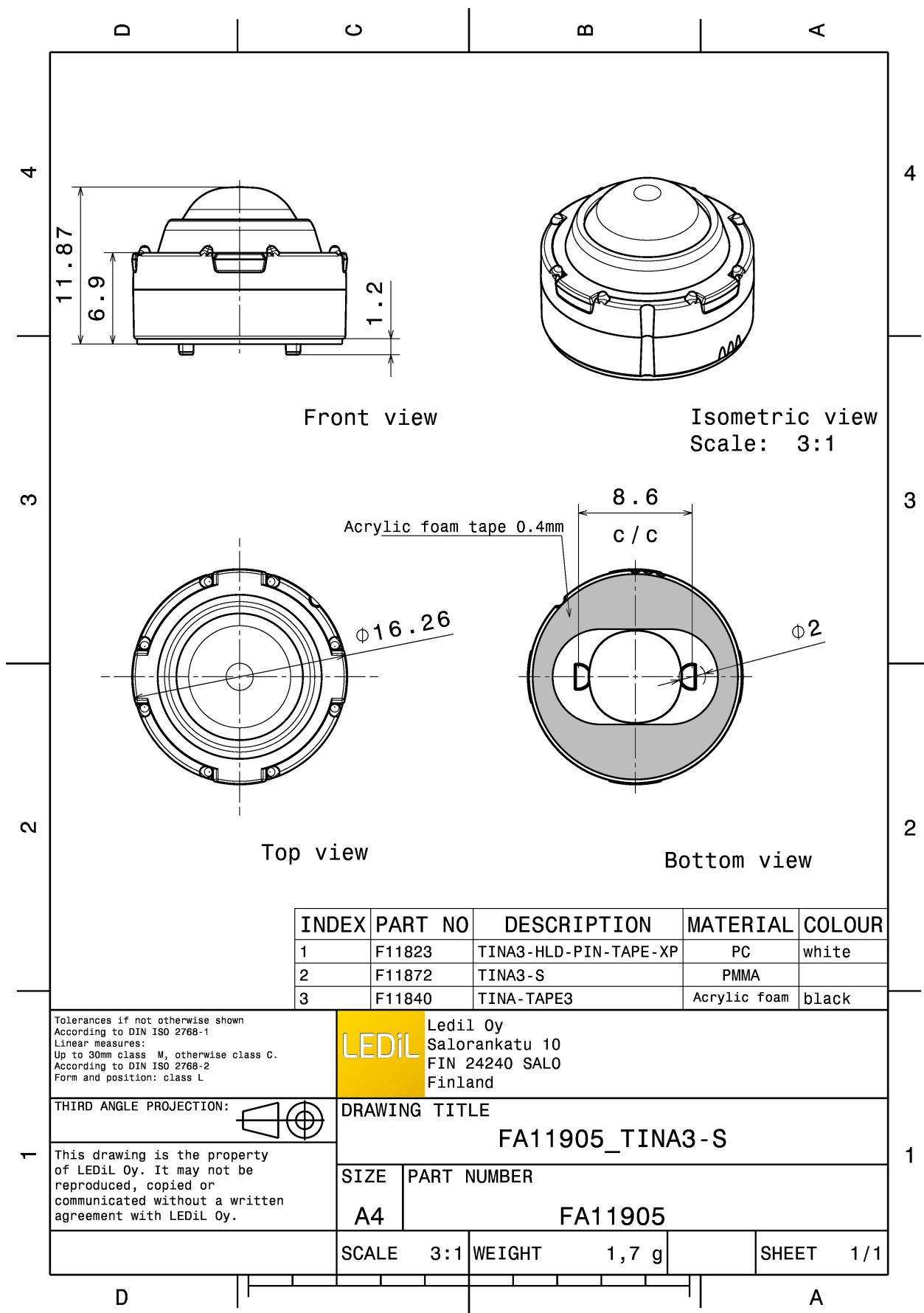


MATERIALS:

| Component | Type | Material | Colour | Finish |
|-----------------------|-------------|--------------|--------|--------|
| TINA3-S | Single lens | PMMA | clear | |
| TINA3-HLD-PIN-TAPE-XP | Holder | PC | white | |
| TINA-TAPE3 | Tape | Acrylic foam | black | |

ORDERING INFORMATION:

| Component | | Qty in box | MOQ | MPQ | Box weight (kg) |
|-----------------|-------------|------------|-----|-----|-----------------|
| FA11905_TINA3-S | Single lens | 2016 | 288 | 288 | 3.7 |
| » Box size: | | | | | |

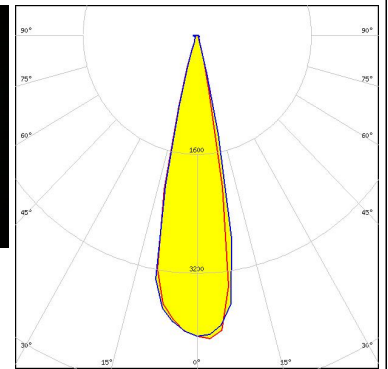


See also our general installation guide: www.ledil.com/installation_guide

OPTICAL RESULTS (MEASURED):



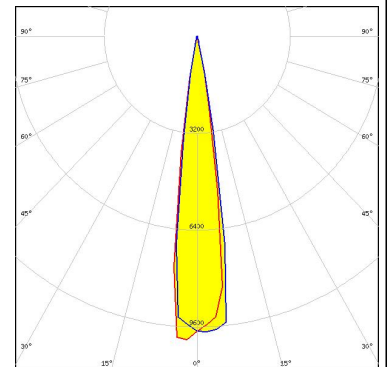
LED XM-L
FWHM / FWTM 23.0° / 30.0°
Efficiency 86 %
Peak intensity 3.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



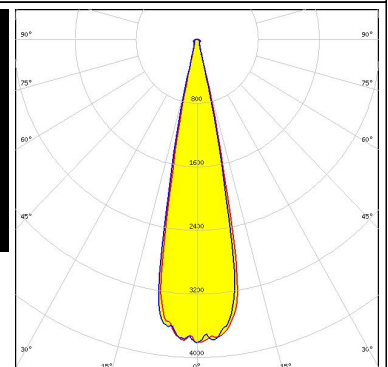
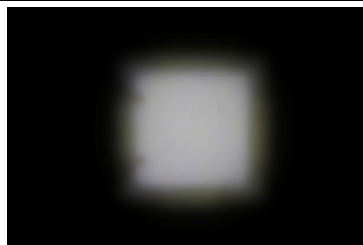
LED XP-E
FWHM / FWTM 10.0° / 16.0°
Efficiency 86 %
Peak intensity 15.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED XP-G
FWHM / FWTM 15.0° / 25.0°
Efficiency 86 %
Peak intensity 6.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



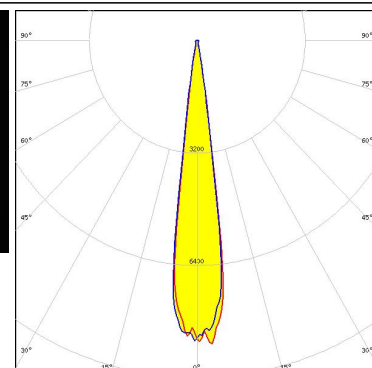
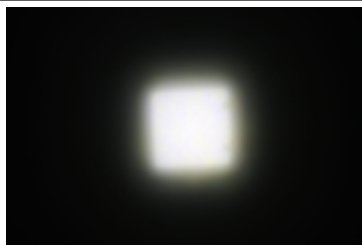
LED XP-L HD
FWHM / FWTM 23.0° / 32.0°
Efficiency 87 %
Peak intensity 3.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OPTICAL RESULTS (MEASURED):



LED XP-L HI
FWHM / FWTM 15.0° / 22.0°
Efficiency 88 %
Peak intensity 8.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED LUXEON A
FWHM / FWTM 16.0° / 23.0°
Efficiency 83 %
Peak intensity 6.7 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED LUXEON Rebel
FWHM / FWTM 11.0° / 18.0°
Efficiency 83 %
Peak intensity 12.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:

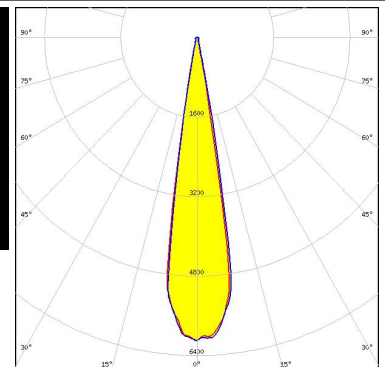


LED LUXEON Rebel ES
FWHM / FWTM 18.5° / 22.0°
Efficiency 82 %
Peak intensity 6.9 cd/lm
LEDs/each optic 1
Light colour White
Required components:

OPTICAL RESULTS (MEASURED):



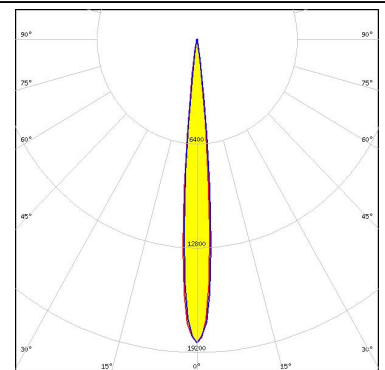
LED NVSW219F
FWHM / FWTM 18.0° / 24.0°
Efficiency 85 %
Peak intensity 6.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



LED NVSxx19A
FWHM / FWTM 16.5° / 23.0°
Efficiency 87 %
Peak intensity 6.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM Opto Semiconductors
LED OSLON SSL 150
FWHM / FWTM 9.0° / 14.0°
Efficiency 84 %
Peak intensity 18.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



OSRAM Opto Semiconductors
LED OSLON SSL 80
FWHM / FWTM 11.0° / 17.0°
Efficiency 86 %
Peak intensity 14 cd/lm
LEDs/each optic 1
Light colour White
Required components:

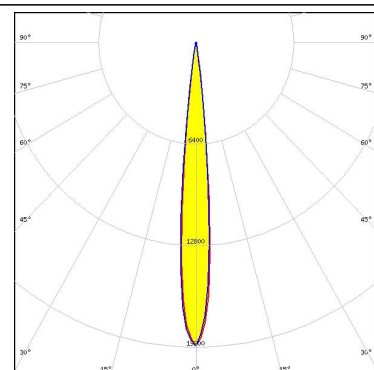
OPTICAL RESULTS (MEASURED):

| | | |
|--|---------------|--|
|  SEOUL SEMICONDUCTOR | |  |
| LED | Z5 | |
| FWHM / FWTM | 10.0° / 17.0° | |
| Efficiency | 80 % | |
| Peak intensity | 16.4 cd/lm | |
| LEDs/each optic | 1 | |
| Light colour | White | |
| Required components: | | |

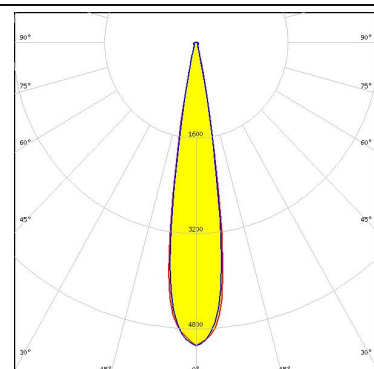
OPTICAL RESULTS (SIMULATED):



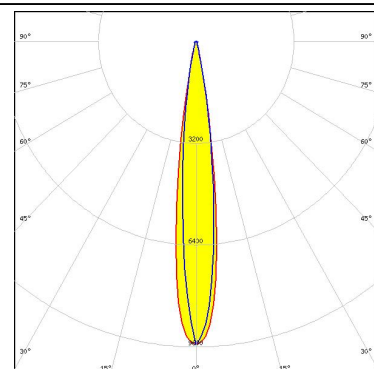
LED XP-E2
FWHM / FWTM 10.0° / 17.0°
Efficiency 92 %
Peak intensity 19.1 cd/lm
LEDs/each optic 1
Light colour White
Required components:



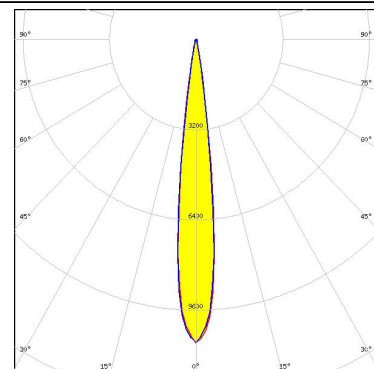
LED XP-G3
FWHM / FWTM 18.0° / 28.0°
Efficiency 78 %
Peak intensity 5.1 cd/lm
LEDs/each optic 1
Light colour Blue
Required components:



LED LUXEON 2835 Line
FWHM / FWTM 13.0° / 25.0°
Efficiency 91 %
Peak intensity 9.5 cd/lm
LEDs/each optic 1
Light colour White
Required components:



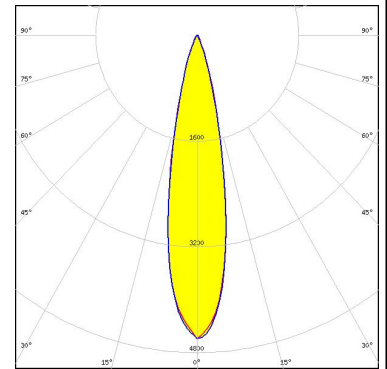
LED SST-20
FWHM / FWTM 12.0° / 22.0°
Efficiency 86 %
Peak intensity 10.8 cd/lm
LEDs/each optic 1
Light colour White
Required components:



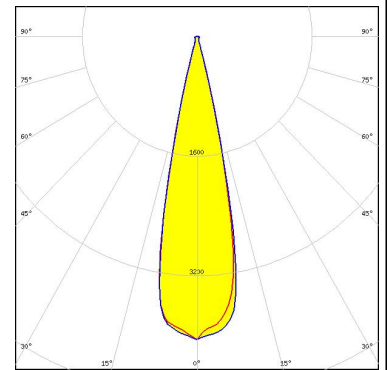
OPTICAL RESULTS (SIMULATED):



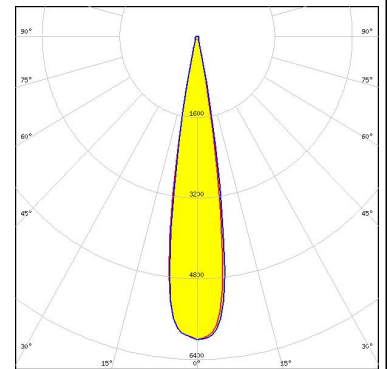
LED NV4WB35AM
 FWHM / FWTM 22.0° / 41.0°
 Efficiency 90 %
 Peak intensity 4.6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



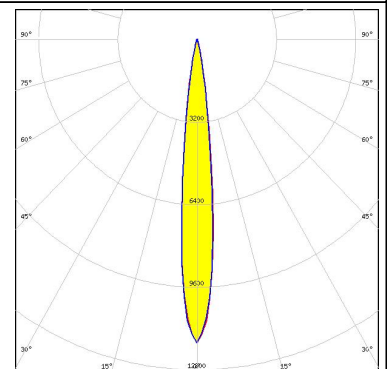
LED NVSW519A
 FWHM / FWTM 24.0° / 32.0°
 Efficiency 82 %
 Peak intensity 4.1 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



LED NVSxx19B/NVSxx19C
 FWHM / FWTM 18.0° / 26.0°
 Efficiency 83 %
 Peak intensity 6 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



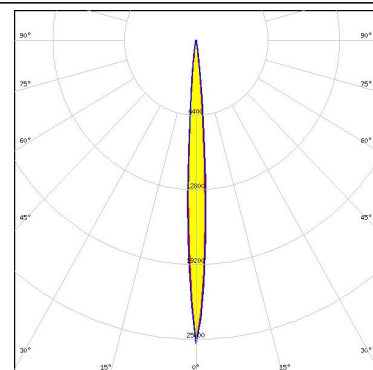
LED OSLOM Black
 FWHM / FWTM 12.0° / 23.0°
 Efficiency 86 %
 Peak intensity 11.8 cd/lm
 LEDs/each optic 1
 Light colour White
 Required components:



OPTICAL RESULTS (SIMULATED):

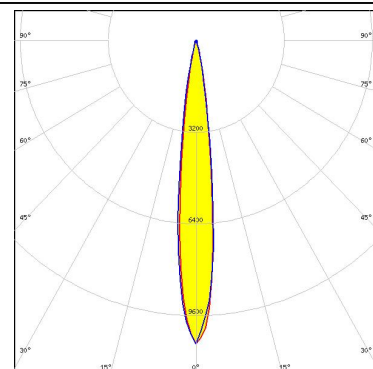
OSRAM Opto Semiconductors

LED SFH 4714A
FWHM / FWTM 7.0° / 14.0°
Efficiency 84 %
Peak intensity 26 cd/lm
LEDs/each optic 1
Light colour IR
Required components:



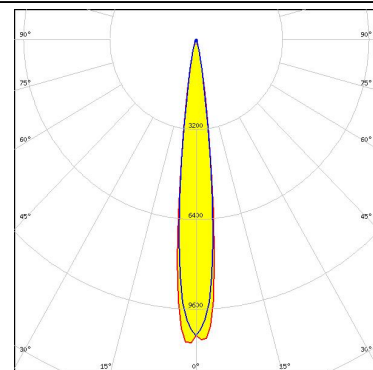
OSRAM Opto Semiconductors

LED SFH 4715AS
FWHM / FWTM 13.0° / 25.0°
Efficiency 88 %
LEDs/each optic 1
Light colour IR
Required components:



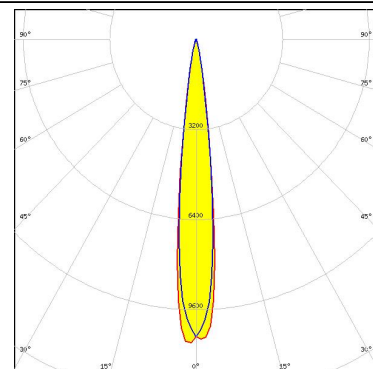
OSRAM Opto Semiconductors

LED SFH 4715S
FWHM / FWTM 13.0° / 24.0°
Efficiency 87 %
LEDs/each optic 1
Light colour IR
Required components:



OSRAM Opto Semiconductors

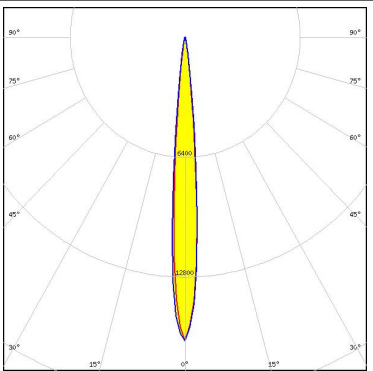
LED SFH 4725S
FWHM / FWTM 13.0° / 24.0°
Efficiency 87 %
LEDs/each optic 1
Light colour IR
Required components:



OPTICAL RESULTS (SIMULATED):

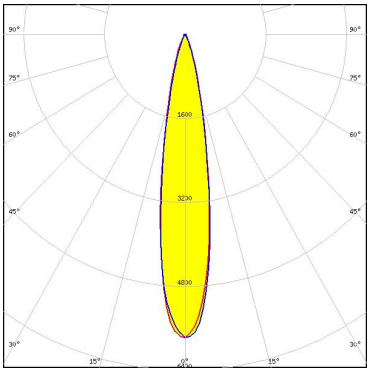
OSRAM
Opto Semiconductors

LED SFH 4726S
FWHM / FWTM 9.0° / 17.0°
Efficiency 84 %
LEDs/each optic 1
Light colour IR
Required components:



SEOUL
SEMICONDUCTOR

LED Z8Y22
FWHM / FWTM 15.0° / 29.0°
Efficiency 80 %
Peak intensity 5.4 cd/lm
LEDs/each optic 1
Light colour White
Required components:



GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

MATERIALS:

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LEDiL Oy

Joensuunkatu 13
FI-24240 SALO
Finland

LEDiL Inc.

228 West Page Street
Suite D
Sycamore IL 60178
USA

Ledil Optics Technology (Shenzhen) Co., Ltd.

405 , Block B
Casic Motor Building
Shenzhen 518057
P.R.CHINA

Local sales and technical support

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