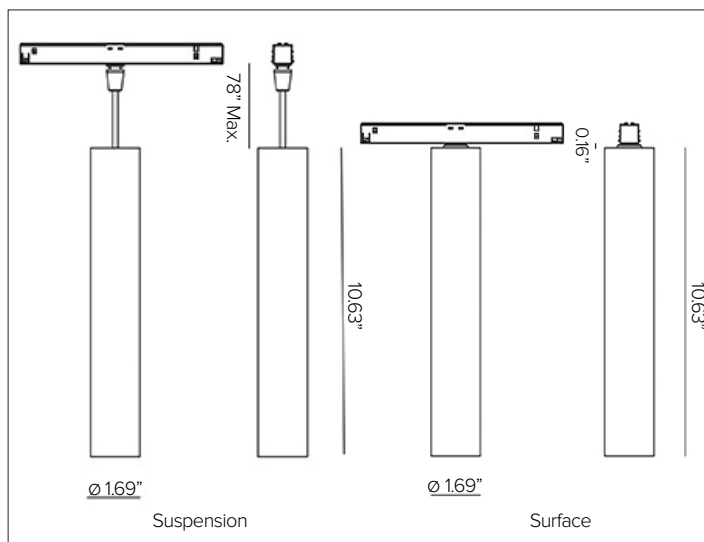


FORTYEIGHT LABEL 4 TUBE

Low Voltage LED Track Fixture



Surface version (left), Suspended version (right), Deep Black finish shown.



CONCEPT

Professional Low voltage LED fixture for direct lighting.

MECHANICAL CHARACTERISTICS

Dimensions	10.63"L x 1.69" Dia.
Materials	Powder coated cylindrical machined aluminum body.
Finish	● Plaster White ● Deep Black
Power Connection	To be completed with FORTYEIGHT MULTISYSTEM low voltage polarized track. Not 'Hot Swap' capable. Power to the track must be turned off for removal, replacement, or movement of the fixture.
Functionality	Tool-less installation, utilizing a mechanical fixture system that mounts to FORTYEIGHT MULTISYSTEM track system. NOTE: Max of 4 connectors or 30ft of track per individual 96W power supply and/or 90W. Can be used in combination with FORTYEIGHT fixture range to maximum of 90W per 96W, 48V driver.
Mounting	FORTYEIGHT MULTISYSTEM track system, sold separately. Surface version NOT compatible with FORTYEIGHT RECESSED DEEP TRIMLESS track. Suspension is complete with 78"L multicore cable with length adjustment system, colored fabric cable supplied to match fixture color.
Weight	0.66lbs
Protection	IP20

CERTIFICATIONS

cULus Class 2 SELV Listed.
Tested in accordance with LM-79-08.
Compliant for California installations
RoHS3 EU 215/863

WARRANTY

5 year limited warranty.

SUSTAINABILITY

Luminaire designed for disposal/recycling at end-of-life. Replaceable LED light source and control gear by a Targetti technician.

ELECTRICAL CHARACTERISTICS

Power Supply	Remote 48V driver required, refer to FORTYEIGHT MULTISYSTEM track spec sheet.
Wattage	8W
Voltage	48V
Control	0-10V to 1% or DALI / Wireless Bluetooth Casambi to 0% Note: Control cable wired directly to track from dimming interface, not through remote driver. 0-10V group fixture control. For individual fixture control DALI or wireless DALI/Casambi. For wireless bluetooth control via Casambi, use DALI fixture in combination with APP1-M-C0-9519 wireless control interface, refer to FORTYEIGHT MULTISYSTEM track specification sheet for detailed information.

SOURCE

High efficiency LED Chip on Board.

TM30	CCT (Nominal)	CRI	R _f	R _g	SDCM
	2700K	90	92	99	1.5
	3000K	90	92	101	1.5
	4000K	90	90	98	1.5

OPTIC

Optical system is dependent on beam angle. SP / FL versions comprised of metalized polycarbonate precision optics with opaque black silicone cut off ring. MWFL version comprised of convex faceted highly reflective anodized aluminum precision optic with opaque black silicone cut off ring.

Beam	SP 18°	FL 27°	MWFL 42°
Delivered Lumens	2700K 500Lm 3000K 539Lm 4000K 699Lm	661Lm 688Lm 699Lm	684Lm 712Lm 723Lm
For 3500K lumen values use multiplier of 1.02 from 3000K.			
Efficacy	95 Lm/W max. Refer to photometric graphs for specific values.		
Lifetime	L90/B10 >50,000hrs at max TA +25°C		
Photobiological Classification	Low risk photobiological safety RG1		

FORTYEIGHT LABEL 4 TUBE

SPECIFICATION INFORMATION

48	LA	4							/
1	2	3	4	5	6	7	8	9	10

Ex: 48LA4SU10LTSP30PW

REQUIRED

1 - PRODUCT CODE	2 - TYPE	3 - SIZE	4 - VERSION	5 - CONTROL	6 - WATTAGE	7 - OPTIC	8 - KELVIN	9 - FINISH
48 — FORTYEIGHT	LA — LABEL	4 — 1.69" Dia.	SF ^B — Surface SU — Suspended	10 — 0-10V DA ^A — DALI/Wireless Casambi	L1 — 8W	SP — SP 18° FL — FL 27° MW — MWFL 42°	27 — 2700K 30 — 3000K 35 — 3500K 40 — 4000K	PW — Plaster White DB — Deep Black

10 - TRACK

REQUIRED

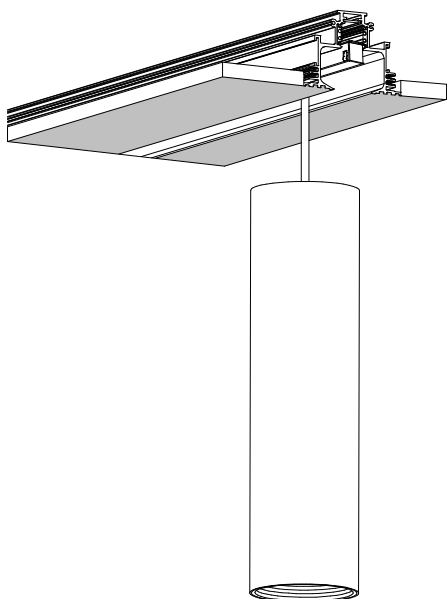
To be completed with **FORTYEIGHT MULTISYSTEM TRACK** [RECESSED TRIMLESS DEEP](#) or [SURFACE / SUSPENSION](#)

^A For wireless bluetooth control via Casambi, use DALI fixture in combination with APP1-M-C0-9519 wireless control interface.

^B Not compatible with Recessed Deep Trimless Track.

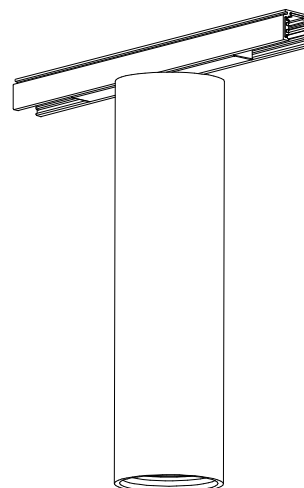
MOUNTING COMPATIBILITY

[FORTYEIGHT RECESSED TRIMLESS DEEP TRACK](#) shown with FORTYEIGHT LABEL 4 TUBE (SU) SUSPENSION fixture version.



[FORTYEIGHT MULTISYSTEM SURFACE/SUSPENSION TRACK](#) shown with FORTYEIGHT LABEL 4 TUBE (SF) SURFACE fixture version.

NOTE: (SF) Surface fixture version NOT compatible with FORTYEIGHT RECESSED TRIMLESS DEEP TRACK.



FORTYEIGHT LABEL 4 TUBE

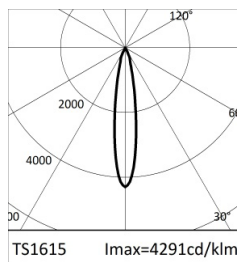
PHOTOMETRY

SURFACE – SPOT



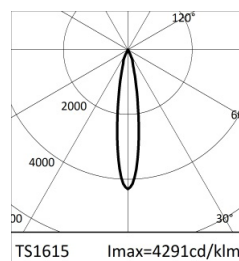
2700K	H(m)	D(m)	Emax(lx)
Ra90		18°	
Fixture Power	8W	1	0.31 3115
Source Flux	726lm	2	0.62 779
Fixture Flux	460lm	3	0.93 346
Efficacy	60lm/W	4	1.24 195
TS1615	Imax=4291cd/klm	Imax	3115cd 5 1.55 125

Maximum UGR = 6.3 (based on actual lumens)



3000K	H(m)	D(m)	Emax(lx)
Ra90		18°	
Fixture Power	8W	1	0.31 3634
Source Flux	847lm	2	0.62 909
Fixture Flux	536lm	3	0.93 404
Efficacy	71lm/W	4	1.24 227
TS1615	Imax=4291cd/klm	Imax	3634cd 5 1.55 145

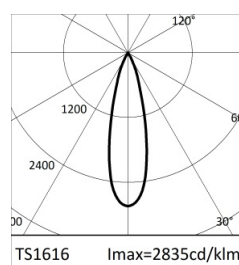
Maximum UGR = 6.8 (based on actual lumens)



4000K	H(m)	D(m)	Emax(lx)
Ra90		18°	
Fixture Power	8W	1	0.31 3858
Source Flux	899lm	2	0.62 964
Fixture Flux	569lm	3	0.93 429
Efficacy	75lm/W	4	1.24 241
TS1615	Imax=4291cd/klm	Imax	3858cd 5 1.55 154

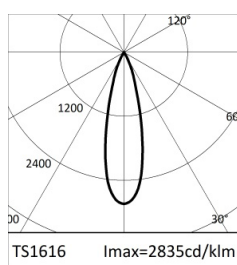
Maximum UGR = 7.0 (based on actual lumens)

SURFACE – FLOOD



2700K	H(m)	D(m)	Emax(lx)
Ra90		27°	
Fixture Power	8W	1	0.48 2616
Source Flux	923lm	2	0.95 654
Fixture Flux	659lm	3	1.43 291
Efficacy	87lm/W	4	1.91 164
TS1616	Imax=2835cd/klm	Imax	2616cd 5 2.38 105

Maximum UGR = 7.7 (based on actual lumens)



3000K	H(m)	D(m)	Emax(lx)
Ra90		27°	
Fixture Power	8W	1	0.48 2721
Source Flux	960lm	2	0.95 680
Fixture Flux	685lm	3	1.43 302
Efficacy	90lm/W	4	1.91 170
TS1616	Imax=2835cd/klm	Imax	2721cd 5 2.38 109

Maximum UGR = 7.9 (based on actual lumens)



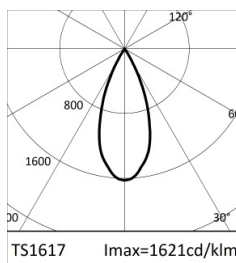
4000K	H(m)	D(m)	Emax(lx)
Ra90		27°	
Fixture Power	8W	1	0.48 2764
Source Flux	975lm	2	0.95 691
Fixture Flux	696lm	3	1.43 307
Efficacy	92lm/W	4	1.91 173
TS1616	Imax=2835cd/klm	Imax	2764cd 5 2.38 111

Maximum UGR = 7.9 (based on actual lumens)

FORTYEIGHT LABEL 4 TUBE

PHOTOMETRY

SURFACE – MEDIUM WIDE FLOOD



2700K	H(m)	D(m)	Emax(lx)
Ra90		42°	
Fixture Power 8W	1	0.76	1496
Source Flux 923lm	2	1.52	374
Fixture Flux 682lm	3	2.28	166
Efficacy 90lm/W	4	3.04	93
TS1617 I _{max} =1621cd/klm	5	3.80	60

Maximum UGR = 1.8 (based on actual lumens)



3000K	H(m)	D(m)	Emax(lx)
Ra90		42°	
Fixture Power 8W	1	0.76	1556
Source Flux 960lm	2	1.52	389
Fixture Flux 709lm	3	2.28	173
Efficacy 93lm/W	4	3.04	97
TS1617 I _{max} =1621cd/klm	5	3.80	62

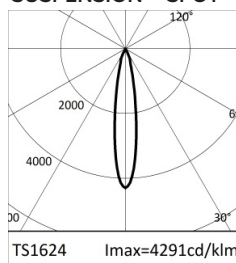
Maximum UGR = 2.0 (based on actual lumens)



4000K	H(m)	D(m)	Emax(lx)
Ra90		42°	
Fixture Power 8W	1	0.76	1580
Source Flux 975lm	2	1.52	395
Fixture Flux 720lm	3	2.28	176
Efficacy 95lm/W	4	3.04	99
TS1617 I _{max} =1621cd/klm	5	3.80	63

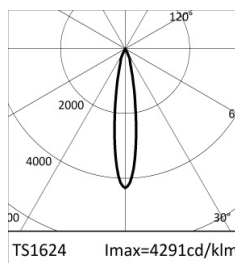
Maximum UGR = 2.0 (based on actual lumens)

SUSPENSION – SPOT



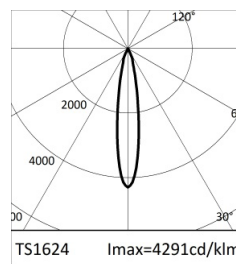
2700K	H(m)	D(m)	Emax(lx)
Ra90		18°	
Fixture Power 8W	1	0.31	3390
Source Flux 790lm	2	0.62	847
Fixture Flux 500lm	3	0.93	377
Efficacy 66lm/W	4	1.24	212
TS1624 I _{max} =4291cd/klm	5	1.55	136

Maximum UGR = 6.6 (based on actual lumens)



3000K	H(m)	D(m)	Emax(lx)
Ra90		18°	
Fixture Power 8W	1	0.31	3652
Source Flux 851lm	2	0.62	913
Fixture Flux 539lm	3	0.93	406
Efficacy 71lm/W	4	1.24	228
TS1624 I _{max} =4291cd/klm	5	1.55	146

Maximum UGR = 6.8 (based on actual lumens)



4000K	H(m)	D(m)	Emax(lx)
Ra90		18°	
Fixture Power 8W	1	0.31	3875
Source Flux 903lm	2	0.62	969
Fixture Flux 572lm	3	0.93	431
Efficacy 75lm/W	4	1.24	242
TS1624 I _{max} =4291cd/klm	5	1.55	155

Maximum UGR = 7.9 (based on actual lumens)

FORTYEIGHT LABEL 4 TUBE

PHOTOMETRY

SUSPENSION – FLOOD



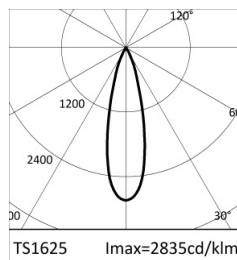
2700K		H(m)	D(m)	Emax(lx)
Ra90			27°	
Fixture Power	8W	1	0.48	2625
Source Flux	926lm	2	0.95	656
Fixture Flux	661lm	3	1.43	292
Efficacy	87lm/W	4	1.91	164
TS1625	Imax=2835cd/klm	Imax	2625cd	5 2.38 105

Maximum UGR = 7.7 (based on actual lumens)



3000K		H(m)	D(m)	Emax(lx)
Ra90			27°	
Fixture Power	8W	1	0.48	2732
Source Flux	964lm	2	0.95	683
Fixture Flux	688lm	3	1.43	304
Efficacy	91lm/W	4	1.91	171
TS1625	Imax=2835cd/klm	Imax	2732cd	5 2.38 109

Maximum UGR = 7.9 (based on actual lumens)



4000K		H(m)	D(m)	Emax(lx)
Ra90			27°	
Fixture Power	8W	1	0.48	2775
Source Flux	979lm	2	0.95	694
Fixture Flux	699lm	3	1.43	308
Efficacy	92lm/W	4	1.91	173
TS1625	Imax=2835cd/klm	Imax	2775cd	5 2.38 111

Maximum UGR = 7.9 (based on actual lumens)

SUSPENSION – MEDIUM WIDE FLOOD



2700K		H(m)	D(m)	Emax(lx)
Ra90			42°	
Fixture Power	8W	1	0.76	1501
Source Flux	926lm	2	1.52	375
Fixture Flux	684lm	3	2.28	167
Efficacy	90lm/W	4	3.04	94
TS1626	Imax=1621cd/klm	Imax	1501cd	5 3.80 60

Maximum UGR = 1.8 (based on actual lumens)



3000K		H(m)	D(m)	Emax(lx)
Ra90			42°	
Fixture Power	8W	1	0.76	1562
Source Flux	964lm	2	1.52	391
Fixture Flux	712lm	3	2.28	174
Efficacy	94lm/W	4	3.04	98
TS1626	Imax=1621cd/klm	Imax	1562cd	5 3.80 62

Maximum UGR = 2.0 (based on actual lumens)



4000K		H(m)	D(m)	Emax(lx)
Ra90			42°	
Fixture Power	8W	1	0.76	1587
Source Flux	979lm	2	1.52	397
Fixture Flux	723lm	3	2.28	176
Efficacy	95lm/W	4	3.04	99
TS1626	Imax=1621cd/klm	Imax	1587cd	5 3.80 63

Maximum UGR = 2.0 (based on actual lumens)