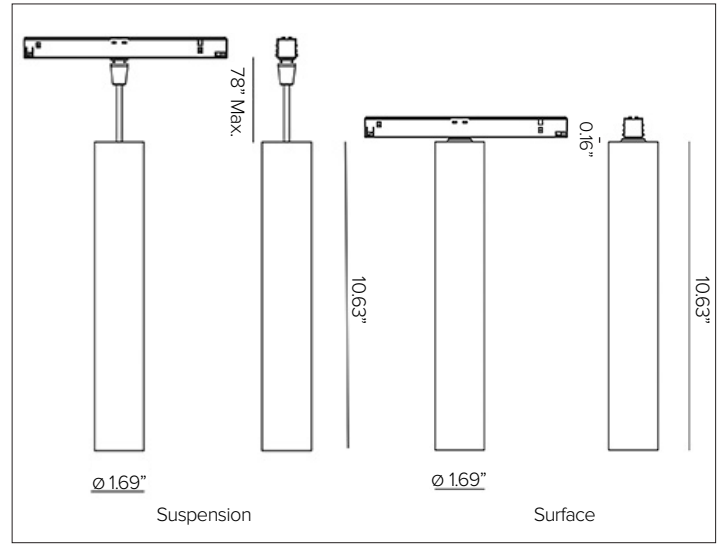


FORTYEIGHT LABEL 4 TUBE

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	<input type="radio"/> Plaster White <input checked="" type="radio"/> Deep Black
Power Connection	To be completed with FORTYEIGHT MULTISYSTEM low voltage polarized track.
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 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 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-CO-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	Rf	Rg	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	661Lm	684Lm
	3000K 539Lm	688Lm	712Lm
	4000K 699Lm	699Lm	723Lm

Refer to photometry section for all fixture variations.

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							10
1	2	3	4	5	6	7	8	9	10

Ex: 48LA4SU10L1SP30PW

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

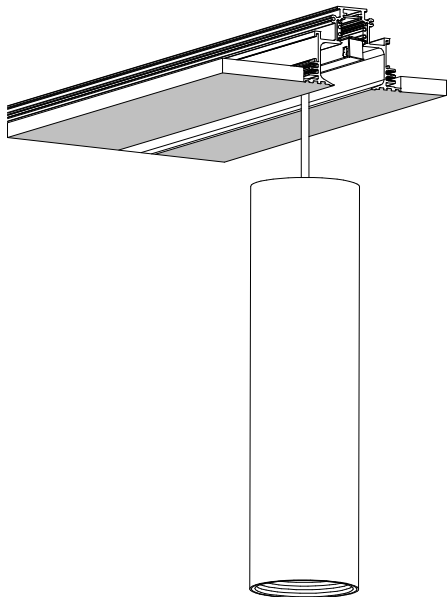
REQUIRED

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 APPI-M-C0-9519 wireless control interface.
^B Not compatible with Recessed Deep Trimless Track.

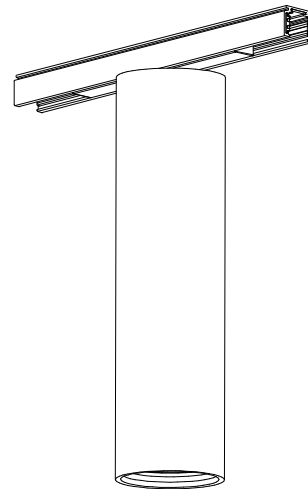
MOUNTING COMPATIBILITY

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	I _{max} =4291cd/klm	I _{max}	3115cd	5	1.55	125

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	I _{max} =4291cd/klm	I _{max}	3634cd	5	1.55	145

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	I _{max} =4291cd/klm	I _{max}	3858cd	5	1.55	154

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	I _{max} =2835cd/klm	I _{max}	2616cd	5	2.38	105

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	I _{max} =2835cd/klm	I _{max}	2721cd	5	2.38	109

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	I _{max} =2835cd/klm	I _{max}	2764cd	5	2.38	111

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	I _{max}	1496cd	5	3.80	60

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	I _{max}	1556cd	5	3.80	62

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	I _{max}	1580cd	5	3.80	63

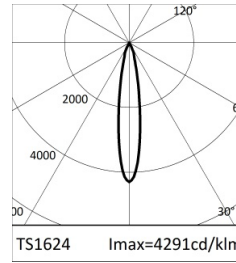
FORTYEIGHT LABEL 4 TUBE

PHOTOMETRY

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	Imax=4291cd/klm	Imax	3390cd	5	1.55



		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	Imax=4291cd/klm	Imax	3652cd	5	1.55

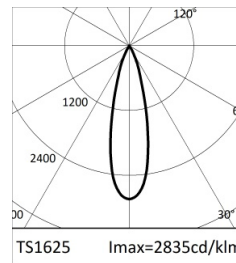


		4000K	H(m)	D(m)	Emax(lx)
		Ra90		18°	
Fixture Power	8W	1	0.31	3875	
Source Flux	903lm	2	0.62	969	
Fixture Flux	572lm	3	0.93	431	
Efficacy	75lm/W	4	1.24	242	
TS1624	Imax=4291cd/klm	Imax	3875cd	5	1.55

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



		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

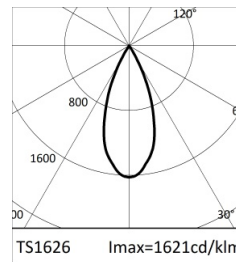


		4000K	H(m)	D(m)	Emax(lx)
		Ra90		27°	
Fixture Power	8W	1	0.48	2775	
Source Flux	979lm	2	0.95	694	
Fixture Flux	699lm	3	1.43	308	
Efficacy	92lm/W	4	1.91	173	
TS1625	Imax=2835cd/klm	Imax	2775cd	5	2.38

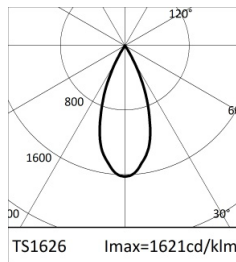
SUSPENSION – MEDIUM WIDE FLOOD



		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



		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



		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