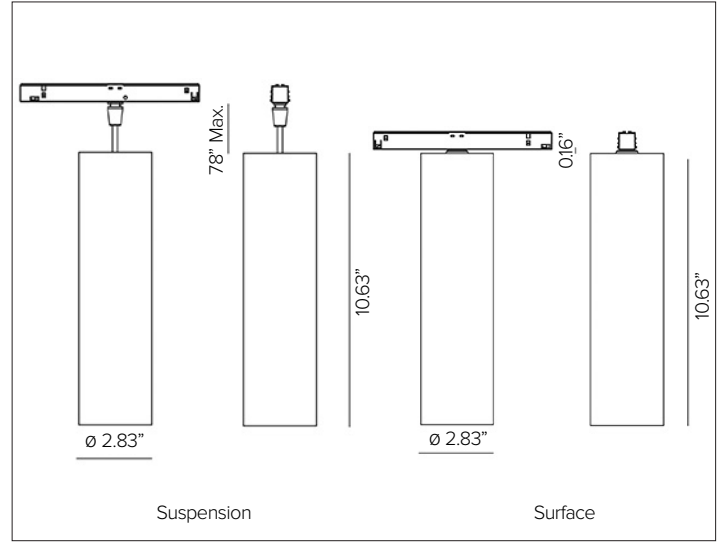


FORTYEIGHT LABEL 7 TUBE

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 2.83 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	1.54lbs
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	11W
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 APPI-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	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 16°	FL 27°	MWFL 46°
Delivered Lumens	2700K 908Lm	941Lm	1089Lm
	3000K 945Lm	979Lm	1132Lm
	4000K 960Lm	995Lm	1150Lm

Refer to photometry section for all fixture variations.
For 3500K lumen values use multiplier of 1.02 from 3000K.

Efficacy	103 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 7 TUBE

SPECIFICATION INFORMATION

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

Ex: 48LA7SU10L1SP27PW

1 - PRODUCT CODE	2 - TYPE	3 - SIZE	4 - TYPE	5 - CONTROL	6 - WATTAGE	7 - OPTICS	8 - KELVIN	9 - FINISH
48 — FORTYEIGHT	LA — LABEL	7 — 2.83" Dia.	SF ^B — Surface SU — Suspended	10 — 0-10V DA ^A — DALI/Wireless Casambi	L1 — 11W	SP — SP 16° FL — FL 27° MW — MWFL 46°	27 — 2700K 30 — 3000K 35 — 3500K 40 — 4000K	PW — Plaster White DB — Deep Black

10 - TRACK

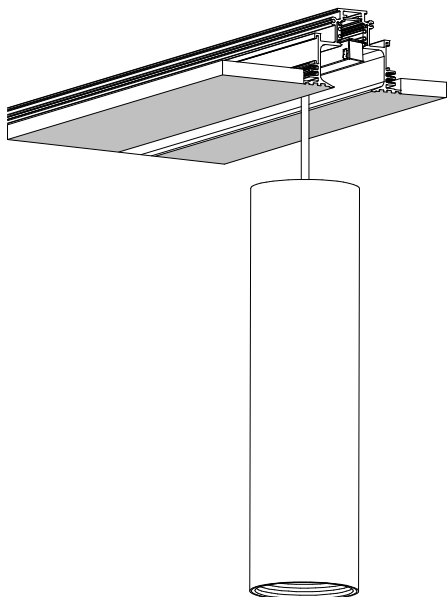
REQUIRED

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.

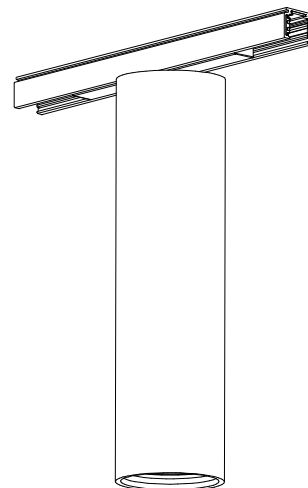
MOUNTING COMPATIBILITY

FORTYEIGHT RECESSED TRIMLESS DEEP TRACK shown with FORTYEIGHT LABEL 7 TUBE (SU) SUSPENSION fixture version.



FORTYEIGHT MULTISYSTEM SURFACE/SUSPENSION TRACK shown with FORTYEIGHT LABEL 7 TUBE (SF) SURFACE fixture version.

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



FORTYEIGHT LABEL 7 TUBE

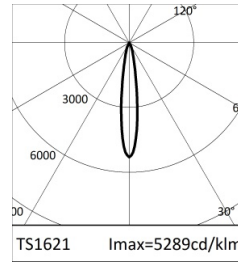
PHOTOMETRY

SURFACE – SPOT



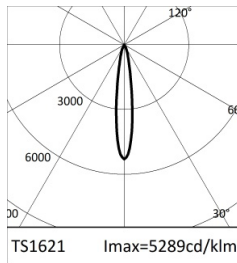
2700K		H(m)	D(m)	E _{max} (lx)	
Ra90			16°		
Fixture Power	11W	1	0.28	7192	
Source Flux	1360lm	2	0.56	1798	
Fixture Flux	904lm	3	0.84	799	
Efficacy	81lm/W	4	1.11	450	
TS1621	I _{max} =5289cd/klm	I _{max}	7192cd	5	1.39 288

Maximum UGR = 1.4 (based on actual lumens)



3000K		H(m)	D(m)	E _{max} (lx)	
Ra90			16°		
Fixture Power	11W	1	0.28	7489	
Source Flux	1416lm	2	0.56	1872	
Fixture Flux	941lm	3	0.84	832	
Efficacy	84lm/W	4	1.11	468	
TS1621	I _{max} =5289cd/klm	I _{max}	7489cd	5	1.39 300

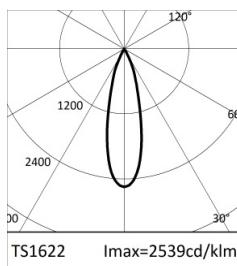
Maximum UGR = 1.5 (based on actual lumens)



4000K		H(m)	D(m)	E _{max} (lx)	
Ra90			16°		
Fixture Power	11W	1	0.28	7605	
Source Flux	1438lm	2	0.56	1901	
Fixture Flux	956lm	3	0.84	845	
Efficacy	85lm/W	4	1.11	475	
TS1621	I _{max} =5289cd/klm	I _{max}	7605cd	5	1.39 304

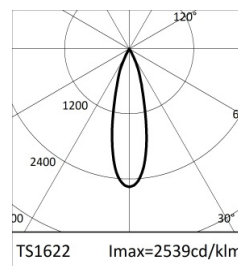
Maximum UGR = 1.6 (based on actual lumens)

SURFACE – FLOOD



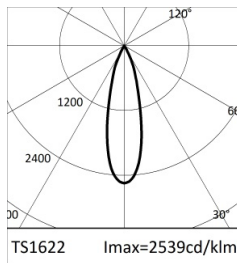
2700K		H(m)	D(m)	E _{max} (lx)	
Ra90			27°		
Fixture Power	11W	1	0.49	3453	
Source Flux	1360lm	2	0.98	863	
Fixture Flux	937lm	3	1.47	384	
Efficacy	84lm/W	4	1.96	216	
TS1622	I _{max} =2539cd/klm	I _{max}	3453cd	5	2.45 138

Maximum UGR = 1.3 (based on actual lumens)



3000K		H(m)	D(m)	E _{max} (lx)	
Ra90			27°		
Fixture Power	11W	1	0.49	3595	
Source Flux	1416lm	2	0.98	899	
Fixture Flux	976lm	3	1.47	399	
Efficacy	87lm/W	4	1.96	225	
TS1622	I _{max} =2539cd/klm	I _{max}	3595cd	5	2.45 144

Maximum UGR = 1.4 (based on actual lumens)



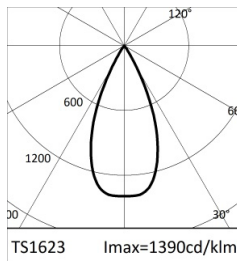
4000K		H(m)	D(m)	E _{max} (lx)	
Ra90			27°		
Fixture Power	11W	1	0.49	3651	
Source Flux	1438lm	2	0.98	913	
Fixture Flux	991lm	3	1.47	406	
Efficacy	88lm/W	4	1.96	228	
TS1622	I _{max} =2539cd/klm	I _{max}	3651cd	5	2.45 146

Maximum UGR = 1.5 (based on actual lumens)

FORTYEIGHT LABEL 7 TUBE

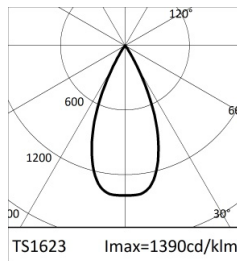
PHOTOMETRY

SURFACE – MEDIUM WIDE FLOOD



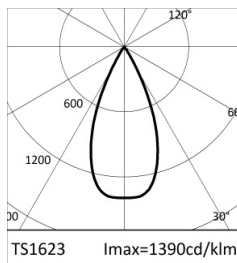
		2700K	H(m)	D(m)	Emax(lx)
		Ra90		46°	
Fixture Power	11W	1	0.85	2001	
Source Flux	1440lm	2	1.70	500	
Fixture Flux	1085lm	3	2.55	222	
Efficacy	97lm/W	4	3.40	125	
TS1623	I _{max} =1390cd/klm	I _{max}	2002cd	5	4.25

Maximum UGR = 1.4 (based on actual lumens)



		3000K	H(m)	D(m)	Emax(lx)
		Ra90		46°	
Fixture Power	11W	1	0.85	2082	
Source Flux	1498lm	2	1.70	521	
Fixture Flux	1128lm	3	2.55	231	
Efficacy	101lm/W	4	3.40	130	
TS1623	I _{max} =1390cd/klm	I _{max}	2082cd	5	4.25

Maximum UGR = 1.5 (based on actual lumens)



		4000K	H(m)	D(m)	Emax(lx)
		Ra90		46°	
Fixture Power	11W	1	0.85	2114	
Source Flux	1521lm	2	1.70	528	
Fixture Flux	1146lm	3	2.55	235	
Efficacy	102lm/W	4	3.40	132	
TS1623	I _{max} =1390cd/klm	I _{max}	2114cd	5	4.25

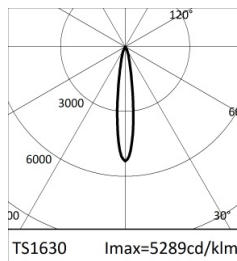
Maximum UGR = 1.6 (based on actual lumens)

SUSPENSION – SPOT



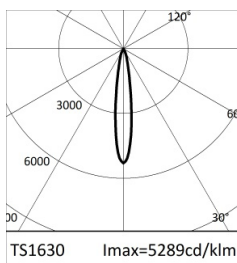
		2700K	H(m)	D(m)	Emax(lx)
		Ra90		16°	
Fixture Power	11W	1	0.28	7224	
Source Flux	1366lm	2	0.56	1806	
Fixture Flux	908lm	3	0.84	803	
Efficacy	81lm/W	4	1.11	452	
TS1630	I _{max} =5289cd/klm	I _{max}	7224cd	5	1.39

Maximum UGR = 1.4 (based on actual lumens)



		3000K	H(m)	D(m)	Emax(lx)
		Ra90		16°	
Fixture Power	11W	1	0.28	7515	
Source Flux	1421lm	2	0.56	1879	
Fixture Flux	945lm	3	0.84	835	
Efficacy	84lm/W	4	1.11	470	
TS1630	I _{max} =5289cd/klm	I _{max}	7515cd	5	1.39

Maximum UGR = 1.5 (based on actual lumens)



		4000K	H(m)	D(m)	Emax(lx)
		Ra90		16°	
Fixture Power	11W	1	0.28	7637	
Source Flux	1444lm	2	0.56	1909	
Fixture Flux	960lm	3	0.84	849	
Efficacy	86lm/W	4	1.11	477	
TS1630	I _{max} =5289cd/klm	I _{max}	7637cd	5	1.39

Maximum UGR = 1.6 (based on actual lumens)

FORTYEIGHT LABEL 7 TUBE

PHOTOMETRY

SUSPENSION – FLOOD



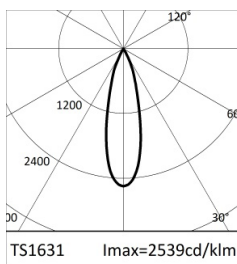
2700K		H(m)	D(m)	Emax(lx)
Ra90			27°	
Fixture Power	11W	1	0.49	3468
Source Flux	1366lm	2	0.98	867
Fixture Flux	941lm	3	1.47	385
Efficacy	84lm/W	4	1.96	217
TS1631	Imax=2539cd/klm	Imax	3468cd	5 2.45 139

Maximum UGR = 1.3 (based on actual lumens)



3000K		H(m)	D(m)	Emax(lx)
Ra90			27°	
Fixture Power	11W	1	0.49	3608
Source Flux	1421lm	2	0.98	902
Fixture Flux	979lm	3	1.47	401
Efficacy	87lm/W	4	1.96	226
TS1631	Imax=2539cd/klm	Imax	3608cd	5 2.45 144

Maximum UGR = 1.4 (based on actual lumens)



4000K		H(m)	D(m)	Emax(lx)
Ra90			27°	
Fixture Power	11W	1	0.49	3666
Source Flux	1444lm	2	0.98	917
Fixture Flux	995lm	3	1.47	407
Efficacy	89lm/W	4	1.96	229
TS1631	Imax=2539cd/klm	Imax	3666cd	5 2.45 147

Maximum UGR = 1.5 (based on actual lumens)

SUSPENSION – MEDIUM WIDE FLOOD



2700K		H(m)	D(m)	Emax(lx)
Ra90			46°	
Fixture Power	11W	1	0.85	2010
Source Flux	1446lm	2	1.70	502
Fixture Flux	1089lm	3	2.55	223
Efficacy	97lm/W	4	3.40	126
TS1632	Imax=1390cd/klm	Imax	2010cd	5 4.25 80

Maximum UGR = 1.4 (based on actual lumens)



3000K		H(m)	D(m)	Emax(lx)
Ra90			46°	
Fixture Power	11W	1	0.85	2089
Source Flux	1503lm	2	1.70	522
Fixture Flux	1132lm	3	2.55	232
Efficacy	101lm/W	4	3.40	131
TS1632	Imax=1390cd/klm	Imax	2089cd	5 4.25 84

Maximum UGR = 1.5 (based on actual lumens)



4000K		H(m)	D(m)	Emax(lx)
Ra90			46°	
Fixture Power	11W	1	0.85	2122
Source Flux	1527lm	2	1.70	531
Fixture Flux	1150lm	3	2.55	236
Efficacy	103lm/W	4	3.40	133
TS1632	Imax=1390cd/klm	Imax	2123cd	5 4.25 85

Maximum UGR = 1.6 (based on actual lumens)