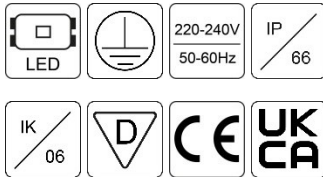


PROOF LED

Waterproof and Cleanroom Luminaires



Images for the product family and options:



Description: Surface mounted waterproof LED luminaire for use in food industry and aggressive environments
 Light distribution type: direct
 Diffuser: opal acrylic diffuser, good chemical resistance
 Housing: thermoplastic, good chemical resistance
 Colour: light grey

General data: Mains voltage: 220-240V, 0/50/60Hz
 LED lifetime, h: 100000/L80B50
 SDCM: 3
 Protection class IEC: I (II optional)
 Ingress protection code: IP66
 Mechanical impact resistance: IK06
 Protection symbol: D
 Glow wire test, °C: 650
 Operating temperature range, °C: ta -20...+35

Installation: On the ceiling or wall (mounting brackets included), or suspended (hooks included). Push-in terminal, 5x2x2.5mm²

Environment: Indoor

Application: Industry, food processing area, warehouse, hall, agriculture



Supplied with two fixing brackets for easy installation, sealing washer and accessories for chain or wire suspension.



Diffuser retaining clips made of stainless steel available on request. For more information see the option list: IC- Stainless steel clips.



Suspension mounting kit for Barat, Proof and Nord LED luminaires with two 1.5 or 3.0 meter cables is available on request. For more information see the accessories list.

TECHNICAL DATA SHEET

Product	Length, mm	Width, mm	Height, mm	Luminaire output*, lm	System power*, W	System efficacy*, lm/W	CRI	CCT*, K	Weight, kg
Proof LED1x1600 G482 T830 OP LT80	662	96	111	1481	10,0	148	80+	3000	1,30
Proof LED1x2150 G483 T830 OP LT80	662	96	111	2026	13,9	146	80+	3000	1,30
Proof LED1x2850 G484 T830 OP LT80	662	96	111	2687	18,2	147	80+	3000	1,30
Proof LED2x2150 G485 T830 OP LT80	662	146	111	4052	25,9	156	80+	3000	1,80
Proof LED1x2850 G486 T830 OP LT80	1272	96	111	2701	18,5	146	80+	3000	2,10
Proof LED1x3750 G487 T830 OP LT80	1272	96	111	3523	22,3	158	80+	3000	2,10
Proof LED1x4600 G488 T830 OP LT80	1272	96	111	4322	27,8	155	80+	3000	2,10
Proof LED1x5400 G489 T830 OP LT80	1272	96	111	5094	33,7	151	80+	3000	2,10
Proof LED1x7150 G490 T830 OP LT80	1272	96	111	6792	43,7	155	80+	3000	2,10
Proof LED1x9650 G491 T830 OP LT80	1272	96	111	9086	57,3	158	80+	3000	2,10
Proof LED2x5700 G492 T830 OP LT80	1272	146	111	10694	65,7	163	80+	3000	2,80
Proof LED1x4500 G493 T830 OP LT80	1572	96	111	4267	28,7	149	80+	3000	2,60
Proof LED1x5700 G494 T830 OP LT80	1572	96	111	5403	34,4	157	80+	3000	2,60
Proof LED1x6750 G495 T830 OP LT80	1572	96	111	6368	41,1	155	80+	3000	2,60
Proof LED1x9000 G496 T830 OP LT80	1572	96	111	8490	54,8	155	80+	3000	2,60
Proof LED1x12050 G497 T830 OP LT80	1572	96	111	11358	70,9	160	80+	3000	2,60
Proof LED2x7100 G498 T830 OP LT80	1572	146	111	13367	82,2	163	80+	3000	3,30
Proof LED1x1600 G482 T840 OP LT80	662	96	111	1561	10,0	156	80+	4000	1,30
Proof LED1x2150 G483 T840 OP LT80	662	96	111	2136	13,9	154	80+	4000	1,30
Proof LED1x2850 G484 T840 OP LT80	662	96	111	2833	18,2	155	80+	4000	1,30
Proof LED2x2150 G485 T840 OP LT80	662	146	111	4271	25,9	165	80+	4000	1,80
Proof LED1x2850 G486 T840 OP LT80	1272	96	111	2847	18,5	154	80+	4000	2,10
Proof LED1x3750 G487 T840 OP LT80	1272	96	111	3713	22,3	166	80+	4000	2,10
Proof LED1x4600 G488 T840 OP LT80	1272	96	111	4556	27,8	164	80+	4000	2,10
Proof LED1x5400 G489 T840 OP LT80	1272	96	111	5370	33,7	159	80+	4000	2,10
Proof LED1x7150 G490 T840 OP LT80	1272	96	111	7160	43,7	164	80+	4000	2,10
Proof LED1x9650 G491 T840 OP LT80	1272	96	111	9577	57,3	167	80+	4000	2,10
Proof LED2x5700 G492 T840 OP LT80	1272	146	111	11272	65,7	171	80+	4000	2,80
Proof LED1x4500 G493 T840 OP LT80	1572	96	111	4498	28,7	157	80+	4000	2,60
Proof LED1x5700 G494 T840 OP LT80	1572	96	111	5695	34,4	166	80+	4000	2,60
Proof LED1x6750 G495 T840 OP LT80	1572	96	111	6712	41,1	163	80+	4000	2,60
Proof LED1x9000 G496 T840 OP LT80	1572	96	111	8949	54,8	163	80+	4000	2,60
Proof LED1x12050 G497 T840 OP LT80	1572	96	111	11972	70,9	169	80+	4000	2,60
Proof LED2x7100 G498 T840 OP LT80	1572	146	111	14090	82,2	171	80+	4000	3,30

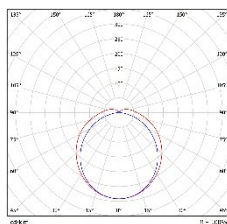
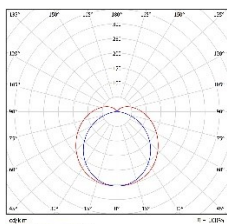
* Tolerance range for optical and electrical data: ±10%. Values apply to an ambient temperature of 25°C. NORTHCLIFFE LIGHTING is constantly developing and improving its products. The right is reserved to change any product specifications without prior notification

Available options:

DALI	Driver with DALI interface	EM3A	Emergency version equipped with an autonomous testing system, 3 hours
*note - for DALI LIN option wires are 2x0.5mm ²		EM3Aatmin-25	Emergency version equipped with an autonomous testing system, 3 hours. Suitable for low ambient temperatures up to -25°C
COR	Driver with Corridor function (never off)	EM3D	Emergency version 3 hours with DALI interface
COR1min	Driver with Corridor function 1min (switch off after 1 min)	*note - EM3B, EM3A, EM3D options not applicable for models: G482, G483, G484	
COR30min	Driver with Corridor function 30min (switch off after 30 min)	5TB	5-pole terminal block in the middle of luminaire for easy through wiring
MW	Integrated microwave (MW) motion sensor with on-off control	*note - 5TB terminal block included as standard	
MWRFM+	Integrated microwave (MW) motion sensor with integrated RF (radio wave) transceiver. Sensor can serve as both master and slave. Functions: Staircase, Corridor, dimming control	1LIN	Through wiring 3x1.5 mm ² with two push-in terminal blocks
MWRFM+off	Integrated microwave (MW) motion sensor with integrated RF (radio wave) transceiver. Sensor can serve as both master and slave. Functions: Staircase, Corridor, (no dimming control)	3LIN	Through wiring 5x1.5 mm ² with two push-in terminal blocks
MWRFM	Integrated microwave (MW) motion sensor with integrated RF (radio wave) transmitter. Sensor can serve as master. Functions: Staircase, Corridor, dimming control	1LIN2.5	Through wiring 3x2.5 mm ² with two push-in terminal blocks
MWRFS+	Integrated microwave (MW) motion sensor with integrated RF (radio wave) receiver. Sensor can serve as slave. Functions: Staircase, Corridor, dimming control	3LIN2.5	Through wiring 5x2.5 mm ² with two push-in terminal blocks
MWRFS+off	Integrated microwave (MW) motion sensor with integrated RF (radio wave) receiver. Sensor can serve as slave. Functions: Staircase, Corridor (no dimming control)	*note - LIN options applicable for models longer than 800mm, for shorter models 5TB option	
MWRFS	Integrated microwave (MW) motion sensor with integrated RF (radio wave) receiver. Sensor can serve as slave. Functions: Staircase, Corridor, (no dimming control)	1G	Strain relief for power supply cable
EM3	Emergency version 3 hours	2G	Strain relief for power supply cable, 2pcs
EMGB	Emergency version 1 hour (best available technology)	II	Electric shock protection class II
EM3B	Emergency version 3 hours (best available technology)	IC	Stainless steel clips
		OP LT80	Opal diffuser with high light transmittance
		T830	Colour temperature 3000K, CRI 80+
		T840	Colour temperature 4000K, CRI 80+

LED1x OP LT80

LED2x OP LT80



TECHNICAL DATA SHEET

Available accessories:



Product: Suspension MTG KIT - Barat/Proof/Nord LED 1.5m
Description: Suspension kit for Barat/Proof/Nord LED luminaires, 1.5 meter, 2pcs



Product: Suspension MTG KIT - Barat/Proof/Nord LED 3.0m
Description: Suspension kit for Barat/Proof/Nord LED luminaires, 3.0 meter, 2pcs

Applications:



TECHNICAL DATA SHEET

Chemical resistance table of Proof LED series:

Environment	Max. concentration	Proof LED diffuser resistance			Proof LED body resistance		
		yes	partially	no	yes	partially	no
Aceton (ketones)				no			no
Aniline				no			no
Ammonia	5%	yes			yes		
Benzene and Benzaldehyde				no			no
Diethylether (ethers)			partially				
Potassium nitrate		yes					
Ethanol(alcohols)	50%		partially			partially	
Ethylacetate (esters)				no			no
Ethyl alcohol			partially		yes		
Phenol				no			no
Glycerine		yes	partially				
Heptane							no
Ammonium hydroxide	25%	yes				partially	
Sodium hydroxide-base	60%	yes			yes		
Sodium chloride-salt solution	15%	yes			yes		
Sulphur chloride and calcium chloride				no			no
Carbon tetrachloride and Chloric ether				no			no
Iron dichloride		yes					
Arsenic acid and Oleic acid		yes			yes		
Citric acid	20%	yes			yes		
Nitric acid	20%		partially			partially	
Nitric acid	50%			no			no
Hydrochloride acid	5%	yes			yes		
Hydrochloride acid	35%			no			no
Chromic acid	40%		partially			partially	
Formic acid	30%		partially				
Acetic acid	10%	yes				partially	
Sulphuric acid	30%	yes				partially	
Methanol				no			no
Fuel oil			partially		yes		
Mineral oil		yes			yes		
Vegetable oil		yes			yes		
Rape oil		yes				partially	
Lamp oil			partially			partially	
Hydrogen peroxide	30%			no		partially	
Ammonium sulphate	15%	yes			yes		
Toluene				no			no
Turpentine oil				no	yes		no
Trichlorethylene				no			no
Sodium carbonate	20%	yes					
Aliphatic hydrocarbons		yes				partially	
Aromatic hydrocarbons				no			no
Alkali		yes			yes		