Hazardous
Lighting Solutions LTD



www.hazlite.com

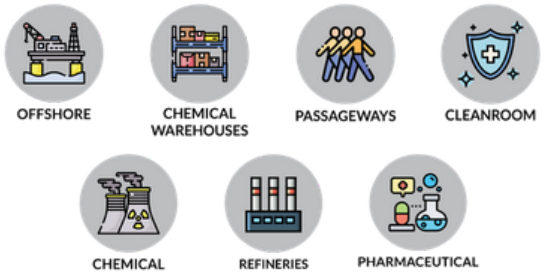
Hazardous
Lighting Solutions LTD

ZONE 21, 2, 22

OPTILINE

Dustproof, UV and highly water resistant linear luminaire







II 2 D Ex tb IIIC T70 °C Db (Cert. no.: KSCP 23ATEX0021X)
II 3 G Ex ec IIC T4 Gc (Cert. no.: KSCP 23ATEX0022X)

MECHANICAL FEATURES

Housing: Glass fibre reinforced polyester (GRP)
Diffuser in 3 versions: clear/ opal / frosted
Ingress protection: IP66/IP67
Mounting: Galvanized steel fastening brackets
Gasket: Silicon foam

ELECTRICAL FEATURES

Connection terminals: min. 1,5 mm2 max. 4mm2
Input voltage: AC 230, 50Hz DC 230, 0Hz
Power factor: 20,1
Protection class: I

WORK PARAMETERS

Ambient Temperatures:-40°C–+50°C (ATEX)
Lifetime: L80B10 in ambient temperature 25°C : 80,000

PHOTOMETRICAL PARAMETERS

CRI: >80 (optionally: >70 or >90)
Colour temperature: 4000K (optionally: 3000K or 5000 K)

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TYPES COMPARISON

OPTILINE 670 MM LENGTH

Specification	Optiline 60-1******	Optiline 60-2******	Optiline 60-3******
LED Module	1 × 18W	1 × 23W	1 × 27W
Rated Luminous Flux (Clear)	3485 lm	4422 lm	5182 lm
Rated Luminous Flux (Frosted)	3324 lm	4218 lm	4943 lm
Rated Luminous Flux (Opal)	2931 lm	3719 lm	4358 lm
Efficacy Range	146 – 173 lm/W	149 – 178 lm/W	147 – 175 lm/W
Colour Temperature Options	3000K/ 4000K (standard)/ 5000K*		
CRI Options	>70*>80 (standard)>90*		
Lifetime [h]	Lifetime (L80B10 @ 25°C) 80,000 h LED Driver Lifetime @ 25°C 100,000 h Lifetime (L90B10 @ 50°C) 70,000 h LED Driver Lifetime @ 50°C 70,000 h		
Working Temperature	-40°C ≤ Ta ≤ +50°C		

OPTILINE 1270 MM LENGTH

Specification	Optiline 12-1******	Optiline 12-2******	Optiline 12-3******
Rated Luminous Flux (Clear)	6739 lm	8665 lm	10342 lm
Rated Luminous Flux (Frosted)	6504 lm	8363 lm	9981 lm
Rated Luminous Flux (Opal)	5700 lm	7329 lm	8747 lm
Light Source Type	2 × LED Module 18W	2 × LED Module 23W	2 × LED Module 27W
Colour Temperature [K]	3000K/ 4000K (standard)/ 5000K*		
CRI	>70*>80 (standard)>90*		
Efficacy of Complete Luminaire [lm/W]	149 – 176 (depending on diffuser type)	153 – 181 (depending on diffuser type)	152 – 179 (depending on diffuser type)
Lifetime [h]	L80B10 @ 25°C: 80,000 LED driver @ 25°C: 100,000 L90B10 @ 50°C: 70,000 LED driver @ 50°C: 70,000		
Working Temperature	-40°C ≤ Ta ≤ +50°C		

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TYPES COMPARISON
OPTILINE 670 MM LENGTH





Specification	Optiline 60-1******A1	Optiline 60-2******A1	Optiline 60-3******A1
Rated Luminous Flux (Clear)	3485 lm	4422 lm	5182 lm
Rated Luminous Flux (Frosted)	3324 lm	4218 lm	4943 lm
Rated Luminous Flux (Opal)	2931 lm	3719 lm	4358 lm
Rated Luminous Flux – Emergency (Clear)	800 lm	800 lm	800 lm
Rated Luminous Flux – Emergency (Frosted)	750 lm	750 lm	750 lm
Rated Luminous Flux – Emergency (Opal)	650 lm	650 lm	650 lm
Light Source Type	1 × LED Module 18W		
Colour Temperature [K]	3000K/ 4000K (standard)/ 5000K*		
CRI	>70* >80 (standard) >90*		
Efficacy of Complete Luminaire [lm/W]	141 – 168 (depending on diffuser type)	145 – 173 (depending on diffuser type)	142 – 169 (depending on diffuser type)
Lifetime [h]	L80B10 @ 25°C: 80,000 LED driver @ 25°C: 100,000 L90B10 @ 50°C: 70,000 LED driver @ 50°C: 70,000		
Working Temperature	-40°C ≤ Ta ≤ +50°C		

E.&O.E

TYPES COMPARISON

OPTILINE 1270 MM LENGTH





Specification	Optiline 21-1******A1	Optiline 12-2******A1	Optiline 12-3******A1
Rated Luminous Flux (Clear)	6739 lm	8665 lm	10342 lm
Rated Luminous Flux (Frosted)	6504 lm	8363 lm	9981 lm
Rated Luminous Flux (Opal)	5700 lm	7329 lm	8747 lm
Rated Luminous Flux – Emergency (Clear)	1250 lm	1250 lm	1250 lm
Rated Luminous Flux – Emergency (Frosted)	1200 lm	1200 lm	1200 lm
Rated Luminous Flux – Emergency (Opal)	1050 lm	1050 lm	1050 lm
Light Source Type	2 × LED Module 18W	2 × LED Module 23W	2 × LED Module 27W
Colour Temperature [K]	3000K/ 4000K (standard)/ 5000K*		
CRI	>70*>80 (standard) >90*		
Efficacy of Complete Luminaire [lm/W]	144 – 170 (depending on diffuser type)	149 – 176 (depending on diffuser type)	149 – 176 (depending on diffuser type)
Lifetime [h]	L80B10 @ 25°C: 80,000 LED driver @ 25°C: 100,000 L90B10 @ 50°C: 70,000 LED driver @ 50°C: 70,000		
Working Temperature	0°C ≤ Ta ≤ +45°C		

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TYPES COMPARISON

OPTILINE 670 MM LENGTH





Specification	Optiline 60-1******CBX/CBY	Optiline 60-2******CBX/CBY	Optiline 60-3******CBX/CBY
Rated Luminous Flux (Clear)	3485 lm	4422 lm	5182 lm
Rated Luminous Flux (Frosted)	3324 lm	4218 lm	4943 lm
Rated Luminous Flux (Opal)	2931 lm	3719 lm	4358 lm
Rated Luminous Flux – Emergency (Clear)	1650 lm	2150 lm	2650 lm
Rated Luminous Flux – Emergency (Frosted)	1560 lm	2040 lm	2540 lm
Rated Luminous Flux – Emergency (Opal)	1400 lm	1820 lm	2200 lm
Light Source Type	1 × LED Module 18W	1 × LED Module 23W	1 × LED Module 27W
Colour Temperature [K]	3000K4000K (standard)5000K*		
CRI	>70*>80 (standard)>90*		
Efficacy of Complete Luminaire [lm/W]	137 – 163 (depending on diffuser type)	142 – 169 (depending on diffuser type)	141 – 168 (depending on diffuser type)
Lifetime [h]	L80B10 @ 25°C: 80,000 LED driver @ 25°C: 100,000 L90B10 @ 50°C: 70,000 LED driver @ 50°C: 70,000		
Working Temperature	-30°C ≤ Ta ≤ +50°C		

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TYPES COMPARISON
OPTILINE 1270MM LENGTH



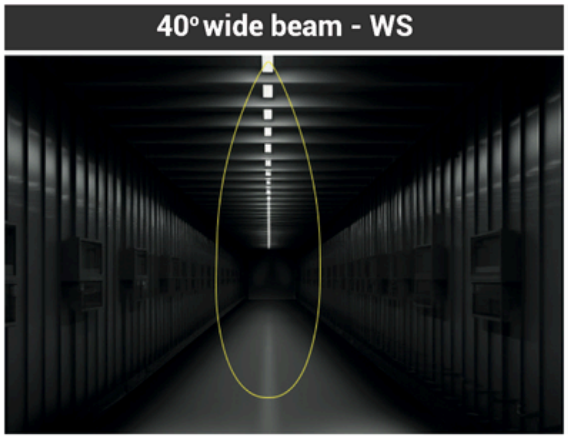
Specification	18W Version	23W Version	27W Version
Rated Luminous Flux (Clear)	3485 lm	4422 lm	5182 lm
Rated Luminous Flux (Frosted)	3324 lm	4218 lm	4943 lm
Rated Luminous Flux (Opal)	2931 lm	3719 lm	4358 lm
Rated Luminous Flux – Emergency (Clear)	1650 lm	2150 lm	2650 lm
Rated Luminous Flux – Emergency (Frosted)	1560 lm	2040 lm	2540 lm
Rated Luminous Flux – Emergency (Opal)	1400 lm	1820 lm	2200 lm
Light Source Type	1 × LED Module 18W	1 × LED Module 23W	1 × LED Module 27W
Colour Temperature [K]	3000K/ 4000K (standard)/ 5000K*		
CRI	>70* >80 (standard) >90*		
Efficacy of Complete Luminaire [lm/W]	137 – 163 (depending on diffuser type)	142 – 169 (depending on diffuser type)	141 – 168 (depending on diffuser type)
Lifetime [h]	L80B10 @ 25°C: 80,000 LED driver @ 25°C: 100,000 L90B10 @ 50°C: 70,000 LED driver @ 50°C: 70,000		
Working Temperature	-30°C ≤ Ta ≤ +50°C		

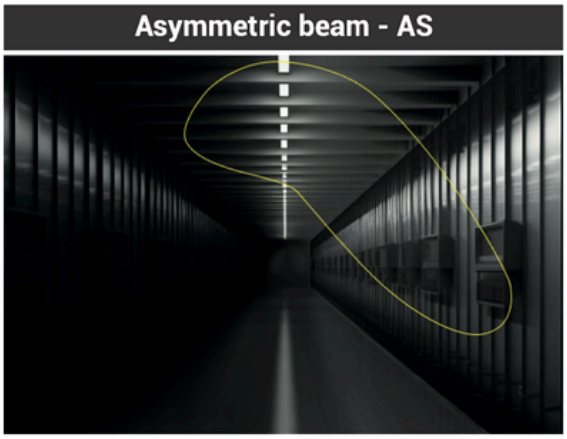
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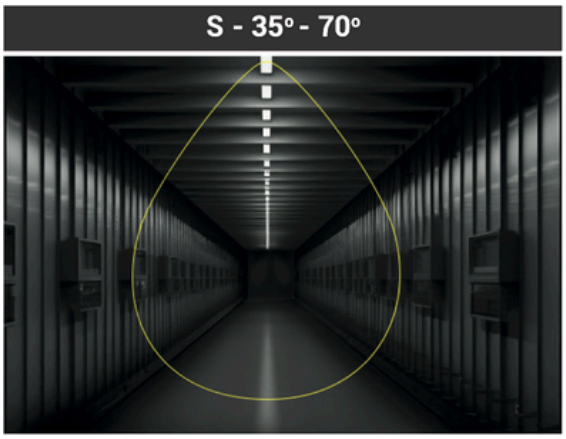
DIRECTIONAL LENSES

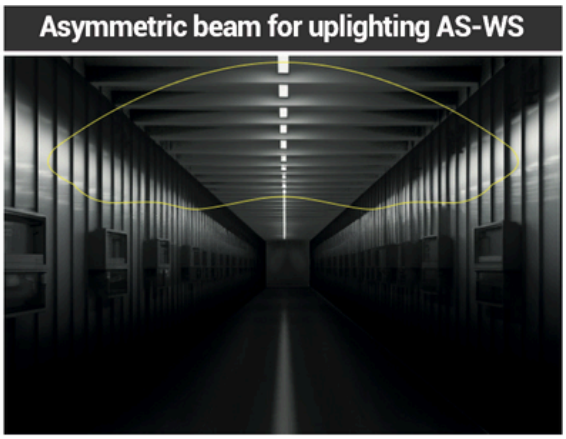
Possibility to adjust light distribution of already installed luminaire by using of accessory directional lenses. 4 basic lenses:

- 40° wide beam - WS
- asymmetric beam - AS
- S-35°-70°
- asymmetric beam for uplighting AS-WS

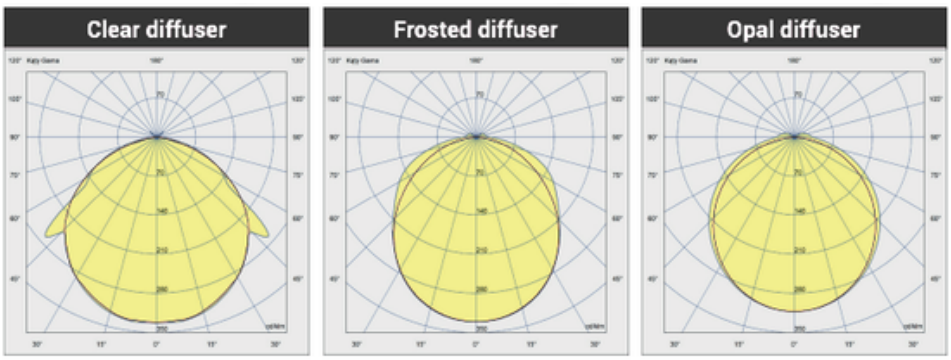








PHOTOMETRY



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DIMENSION & MOUNTING OPTIONS

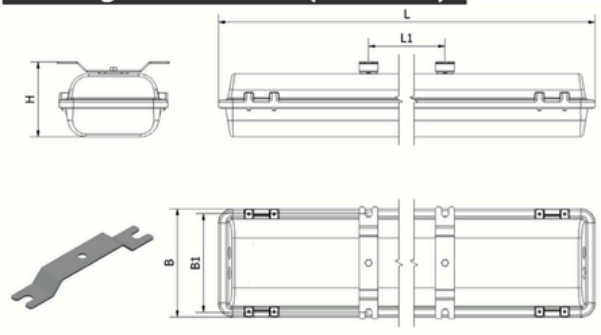
FIXTURE TYPE DIMENSIONS

Fixture type	L	L1	B
OptiLine 60-********	670	400	173
OptiLine 12-********	1276	800	173

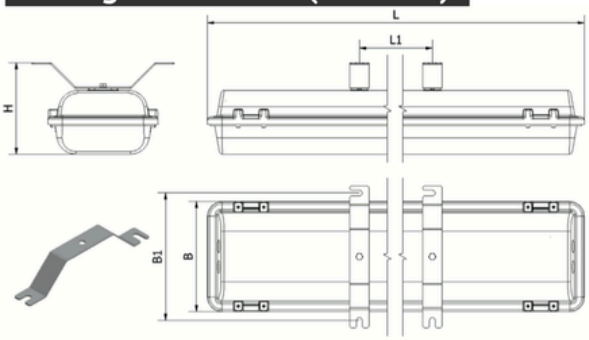
DIMENSIONS DEPEND ON MOUNTING TYPE

Mounting type	H	B1
Eyelet hanger R20	136	–
Pole mount bracket R50	156.2	–
Ceiling bracket D18	119	157
Ceiling bracket D40	143.7	200
Ceiling bracket C	153.4	–
Wall bracket K45	184.7	–

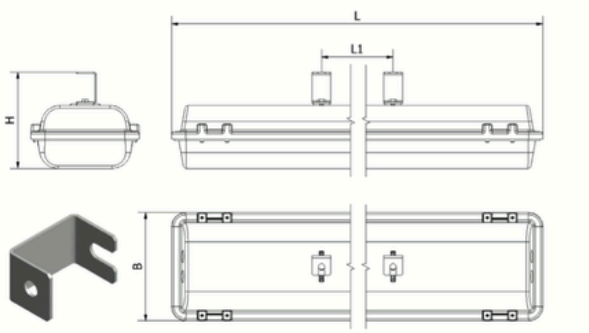
Ceiling bracket D18 (code M1)



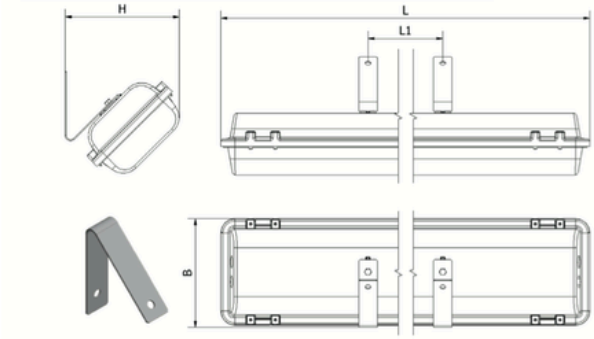
Ceiling bracket D40 (code M2)



Ceiling bracket C (code M4)

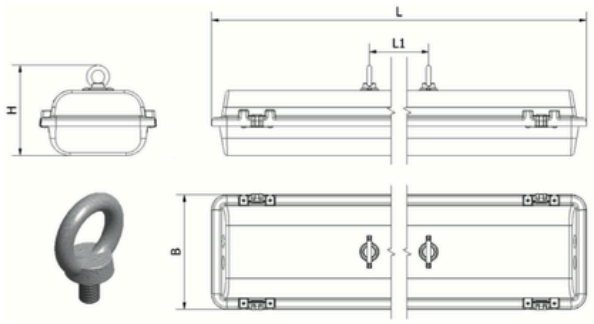


Wall bracket K45 (code M3)

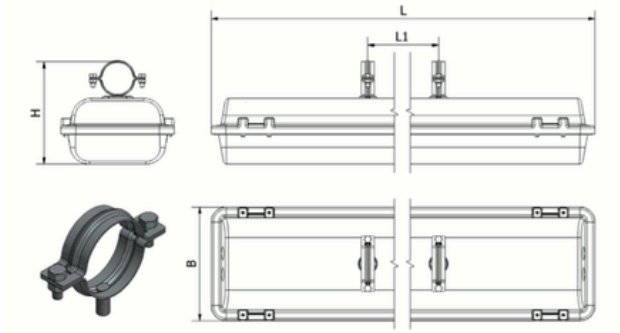


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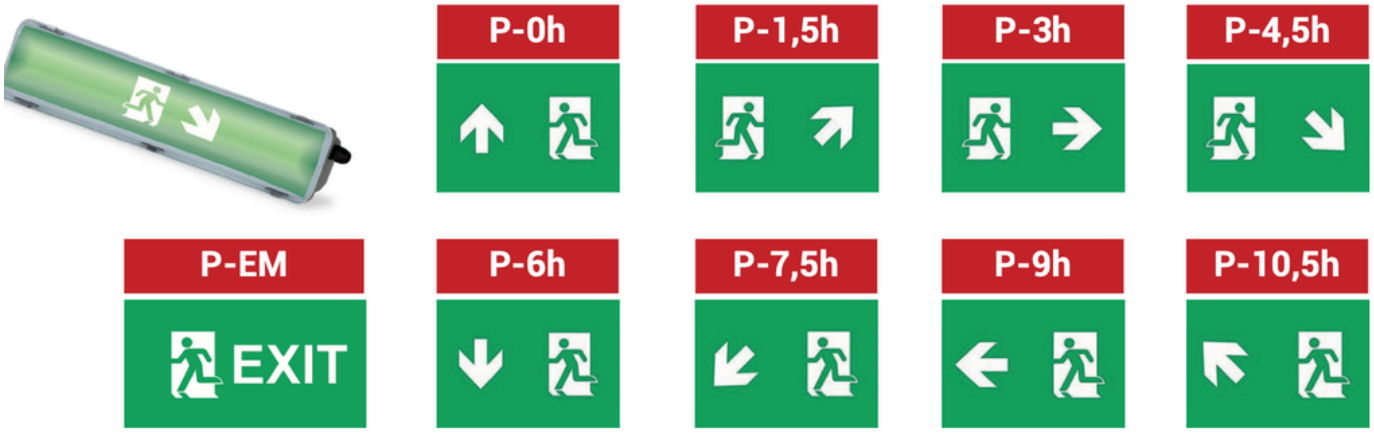
Eyelet hanger R20 (kod M5)



Pole mount bracket R50 (code M6)



EMERGENCY PICTOGRAMS CODIFICATION



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