



**MOLONEYFOX**  
CONSULTING ENGINEERS

**PROJECT NO. 24.2894**

**PUBLIC LIGHTING DESIGN  
(MECHANICAL AND ELECTRICAL SERVICES)**

***BOTHAR NA CHOISTE LRD***

**HEADFORD**

**CO. GALWAY**

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## DP25-0010

Bothar na Choiste, Headford Galway

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Site 1

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Site 1

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Site 1

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## Luminaire list

 $\Phi_{\text{total}}$ 

370500 lm

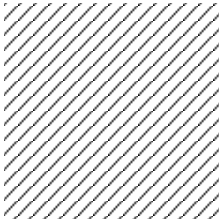
 $P_{\text{total}}$ 

2756.0 W

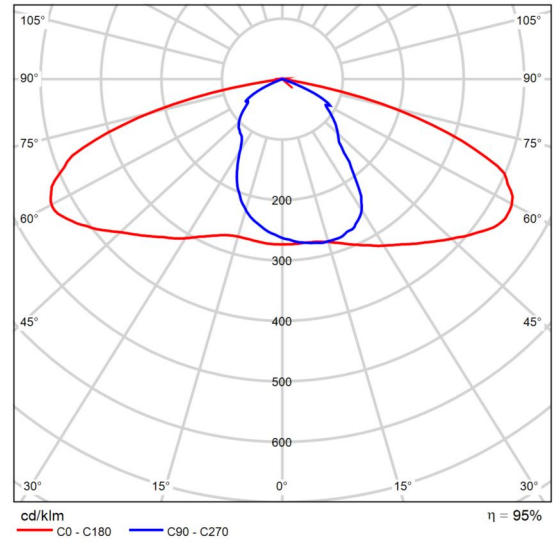
pcs.	Manufacturer	Article No.	Article name	P	$\Phi$
16			MICROPLUS GERMANY MPG-2-80W	84.8 W	11400 lm
44	MICROPLUS GERMANY		MPG-1N-30W	31.8 W	4275 lm

## Product data sheet

- MICROPLUS GERMANY MPG-2-80W



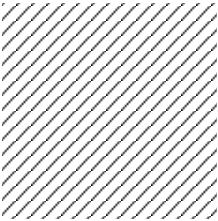
P	84.8 W
$\Phi_{Lamp}$	12000 lm
$\Phi_{Luminaire}$	11400 lm
$\eta$	95.00 %
CCT	2700 K
CRI	72



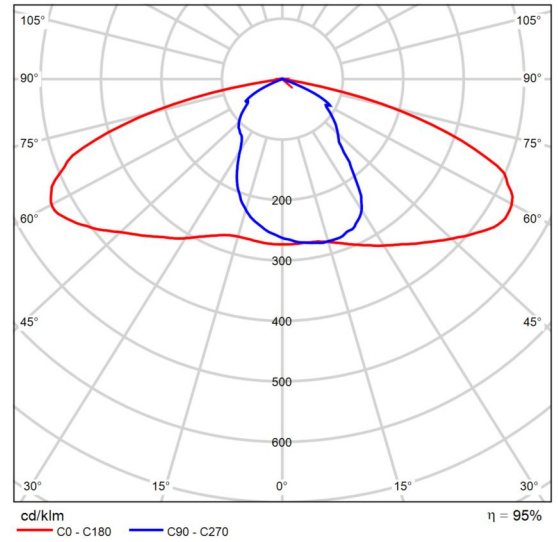
Polar LDC

## Product data sheet

MICROPLUS GERMANY - MPG-1N-30W



P	31.8 W
$\Phi_{Lamp}$	4500 lm
$\Phi_{Luminaire}$	4275 lm
$\eta$	94.99 %
CCT	2700 K
CRI	72



Polar LDC

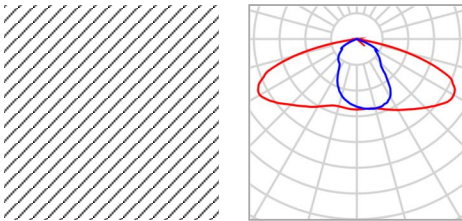
Site 1

# Luminaire layout plan



Site 1

### Luminaire layout plan



Article name	MICROPLUS GERMANY MPG-2- 80W	P	84.8 W
Fitting	1x	$\Phi_{\text{Luminaire}}$	11400 lm

#### Individual luminaires

X	Y	Mounting height	Housing rotation	MF	Luminaire
523.423 m	490.209 m	8.000 m	0.0° / 0.0° / -138.0°	0.80	39
487.222 m	448.424 m	8.000 m	0.0° / 0.0° / -120.8°	0.80	40
459.476 m	407.917 m	8.000 m	0.0° / 0.0° / -128.0°	0.80	41
421.863 m	375.621 m	8.000 m	0.0° / 0.0° / -145.2°	0.80	42
378.874 m	345.740 m	8.000 m	0.0° / 0.0° / -145.2°	0.80	49
334.493 m	316.869 m	8.000 m	0.0° / 0.0° / -141.9°	0.80	50
295.080 m	280.774 m	8.000 m	0.0° / 0.0° / -141.9°	0.80	51
255.279 m	244.627 m	8.000 m	0.0° / 0.0° / -134.8°	0.80	52
215.169 m	208.844 m	8.000 m	0.0° / 0.0° / -143.2°	0.80	53
142.264 m	153.804 m	8.000 m	10.0° / 0.0° / - 159.9°	0.80	54
182.095 m	178.250 m	8.000 m	0.0° / 0.0° / -125.3°	0.80	55
92.144 m	134.389 m	8.000 m	10.0° / 0.0° / - 170.2°	0.80	56

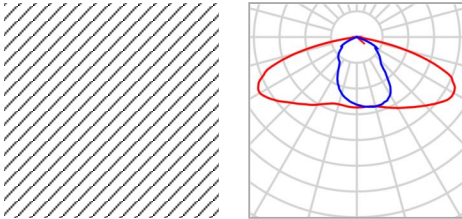
Site 1

**Luminaire layout plan**

X	Y	Mounting height	Housing rotation	MF	Luminaire
149.680 m	133.306 m	8.000 m	0.0° / 0.0° / 7.8°	0.80	57
183.304 m	134.204 m	8.000 m	15.0° / 0.0° / 48.2°	0.80	58
246.506 m	161.013 m	8.000 m	15.0° / 0.0° / - 170.2°	0.80	59
210.256 m	155.709 m	8.000 m	15.0° / 0.0° / - 170.2°	0.80	60

Site 1

## Luminaire layout plan



Manufacturer	MICROPLUS GERMANY	P	31.8 W
Article name	MPG-1N-30W	$\Phi_{\text{Luminaire}}$	4275 lm
Fitting	1x MICROLED DE 150lm/W		

### Individual luminaires

X	Y	Mounting height	Housing rotation	MF	Luminaire
307.571 m	570.936 m	6.000 m	10.0° / 0.0° / 20.0°	0.80	1
291.956 m	577.545 m	6.000 m	0.0° / 0.0° / -160.0°	0.80	2
340.250 m	577.581 m	6.000 m	0.0° / 0.0° / 20.0°	0.80	3
330.704 m	591.891 m	6.000 m	0.0° / 0.0° / -160.0°	0.80	4
371.590 m	589.401 m	6.000 m	0.0° / 0.0° / 20.0°	0.80	5
360.900 m	602.926 m	6.000 m	0.0° / 0.0° / -160.0°	0.80	6
394.537 m	615.513 m	6.000 m	0.0° / 0.0° / -160.0°	0.80	7
404.068 m	601.258 m	6.000 m	0.0° / 0.0° / 20.0°	0.80	8
432.922 m	614.412 m	6.000 m	0.0° / 0.0° / 32.5°	0.80	9
428.023 m	627.822 m	6.000 m	0.0° / 0.0° / -160.0°	0.80	10
359.780 m	507.337 m	6.000 m	0.0° / 0.0° / 31.7°	0.80	11
347.708 m	512.041 m	6.000 m	0.0° / 0.0° / -148.3°	0.80	12
380.394 m	520.257 m	6.000 m	0.0° / 0.0° / 31.7°	0.80	13

## Site 1

## Luminaire layout plan

X	Y	Mounting height	Housing rotation	MF	Luminaire
382.725 m	538.915 m	6.000 m	0.0° / 0.0° / -148.3°	0.80	14
359.341 m	537.606 m	6.000 m	15.0° / 0.0° / 122.5°	0.80	15
345.219 m	559.947 m	6.000 m	15.0° / 0.0° / 122.5°	0.80	16
410.658 m	539.289 m	6.000 m	0.0° / 0.0° / 31.7°	0.80	17
409.933 m	556.044 m	6.000 m	0.0° / 0.0° / -148.3°	0.80	18
415.373 m	580.040 m	6.000 m	0.0° / 0.0° / 122.5°	0.80	19
397.699 m	580.413 m	6.000 m	0.0° / 0.0° / -57.5°	0.80	20
444.149 m	545.354 m	6.000 m	10.0° / 0.0° / 122.5°	0.80	21
460.123 m	519.168 m	6.000 m	10.0° / 0.0° / 122.5°	0.80	22
430.980 m	535.048 m	6.000 m	10.0° / 0.0° / -57.5°	0.80	23
444.764 m	513.255 m	6.000 m	10.0° / 0.0° / -57.5°	0.80	24
484.418 m	512.757 m	6.000 m	15.0° / 0.0° / 31.7°	0.80	25
499.096 m	521.882 m	6.000 m	15.0° / 0.0° / 31.7°	0.80	26
517.019 m	535.570 m	6.000 m	0.0° / 0.0° / 121.7°	0.80	27
447.860 m	490.141 m	6.000 m	0.0° / 0.0° / 31.7°	0.80	28
409.287 m	449.341 m	6.000 m	0.0° / 0.0° / -58.1°	0.80	29
423.378 m	460.378 m	6.000 m	15.0° / 0.0° / 120.9°	0.80	30
394.398 m	438.946 m	6.000 m	15.0° / 0.0° / -59.1°	0.80	31
440.307 m	469.483 m	6.000 m	15.0° / 0.0° / 120.9°	0.80	32
424.676 m	461.212 m	6.000 m	15.0° / 0.0° / -59.1°	0.80	33
378.240 m	461.109 m	6.000 m	15.0° / 0.0° / -147.2°	0.80	34

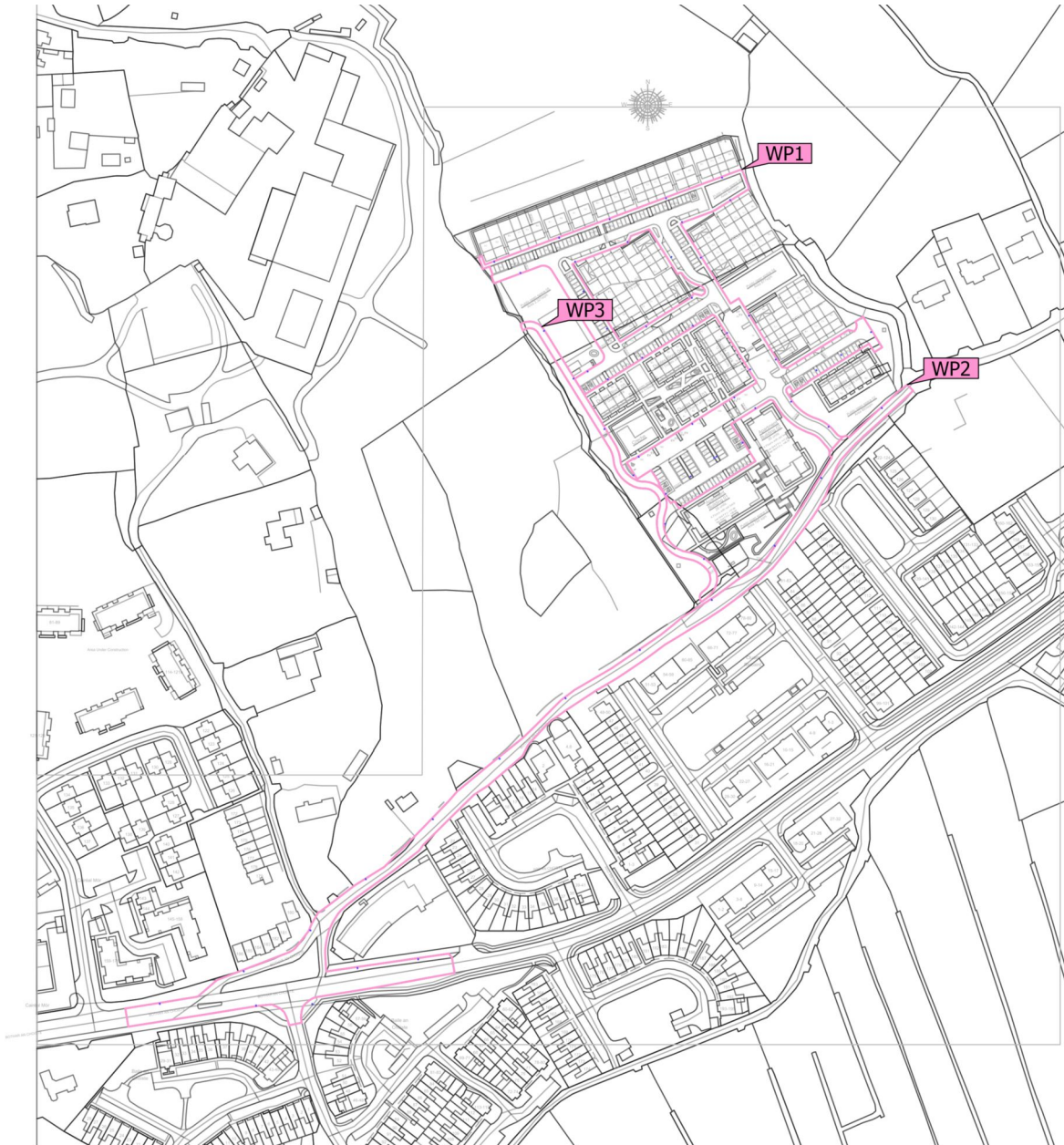
Site 1

## Luminaire layout plan

X	Y	Mounting height	Housing rotation	MF	Luminaire
410.249 m	480.705 m	6.000 m	0.0° / 0.0° / -147.2°	0.80	35
435.330 m	496.546 m	6.000 m	0.0° / 0.0° / -147.2°	0.80	36
469.280 m	494.052 m	6.000 m	0.0° / 0.0° / 123.7°	0.80	37
491.615 m	479.010 m	6.000 m	15.0° / 0.0° / 142.3°	0.80	38
321.670 m	536.267 m	6.000 m	15.0° / 0.0° / 122.5°	0.80	43
357.789 m	477.666 m	6.000 m	15.0° / 0.0° / 122.5°	0.80	44
394.123 m	421.093 m	6.000 m	0.0° / 0.0° / 113.2°	0.80	45
339.319 m	507.817 m	6.000 m	15.0° / 0.0° / 122.5°	0.80	46
375.013 m	450.023 m	6.000 m	15.0° / 0.0° / 122.5°	0.80	47
417.217 m	400.083 m	6.000 m	0.0° / 0.0° / 144.2°	0.80	48

Site 1 (Light scene 1)

### Calculation objects



Site 1 (Light scene 1)

## Calculation objects

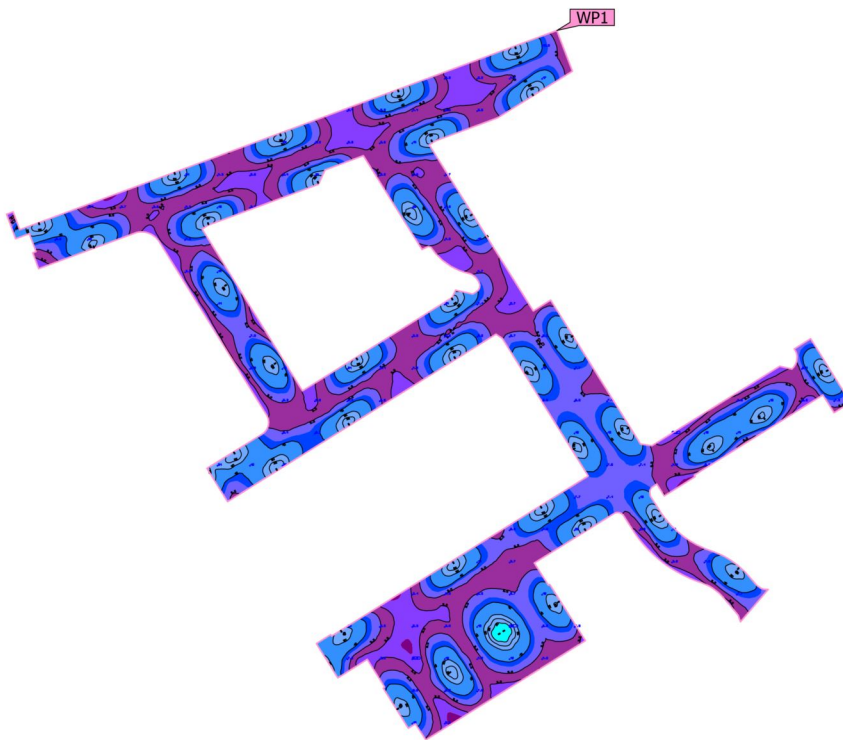
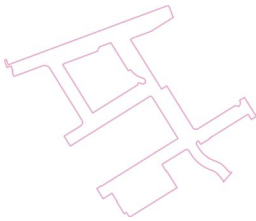
Work planes

Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Workplane (Estates) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	8.83 lx ( $\geq 7.50$ lx) ✓	1.58 lx	38.5 lx	0.18	0.041	WP1
Workplane (Road) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	11.6 lx ( $\geq 7.50$ lx) ✓	1.73 lx	42.0 lx	0.15	0.041	WP2
Workplane (Path) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	9.96 lx ( $\geq 7.50$ lx) ✓	1.58 lx	30.5 lx	0.16	0.052	WP3

Utilisation profile: General circulation areas at outdoor workplaces, P3

Estates (Light scene 1)

### Workplane (Estates)



Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Workplane (Estates) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	8.83 lx (≥ 7.50 lx) ✓	1.58 lx	38.5 lx	0.18	0.041	WP1

Utilisation profile: General circulation areas at outdoor workplaces, P3

Path (Light scene 1)

### Workplane (Path)

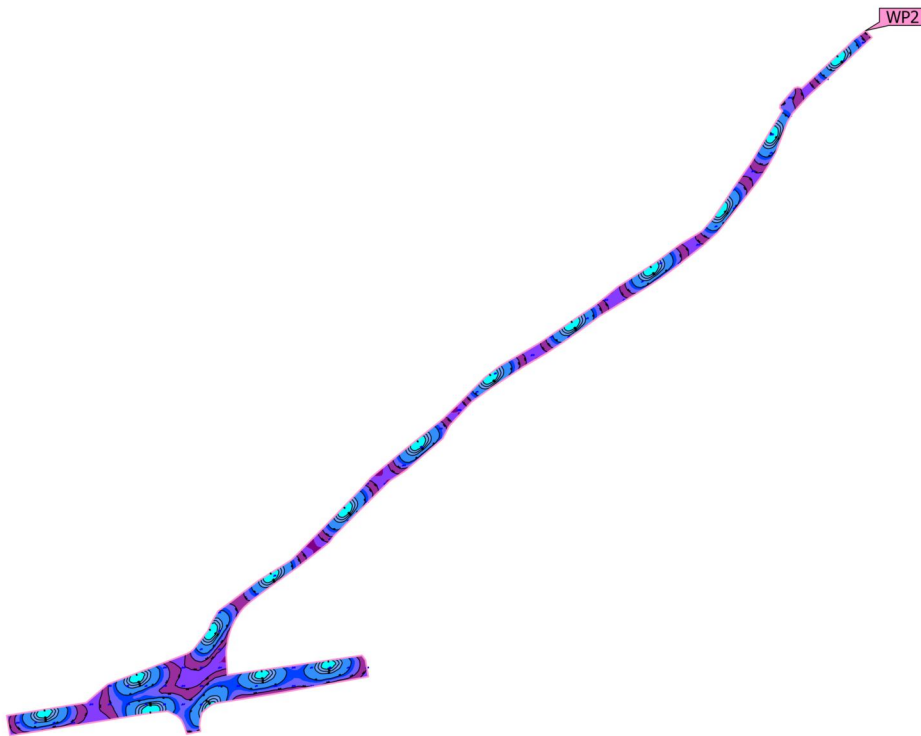
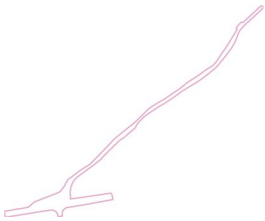


Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Workplane (Path) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	9.96 lx ( $\geq 7.50$ lx) ✓	1.58 lx	30.5 lx	0.16	0.052	WP3

Utilisation profile: General circulation areas at outdoor workplaces, P3

Road (Light scene 1)

### Workplane (Road)



Properties	$\bar{E}$ (Target)	$E_{min}$	$E_{max}$	$g_1$	$g_2$	Index
Workplane (Road) Perpendicular illuminance (adaptive) Height: 0.000 m, Wall zone: 0.000 m	11.6 lx ( $\geq 7.50$ lx) ✓	1.73 lx	42.0 lx	0.15	0.041	WP2

Utilisation profile: General circulation areas at outdoor workplaces, P3