

## TECHNICAL CHARACTERISTICS

### COMPLIANCE WITH STANDARDS

EN 60598-1 - EN 60598-2-5

### MATERIAL FINISHES

Casing:	die-cast aluminium
Corrosion-proof treatment:	"ALODINE 1200" chromate treatment
Painting:	polyester graphite grey and aluminium
Dishes:	in aluminium 99.85 polished and anodized/ high-modulus methacrylate
Shield:	possibility of choice of shield between 3 different solutions tempered glass / polycarbonate / high-modulus methacrylate
Seal:	silicone
Screws:	stainless steel
Opening clips:	black colour injection thermoplastic

### WIRING

Supply unit:	internal on galvanized steel plate
Lampholder:	ceramic - technopolymer fluorescent versions
Power supply terminal:	three-pole for cables of cross-section 2.5 mm <sup>2</sup>
Cables:	flexible, silicone insulated and glass fibre braid
Cosφ:	≥ 0.9

### ACCESSORIES SUPPLIED

Suspension clip:	galvanized and painted steel
Retaining chains:	galvanized steel
Cable gland:	technopolymer Pg 13.5 for cables Ø 6.5 - 11.5 mm
Packaging:	cardboard

### BEHAVIOUR WITH CHEMICAL AND CORROSIVE AGENTS\*

Water	Sea air	Acids	Bases	Ketones	Spirits	Silicone oil	Oils/Greases	Petrol
Resistant	Limited resistance	Limited resistance	Limited resistance	Resistant	Resistant	Resistant	Resistant	Resistant

\* Values referring to coated painted with thermosetting powders. For behaviour with other chemical agents, see the section "General technical information".

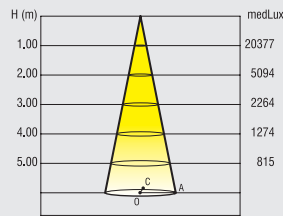
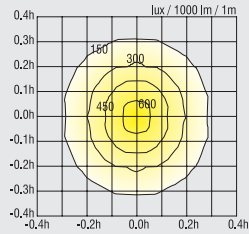
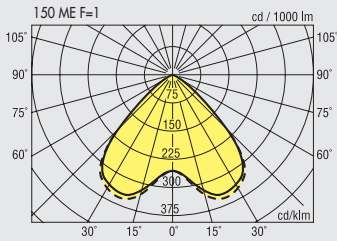
### ATEX CLASSIFICATION FOR HALLE ARTICLES

HALLE (only versions with closing glass):  
CE II 3GD T2 IP65

### PHOTOMETRIC CURVES

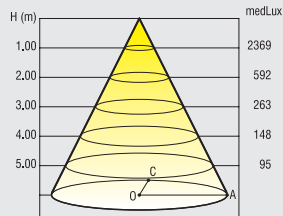
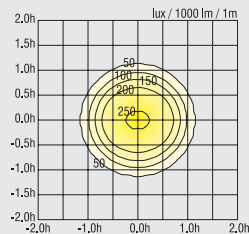
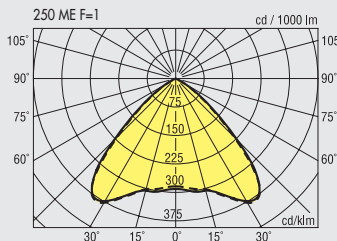
#### HALLE SMOOTH OPTICS WITH GLASS

**GW 83 326**



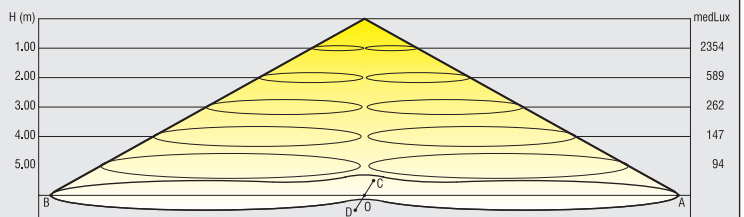
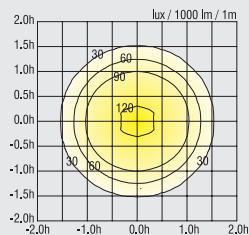
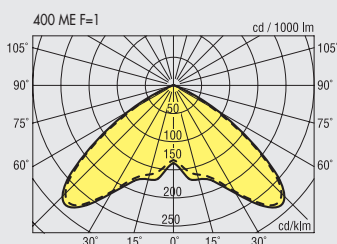
H [m]	1.00	2.00	3.00	4.00	5.00
OA	0.20	0.40	0.60	0.81	1.01
OC	0.18	0.36	0.53	0.71	0.89

**GW 83 028M**



H [m]	1.00	2.00	3.00	4.00	5.00
OA	1.13	2.26	3.39	4.52	5.65
OC	1.16	2.31	3.47	4.63	5.79

**GW 83 031M**



H [m]	1.00	2.00	3.00	4.00	5.00
OA/OB	1.81	3.53	5.29	7.18	8.75
OC/OD	0.98	1.97	2.95	3.93	4.91

# HALLE RANGE

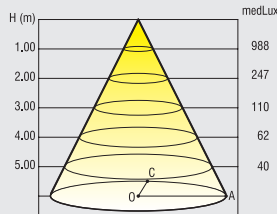
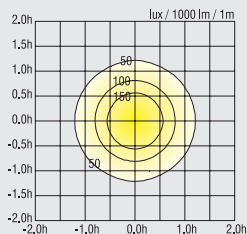
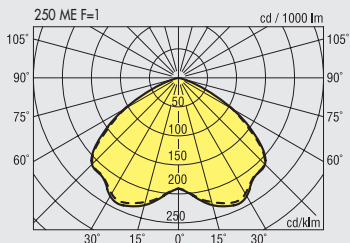
WATERTIGHT SUSPENSION REFLECTORS



## TECHNICAL CHARACTERISTICS

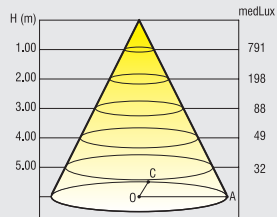
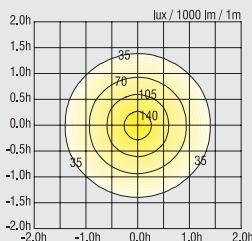
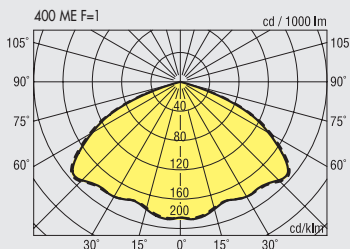
### HALLE DIFFUSED OPTICS WITH GLASS

**GW 83 128M**



H [m]	1.00	2.00	3.00	4.00	5.00
OA	1.73	3.47	5.20	6.94	8.67
OC	1.71	3.41	5.12	6.83	8.53

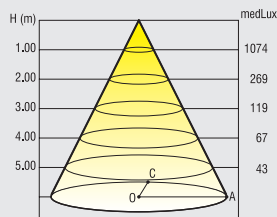
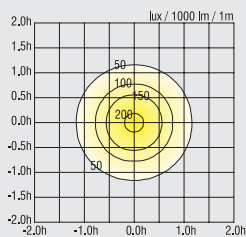
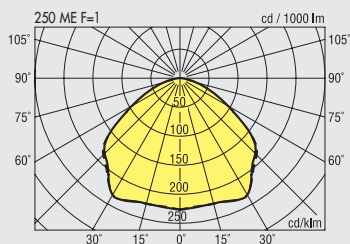
**GW 83 131M**



H [m]	1.00	2.00	3.00	4.00	5.00
OA	2.53	5.06	7.59	10.12	12.64
OC	2.54	5.08	7.62	10.16	12.70

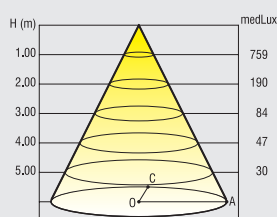
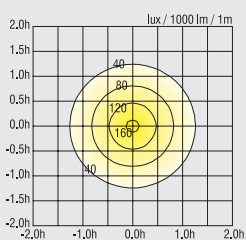
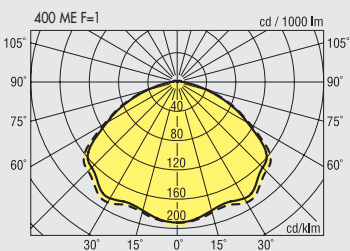
### HALLE DIFFUSED OPTICS WITH BOWL PC

**GW 83 153M**



H [m]	1.00	2.00	3.00	4.00	5.00
OA	1.59	3.18	4.77	6.36	7.95
OC	1.59	3.17	4.76	6.35	7.93

**GW 83 156M**

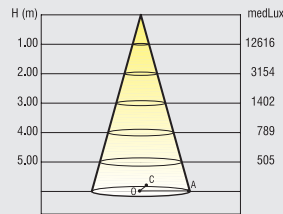
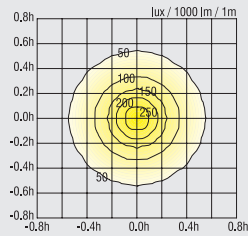
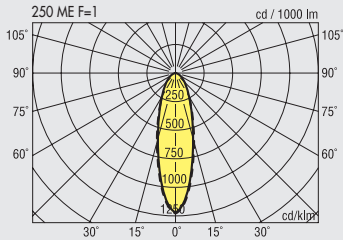


H [m]	1.00	2.00	3.00	4.00	5.00
OA	2.46	4.92	7.38	9.84	12.30
OC	2.53	5.05	7.58	10.11	12.64

### PHOTOMETRIC CURVES

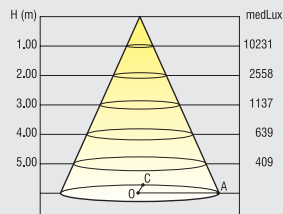
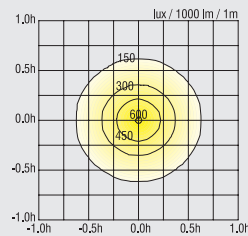
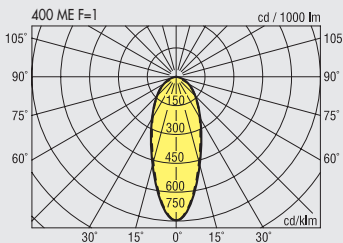
#### HALLE RESTRICTED BEAM OPTICS WITH GLASS

**GW 83 228M**



H [m]	1.00	2.00	3.00	4.00	5.00
OA	0.28	0.56	0.83	1.11	1.39
OC	0.28	0.56	0.84	1.12	1.40

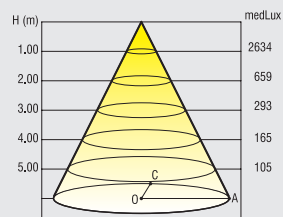
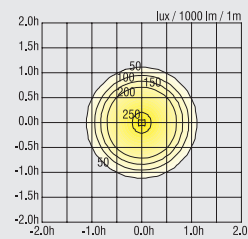
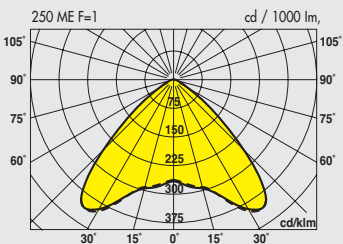
**GW 83 231M**



H [m]	1.00	2.00	3.00	4.00	5.00
OA	0.45	0.90	1.35	1.81	2.26
OC	0.48	0.95	1.43	1.90	2.38

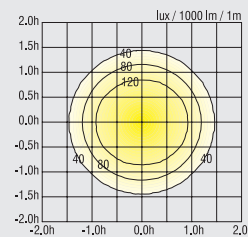
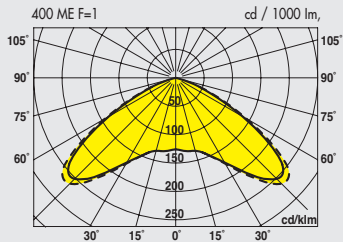
#### HALLE PRISMATIC DESIGN OPTICS WITH GLASS

**GW 83 453**



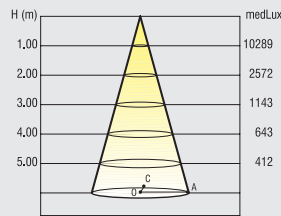
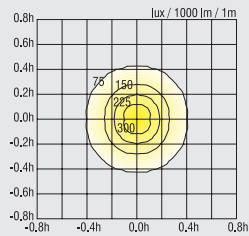
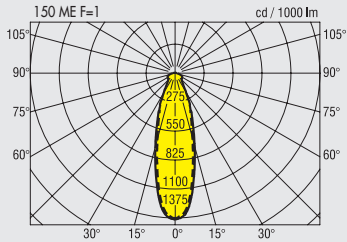
H [m]	1.00	2.00	3.00	4.00	5.00
OA	1.07	2.15	3.22	4.29	5.36
OC	1.06	2.12	3.18	4.24	5.30

**GW 83 431**



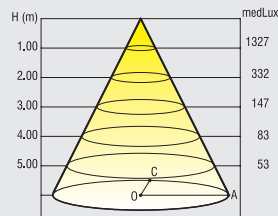
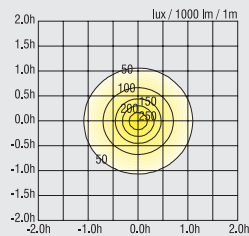
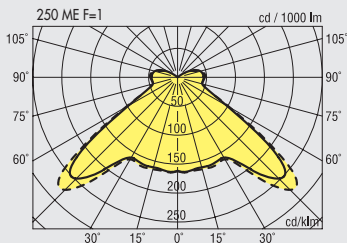
### HALLE OPEN TRANSPARENT OPTICS

**GW 83 401**



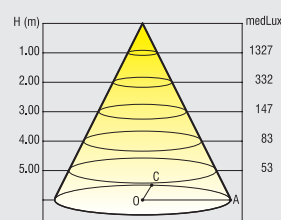
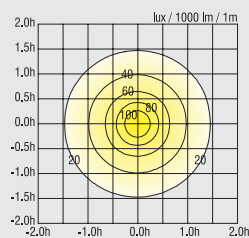
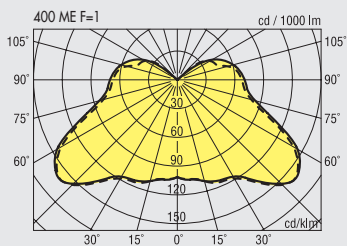
H [m]	1.00	2.00	3.00	4.00	5.00
OA	0.28	0.55	0.83	1.10	1.38
OC	0.25	0.50	0.74	0.99	1.24

**GW 83 403**



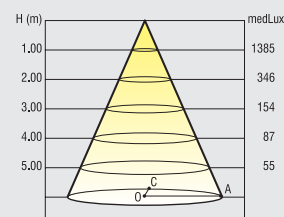
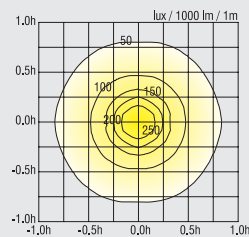
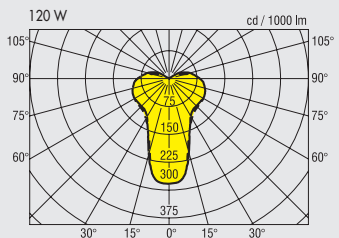
H [m]	1.00	2.00	3.00	4.00	5.00
OA	1.25	2.49	3.74	4.99	6.23
OC	1.36	2.72	4.08	5.44	6.80

**GW 83 406**



H [m]	1.00	2.00	3.00	4.00	5.00
OA	0.51	1.02	1.54	2.05	2.56
OC	0.50	1.00	1.50	2.00	2.50

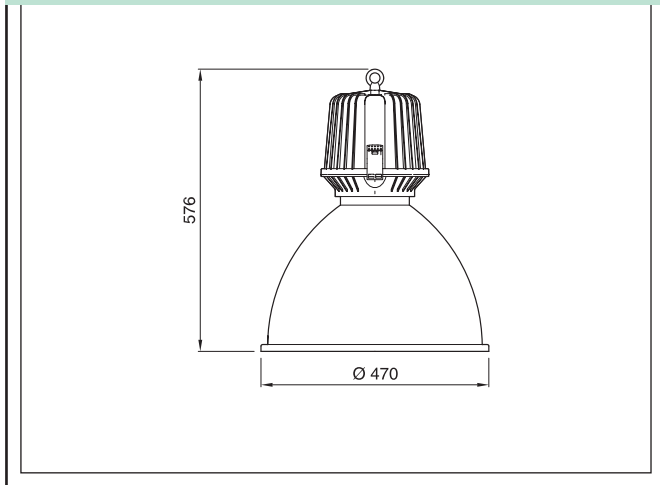
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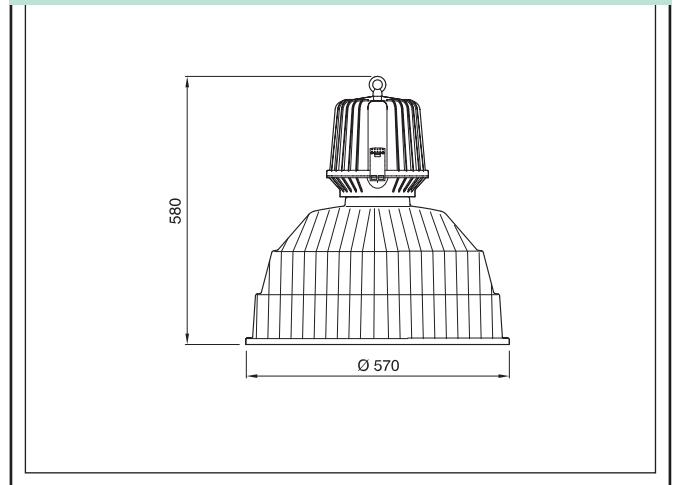
H [m]	1.00	2.00	3.00	4.00	5.00
OA	0.44	0.88	1.33	1.77	2.21
OC	0.45	0.90	1.35	1.80	2.26

### DIMENSION TABLES

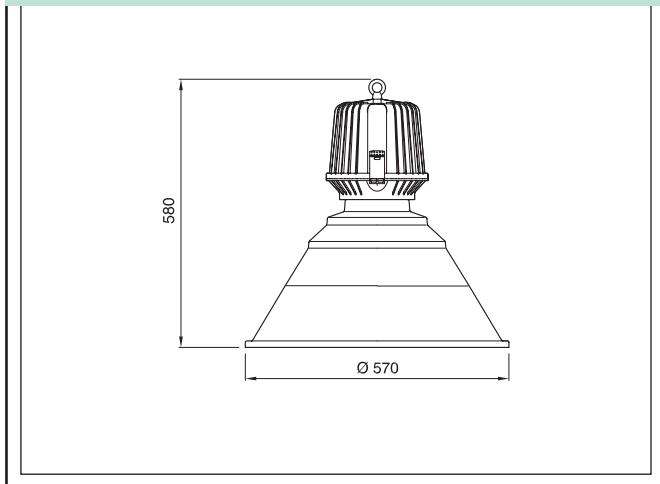
#### HALLE SMOOTH OPTICS



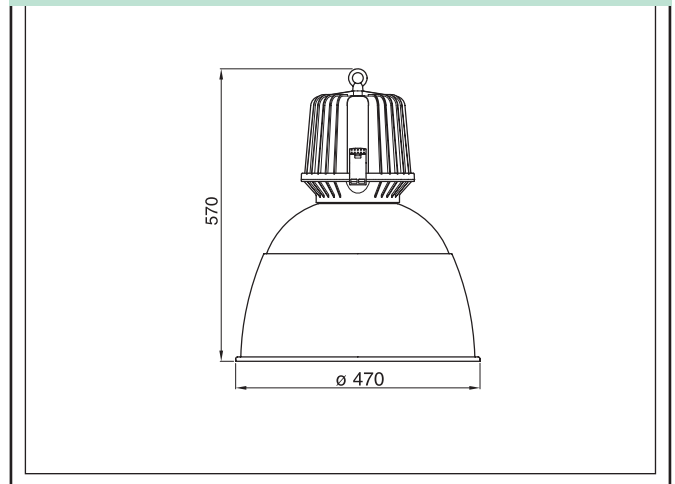
#### HALLE DIFFUSED OPTICS



#### HALLE RESTRICTED BEAM OPTICS



#### HALLE TRANSPARENT OPTICS



#### HALLE PRISMATIC DESIGN OPTICS

