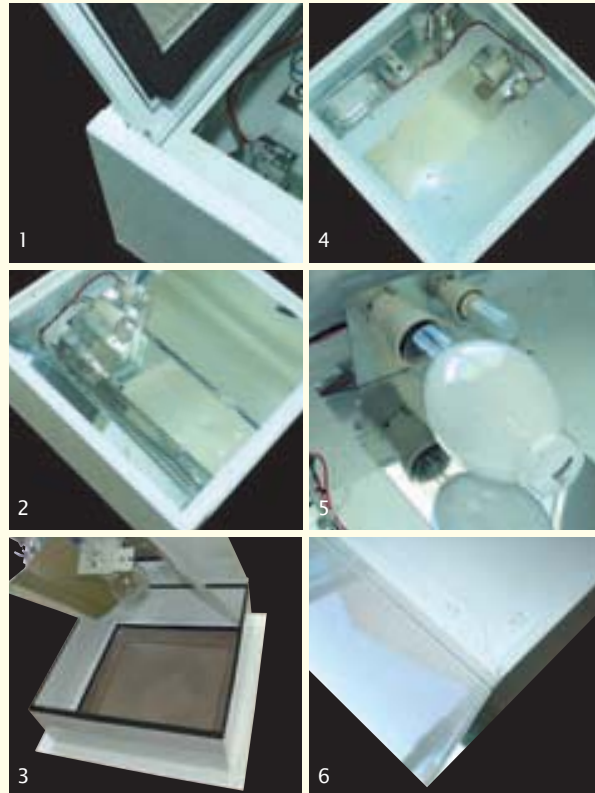
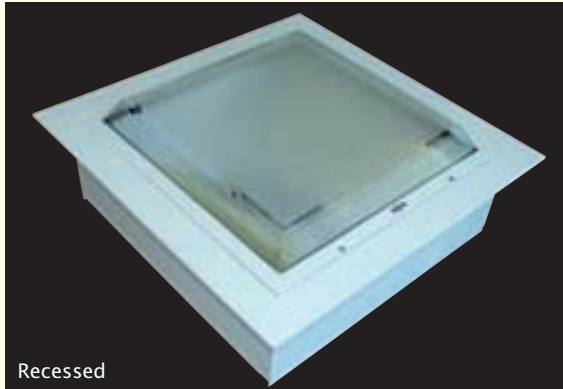
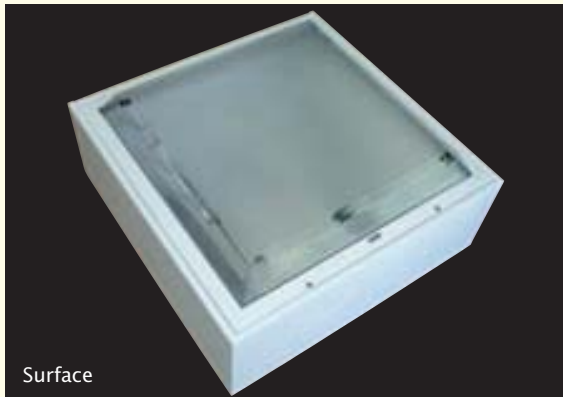


DEIMOS - COLD ROOM



FEATURES

- 1 Neoprene rubber gasketed & hinged diffuser frame.
 - 2 Internal specular aluminium reflectors. These can be individually removed for access to the control gear when servicing from the front
 - 3 Recessed model has a hinged gasketed rear access door. The control gear may also be accessed from the front.
 - 4 All control equipment is gear tray mounted. Gear trays are 1.2mm galvanized steel.
 - 5 The luminaire is supplied standard with pre-wiring to allow future on site fitting of a standby relay & lamp. The luminaire may also be ordered complete with the standby relay & lamp. After switch-on, or momentary loss of supply voltage, HID lamps take several minutes before full luminous output, or re-strike is achieved. In some applications, it is important to have some degree of instant light. The function of the relay is to provide instant light from the tungsten halogen standby lamp until the HID lamp is approximately 70% - 75% of full output, at which time the relay switches off the standby lamp. This is also the case in the event of a momentary loss of supply voltage. Should the HID lamp fail to strike, the standby lamp will remain on indefinitely.
 - 6 Surface mounted model is fitted with a 10mm mounting frame. The use of this frame ensures that after installation to the mounting surface, all rear holes in the luminaire are concealed from the environment, preventing moisture from entering into the luminaire. After installation, the mounting surface around this frame should be silicon sealed to prevent moisture entering the luminaire.
- Available in surface mounted and recessed models
 - Adjustable lamp holder to ensure same optical centre for different wattage types.
 - Powder coated white, 1 mm thick steel body & diffuser frame
 - Powder coated white, 1 mm thick one piece recessed mounting flange
 - E39 HID lamp holder
 - E27 Tungsten Halogen Standby lamp holder
 - Surface mounted model supplied with 25mm knockout for rear cable entry
 - Recessed model supplied with 25mm knockout for rear cable entry or complete with 1.5mtr flex & plug
 - UV stabilized polycarbonate shallow drop diffuser supplied as standard.
 - Deep drop & Pyramid style optional diffusers available
 - Supplied with either integral or remote control gear
 - Available in Metal Halide or High Pressure Sodium lamps

APPLICATION

- The Deimos series of luminaires are suitable for all cool room or cold room applications.
- The integral control gear models are suitable for operating in temperatures down to a minimum of -25°C. This is due to the operational temperatures of the igniter. Below this temperature remote control should be used.
- It is recommended that the use of Metal Halide lamps be restricted to applications of not less than -20°C. Applications below this temperature should use High Pressure Sodium.

DEIMOS - COLD ROOM

014A

Manufactured to standards – IEC60598.1
IEC60598.2.1
IEC60598.2.2
CISPR15



*“When your
business
depends
on light.”*

Model No.	Type	Model No.	Type
DES250MHS	Surface Mounted Metal Halide	DER250MHS	Recessed Mounted Metal Halide
DES400MHS	Surface Mounted Metal Halide	DER400MHS	Recessed Mounted Metal Halide
DES150SS	Surface Mounted HPS	DER150SS	Recessed Mounted HPS
DES250SS	Surface Mounted HPS	DER250SS	Recessed Mounted HPS
DES400SS	Surface Mounted HPS	DER400SS	Recessed Mounted HPS

Single ended E39/E40 lamps. Stand by lamp Osram halolux 644801M 250w TH E27 coated

Options	P Pyramid diffuser (Replaces S in model number)	TH250 250w Tungsten Halogen standby lamp & relay
	D Deep drop diffuser (Replaces S in model number)	(second suffix after model number)
	RC Remote Control (first suffix after model number)	Example: DER400MHRCTH250

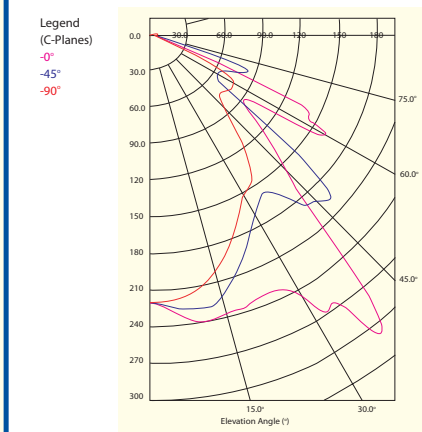
DEIMOS HPS

150w, 250w, 400w clear lamp

Photometric data applies to all three models

POLAR CURVE

cd/1000lms 1 Max 285cd in CO plane at 40° gamma



Legend (C-Planes)
 -0°
 -45°
 -90°

C0 Plane
 C45 Plane
 C90 Plane

CIE Aiming Convention
 CO Plane across the lamp

LUMINOUS INTENSITY TABLE (cd/1000lms)

γ Gamma	C0	C22.5	C45	C67.5	C90
0.0	219	219	219	219	219
5.0	227	227	225	221	218
10.0	238	238	229	219	212
15.0	237	236	222	211	202
20.0	236	224	207	199	186
25.0	232	213	187	179	168
30.0	248	203	171	165	151
35.0	258	237	158	172	145
40.0	285	261	175	163	120
45.0	159	141	190	104	84
50.0	121	102	188	69	72
55.0	91	92	72	71	78
60.0	178	99	64	81	80
65.0	148	125	66	70	55
70.0	32	42	87	34	26
75.0	18	20	50	18	18
80.0	12	13	14	15	16
85.0	9	9	8	10	10
90.0	3	4	4	4	3

LUMINOUS OPENING: 500mm x 500mm

AVERAGE LUMINANCE TABLE

γ Gamma	C0	C45	C90
45.0	808	931	426
55.0	548	414	471
65.0	1141	473	424
75.0	201	500	201
85.0	187	133	207

Luminance in cd/m²/1000lms

Lamp types

Coated or clear elliptical	Clear tubular	Stand by lamp
----------------------------	---------------	---------------

E39/E40 base
E27 base

Recessed mounting

Two pre-drilled mounting brackets are supplied. 4x5.5mm holes are provided (bracket to luminaire) and 8x4mm holes (luminaire to ceiling). Screws not supplied. No pre-drilled holes in luminaire.

Cut out size 600x600

DIMENSIONS

Recessed

H Shallow drop - 255
Pyramid diffuser - 282
Deep drop - 315
weight 19.5kg (Max)

Surface Mount

H Shallow drop - 252
Pyramid diffuser - 279
Deep drop - 312
weight 17.5kg (Max)

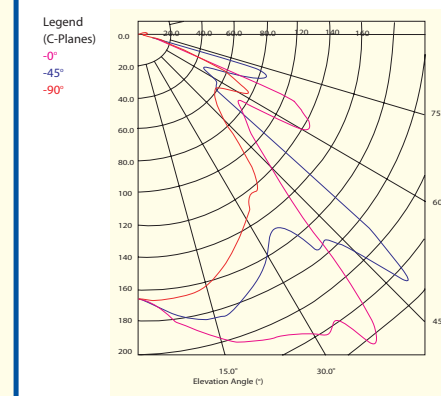
DEIMOS METAL HALIDE

250w & 400w clear lamp

Photometric data applies to both models

POLAR CURVE

cd/1000lms 1 Max 226cd in CO plane at 40° gamma



Legend (C-Planes)
 -0°
 -45°
 -90°

C0 Plane
 C45 Plane
 C90 Plane

CIE Aiming Convention
 CO Plane across the lamp

LUMINOUS INTENSITY TABLE (cd/1000lms)

γ Gamma	C0	C22.5	C45	C67.5	C90
0.0	164	164	164	164	164
5.0	174	175	173	169	167
10.0	187	188	181	172	166
15.0	197	195	183	171	163
20.0	204	199	180	167	154
25.0	208	196	172	157	145
30.0	216	189	160	146	133
35.0	213	198	147	147	120
40.0	226	231	179	198	114
45.0	112	121	189	101	74
50.0	89	85	197	65	61
55.0	76	77	63	61	57
60.0	121	73	55	56	68
65.0	112	114	41	81	69
70.0	49	76	77	57	45
75.0	17	19	74	19	18
80.0	11	12	14	15	15
85.0	8	9	7	10	10
90.0	2	4	4	4	2

LUMINOUS OPENING: 500mm x 500mm

AVERAGE LUMINANCE TABLE

γ Gamma	C0	C45	C90
45.0	572	928	376
55.0	461	360	347
65.0	864	295	530
75.0	189	741	200
85.0	169	126	212

Luminance in cd/m²/1000lms

UTILISATION FACTOR TABLE - CIBSE TM5 (fine grid method min/ave 0.8)

LOR: 63.7%				SHR NOM: 1.5 : 1.0					SHR MAX: 1.51 : 1.0						
Reflectance				Room Index (K)											
Ceiling	Walls	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.36	0.42	0.47	0.50	0.55	0.58	0.60	0.63	0.65	0.58	0.60	0.63	0.65
0.70	0.30	0.20	0.31	0.38	0.43	0.46	0.51	0.55	0.57	0.61	0.63	0.55	0.57	0.61	0.63
0.70	0.10	0.20	0.28	0.34	0.39	0.43	0.48	0.52	0.55	0.58	0.61	0.52	0.55	0.58	0.61
0.50	0.50	0.20	0.35	0.41	0.45	0.49	0.53	0.56	0.58	0.60	0.62	0.56	0.58	0.60	0.62
0.50	0.30	0.20	0.31	0.37	0.42	0.45	0.50	0.53	0.55	0.58	0.60	0.53	0.55	0.58	0.60
0.50	0.10	0.20	0.28	0.34	0.38	0.42	0.47	0.51	0.53	0.57	0.59	0.51	0.53	0.57	0.59
0.30	0.50	0.20	0.34	0.40	0.44	0.47	0.51	0.54	0.55	0.58	0.59	0.54	0.55	0.58	0.59
0.30	0.30	0.20	0.30	0.36	0.41	0.44	0.48	0.51	0.53	0.56	0.58	0.51	0.53	0.56	0.58
0.30	0.10	0.20	0.27	0.33	0.38	0.41	0.46	0.49	0.52	0.55	0.57	0.49	0.52	0.55	0.57
0.00	0.00	0.00	0.26	0.32	0.36	0.39	0.44	0.47	0.49	0.52	0.54	0.47	0.49	0.52	0.54
Distribution Factors		Floor:	0.26	0.32	0.36	0.39	0.44	0.47	0.49	0.52	0.54	0.47	0.49	0.52	0.54
		Walls:	0.35	0.30	0.25	0.22	0.18	0.15	0.12	0.10	0.08	0.15	0.12	0.10	0.08
		Ceiling:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Bz Numbers			5	4	4	4	4	4	4	4	4	4	4	4	4

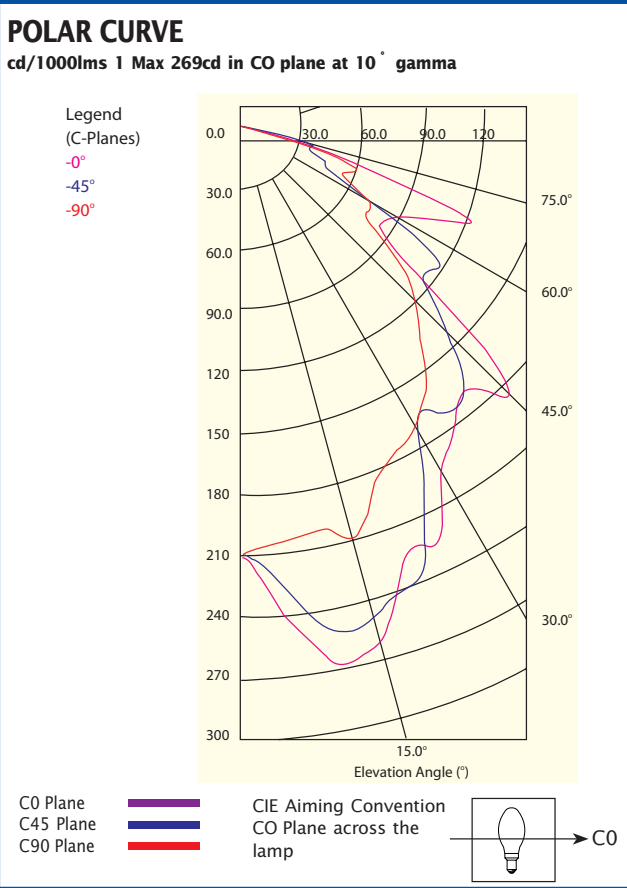
UTILISATION FACTOR TABLE - CIBSE TM5 (fine grid method min/ave 0.8)

LOR: 55.3%				SHR NOM: 1.5 : 1.0					SHR MAX: 1.54 : 1.0						
Reflectance				Room Index (K)											
Ceiling	Walls	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.32	0.38	0.42	0.45	0.49	0.52	0.54	0.56	0.58	0.52	0.54	0.56	0.58
0.70	0.30	0.20	0.28	0.33	0.37	0.41	0.45	0.49	0.51	0.54	0.56	0.49	0.51	0.54	0.56
0.70	0.10	0.20	0.24	0.30	0.34	0.38	0.42	0.46	0.48	0.52	0.54	0.46	0.48	0.52	0.54
0.50	0.50	0.20	0.31	0.36	0.40	0.43	0.47	0.49	0.51	0.54	0.55	0.49	0.51	0.54	0.55
0.50	0.30	0.20	0.27	0.32	0.37	0.40	0.44	0.47	0.49	0.52	0.54	0.47	0.49	0.52	0.54
0.50	0.10	0.20	0.24	0.30	0.34	0.37	0.41	0.45	0.47	0.50	0.52	0.45	0.47	0.50	0.52
0.30	0.50	0.20	0.30	0.35	0.39	0.41	0.45	0.48	0.49	0.51	0.53	0.48	0.49	0.51	0.53
0.30	0.30	0.20	0.27	0.32	0.36	0.39	0.43	0.45	0.47	0.50	0.52	0.45	0.47	0.50	0.52
0.30	0.10	0.20	0.24	0.29	0.33	0.36	0.41	0.44	0.46	0.49	0.50	0.44	0.46	0.49	0.50
0.00	0.00	0.00	0.23	0.28	0.31	0.34	0.38	0.41	0.43	0.46	0.47	0.41	0.43	0.46	0.47
Distribution Factors		Floor:	0.23	0.28	0.31	0.34	0.38	0.41	0.43	0.46	0.47	0.41	0.43	0.46	0.47
		Walls:	0.33	0.28	0.24	0.21	0.17	0.14	0.12	0.09	0.08	0.14	0.12	0.09	0.08
		Ceiling:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Bz Numbers			5	5	5	5	5	4	4	4	4	4	4	4	4

DEIMOS IN STAND BY MODE

250w tungsten halogen coated lamp

Osram Halolux 644801M. Luminous flux 4000 lumens.



LUMINOUS INTENSITY TABLE (cd/1000lms)

γ Gamma	C0	C22.5	C45	C67.5	C90
0.0	209	209	209	209	209
5.0	241	236	225	209	203
10.0	269	261	251	223	199
15.0	262	256	249	233	208
20.0	227	228	240	221	186
25.0	227	219	212	216	175
30.0	193	195	169	189	169
35.0	181	178	172	176	158
40.0	168	177	170	155	135
45.0	189	156	140	153	121
50.0	109	134	114	122	96
55.0	82	82	121	83	72
60.0	86	76	71	75	73
65.0	106	77	44	55	52
70.0	95	77	36	45	63
75.0	29	26	38	29	31
80.0	14	12	17	15	16
85.0	10	8	7	11	10
90.0	4	5	4	5	5

LUMINOUS OPENING: 500mm x 500mm

AVERAGE LUMINANCE TABLE

γ Gamma	C0	C45	C90
45.0	938	663	599
55.0	475	656	416
65.0	772	293	378
75.0	296	342	319
85.0	170	105	175

Luminance in cd/m²/1000lms

UTILISATION FACTOR TABLE - CIBSE TM5 (fine grid method min/ave 0.8)

LOR: 53.4%			SHR NOM: 1.5 : 1.0					SHR MAX: 1.54 : 1.0			
Reflectance			Room Index (K)								
Ceiling	Walls	Floor	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
0.70	0.50	0.20	0.32	0.38	0.41	0.44	0.48	0.50	0.52	0.54	0.56
0.70	0.30	0.20	0.28	0.34	0.38	0.41	0.45	0.47	0.49	0.52	0.54
0.70	0.10	0.20	0.25	0.31	0.35	0.38	0.42	0.45	0.47	0.50	0.52
0.50	0.50	0.20	0.31	0.36	0.40	0.42	0.46	0.48	0.50	0.52	0.53
0.50	0.30	0.20	0.28	0.33	0.37	0.40	0.43	0.46	0.48	0.50	0.52
0.50	0.10	0.20	0.25	0.30	0.34	0.37	0.41	0.44	0.46	0.49	0.50
0.30	0.50	0.20	0.30	0.35	0.39	0.41	0.44	0.46	0.48	0.50	0.51
0.30	0.30	0.20	0.27	0.32	0.36	0.39	0.42	0.45	0.46	0.48	0.50
0.30	0.10	0.20	0.25	0.30	0.34	0.36	0.40	0.43	0.45	0.47	0.49
0.00	0.00	0.00	0.24	0.29	0.32	0.35	0.38	0.41	0.43	0.45	0.46
Distribution Factors	Floor:	0.24	0.29	0.32	0.35	0.38	0.41	0.43	0.45	0.46	
	Walls:	0.29	0.24	0.21	0.18	0.14	0.12	0.10	0.08	0.07	
	Ceiling:	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Bz Numbers		4	4	4	4	4	4	4	4	4	4

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