



Mayfair Range

Description:

Surface IP65 polycarbonate fitting, prismatic lens, 2D lamp

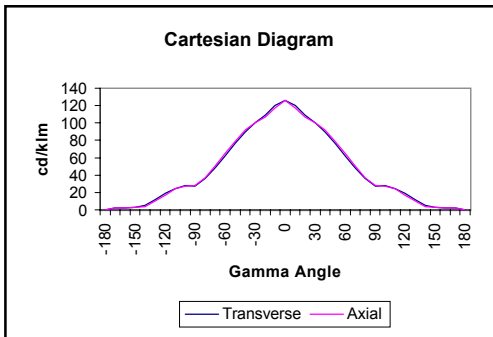
Dimensions (in mm):

Physical Length = 300
Luminous Length = 288



Physical Height = 105
Luminous Height = 50

Physical Width = 300
Luminous Width = 288



Conversion Terms:

MAYR 162D/W/P
MAYR 162D/B/P

Lamp

16W 2D 2pin
16W 2D 2pin

UF & PC

1.00
1.00

Utilisation Factors - UF(F)

Floor Reflectance - 20%

SHR NOM = 1.50

Reflectances C	W	F	Room Index									
			0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.25	0.30	0.33	0.36	0.39	0.42	0.44	0.46	0.48	
	0.30		0.21	0.25	0.29	0.32	0.36	0.39	0.41	0.44	0.46	
	0.10		0.18	0.22	0.26	0.29	0.33	0.36	0.38	0.41	0.44	
0.50	0.50	0.20	0.24	0.27	0.31	0.33	0.36	0.39	0.40	0.42	0.44	
	0.30		0.20	0.24	0.27	0.30	0.33	0.36	0.38	0.40	0.42	
	0.10		0.18	0.21	0.25	0.27	0.31	0.34	0.36	0.39	0.40	
0.30	0.50	0.20	0.22	0.25	0.28	0.30	0.33	0.35	0.37	0.39	0.40	
	0.30		0.19	0.22	0.25	0.28	0.31	0.33	0.35	0.37	0.39	
	0.10		0.17	0.20	0.23	0.25	0.29	0.31	0.33	0.36	0.38	
0.00	0.00	0.00	0.15	0.18	0.20	0.22	0.25	0.28	0.29	0.31	0.33	
BZ Class			6	6	6	6	6	6	6	6	6	
DF(F)			0.15	0.18	0.20	0.22	0.25	0.28	0.29	0.31	0.33	
DF(W)			0.27	0.24	0.21	0.19	0.16	0.14	0.13	0.10	0.09	
DF(C)			0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	
DF(V) Cylindrical			0.02	0.03	0.05	0.06	0.07	0.09	0.10	0.12	0.14	
DF(S) Scalar			0.04	0.05	0.07	0.08	0.09	0.10	0.11	0.13	0.15	

Flux Fraction Ratio = 0.23
SHR MAX = 1.58
SHR MAX(TR) = 1.78

CIE Flux Code = 38 / 67 / 87 / 81 52
Light Output Ratio = 0.52
Downward LOR = 0.42
Upward LOR = 0.10

Luminous Intensity Values - (cd/1000 lm)

Gamma Angle (degrees)	Transverse Plane (0°)	Axial Plane (90°)	
0	126	126	
5	125	121	
10	120	117	
15	114	112	
20	109	107	
25	104	104	
30	100	100	
35	96	96	
40	90	92	
45	85	86	
50	77	79	
55	69	71	
60	62	65	
65	55	57	
70	49	51	
75	42	43	
80	36	37	
85	30	31	
90	27	28	
95	27	27	
100	28	27	
105	25	26	
110	24	24	
115	22	20	
120	19	17	
125	16	13	
130	12	10	
135	9	6	
140	5	4	
145	4	3	
150	3	3	
155	2	2	
160	2	2	
165	2	2	
170	2	2	
175	0	0	
180	0	0	

Aspect Factors

Angle (degrees)	Parallel Plane	Perpendicular Plane	
0		0.000	0.000
5		0.086	0.004
10		0.167	0.015
15		0.245	0.032
20		0.317	0.055
25		0.385	0.083
30		0.447	0.115
35		0.505	0.152
40		0.556	0.191
45		0.602	0.233
50		0.640	0.275
55		0.672	0.317
60		0.697	0.356
65		0.717	0.394
70		0.731	0.428
75		0.741	0.459
80		0.747	0.487
85		0.750	0.510
90		0.751	0.530

Luminance Distribution (cd/m²/klm)

Angle (degrees)	Transverse Plane	Axial Plane	
45		1235	1249
50		1197	1228
55		1162	1196
60		1149	1205
65		1143	1185
70		1169	1217
75		1187	1215
80		1259	1294
85		1391	1437

The Utilisation Factor table, BZ values, and Distribution Factors (F) (W) & (C) have been calculated in accordance with CIBSE Technical Memorandum No. 5 (1980) from data tested without a ceiling board. The UF values need to be corrected using the appropriate conversion factor. The Distribution Factors for cylindrical and scalar illuminance have been calculated using data provided by Dr. A. R. Bean.

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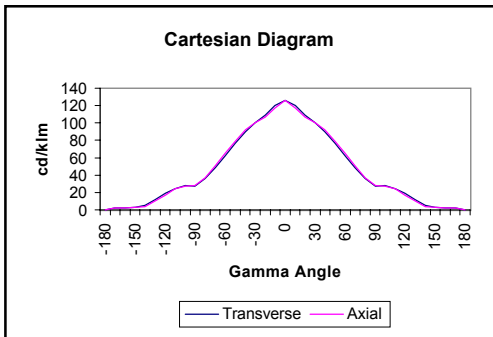
Dimensions (in mm):

Physical Length = 300
Luminous Length = 288



Physical Height = 105
Luminous Height = 50

Physical Width = 300
Luminous Width = 288



Conversion Terms:	Lamp	UF & PC
MAYR 282D/W/P	28W 2D 4pin	1.00
MAYR 282D/B/P	28W 2D 4pin	1.00
MAYR 382D/W/P	38W 2D 4pin	1.00
MAYR 382D/B/P	38W 2D 4pin	1.00

Utilisation Factors - UF(F)

Floor Reflectance - 20%

SHR NOM = 1.50

Reflectances C	W	F	Room Index									
			0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.25	0.30	0.33	0.36	0.39	0.42	0.44	0.46	0.48	
	0.30		0.21	0.25	0.29	0.32	0.36	0.39	0.41	0.44	0.46	
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	0.30		0.20	0.24	0.27	0.30	0.33	0.36	0.38	0.40	0.42	
	0.10		0.18	0.21	0.25	0.27	0.31	0.34	0.36	0.39	0.40	
0.30	0.50	0.20	0.22	0.25	0.28	0.30	0.33	0.35	0.37	0.39	0.40	
	0.30		0.19	0.22	0.25	0.28	0.31	0.33	0.35	0.37	0.39	
	0.10		0.17	0.20	0.23	0.25	0.29	0.31	0.33	0.36	0.38	
0.00	0.00	0.00	0.15	0.18	0.20	0.22	0.25	0.28	0.29	0.31	0.33	
			BZ Class	6	6	6	6	6	6	6	6	6
			DF(F)	0.15	0.18	0.20	0.22	0.25	0.28	0.29	0.31	0.33
DF(W)	0.27	0.24	0.21	0.19	0.16	0.14	0.13	0.10	0.09			
DF(C)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10			
DF(V) <i>Cylindrical</i>	0.02	0.03	0.05	0.06	0.07	0.09	0.10	0.12	0.14			
DF(S) <i>Scalar</i>	0.04	0.05	0.07	0.08	0.09	0.10	0.11	0.13	0.15			

Flux Fraction Ratio = 0.23
SHR MAX = 1.58
SHR MAX(TR) = 1.78

CIE Flux Code = 38 / 67 / 87 / 81 52
Light Output Ratio = 0.52
Downward LOR = 0.42
Upward LOR = 0.10

Luminous Intensity Values - (cd/1000 lm)

Gamma Angle (degrees)	Transverse Plane (0°)	Axial Plane (90°)	
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10	120	117	
15	114	112	
20	109	107	
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30	100	100	
35	96	96	
40	90	92	
45	85	86	
50	77	79	
55	69	71	
60	62	65	
65	55	57	
70	49	51	
75	42	43	
80	36	37	
85	30	31	
90	27	28	
95	27	27	
100	28	27	
105	25	26	
110	24	24	
115	22	20	
120	19	17	
125	16	13	
130	12	10	
135	9	6	
140	5	4	
145	4	3	
150	3	3	
155	2	2	
160	2	2	
165	2	2	
170	2	2	
175	0	0	
180	0	0	

Aspect Factors

Angle (degrees)	Parallel Plane	Perpendicular Plane	
0		0.000	0.000
5		0.086	0.004
10		0.167	0.015
15		0.245	0.032
20		0.317	0.055
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Luminance Distribution (cd/m²/klm)

Angle (degrees)	Transverse Plane	Axial Plane	
45		1235	1249
50		1197	1228
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60		1149	1205
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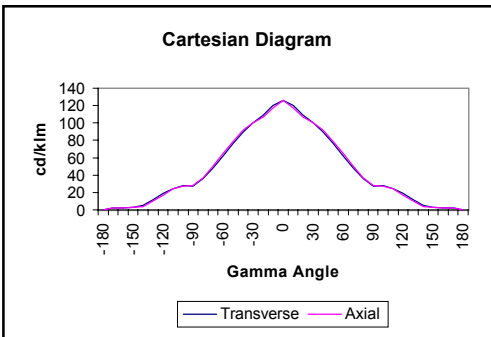
Dimensions (in mm):

Physical Length = 262
Luminous Length = 250



Physical Height = 105
Luminous Height = 50

Physical Width = 262
Luminous Width = 250



Conversion Terms:

MAYS 162D/W/P
MAYS 162D/B/P

Lamp

16W 2D 2pin
16W 2D 2pin

UF & PC

1.00
1.00

Utilisation Factors - UF(F)

Floor Reflectance - 20%

SHR NOM = 1.50

Reflectances C	W	F	Room Index									
			0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.25	0.30	0.33	0.36	0.39	0.42	0.44	0.46	0.48	
	0.30		0.21	0.25	0.29	0.32	0.36	0.39	0.41	0.44	0.46	
	0.10		0.18	0.22	0.26	0.29	0.33	0.36	0.38	0.41	0.44	
0.50	0.50	0.20	0.24	0.27	0.31	0.33	0.36	0.39	0.40	0.42	0.44	
	0.30		0.20	0.24	0.27	0.30	0.33	0.36	0.38	0.40	0.42	
	0.10		0.18	0.21	0.25	0.27	0.31	0.34	0.36	0.39	0.40	
0.30	0.50	0.20	0.22	0.25	0.28	0.30	0.33	0.35	0.37	0.39	0.40	
	0.30		0.19	0.22	0.25	0.28	0.31	0.33	0.35	0.37	0.39	
	0.10		0.17	0.20	0.23	0.25	0.29	0.31	0.33	0.36	0.38	
0.00	0.00	0.00	0.15	0.18	0.20	0.22	0.25	0.28	0.29	0.31	0.33	
			BZ Class									
			6	6	6	6	6	6	6	6	6	6
DF(F)			0.15	0.18	0.20	0.22	0.25	0.28	0.29	0.31	0.33	
DF(W)			0.27	0.24	0.21	0.19	0.16	0.14	0.13	0.10	0.09	
DF(C)			0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	
DF(V) <i>Cylindrical</i>			0.02	0.03	0.05	0.06	0.07	0.09	0.10	0.12	0.14	
DF(S) <i>Scalar</i>			0.04	0.05	0.07	0.08	0.09	0.10	0.11	0.13	0.15	

Flux Fraction Ratio = 0.23
SHR MAX = 1.58
SHR MAX(TR) = 1.78

CIE Flux Code = 38 / 67 / 87 / 81 52
Light Output Ratio = 0.52
Downward LOR = 0.42
Upward LOR = 0.10

Luminous Intensity Values - (cd/1000 lm)

Gamma Angle (degrees)	Transverse Plane (0°)	Axial Plane (90°)	
0	126	126	
5	125	121	
10	120	117	
15	114	112	
20	109	107	
25	104	104	
30	100	100	
35	96	96	
40	90	92	
45	85	86	
50	77	79	
55	69	71	
60	62	65	
65	55	57	
70	49	51	
75	42	43	
80	36	37	
85	30	31	
90	27	28	
95	27	27	
100	28	27	
105	25	26	
110	24	24	
115	22	20	
120	19	17	
125	16	13	
130	12	10	
135	9	6	
140	5	4	
145	4	3	
150	3	3	
155	2	2	
160	2	2	
165	2	2	
170	2	2	
175	0	0	
180	0	0	

Aspect Factors

Angle (degrees)	Parallel Plane	Perpendicular Plane	
0		0.000	0.000
5		0.086	0.004
10		0.167	0.015
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75		0.741	0.459
80		0.747	0.487
85		0.750	0.510
90		0.751	0.530

Luminance Distribution (cd/m²/klm)

Angle (degrees)	Transverse Plane	Axial Plane	
45		1603	1622
50		1548	1588
55		1497	1541
60		1474	1545
65		1457	1510
70		1479	1540
75		1487	1522
80		1554	1597
85		1676	1732

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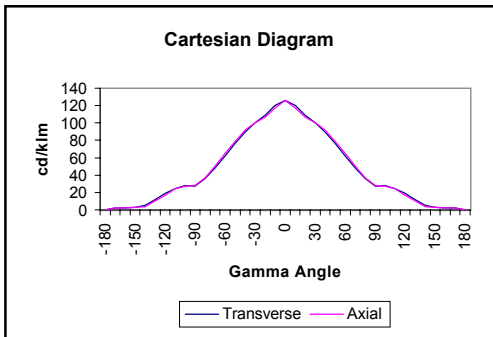
Dimensions (in mm):

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Luminous Length = 250



Physical Height = 105
Luminous Height = 50

Physical Width = 262
Luminous Width = 250



Conversion Terms:

MAYS 282D/W/P
MAYS 282D/B/P
MAYS 382D/W/P
MAYS 382D/B/P

Lamp

28W 2D 4pin
28W 2D 4pin
38W 2D 4pin
38W 2D 4pin

UF & PC

1.00
1.00
1.00
1.00

Utilisation Factors - UF(F)

Floor Reflectance - 20%

SHR NOM = 1.50

Reflectances C	W	F	Room Index									
			0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	
0.70	0.50	0.20	0.25	0.30	0.33	0.36	0.39	0.42	0.44	0.46	0.48	
	0.30		0.21	0.25	0.29	0.32	0.36	0.39	0.41	0.44	0.46	
	0.10		0.18	0.22	0.26	0.29	0.33	0.36	0.38	0.41	0.44	
0.50	0.50	0.20	0.24	0.27	0.31	0.33	0.36	0.39	0.40	0.42	0.44	
	0.30		0.20	0.24	0.27	0.30	0.33	0.36	0.38	0.40	0.42	
	0.10		0.18	0.21	0.25	0.27	0.31	0.34	0.36	0.39	0.40	
0.30	0.50	0.20	0.22	0.25	0.28	0.30	0.33	0.35	0.37	0.39	0.40	
	0.30		0.19	0.22	0.25	0.28	0.31	0.33	0.35	0.37	0.39	
	0.10		0.17	0.20	0.23	0.25	0.29	0.31	0.33	0.36	0.38	
0.00	0.00	0.00	0.15	0.18	0.20	0.22	0.25	0.28	0.29	0.31	0.33	
			BZ Class									
			6	6	6	6	6	6	6	6	6	6
DF(F)			0.15	0.18	0.20	0.22	0.25	0.28	0.29	0.31	0.33	
DF(W)			0.27	0.24	0.21	0.19	0.16	0.14	0.13	0.10	0.09	
DF(C)			0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	
DF(V) <i>Cylindrical</i>			0.02	0.03	0.05	0.06	0.07	0.09	0.10	0.12	0.14	
DF(S) <i>Scalar</i>			0.04	0.05	0.07	0.08	0.09	0.10	0.11	0.13	0.15	

Flux Fraction Ratio = 0.23
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SHR MAX(TR) = 1.78

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Upward LOR = 0.10

Luminous Intensity Values - (cd/1000 lm)

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20	109	107	
25	104	104	
30	100	100	
35	96	96	
40	90	92	
45	85	86	
50	77	79	
55	69	71	
60	62	65	
65	55	57	
70	49	51	
75	42	43	
80	36	37	
85	30	31	
90	27	28	
95	27	27	
100	28	27	
105	25	26	
110	24	24	
115	22	20	
120	19	17	
125	16	13	
130	12	10	
135	9	6	
140	5	4	
145	4	3	
150	3	3	
155	2	2	
160	2	2	
165	2	2	
170	2	2	
175	0	0	
180	0	0	

Aspect Factors

Angle (degrees)	Parallel Plane	Perpendicular Plane	
0		0.000	0.000
5		0.086	0.004
10		0.167	0.015
15		0.245	0.032
20		0.317	0.055
25		0.385	0.083
30		0.447	0.115
35		0.505	0.152
40		0.556	0.191
45		0.602	0.233
50		0.640	0.275
55		0.672	0.317
60		0.697	0.356
65		0.717	0.394
70		0.731	0.428
75		0.741	0.459
80		0.747	0.487
85		0.750	0.510
90		0.751	0.530

Luminance Distribution (cd/m²/klm)

Angle (degrees)	Transverse Plane	Axial Plane	
45		1603	1622
50		1548	1588
55		1497	1541
60		1474	1545
65		1457	1510
70		1479	1540
75		1487	1522
80		1554	1597
85		1676	1732

The Utilisation Factor table, BZ values, and Distribution Factors (F) (W) & (C) have been calculated in accordance with CIBSE Technical Memorandum No. 5 (1980) from data tested without a ceiling board. The UF values need to be corrected using the appropriate conversion factor. The Distribution Factors for cylindrical and scalar illuminance have been calculated using data provided by Dr. A. R. Bean.

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