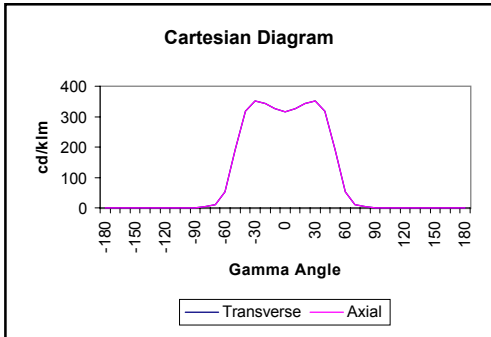




## Albany Range

### Description:

250W High Bay fitting with medium reflector



Dimensions (in mm):

Physical Length = 535  
Luminous Length = 535



Physical Height = 500  
Luminous Height = 0

Physical Width = 535  
Luminous Width = 535

#### Conversion Terms:

ABY 250S  
ABY 250SP  
ABY 250M  
ABY 250MH

#### Lamp

250W SON-E  
250W SON-PE  
250W MBFU  
250W HIE

#### UF & PC

1.00  
1.00  
1.00  
1.00

### Utilisation Factors - UF(F)

Floor Reflectance - 20%

SHR NOM = 1.75

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	0.61	0.72	0.77	0.80	0.84	0.87	0.89	0.91	0.92	
	0.30		0.56	0.68	0.72	0.76	0.81	0.84	0.86	0.89	0.90	
	0.10		0.52	0.64	0.69	0.73	0.78	0.81	0.84	0.87	0.89	
0.50	0.50	0.20	0.60	0.71	0.75	0.78	0.82	0.84	0.86	0.88	0.89	
	0.30		0.55	0.67	0.71	0.75	0.79	0.82	0.83	0.86	0.87	
	0.10		0.52	0.64	0.68	0.72	0.77	0.79	0.81	0.84	0.86	
0.30	0.50	0.20	0.59	0.69	0.73	0.76	0.79	0.81	0.83	0.85	0.86	
	0.30		0.55	0.66	0.70	0.73	0.77	0.80	0.81	0.83	0.85	
	0.10		0.51	0.63	0.68	0.71	0.75	0.78	0.80	0.82	0.83	
0.00	0.00	0.00	0.50	0.62	0.66	0.69	0.72	0.75	0.76	0.78	0.80	
<b>BZ Class</b>			1	1	1	1	1	1	1	1	1	
DF(F)			0.50	0.62	0.66	0.69	0.72	0.75	0.76	0.78	0.80	
DF(W)			0.35	0.23	0.19	0.16	0.12	0.10	0.09	0.06	0.05	
DF(C)			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
DF(V) <i>Cylindrical</i>			0.08	0.12	0.13	0.15	0.16	0.17	0.18	0.19	0.20	
DF(S) <i>Scalar</i>			0.14	0.18	0.20	0.21	0.23	0.24	0.25	0.25	0.26	

Flux Fraction Ratio = 0.00  
SHR MAX = 1.92  
SHR MAX(TR) = 2.14

CIE Flux Code = 53 / 82 / 84 / 85 85  
Light Output Ratio = 0.85  
Downward LOR = 0.85  
Upward LOR = 0.00

### Luminous Intensity Values - (cd/1000 lm)

Gamma Angle (degrees)	Transverse Plane (0°)	Axial Plane (90°)	
0	315	315	
5	321	321	
10	327	327	
15	337	337	
20	344	344	
25	349	349	
30	351	351	
35	344	344	
40	318	318	
45	273	273	
50	191	191	
55	113	113	
60	52	52	
65	23	23	
70	11	11	
75	7	7	
80	4	4	
85	2	2	
90	1	1	
95	0	0	
100	0	0	
105	0	0	
110	0	0	
115	0	0	
120	0	0	
125	0	0	
130	0	0	
135	0	0	
140	0	0	
145	0	0	
150	0	0	
155	0	0	
160	0	0	
165	0	0	
170	0	0	
175	0	0	
180	0	0	

### Aspect Factors

Angle (degrees)	Parallel Plane	Perpendicular Plane	
0		0.000	0.000
5		0.088	0.004
10		0.177	0.016
15		0.267	0.036
20		0.357	0.064
25		0.446	0.101
30		0.532	0.146
35		0.613	0.197
40		0.686	0.253
45		0.746	0.309
50		0.790	0.356
55		0.815	0.389
60		0.827	0.409
65		0.832	0.418
70		0.834	0.422
75		0.835	0.425
80		0.835	0.426
85		0.835	0.427
90		0.835	0.427

### Luminance Distribution (cd/m<sup>2</sup>/klm)

Angle (degrees)	Transverse Plane	Axial Plane	
45	1349	1349	
50	1038	1038	
55	688	688	
60	363	363	
65	190	190	
70	112	112	
75	94	94	
80	80	80	
85	80	80	

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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## Albany Range

### Description:

400W High Bay fitting with medium reflector

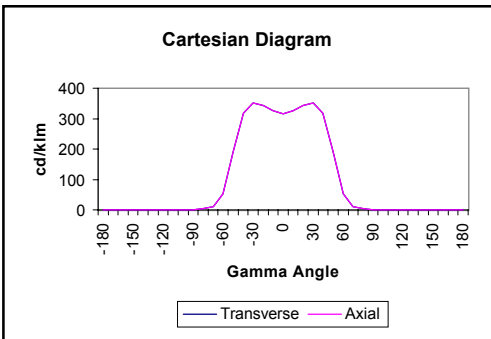
Dimensions (in mm):

Physical Length = 535  
Luminous Length = 535



Physical Height = 500  
Luminous Height = 0

Physical Width = 535  
Luminous Width = 535



#### Conversion Terms:

ABY 400S  
ABY 400SP  
ABY 400M  
ABY 400MH

#### Lamp

400W SON-E  
400W SON-PE  
400W MBFU  
400W HIE

#### UF & PC

1.00  
1.00  
1.00  
1.00

### Utilisation Factors - UF(F)

Floor Reflectance - 20%

SHR NOM = 1.75

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	0.61	0.72	0.77	0.80	0.84	0.87	0.89	0.91	0.92	
	0.30		0.56	0.68	0.72	0.76	0.81	0.84	0.86	0.89	0.90	
	0.10		0.52	0.64	0.69	0.73	0.78	0.81	0.84	0.87	0.89	
0.50	0.50	0.20	0.60	0.71	0.75	0.78	0.82	0.84	0.86	0.88	0.89	
	0.30		0.55	0.67	0.71	0.75	0.79	0.82	0.83	0.86	0.87	
	0.10		0.52	0.64	0.68	0.72	0.77	0.79	0.81	0.84	0.86	
0.30	0.50	0.20	0.59	0.69	0.73	0.76	0.79	0.81	0.83	0.85	0.86	
	0.30		0.55	0.66	0.70	0.73	0.77	0.80	0.81	0.83	0.85	
	0.10		0.51	0.63	0.68	0.71	0.75	0.78	0.80	0.82	0.83	
0.00	0.00	0.00	0.50	0.62	0.66	0.69	0.72	0.75	0.76	0.78	0.80	
<b>BZ Class</b>			1	1	1	1	1	1	1	1	1	
DF(F)			0.50	0.62	0.66	0.69	0.72	0.75	0.76	0.78	0.80	
DF(W)			0.35	0.23	0.19	0.16	0.12	0.10	0.09	0.06	0.05	
DF(C)			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
DF(V) <i>Cylindrical</i>			0.08	0.12	0.13	0.15	0.16	0.17	0.18	0.19	0.20	
DF(S) <i>Scalar</i>			0.14	0.18	0.20	0.21	0.23	0.24	0.25	0.25	0.26	

Flux Fraction Ratio = 0.00  
SHR MAX = 1.92  
SHR MAX(TR) = 2.14

CIE Flux Code = 53 / 82 / 84 / 85 85  
Light Output Ratio = 0.85  
Downward LOR = 0.85  
Upward LOR = 0.00

### Luminous Intensity Values - (cd/1000 lm)

Gamma Angle (degrees)	Transverse Plane (0°)	Axial Plane (90°)	
0	315	315	
5	321	321	
10	327	327	
15	337	337	
20	344	344	
25	349	349	
30	351	351	
35	344	344	
40	318	318	
45	273	273	
50	191	191	
55	113	113	
60	52	52	
65	23	23	
70	11	11	
75	7	7	
80	4	4	
85	2	2	
90	1	1	
95	0	0	
100	0	0	
105	0	0	
110	0	0	
115	0	0	
120	0	0	
125	0	0	
130	0	0	
135	0	0	
140	0	0	
145	0	0	
150	0	0	
155	0	0	
160	0	0	
165	0	0	
170	0	0	
175	0	0	
180	0	0	

### Aspect Factors

Angle (degrees)	Parallel Plane	Perpendicular Plane	
0		0.000	0.000
5		0.088	0.004
10		0.177	0.016
15		0.267	0.036
20		0.357	0.064
25		0.446	0.101
30		0.532	0.146
35		0.613	0.197
40		0.686	0.253
45		0.746	0.309
50		0.790	0.356
55		0.815	0.389
60		0.827	0.409
65		0.832	0.418
70		0.834	0.422
75		0.835	0.425
80		0.835	0.426
85		0.835	0.427
90		0.835	0.427

### Luminance Distribution (cd/m<sup>2</sup>/klm)

Angle (degrees)	Transverse Plane	Axial Plane	
45	1349	1349	
50	1038	1038	
55	688	688	
60	363	363	
65	190	190	
70	112	112	
75	94	94	
80	80	80	
85	80	80	

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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## Albany Range

### Description:

150W High Bay fitting with medium reflector

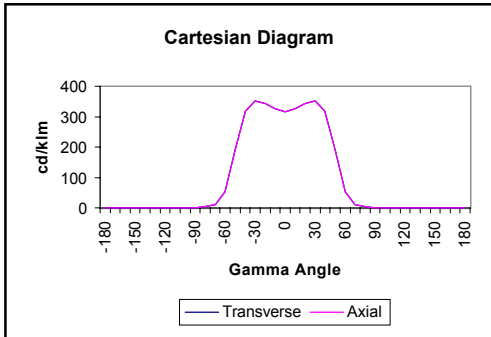
Dimensions (in mm):

Physical Length = 535  
Luminous Length = 535



Physical Height = 500  
Luminous Height = 0

Physical Width = 535  
Luminous Width = 535



#### Conversion Terms:

ABY 150S  
ABY 150SP

#### Lamp

150W SON-E  
150W SON-PE

#### UF & PC

1.00  
1.00

### Utilisation Factors - UF(F)

Floor Reflectance - 20%

SHR NOM = 1.75

Reflectances C	W	F	Room Index	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	0.61	0.72	0.77	0.80	0.84	0.87	0.89	0.91	0.92	
	0.30		0.56	0.68	0.72	0.76	0.81	0.84	0.86	0.89	0.90	
	0.10		0.52	0.64	0.69	0.73	0.78	0.81	0.84	0.87	0.89	
0.50	0.50	0.20	0.60	0.71	0.75	0.78	0.82	0.84	0.86	0.88	0.89	
	0.30		0.55	0.67	0.71	0.75	0.79	0.82	0.83	0.86	0.87	
	0.10		0.52	0.64	0.68	0.72	0.77	0.79	0.81	0.84	0.86	
0.30	0.50	0.20	0.59	0.69	0.73	0.76	0.79	0.81	0.83	0.85	0.86	
	0.30		0.55	0.66	0.70	0.73	0.77	0.80	0.81	0.83	0.85	
	0.10		0.51	0.63	0.68	0.71	0.75	0.78	0.80	0.82	0.83	
0.00	0.00	0.00	0.50	0.62	0.66	0.69	0.72	0.75	0.76	0.78	0.80	
<b>BZ Class</b>			1	1	1	1	1	1	1	1	1	
<b>DF(F)</b>			0.50	0.62	0.66	0.69	0.72	0.75	0.76	0.78	0.80	
<b>DF(W)</b>			0.35	0.23	0.19	0.16	0.12	0.10	0.09	0.06	0.05	
<b>DF(C)</b>			0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
<b>DF(V)</b> <i>Cylindrical</i>			0.08	0.12	0.13	0.15	0.16	0.17	0.18	0.19	0.20	
<b>DF(S)</b> <i>Scalar</i>			0.14	0.18	0.20	0.21	0.23	0.24	0.25	0.25	0.26	

Flux Fraction Ratio = 0.00  
SHR MAX = 1.92  
SHR MAX(TR) = 2.14

CIE Flux Code = 53 / 82 / 84 / 85 85  
Light Output Ratio = 0.85  
Downward LOR = 0.85  
Upward LOR = 0.00

### Luminous Intensity Values - (cd/1000 lm)

Gamma Angle (degrees)	Transverse Plane (0°)	Axial Plane (90°)	
0	315	315	
5	321	321	
10	327	327	
15	337	337	
20	344	344	
25	349	349	
30	351	351	
35	344	344	
40	318	318	
45	273	273	
50	191	191	
55	113	113	
60	52	52	
65	23	23	
70	11	11	
75	7	7	
80	4	4	
85	2	2	
90	1	1	
95	0	0	
100	0	0	
105	0	0	
110	0	0	
115	0	0	
120	0	0	
125	0	0	
130	0	0	
135	0	0	
140	0	0	
145	0	0	
150	0	0	
155	0	0	
160	0	0	
165	0	0	
170	0	0	
175	0	0	
180	0	0	

### Aspect Factors

Angle (degrees)	Parallel Plane	Perpendicular Plane	
0		0.000	0.000
5		0.088	0.004
10		0.177	0.016
15		0.267	0.036
20		0.357	0.064
25		0.446	0.101
30		0.532	0.146
35		0.613	0.197
40		0.686	0.253
45		0.746	0.309
50		0.790	0.356
55		0.815	0.389
60		0.827	0.409
65		0.832	0.418
70		0.834	0.422
75		0.835	0.425
80		0.835	0.426
85		0.835	0.427
90		0.835	0.427

### Luminance Distribution (cd/m<sup>2</sup>/klm)

Angle (degrees)	Transverse Plane	Axial Plane	
45	1349	1349	
50	1038	1038	
55	688	688	
60	363	363	
65	190	190	
70	112	112	
75	94	94	
80	80	80	
85	80	80	

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