



Challenger Range

Description:

Wall pack fitting with reeded lens and black top

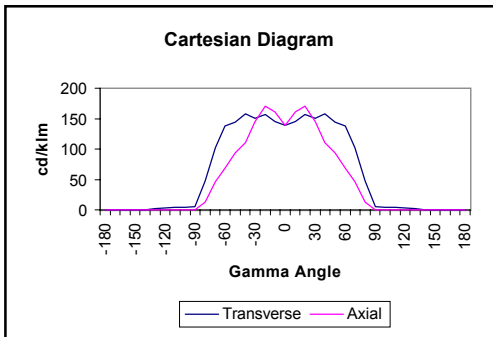
Dimensions (in mm):

Physical Length = 355
Luminous Length = 265



Physical Height = 205
Luminous Height = 60

Physical Width = 280
Luminous Width = 270



Conversion Terms:

CLR 50S
CLR 70S
CLR 50M
CLR 80M

Lamp

50W SON-I
70W SON-I
50W MBF-U
80W MBF-U

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	0.37	0.44	0.49	0.53	0.59	0.62	0.65	0.68	0.71	
	0.30		0.31	0.39	0.44	0.48	0.54	0.58	0.61	0.65	0.68	
	0.10		0.27	0.34	0.40	0.44	0.50	0.54	0.58	0.62	0.65	
0.50	0.50	0.20	0.35	0.43	0.48	0.51	0.56	0.60	0.62	0.65	0.68	
	0.30		0.30	0.38	0.43	0.47	0.52	0.56	0.59	0.63	0.65	
	0.10		0.26	0.34	0.39	0.43	0.49	0.53	0.56	0.60	0.63	
0.30	0.50	0.20	0.34	0.41	0.46	0.49	0.54	0.57	0.60	0.63	0.65	
	0.30		0.30	0.37	0.42	0.45	0.51	0.54	0.57	0.61	0.63	
	0.10		0.26	0.33	0.38	0.42	0.48	0.52	0.55	0.59	0.61	
0.00	0.00	0.00	0.24	0.31	0.36	0.40	0.45	0.49	0.52	0.55	0.58	
BZ Class			6	5	5	5	5	5	5	5	5	
DF(F)			0.24	0.31	0.36	0.40	0.45	0.49	0.52	0.55	0.58	
DF(W)			0.45	0.38	0.33	0.29	0.24	0.20	0.17	0.14	0.11	
DF(C)			0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
DF(V) <i>Cylindrical</i>			0.04	0.06	0.09	0.11	0.14	0.16	0.18	0.21	0.23	
DF(S) <i>Scalar</i>			0.07	0.09	0.12	0.14	0.16	0.19	0.20	0.23	0.24	

Flux Fraction Ratio = 0.01
SHR MAX = 1.95
SHR MAX(TR) = 2.59

CIE Flux Code = 38 / 70 / 92 / 99 70
Light Output Ratio = 0.70
Downward LOR = 0.69
Upward LOR = 0.01

Luminous Intensity Values - (cd/1000 lm)

Gamma Angle (degrees)	Transverse Plane (0°)	Axial Plane (90°)	
0		139	139
5		142	150
10		145	161
15		149	167
20		157	171
25		154	158
30		150	145
35		160	126
40		158	111
45		146	99
50		144	94
55		147	81
60		138	68
65		125	60
70		103	47
75		82	30
80		48	13
85		18	5
90		5	0
95		4	0
100		5	0
105		5	0
110		5	0
115		5	0
120		4	0
125		3	0
130		2	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		0.091	0.004
10		0.188	0.017
15		0.288	0.039
20		0.389	0.071
25		0.485	0.111
30		0.569	0.155
35		0.641	0.200
40		0.700	0.246
45		0.748	0.290
50		0.789	0.335
55		0.823	0.378
60		0.848	0.418
65		0.866	0.454
70		0.879	0.485
75		0.887	0.508
80		0.889	0.521
85		0.890	0.526
90		0.890	0.527

Luminance Distribution (cd/m²/klm)

Angle (degrees)	Transverse Plane	Axial Plane	
45		2358	1596
50		2475	1603
55		2713	1491
60		2779	1373
65		2802	1342
70		2603	1179
75		2418	869
80		1699	444
85		815	201

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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