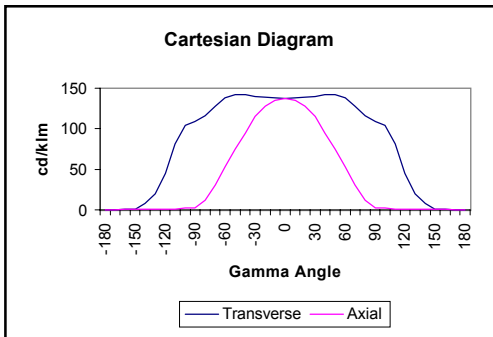




Nemesis Range

Description:

Surface Zone 2 fluorescent, IP65, linear single lamp



Dimensions (in mm):

Physical Length = 1612
Luminous Length = 1500



Physical Height = 114
Luminous Height = 57

Physical Width = 116
Luminous Width = 110

Conversion Terms:

NMS 158
NMS 170

Lamp

1 x 58W T8
1 x 70W T8

UF & PC

1.00
1.01

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	0.36	0.43	0.48	0.52	0.58	0.62	0.64	0.68	0.71	
	0.30		0.29	0.37	0.42	0.46	0.52	0.56	0.59	0.64	0.67	
	0.10		0.25	0.32	0.37	0.41	0.47	0.52	0.55	0.60	0.64	
0.50	0.50	0.20	0.33	0.40	0.44	0.48	0.53	0.56	0.59	0.62	0.65	
	0.30		0.27	0.34	0.39	0.43	0.48	0.52	0.55	0.59	0.62	
	0.10		0.23	0.30	0.35	0.38	0.44	0.48	0.51	0.56	0.59	
0.30	0.50	0.20	0.30	0.36	0.40	0.44	0.48	0.51	0.53	0.57	0.59	
	0.30		0.26	0.32	0.36	0.39	0.44	0.48	0.50	0.54	0.56	
	0.10		0.22	0.28	0.32	0.36	0.41	0.45	0.47	0.51	0.54	
0.00	0.00	0.00	0.19	0.24	0.28	0.31	0.35	0.39	0.41	0.44	0.47	
			0.19	0.24	0.28	0.31	0.35	0.39	0.41	0.44	0.47	
			0.19	0.24	0.28	0.31	0.35	0.39	0.41	0.44	0.47	
BZ Class			6	6	6	6	6	6	6	6	6	
DF(F)			0.19	0.24	0.28	0.31	0.35	0.39	0.41	0.44	0.47	
DF(W)			0.43	0.38	0.34	0.31	0.27	0.23	0.21	0.18	0.15	
DF(C)			0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	0.16	
DF(V) <i>Cylindrical</i>			0.03	0.05	0.07	0.08	0.11	0.13	0.15	0.19	0.22	
DF(S) <i>Scalar</i>			0.05	0.07	0.09	0.11	0.13	0.15	0.17	0.20	0.22	

Flux Fraction Ratio = 0.26
SHR MAX = 1.89
SHR MAX(TR) = 2.55

CIE Flux Code = 32 / 60 / 83 / 79 78
Light Output Ratio = 0.78
Downward LOR = 0.62
Upward LOR = 0.16

Luminous Intensity Values - (cd/1000 lm)

Gamma Angle (degrees)	Transverse Plane (0°)	Axial Plane (90°)	
0		137	137
5		139	136
10		138	135
15		140	132
20		139	128
25		140	122
30		140	115
35		141	106
40		142	95
45		143	86
50		142	75
55		140	83
60		138	53
65		134	41
70		128	31
75		121	21
80		116	12
85		111	6
90		109	2
95		107	2
100		104	2
105		95	2
110		81	1
115		63	1
120		45	1
125		31	1
130		20	1
135		11	1
140		8	1
145		3	1
150		1	1
155		1	1
160		1	1
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		0.087	0.004
10		0.173	0.015
15		0.256	0.034
20		0.335	0.058
25		0.408	0.089
30		0.475	0.124
35		0.535	0.162
40		0.585	0.201
45		0.628	0.240
50		0.663	0.278
55		0.693	0.318
60		0.716	0.354
65		0.730	0.381
70		0.739	0.402
75		0.744	0.418
80		0.746	0.428
85		0.747	0.434
90		0.747	0.436

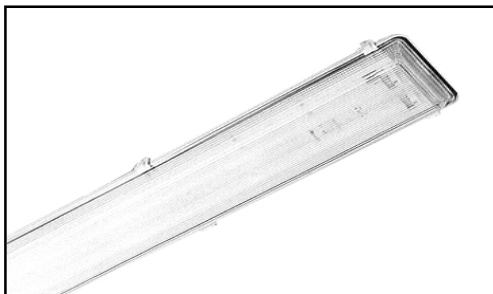
Luminance Distribution (cd/m²/klm)

Angle (degrees)	Transverse Plane	Axial Plane	
45		807	710
50		828	677
55		850	832
60		882	603
65		910	544
70		936	497
75		966	431
80		1028	345
85		1115	291

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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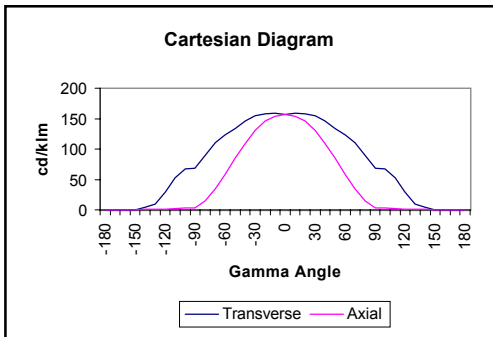
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Nemesis Range

Description:

Surface Zone 2 fluorescent, IP65, linear twin lamp



Dimensions (in mm):

Physical Length = 1612
Luminous Length = 1500



Physical Height = 114
Luminous Height = 57

Physical Width = 186
Luminous Width = 180

Conversion Terms:

NMS 258
NMS 270

Lamp

2 x 58W T8
2 x 70W T8

UF & PC

1.00
1.01

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	0.35	0.42	0.47	0.50	0.55	0.59	0.61	0.65	0.67	
	0.30		0.30	0.37	0.41	0.45	0.50	0.54	0.57	0.61	0.64	
	0.10		0.26	0.32	0.37	0.41	0.46	0.50	0.53	0.58	0.61	
0.50	0.50	0.20	0.33	0.40	0.44	0.47	0.51	0.55	0.57	0.60	0.62	
	0.30		0.28	0.35	0.39	0.42	0.47	0.51	0.53	0.57	0.59	
	0.10		0.25	0.31	0.35	0.39	0.44	0.48	0.50	0.54	0.57	
0.30	0.50	0.20	0.31	0.37	0.41	0.44	0.48	0.51	0.53	0.55	0.57	
	0.30		0.27	0.33	0.37	0.40	0.45	0.48	0.50	0.53	0.55	
	0.10		0.24	0.30	0.34	0.37	0.42	0.45	0.48	0.51	0.53	
0.00	0.00	0.00	0.21	0.27	0.30	0.33	0.37	0.40	0.43	0.46	0.48	
			BZ Class	6	5	5	6	6	6	6	6	6
			DF(F)	0.21	0.27	0.30	0.33	0.37	0.40	0.43	0.46	0.48
DF(W)	0.39	0.34	0.30	0.27	0.23	0.20	0.18	0.15	0.13			
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>	0.03	0.05	0.07	0.08	0.11	0.13	0.15	0.18	0.20			
DF(S) <i>Scalar</i>	0.06	0.08	0.10	0.11	0.13	0.15	0.17	0.19	0.21			

Flux Fraction Ratio = 0.17
SHR MAX = 1.78
SHR MAX(TR) = 2.21

CIE Flux Code = 37 / 66 / 86 / 85 71
Light Output Ratio = 0.71
Downward LOR = 0.60
Upward LOR = 0.10

Luminous Intensity Values - (cd/1000 lm)

Gamma Angle (degrees)	Transverse Plane (0°)	Axial Plane (90°)	
0	157	157	
5	158	158	
10	159	154	
15	159	151	
20	158	146	
25	156	140	
30	155	131	
35	151	122	
40	146	110	
45	140	98	
50	134	85	
55	138	72	
60	123	58	
65	117	47	
70	111	35	
75	102	24	
80	90	15	
85	76	7	
90	68	3	
95	66	3	
100	67	3	
105	62	2	
110	53	2	
115	41	1	
120	29	1	
125	18	1	
130	10	1	
135	6	1	
140	4	1	
145	2	1	
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		0.174	0.015
15		0.256	0.034
20		0.335	0.058
25		0.409	0.089
30		0.475	0.124
35		0.535	0.161
40		0.586	0.201
45		0.629	0.240
50		0.663	0.277
55		0.689	0.312
60		0.709	0.343
65		0.722	0.369
70		0.731	0.390
75		0.736	0.405
80		0.738	0.416
85		0.739	0.422
90		0.739	0.425

Luminance Distribution (cd/m²/klm)

Angle (degrees)	Transverse Plane	Axial Plane	
45		557	495
50		561	469
55		614	441
60		588	403
65		611	381
70		643	343
75		669	301
80		687	263
85		699	207

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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