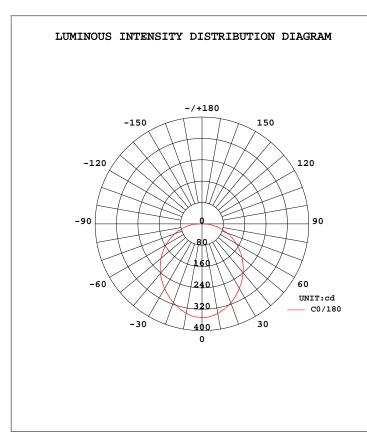
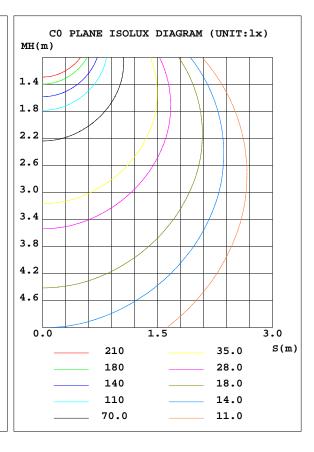


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: C-FR-F17A-D24V-60-W6500-1M	TYPE:FPC	WEIGHT:0.102kg/m
DIM.: 13.5*6mm	SPEC.:	SERIAL No.:L201402052
MFR.: CLEAR	SUR.:13.5*1000mm	PROTECTION ANGLE:

DATA OF LAN	ſP		RIC DATA Eff: 85	5.10 lm/W	
MODEL	5050	Imax(cd)	352.0	S/MH(C0/180)	1.20
NOMINAL POWER(W)	12	LOR(%)	1.7	S/MH(C90/270)	1.28
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	919.07	η UP,DN(C0-180)	0.0,0.9
NOMINAL FLUX(lm)	900	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,0.8
LAMPS INSIDE	60	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	24	η down(%)	1.7	CIBSE SHR MAX	1.35





C Range: 0 - 360DEG C Interval: 5.0DEG Test Speed: HIGH Temperature: 26DEG Operators:Jeff Test Date: 2014-02-20

γ Range: 0 - 90DEG

γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V1.0.257

Humidity:62%

Test Distance: 6.810m [K=1.0000]



ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

~	C0	C45	C90	C135	C180	C225	C270	C315	٧	Φ zone	Φ total	%lum,lamp
5	347.9	349.5	351.3	350.1	348.5	343.8	342.1	343.0	0- 5	8.330	8.330	0.91,0.02
10	339.7	345.9	351.9	346.5	340.9	334.2	333.5	333.0	5- 10	24.58	32.91	3.58,0.06
15	327.5	338.5	344.4	339.5	329.0	321.4	316.9	319.6	10- 15	39.71	72.62	7.9,0.13
20	313.3	324.7	336.9	326.5	314.7	302.9	300.2	300.6	15- 20	53.03	125.7	13.7,0.23
25	297.0	310.2	320.9	312.2	298.1	284.0	276.6	281.5	20- 25	64.20	189.9	20.7,0.35
30	279.6	292.4	305.0	294.5	279.8	262.6	252.9	260.4	25- 30	72.77	262.6	28.6,0.49
35	261.6	272.5	281.3	274.2	260.0	239.4	224.2	237.9	30- 35	78.69	341.3	37.1,0.63
40	242.1	252.5	257.6	253.3	239.3	216.4	195.5	215.7	35- 40	81.76	423.1	46,0.78
45	221.3	229.3	227.5	229.7	217.6	192.0	164.1	191.7	40- 45	82.11	505.2	55,0.94
50	199.9	207.0	197.3	206.7	194.9	168.3	132.7	169.0	45- 50	79.71	584.9	63.6,1.08
55	177.8	182.4	165.3	181.0	171.7	143.9	104.4	145.3	50- 55	74.94	659.8	71.8,1.22
60	155.0	158.4	133.2	156.0	148.5	120.0	76.17	122.1	55- 60	68.01	727.8	79.2,1.35
65	132.0	133.1	103.6	130.3	124.6	95.73	55.94	98.63	60- 65	59.41	787.2	85.7,1.46
70	108.1	108.0	73.95	104.7	100.1	72.17	35.72	75.78	65- 70	49.25	836.5	91,1.55
75	84.35	82.77	51.31	78.60	76.12	49.25	22.42	53.65	70- 75	37.85	874.4	95.1,1.62
80	61.22	58.52	28.68	53.59	51.85	29.32	9.116	33.90	75- 80	26.65	901.0	98,1.67
85	38.12	18.34	0	16.15	26.87	7.427	0	9.148	80- 85	15.02	916.0	99.7,1.7
90	6.673	0	0	0	5.633	0	0	0	85- 90	3.041	919.1	100,1.7
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG				LUMINO			UNI	r:1m				

C Range: 0 - 360DEG C Interval: 5.0DEG Test Speed: HIGH

Temperature:26DEG

Test Date: 2014-02-20

Operators:Jeff

γ Range: 0 - 90DEG

γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V1.0.257

Humidity:62%

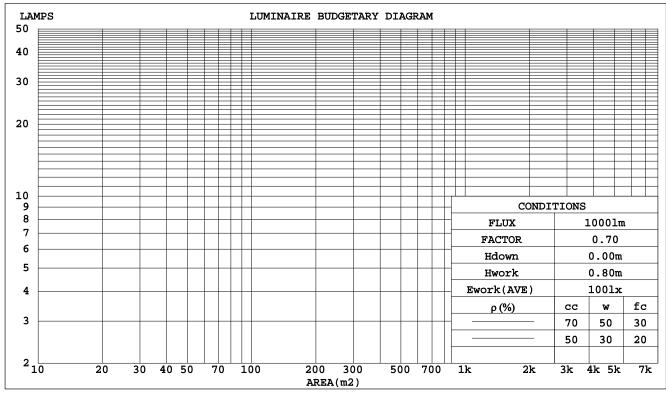
Test Distance: 6.810m [K=1.0000]



CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: C-FR-F17A-D24V-60-W6500-1M	TYPE:FPC	WEIGHT:0.102kg/m
DIM.: 13.5*6mm	SPEC.:	SERIAL No.:L201402052
MFR.: CLEAR	SUR.:13.5*1000mm	PROTECTION ANGLE:

ραα		80%			70%			50%			30%			10%		0
ρW	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ£c		20%			20%			20%			20%			20%		0
RCR	RCR:Rc	om Cav	ity Rat	io		Coe	fficien	ts of	Utiliza	tion(C	U)					
0.0	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02
1.0	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.02	.01	.01	.01
2.0	.02	.01	.01	.02	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
3.0	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
4.0	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
5.0	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
6.0	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
7.0	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
8.0	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01
9.0	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.01	.00	.00
10.0	.01	.01	.00	.01	.01	.00	.01	.01	.00	.01	.01	.00	.01	.01	.00	.00



C Range: 0 - 360DEG C Interval: 5.0DEG Test Speed: HIGH Temperature: 26DEG Operators: Jeff Test Date: 2014-02-20 γ Range: 0 - 90DEG

γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V1.0.257

Humidity:62%

Test Distance: 6.810m [K=1.0000]



WEC AND CCEC

NAME: C-FR-F17A-D24V-60-W6500-1M	TYPE:FPC	WEIGHT:0.102kg/m
DIM.: 13.5*6mm	SPEC.:	SERIAL No.:L201402052
MFR.: CLEAR	SUR.:13.5*1000mm	PROTECTION ANGLE:

ραα		80%			70%			50%			30%			10%		0
ρW	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ£c		20%			20%			20%			20%			20%		0
RCR	RCR:R	Room C	avity	Ratio				Wall	Exitar	nce Co	effci	ents(W	IEC)			
0.0																
1.0	.005	.003	.001	.005	.003	.001	.005	.003	.001	.005	.003	.001	.004	.003	.001	
2.0	.005	.003	.001	.005	.003	.001	.005	.003	.001	.004	.002	.001	.004	.002	.001	
3.0	.005	.002	.001	.004	.002	.001	.004	.002	.001	.004	.002	.001	.004	.002	.001	
4.0	.004	.002	.001	.004	.002	.001	.004	.002	.001	.004	.002	.001	.004	.002	.001	
5.0	.004	.002	.001	.004	.002	.001	.004	.002	.001	.004	.002	.001	.003	.002	.001	
6.0	.004	.002	.001	.004	.002	.001	.003	.002	.001	.003	.002	.001	.003	.002	.000	
7.0	.003	.002	.000	.003	.002	.000	.003	.002	.000	.003	.002	.000	.003	.002	.000	
8.0	.003	.002	.000	.003	.002	.000	.003	.001	.000	.003	.001	.000	.003	.001	.000	
9.0	.003	.001	.000	.003	.001	.000	.003	.001	.000	.003	.001	.000	.003	.001	.000	
10.0	.003	.001	.000	.003	.001	.000	.003	.001	.000	.003	.001	.000	.002	.001	.000	

ραα		80%			70%			50%			30%			10%		0
ρ₩	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc		20%			20%			20%			20%			20%		0
RCR	RCR:R	oom C	avity	Ratio		C	Ceilin	g Cav	ity Ex	itanc	e Coef	ficie	nts(CC	CEC)		
0.0	.003	.003	.003	.003	.003	.003	.002	.002	.002	.001	.001	.001	.000	.000	.000	
1.0	.003	.003	.002	.003	.002	.002	.002	.002	.001	.001	.001	.001	.000	.000	.000	
2.0	.003	.002	.002	.003	.002	.001	.002	.001	.001	.001	.001	.001	.000	.000	.000	
3.0	.003	.002	.001	.002	.002	.001	.002	.001	.001	.001	.001	.000	.000	.000	.000	
4.0	.003	.002	.001	.002	.001	.001	.002	.001	.001	.001	.001	.000	.000	.000	.000	
5.0	.003	.002	.001	.002	.001	.001	.001	.001	.000	.001	.001	.000	.000	.000	.000	
6.0	.002	.001	.001	.002	.001	.001	.001	.001	.000	.001	.000	.000	.000	.000	.000	
7.0	.002	.001	.001	.002	.001	.000	.001	.001	.000	.001	.000	.000	.000	.000	.000	
8.0	.002	.001	.000	.002	.001	.000	.001	.001	.000	.001	.000	.000	.000	.000	.000	
9.0	.002	.001	.000	.002	.001	.000	.001	.001	.000	.001	.000	.000	.000	.000	.000	
10.0	.002	.001	.000	.002	.001	.000	.001	.001	.000	.001	.000	.000	.000	.000	.000	

C Range: 0 - 360DEG C Interval: 5.0DEG Test Speed: HIGH Temperature: 26DEG Operators:Jeff

Test Date:2014-02-20

γ Range: 0 - 90DEG

γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V1.0.257

Humidity:62%

Test Distance: 6.810m [K=1.0000]



Uncorrected UGR Table

NAME: C-FR	R-F1	7A-D24V	-60-W650	0-1M	כ	TYPE:FPC			WEIGHT:0.102kg/m			
DIM.: 13.5	5 * 6m	ım.			5	SPEC.:			SERIAL	No.:L20	1402052	
MFR.: CLEA	AR				S	SUR.:13.	5*1000mm	L	PROTECT	ION ANG	LE:	
ceiling/cavi	ty	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
wal	lls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
working plan	ne	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions Viewed crosswise					ise			Vi	ewed endwi	se		
x = 2H y =	2Н	24.2	25.7	24.5	25.9	26.1	23.8	25.3	24.1	25.5	25.7	
	3н	26.1	27.4	26.4	27.7	27.9	25.1	26.5	25.4	26.7	27.0	
	4H	26.9	28.2	27.2	28.5	28.7	25.6	26.9	25.9	27.1	27.4	
	6Н	27.7	28.9	28.0	29.2	29.5	25.8	27.1	26.2	27.4	27.6	
	8Н	28.0	29.2	28.4	29.5	29.8	25.9	27.1	26.2	27.4	27.7	
1	12H	28.3	29.5	28.7	29.8	30.1	25.8	27.0	26.2	27.3	27.6	
4 H	2Н	24.9	26.2	25.2	26.5	26.7	24.6	25.9	24.9	26.2	26.4	
	3н	27.0	28.1	27.3	28.4	28.7	26.2	27.3	26.5	27.6	27.9	
	4H	28.0	29.0	28.4	29.4	29.7	26.8	27.9	27.2	28.2	28.5	
	6Н	28.9	29.9	29.3	30.2	30.6	27.3	28.2	27.7	28.5	28.9	
	8Н	29.4	30.2	29.8	30.6	31.0	27.3	28.2	27.7	28.6	29.0	
1	12H	29.8	30.6	30.2	31.0	31.4	27.3	28.1	27.7	28.5	28.9	
8н	4н	28.3	29.2	28.7	29.6	30.0	27.3	28.2	27.8	28.6	29.0	
	6Н	29.5	30.2	30.0	30.7	31.1	28.0	28.8	28.5	29.2	29.6	
	8Н	30.1	30.8	30.6	31.2	31.6	28.2	28.8	28.6	29.3	29.7	
1	12H	30.7	31.2	31.2	31.7	32.2	28.2	28.7	28.7	29.2	29.7	
12H	4н	28.4	29.2	28.8	29.6	30.0	27.4	28.2	27.9	28.6	29.0	
	6Н	29.6	30.3	30.1	30.7	31.1	28.2	28.9	28.7	29.3	29.8	
	8н	30.3	30.8	30.8	31.3	31.8	28.4	29.0	28.9	29.4	29.9	
Variations wi	th t	the obser	ver posi	tion at s	spacings:	:						
S = 1.0H + 0.1 / - 0.2							+ 0.1 / - 0.2					
1.5H + 0.2 / - 0.3					. 3		+ 0.2 / - 0.3					
2.0H + 0.2 / - 0.4				. 4		+ 0.2 / - 0.4						

CIE Pub.117 Corrected 54000 lm Total Lamp Luminous Flux.(8log(F/F0) = 13.9)

γ Range: 0 - 90DEG C Range: 0 - 360DEG C Interval: 5.0DEG

γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V1.0.257 Test Speed: HIGH

Temperature:26DEG Humidity:62%

Operators:Jeff Test Distance: 6.810m [K=1.0000]

Test Date:2014-02-20 Remarks:



UTILIZATION FACTORS TABLE

NAME: C-FR-F17A-D24V-60-W6500-1M	TYPE:FPC	WEIGHT:0.102kg/m
DIM.: 13.5*6mm	SPEC.:	SERIAL No.:L201402052
MFR.: CLEAR	SUR.:13.5*1000mm	PROTECTION ANGLE:

				REFLEC	CTANCE					
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX		ש	TILIZATION	FACTORS (P	ERCENT)]	k(RI) x RCI	₹ = 5			
k = 0.60	1	1	1	1	1	1	1	1	1	1
0.80	1	1	1	1	1	1	1	1	1	1
1.00	1	1	1	1	1	1	1	1	1	1
1.25	1	1	1	1	1	1	1	1	1	1
1.50	2	1	1	1	1	1	1	1	1	1
2.00	2	1	1	2	1	1	2	1	1	1
2.50	2	2	1	2	2	1	2	1	1	1
3.00	2	2	2	2	2	2	2	2	1	1
4.00	2	2	2	2	2	2	2	2	2	1
5.00	2	2	2	2	2	2	2	2	2	1
ROOM INDEX		ı	1	UF(to	otal)	1				Direc
According to Di	 IN EN 13032	2-2 2004		UF (to		ended			SHRNOM =	

C Range: 0 - 360DEG C Interval: 5.0DEG Test Speed: HIGH Temperature: 26DEG

Operators:Jeff Test Date:2014-02-20 γ Range: 0 - 90DEG

γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V1.0.257

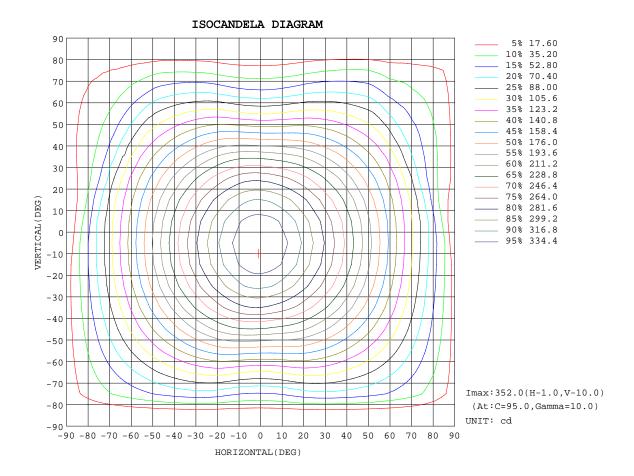
Humidity:62%

Test Distance: 6.810m [K=1.0000]



ISOCANDELA DIAGRAM

NAME: C-FR-F17A-D24V-60-W6500-1M	TYPE:FPC	WEIGHT:0.102kg/m	
DIM.: 13.5*6mm	SPEC.:	SERIAL No.:L201402052	
MFR.: CLEAR	SUR.:13.5*1000mm	PROTECTION ANGLE:	



C Range: 0 - 360DEG C Interval: 5.0DEG Test Speed: HIGH Temperature:26DEG Operators:Jeff Test Date:2014-02-20 γ Range: 0 - 90DEG γ Interval: 0.5DEG

 γ Interval: 0.5DEG Test System:EVERFINE GO-2000A_V1 SYSTEM V1.0.257

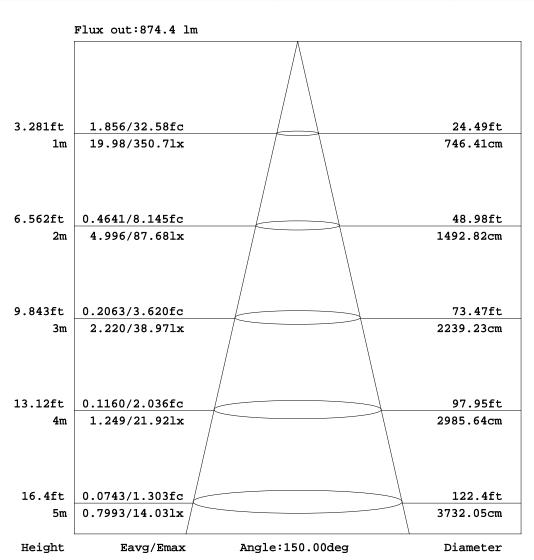
Humidity:62%

Test Distance:6.810m [K=1.0000]



AAI Figure

NAME: C-FR-F17A-D24V-60-W6500-1M	TYPE:FPC	WEIGHT:0.102kg/m
DIM.: 13.5*6mm	SPEC.:	SERIAL No.:L201402052
MFR.: CLEAR	SUR.:13.5*1000mm	PROTECTION ANGLE:



Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

γ Range: 0 - 90DEG C Range: 0 - 360DEG γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V1.0.257 C Interval: 5.0DEG Test Speed: HIGH

Humidity:62% Temperature: 26DEG Operators:Jeff

Test Distance: 6.810m [K=1.0000]

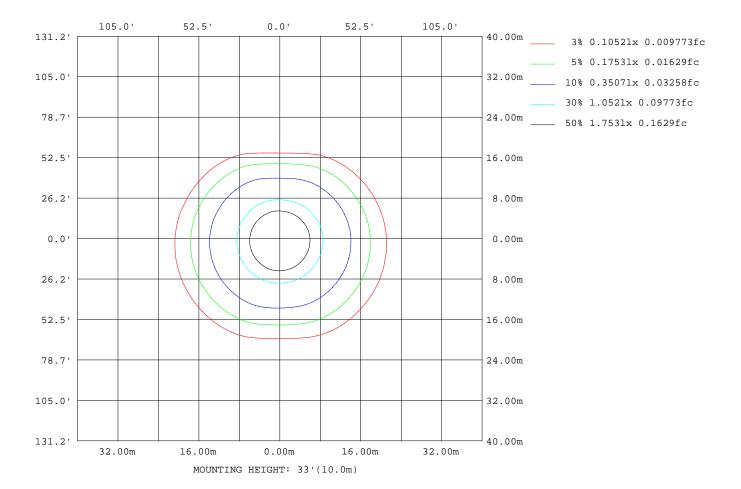
Remarks:

Test Date: 2014-02-20



ISOLUX DIAGRAM

NAME: C-FR-F17A-D24V-60-W6500-1M	TYPE:FPC	WEIGHT:0.102kg/m
DIM.: 13.5*6mm	SPEC.:	SERIAL No.:L201402052
MFR.: CLEAR	SUR.:13.5*1000mm	PROTECTION ANGLE:



C Range: 0 - 360DEG C Interval: 5.0DEG Test Speed: HIGH Temperature: 26DEG Operators:Jeff Test Date: 2014-02-20

γ Range: 0 - 90DEG

γ Interval: 0.5DEG Test System:EVERFINE GO-2000A_V1 SYSTEM V1.0.257

Humidity:62%

Test Distance: 6.810m [K=1.0000]



Average Luminance Table(CIBSE)

NAME: C-FR-F17A-D24V-60-W6500-1M	TYPE:FPC	WEIGHT:0.102kg/m
DIM.: 13.5*6mm	SPEC.:	SERIAL No.:L201402052
MFR.: CLEAR	SUR.:13.5*1000mm	PROTECTION ANGLE:

Parameter description for average Luminance	Symbol	Value	Unit
Luminance in Azimuth Plane	Вс	refer Table 2	cd/sq.m.
Intensity at angle Gamma in given azimuth plane	I	from data	cd/klm
Number of lamps	N	60	
Output of each lamp(initial lumens as specified)	F	900	lm
Multiplying factor	K	1	
Luminous area in horizontal plane used in calculations	A	0.0135	sq.m.
Angle to the downward vertical from light centre	Gamma	from data	deg

Table 1. Calculation parameters for determination of CIBSE LG3:1996 Average Luminance

G								Ср	lane(deg)									
deg	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
55	22967	2331	7 23571	23612	2361	3 2 3 5 0 6	23234	22627	21662	21342	21963	22988	23375	23405	23359	2319	3 22979	22595	22180
60	22956	2337	223722	23707	2351	6 23287	22755	21865	20386	19730	20510	22155	22804	23071	23087	2309	122857	22504	122001
65	23130	2362	8 2 3 8 7 8	23833	2351	9 23159	22382	21011	18977	18151	L18983	321137	22279	22764	22917	2291	122760	22536	21846
70	23421	2397	3 24281	24268	2381	7 23027	721964	19943	317111	1601	516939	19833	21630	22409	22917	2284	22826	22474	121688
75	24141	2475	7 25179	25048	2421	423087	721683	19040	15834	14685	15560	18623	21012	22130	22778	2299	7 2 3 0 9 3	22697	721787
80	26114	2694	9 27 3 8 9	26843	2580	5 24006	21611	17653	13589	12232	213116	16652	20329	22209	23311	2379	24054	23649	22118
85	32398	3419	6 3 4 7 7 3	33587	2045	911617	7 5768	2091	407	0	392	1958	5350	10423	17595	2792	28868	28123	322840

Table 2. Average Luminance(cd/sq.m.) for defined C plane, Gamma angle

CIBSE	Gamma	Average 1	Luminance	Patch Luminance					
Category	(deg)	maximum	specified	maximum	specified				
		calculated	maximum	measured	maximum				
Category 1	55 to 90	34773	200		500				
Category 2	65 to 90	34773	200		500				
Category 3	75 to 90	34773	200		500				

Table 3. Tabulation of Average and Patch Luminance(cd/sq.m.) for defined CIBSE categories

No match

C Range: 0 - 360DEG C Interval: 5.0DEG Test Speed: HIGH Temperature: 26DEG

Operators:Jeff
Test Date:2014-02-20

γ Range: 0 - 90DEG γ Interval: 0.5DEG

γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V1.0.257

Humidity:62%

Test Distance: 6.810m [K=1.0000]



NAME: C-FR-F17A-D24V-60-W6500-1M	TYPE: FPC	WEIGHT:0.102kg/m
DIM.: 13.5*6mm	SPEC.:	SERIAL No.:L201402052
MFR.: CLEAR	SUR.:13.5*1000mm	PROTECTION ANGLE:

Table1																UNI	T: cd		
C(DEG)																			
γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	351	351	351	351	351	351	351	351	351	351	351	351	351	351	351	351	351	351	351
5	348	348	348	348	348	349	349	349	349	350	350	350	350	351	351	351	351	351	351
10	340	340	340	341	341	342	343	344	345	346	347	348	349	350	350	351	351	352	352
15	328	328	328	329	331	332	334	336	338	339	339	340	341	342	342	343	344	344	344
20	313	314	314	316	318	320	322	322	323	325	326	328	330	331	333	334	335	336	337
25	297	297	299	300	303	304	305	306	308	310	312	314	315	316	317	318	319	320	321
30	280	280	282	284	286	287	288	290	292	292	293	295	296	298	300	301	302	304	305
35	262	262	264	267	267	268	270	271	271	272	274	276	277	277	278	278	279	280	281
40	242	243	245	247	247	249	250	250	251	253	253	253	253	254	254	255	255	256	258
45	221	222	225	225	227	228	228	230	229	229	230	230	230	230	229	227	226	227	227
50	200	201	203	204	205	206	207	206	206	207	206	206	205	204	202	200	198	197	197
55	178	179	181	182	183	183	183	183	183	182	182	181	180	178	175	171	168	166	165
60	155	157	158	159	160	160	160	159	159	158	157	156	154	151	148	143	138	134	133
65	132	134	135	136	136	136	136	136	134	133	132	130	128	124	120	114	108	105	104
70	108	109	111	112	112	113	112	111	110	108	106	104	101	97.4	92.1	85.2	79.0	75.2	73.9
75	84.3	85.3	86.5	87.5	88.0	88.1	87.5	86.4	84.6	82.8	80.7	78.7	75.8	71.8	66.5	60.5	55.3	52.4	51.3
80	61.2	61.8	63.2	63.9	64.2	63.7	62.9	62.0	60.5	58.5	56.3	53.8	50.7	46.6	41.4	36.1	31.9	29.6	28.7
85	38.1	39.0	40.2	40.8	40.9	40.7	39.5	31.0	24.1	18.3	13.7	9.86	6.79	4.32	2.46	1.21	0.48	0.11	0.00
90	6.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG C Interval: 5.0DEG Test Speed: HIGH Temperature:26DEG Operators:Jeff

Test Date: 2014-02-20

γ Range: 0 - 90DEG

γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V1.0.257

Humidity:62%

Test Distance: 6.810m [K=1.0000]



NAME: C-FR-F17A-D24V-60-W6500-1M	TYPE:FPC	WEIGHT:0.102kg/m
DIM.: 13.5*6mm	SPEC.:	SERIAL No.:L201402052
MFR.: CLEAR	SUR.:13.5*1000mm	PROTECTION ANGLE:

Table2																UNI	T: cd		
C(DEG)																			
γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	351	351	351	351	351	351	351	351	351	351	351	351	351	351	351	351	351	351	351
5	351	351	351	351	351	351	351	350	350	350	350	349	349	349	349	349	349	348	348
10	352	352	351	351	350	349	348	347	347	346	345	344	343	342	342	341	341	341	340
15	345	344	344	343	343	342	341	340	340	339	337	335	333	332	331	330	329	329	327
20	337	337	336	335	333	332	330	328	326	325	324	323	321	319	317	316	315	315	312
25	321	321	321	320	319	317	316	315	312	310	308	307	306	304	302	300	299	298	295
30	306	305	304	303	301	299	297	296	295	294	291	289	287	286	284	282	280	280	277
35	282	282	282	282	281	279	278	276	274	273	272	271	268	266	266	263	261	260	257
40	259	259	259	259	258	256	255	254	253	252	250	249	248	246	244	243	240	239	236
45	229	231	232	233	233	233	232	231	230	229	228	227	226	225	223	222	219	218	214
50	199	202	204	206	207	207	207	207	207	205	204	204	203	202	200	198	196	195	191
55	167	170	174	178	180	181	182	181	181	181	181	180	179	178	178	175	173	172	168
60	135	138	144	150	152	154	155	156	156	156	156	156	155	154	153	152	150	149	145
65	105	108	114	121	125	127	129	130	130	131	131	131	131	130	129	129	126	125	121
70	74.9	78.2	84.3	91.6	96.6	99.9	102	103	105	106	105	106	106	105	104	104	102	100	96.5
75	51.9	54.4	59.0	65.1	70.0	73.4	75.8	77.3	78.6	79.6	79.9	80.4	80.6	80.7	80.0	79.3	78.2	76.1	64.2
80	29.0	30.7	34.0	39.0	44.0	47.7	50.2	52.1	53.6	54.6	55.3	55.8	56.2	56.4	56.1	55.4	54.7	51.8	34.4
85	0.11	0.46	1.14	2.30	4.05	6.29	9.02	12.3	16.2	20.7	26.2	32.9	33.8	34.0	33.6	33.1	32.3	26.9	21.0
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.63	0.00

C Range: 0 - 360DEG C Interval: 5.0DEG Test Speed: HIGH Temperature:26DEG Operators:Jeff

Test Date: 2014-02-20

γ Range: 0 - 90DEG

γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V1.0.257

Humidity:62%

Test Distance: 6.810m [K=1.0000]



NAME: C-FR-F17A-D24V-60-W6500-1M	TYPE:FPC	WEIGHT:0.102kg/m
DIM.: 13.5*6mm	SPEC.:	SERIAL No.:L201402052
MFR.: CLEAR	SUR.:13.5*1000mm	PROTECTION ANGLE:

Table3																UNI	T: cd		
C(DEG)																			
γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	351	351	351	351	351	351	351	351	351	351	351	351	351	351	351	351	351	351	351
5	347	346	346	345	345	345	344	344	344	343	343	343	343	342	342	342	342	342	342
10	338	337	336	336	335	335	334	334	334	334	334	334	334	334	334	334	334	333	333
15	325	324	323	323	322	322	322	321	321	320	319	319	318	318	318	317	317	317	316
20	310	309	308	307	307	305	304	303	302	302	302	302	302	302	301	301	300	300	299
25	293	292	291	289	287	286	285	284	284	283	282	281	280	279	278	277	277	276	276
30	274	273	272	269	267	266	265	263	261	260	258	258	257	256	255	254	253	252	252
35	255	253	250	248	246	244	242	239	238	237	235	233	231	230	227	226	224	224	224
40	234	231	229	227	224	221	218	216	214	212	210	208	205	202	199	197	195	195	196
45	213	209	207	203	200	198	195	192	190	187	185	182	178	173	169	166	164	164	166
50	189	186	183	180	177	174	171	168	165	162	159	155	150	144	138	135	133	134	137
55	166	164	160	157	153	150	147	144	141	138	134	129	123	116	110	106	104	106	109
60	143	140	137	133	130	126	123	120	116	112	108	102	95.0	87.2	81.2	77.6	76.2	77.3	80.7
65	119	116	110	108	106	103	99.0	95.7	92.2	87.9	83.3	77.8	71.0	64.2	59.6	56.9	55.9	56.9	59.5
70	88.0	81.2	77.3	77.1	78.0	77.4	75.3	72.2	68.7	64.6	59.9	54.6	48.0	42.1	38.5	36.4	35.7	36.6	38.8
75	54.9	52.1	51.6	52.1	52.1	52.7	52.1	49.2	46.0	42.6	38.9	34.8	30.1	26.2	24.0	22.7	22.4	23.0	24.5
80	32.9	32.3	31.4	31.6	31.7	31.2	31.1	29.3	26.4	23.3	20.0	16.7	13.4	11.1	9.80	9.21	9.12	9.50	10.4
85	20.4	18.7	17.3	16.2	15.3	12.2	9.67	7.43	5.28	3.61	2.32	1.38	0.73	0.35	0.14	0.03	0.00	0.04	0.15
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG C Interval: 5.0DEG Test Speed: HIGH Temperature:26DEG Operators:Jeff

Test Date: 2014-02-20

γ Range: 0 - 90DEG

γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V1.0.257

Humidity:62%

Test Distance: 6.810m [K=1.0000]



NAME: C-FR-F17A-D24V-60-W6500-1M	TYPE:FPC	WEIGHT:0.102kg/m
DIM.: 13.5*6mm	SPEC.:	SERIAL No.:L201402052
MFR.: CLEAR	SUR.:13.5*1000mm	PROTECTION ANGLE:

C(DEG) 285 290 295 300 305 310 315 320 325 330 335 340 345 350 355 0 351 352 342 342 342 343 <th></th>	
0 351 351 351 351 351 351 351 351 351 351	
5 342 342 342 343 343 343 344 344 345 346 346 347 10 333 333 333 333 333 333 333 334 334 335 336 337 338 15 317 317 317 318 319 320 321 321 321 322 323 324 326 20 299 299 298 299 299 300 301 302 303 305 306 307 308 309 311 25 276 276 277 278 279 281 282 284 286 288 290 291 292 294 30 252 252 254 255 256 258 260 263 264 266 268 271 273 275 277 35 225 227 229 232 234 236 238 240 243 246 248 251	
10 333 333 333 333 333 333 333 333 334 334 334 335 336 337 338 15 317 317 317 318 319 320 321 321 321 322 323 324 326 326 220 299 299 299 300 301 302 303 305 306 307 308 309 311 311 312 321 321 321 322 323 324 326 326 328 240 243 326 288 290 291 292 294 30 252 252 254 255 256 258 260 263 264 266 268 271 273 275 277 35 225 227 229 232 234 236 238 240 243 246 248 251 255 256 258 40 198 200 204 207 209 212 216 218 221 224 <td></td>	
15 317 317 317 318 319 320 321 321 321 322 323 324 326	
20 299 299 298 299 299 300 301 302 303 305 306 307 308 309 311 25 276 276 277 278 279 281 282 282 284 286 288 290 291 292 294 30 252 252 254 255 256 258 260 263 264 266 268 271 273 275 277 35 225 227 229 232 234 236 238 240 243 246 248 251 255 256 258 40 198 200 204 207 209 212 216 218 221 224 228 231 234 237 239 45 169 173 176 180 184 187 191 194 197 <td></td>	
25 276 276 277 278 279 281 282 282 284 286 288 290 291 292 294 30 252 252 254 255 256 258 260 263 264 266 268 271 273 275 277 35 225 227 229 232 234 236 238 240 243 246 248 251 255 256 258 40 198 200 204 207 209 212 216 218 221 224 228 231 234 237 239 45 169 173 178 182 186 189 192 196 200 202 206 210 212 217 218 50 141 146 152 157 161 165 169 173 176 180 184 187 191 194 197 55 114 120 126	
30	
35	
40 198 200 204 207 209 212 216 218 221 224 228 231 234 237 239 45 169 173 178 182 186 189 192 196 200 202 206 210 212 217 218 50 141 146 152 157 161 165 169 173 176 180 184 187 191 194 197 55 114 120 126 132 137 141 145 149 154 157 161 165 169 172 175 60 86.3 93.1 101 107 112 117 122 126 130 134 139 143 146 150 153 65 64.2 70.1 77.0 83.1 88.7 93.9 98.6 103 108 112 116 120 124 127 130 70 42.8 48.5	
45 169 173 178 182 186 189 192 196 200 202 206 210 212 217 218 50 141 146 152 157 161 165 169 173 176 180 184 187 191 194 197 55 114 120 126 132 137 141 145 149 154 157 161 165 169 172 175 60 86.3 93.1 101 107 112 117 122 126 130 134 139 143 146 150 153 65 64.2 70.1 77.0 83.1 88.7 93.9 98.6 103 108 112 116 120 124 127 130 70 42.8 48.5 54.9 60.9 66.3 71.3 75.8 80.1 84.6 86.9 86.7 88.5 92.1 98.1 106 75 27.2 31.2 35	
50 141 146 152 157 161 165 169 173 176 180 184 187 191 194 197 55 114 120 126 132 137 141 145 149 154 157 161 165 169 172 175 60 86.3 93.1 101 107 112 117 122 126 130 134 139 143 146 150 153 65 64.2 70.1 77.0 83.1 88.7 93.9 98.6 103 108 112 116 120 124 127 130 70 42.8 48.5 54.9 60.9 66.3 71.3 75.8 80.1 84.6 86.9 86.7 88.5 92.1 98.1 106 75 27.2 31.2 35.9 40.6 45.1 49.4 53.7 58.2 60.7 60.0 61.2 63.0 64.6 65.6 74.8 80 12.1 14.8 <td></td>	
55 114 120 126 132 137 141 145 149 154 157 161 165 169 172 175 175 60 86.3 93.1 101 107 112 117 122 126 130 134 139 143 146 150 153 65 64.2 70.1 77.0 83.1 88.7 93.9 98.6 103 108 112 116 120 124 127 130 70 42.8 48.5 54.9 60.9 66.3 71.3 75.8 80.1 84.6 86.9 86.7 88.5 92.1 98.1 106 75 27.2 31.2 35.9 40.6 45.1 49.4 53.7 58.2 60.7 60.0 61.2 63.0 64.6 65.6 74.8 80 12.1 14.8 18.4 22.2 26.2 30.1 33.9 36.8 37.5 37.1 39.9 43.6 46.1 48.3 45.9 85	
60 86.3 93.1 101 107 112 117 122 126 130 134 139 143 146 150 153 65 64.2 70.1 77.0 83.1 88.7 93.9 98.6 103 108 112 116 120 124 127 130 70 42.8 48.5 54.9 60.9 66.3 71.3 75.8 80.1 84.6 86.9 86.7 88.5 92.1 98.1 106 75 27.2 31.2 35.9 40.6 45.1 49.4 53.7 58.2 60.7 60.0 61.2 63.0 64.6 65.6 74.8 80 12.1 14.8 18.4 22.2 26.2 30.1 33.9 36.8 37.5 37.1 39.9 43.6 46.1 48.3 45.9 85 0.39 0.82 1.57 2.68 4.27 6.44 9.15 11.8 15.0 18.2 21.7 24.4 26.9 30.5 31.7	
65 64.2 70.1 77.0 83.1 88.7 93.9 98.6 103 108 112 116 120 124 127 130 70 42.8 48.5 54.9 60.9 66.3 71.3 75.8 80.1 84.6 86.9 86.7 88.5 92.1 98.1 106 75 27.2 31.2 35.9 40.6 45.1 49.4 53.7 58.2 60.7 60.0 61.2 63.0 64.6 65.6 74.8 80 12.1 14.8 18.4 22.2 26.2 30.1 33.9 36.8 37.5 37.1 39.9 43.6 46.1 48.3 45.9 85 0.39 0.82 1.57 2.68 4.27 6.44 9.15 11.8 15.0 18.2 21.7 24.4 26.9 30.5 31.7	
70	
75	
80 12.1 14.8 18.4 22.2 26.2 30.1 33.9 36.8 37.5 37.1 39.9 43.6 46.1 48.3 45.9 85 0.39 0.82 1.57 2.68 4.27 6.44 9.15 11.8 15.0 18.2 21.7 24.4 26.9 30.5 31.7	
85 0.39 0.82 1.57 2.68 4.27 6.44 9.15 11.8 15.0 18.2 21.7 24.4 26.9 30.5 31.7	
90 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0	

C Range: 0 - 360DEG C Interval: 5.0DEG Test Speed: HIGH Temperature:26DEG

Operators:Jeff Test Date: 2014-02-20 γ Range: 0 - 90DEG

γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V1.0.257

Humidity:62%

Test Distance: 6.810m [K=1.0000]