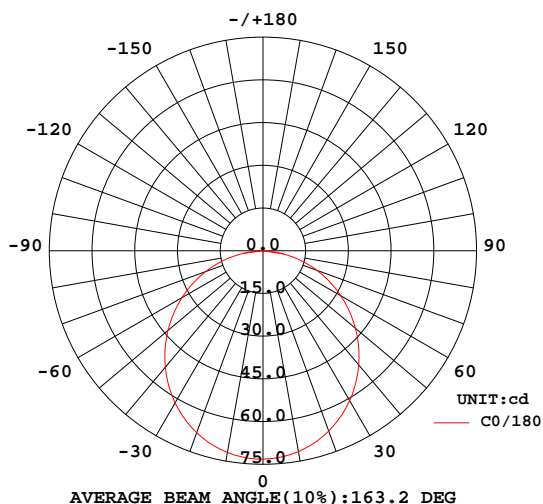


LUMINAIRE PHOTOMETRIC TEST REPORT

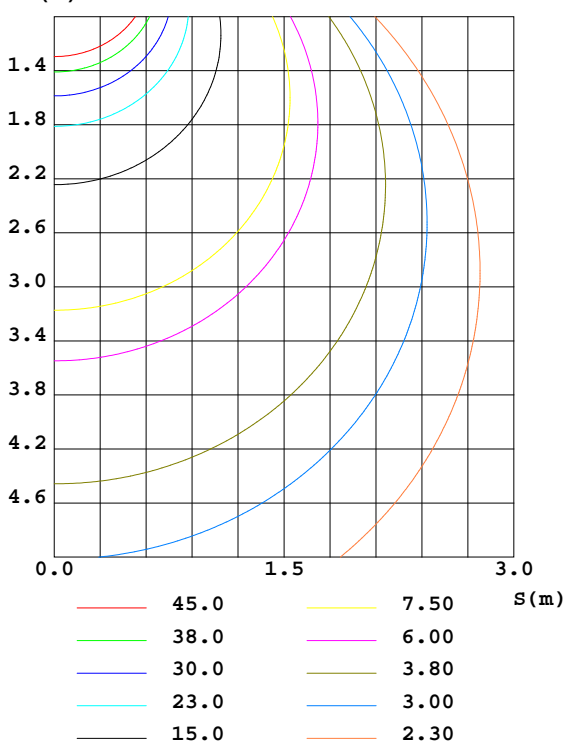
NAME: C-SFR-F15B-HB-D24CC-W2200-72-2835-1M	TYPE:	WEIGHT:0.325Kg/m
DIM.: 11.5*21mm	SPEC.:	SERIAL No.:
MFR.:	SUR.:11.5*1000mm	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 19.78 lm/W
MODEL	2835	Imax(cd)	73.41	S/MH(C0/180)	1.25	
NOMINAL POWER(W)	12	LOR(%)	99.2	S/MH(C90/270)	1.20	
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	220.13	η UP,DN(C0-180)	0.5,45.5	
NOMINAL FLUX(lm)	221.98	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.4,51.8	
LAMPS INSIDE	1	η up(%)	1.9	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	24	η down(%)	97.2	CIBSE SHR MAX	1.35	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-06-30

γ Range: 0 - 180DEG  
γ Interval: 2.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V1.0.257  
Humidity:45.0%  
Test Distance:6.950m [K=1.0000]  
Remarks:

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	71.92	71.14	70.82	70.99	71.60	72.78	73.00	72.74	0- 10	6.922	6.922	3.14,3.12
20	68.03	66.84	65.97	66.27	67.39	69.60	70.09	69.66	10- 20	19.82	26.74	12.1,12
30	61.71	60.22	58.89	59.29	60.83	63.79	64.64	64.02	20- 30	30.00	56.75	25.8,25.6
40	53.38	51.64	50.07	50.56	52.29	55.84	57.05	56.31	30- 40	36.14	92.89	42.2,41.8
50	43.57	41.60	40.08	40.51	42.35	46.36	47.91	46.95	40- 50	37.59	130.5	59.3,58.8
60	32.78	30.93	29.54	29.87	31.51	35.81	37.64	36.52	50- 60	34.44	164.9	74.9,74.3
70	21.49	19.81	18.69	18.85	20.23	24.78	26.90	25.55	60- 70	27.38	192.3	87.4,86.6
80	9.801	8.433	7.579	7.588	8.576	13.43	15.89	14.23	70- 80	17.34	209.6	95.2,94.4
90	0.0050	1.094	1.715	1.033	0	2.973	5.190	3.519	80- 90	6.215	215.9	98.1,97.2
100	0	0.6692	1.218	0.6375	0	1.730	2.708	1.714	90-100	1.424	217.3	98.7,97.9
110	0	0.4926	0.9182	0.4687	0	1.456	2.363	1.470	100-110	1.030	218.3	99.2,98.3
120	0	0.3931	0.7204	0.2998	0	0.9584	1.957	1.213	110-120	0.7727	219.1	99.5,98.7
130	0	0.2860	0.5531	0.1864	0	0.6522	1.546	0.9632	120-130	0.5292	219.6	99.8,98.9
140	0	0.1018	0.3705	0.0503	0	0.3860	1.153	0.6885	130-140	0.3176	219.9	99.9,99.1
150	0	0.0125	0.1094	0.0000	0.0001	0.1321	0.7323	0.3104	140-150	0.1460	220.1	100,99.1
160	0.0194	0.0398	0.0253	0.0278	0.0291	0.0124	0.0606	0.0176	150-160	0.0383	220.1	100,99.2
170	0.0557	0.0697	0.0557	0.0630	0.0606	0.0472	0.0305	0.0378	160-170	0.0100	220.1	100,99.2
180	0.0727	0.0821	0.0786	0.0731	0.0776	0.0747	0.0685	0.0706	170-180	0.0059	220.1	100,99.2
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

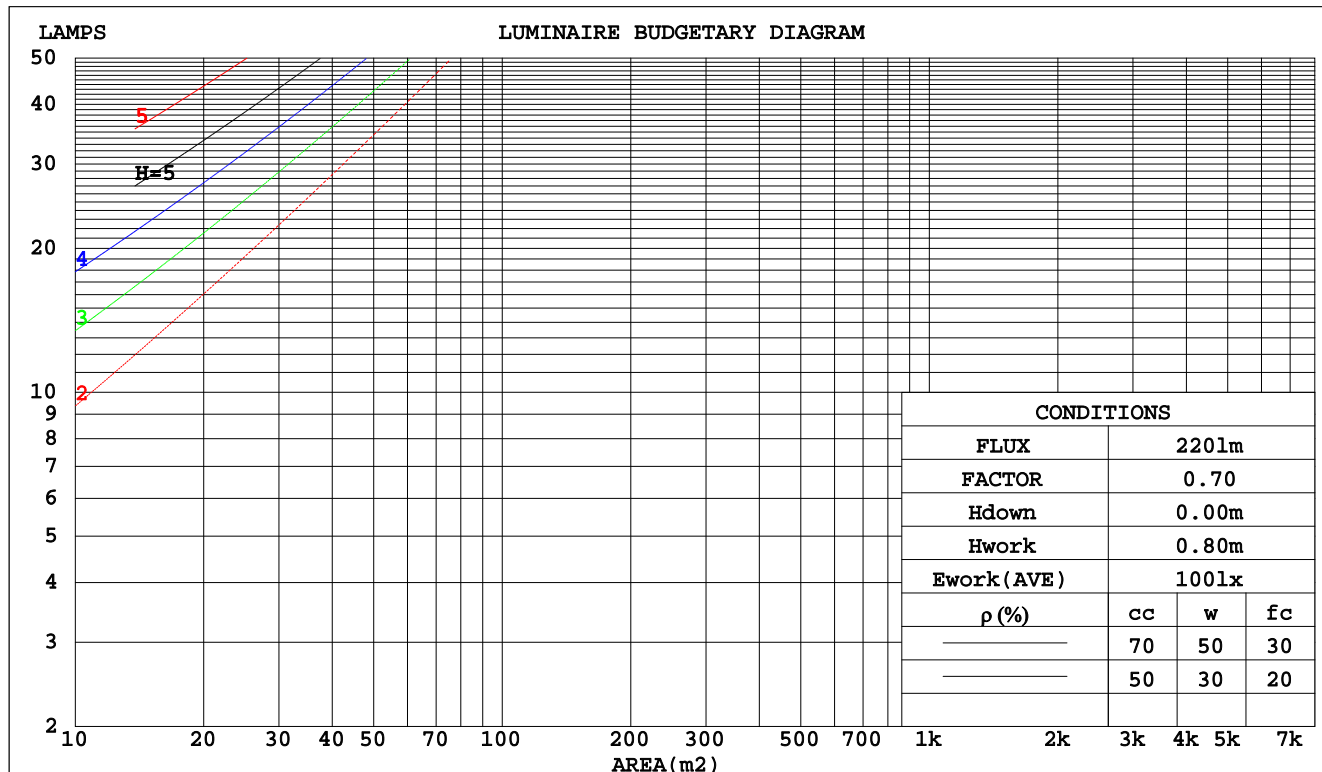
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-06-30

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 2.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V1.0.257  
Humidity:45.0%  
Test Distance:6.950m [K=1.0000]  
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: C-SFR-F15B-HB-D24CC-W2200-72-2835-1M	TYPE:	WEIGHT:0.325Kg/m
DIM.: 11.5*21mm	SPEC.:	SERIAL No.:
MFR.:	SUR.:11.5*1000mm	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.18	1.18	1.18	1.15	1.15	1.15	1.09	1.09	1.09	1.04	1.04	1.04	.99	.99	.99	.97
1.0	1.02	.97	.93	.99	.95	.92	.95	.91	.88	.90	.88	.85	.87	.84	.82	.80
2.0	.88	.81	.75	.86	.80	.74	.82	.77	.72	.79	.74	.70	.75	.72	.68	.66
3.0	.77	.69	.62	.76	.68	.62	.72	.66	.60	.69	.64	.59	.66	.62	.58	.55
4.0	.68	.59	.53	.67	.59	.52	.64	.57	.51	.62	.55	.50	.59	.54	.49	.47
5.0	.61	.52	.45	.60	.51	.45	.57	.50	.44	.55	.49	.43	.53	.47	.43	.41
6.0	.55	.46	.39	.54	.45	.39	.52	.44	.39	.50	.43	.38	.48	.42	.38	.35
7.0	.50	.41	.35	.49	.40	.34	.47	.40	.34	.45	.39	.34	.44	.38	.33	.31
8.0	.45	.37	.31	.44	.36	.31	.43	.36	.30	.42	.35	.30	.40	.34	.30	.28
9.0	.42	.33	.28	.41	.33	.28	.40	.32	.27	.38	.32	.27	.37	.31	.27	.25
10.0	.38	.30	.25	.38	.30	.25	.37	.30	.25	.36	.29	.25	.35	.29	.24	.23



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-06-30

γ Range: 0 - 180DEG  
γ Interval: 2.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V1.0.257  
Humidity:45.0%  
Test Distance:6.950m [K=1.0000]  
Remarks:

WEC AND CCEC

NAME: C-SFR-F15B-HB-D24CC-W2200-72-2835-1M	TYPE:	WEIGHT:0.325Kg/m
DIM.: 11.5*21mm	SPEC.:	SERIAL No.:
MFR.:	SUR.:11.5*1000mm	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.322	.183	.058	.315	.179	.057	.300	.172	.055	.287	.166	.053	.275	.159	.051		
2.0	.298	.164	.050	.292	.161	.049	.279	.155	.048	.267	.150	.047	.256	.145	.046		
3.0	.274	.146	.044	.268	.143	.043	.257	.139	.042	.246	.135	.041	.236	.131	.041		
4.0	.251	.131	.038	.246	.129	.038	.236	.125	.037	.227	.122	.037	.218	.118	.036		
5.0	.232	.118	.034	.227	.116	.034	.218	.113	.033	.210	.111	.033	.202	.108	.032		
6.0	.214	.107	.031	.210	.106	.031	.202	.104	.030	.194	.101	.030	.187	.099	.029		
7.0	.199	.098	.028	.195	.097	.028	.188	.095	.027	.181	.093	.027	.175	.091	.027		
8.0	.186	.091	.025	.182	.090	.025	.176	.088	.025	.170	.086	.025	.164	.084	.025		
9.0	.174	.084	.023	.171	.083	.023	.165	.081	.023	.159	.080	.023	.154	.078	.023		
10.0	.163	.078	.022	.160	.077	.022	.155	.076	.021	.150	.075	.021	.145	.073	.021		

ρ <sub>cc</sub>	80%			70%			50%			30%			10%			0
ρ <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ <sub>fc</sub>	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.204	.204	.204	.174	.174	.174	.119	.119	.119	.068	.068	.068	.022	.022	.022	
1.0	.195	.169	.147	.167	.145	.126	.114	.100	.087	.066	.058	.051	.021	.019	.016	
2.0	.187	.146	.111	.160	.125	.096	.110	.087	.067	.063	.050	.039	.020	.016	.013	
3.0	.179	.128	.088	.154	.111	.076	.106	.077	.053	.061	.045	.031	.020	.015	.010	
4.0	.172	.115	.072	.147	.100	.063	.101	.069	.044	.059	.041	.026	.019	.013	.009	
5.0	.164	.105	.061	.141	.091	.053	.097	.063	.038	.056	.037	.022	.018	.012	.007	
6.0	.157	.097	.054	.135	.084	.047	.093	.059	.033	.054	.035	.020	.017	.011	.006	
7.0	.150	.090	.048	.129	.078	.042	.089	.055	.030	.052	.032	.018	.017	.011	.006	
8.0	.144	.084	.043	.124	.073	.038	.086	.051	.027	.050	.030	.016	.016	.010	.005	
9.0	.138	.079	.040	.118	.069	.035	.082	.048	.025	.048	.029	.015	.015	.009	.005	
10.0	.132	.075	.037	.114	.065	.033	.079	.046	.023	.046	.027	.014	.015	.009	.005	

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-06-30

γ Range: 0 - 180DEG  
γ Interval: 2.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V1.0.257  
Humidity:45.0%  
Test Distance:6.950m [K=1.0000]  
Remarks:

Uncorrected UGR Table

NAME: C-SFR-F15B-HB-D24CC-W2200-72-2835-1M					TYPE:					WEIGHT:0.325Kg/m				
DIM.: 11.5*21mm					SPEC.:					SERIAL No.:				
MFR.:					SUR.:11.5*1000mm					PROTECTION ANGLE:				
ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3				
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3				
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2				
Room dimensions					Viewed crosswise					Viewed endwise				
x = 2H y = 2H					18.8	20.3	19.1	20.6	20.8	18.2	19.7	18.5	20.0	20.2
3H					20.5	21.9	20.8	22.1	22.4	19.7	21.1	20.1	21.4	21.7
4H					21.2	22.5	21.5	22.8	23.1	20.3	21.7	20.7	22.0	22.3
6H					21.7	23.0	22.1	23.3	23.6	20.8	22.0	21.1	22.3	22.6
8H					21.9	23.1	22.2	23.4	23.7	20.8	22.1	21.2	22.4	22.7
12H					22.0	23.1	22.3	23.5	23.8	20.9	22.1	21.3	22.4	22.7
4H 2H					19.4	20.7	19.7	21.0	21.3	18.9	20.2	19.3	20.5	20.8
3H					21.2	22.4	21.6	22.7	23.0	20.6	21.8	21.0	22.1	22.5
4H					22.0	23.1	22.4	23.5	23.8	21.3	22.4	21.7	22.8	23.1
6H					22.7	23.6	23.1	24.0	24.4	21.9	22.8	22.3	23.2	23.6
8H					22.9	23.8	23.4	24.2	24.6	22.0	22.9	22.4	23.3	23.7
12H					23.0	23.9	23.5	24.3	24.7	22.1	22.9	22.5	23.3	23.8
8H 4H					22.3	23.2	22.7	23.6	24.0	21.6	22.5	22.1	22.9	23.4
6H					23.1	23.8	23.5	24.2	24.7	22.3	23.1	22.8	23.5	24.0
8H					23.4	24.0	23.9	24.5	25.0	22.5	23.2	23.0	23.6	24.1
12H					23.6	24.1	24.1	24.6	25.1	22.6	23.2	23.1	23.7	24.2
12H 4H					22.3	23.1	22.7	23.5	24.0	21.7	22.5	22.1	22.9	23.4
6H					23.1	23.8	23.6	24.2	24.7	22.4	23.0	22.9	23.5	24.0
8H					23.4	24.0	23.9	24.5	25.0	22.6	23.2	23.1	23.7	24.2
Variations with the observer position at spacings:														
S = 1.0H					+ 0.1 / - 0.2					+ 0.2 / - 0.2				
1.5H					+ 0.1 / - 0.2					+ 0.2 / - 0.3				
2.0H					+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 222.0 lm Total Lamp Luminous Flux.(8log(F/F0) = -5.2)

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-06-30

γ Range: 0 - 180DEG  
γ Interval: 2.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V1.0.257  
Humidity:45.0%  
Test Distance:6.950m [K=1.0000]  
Remarks:

UTILIZATION FACTORS TABLE

NAME: C-SFR-F15B-HB-D24CC-W2200-72-2835-1M	TYPE:	WEIGHT:0.325Kg/m
DIM.: 11.5*21mm	SPEC.:	SERIAL No.:
MFR.:	SUR.:11.5*1000mm	PROTECTION ANGLE:

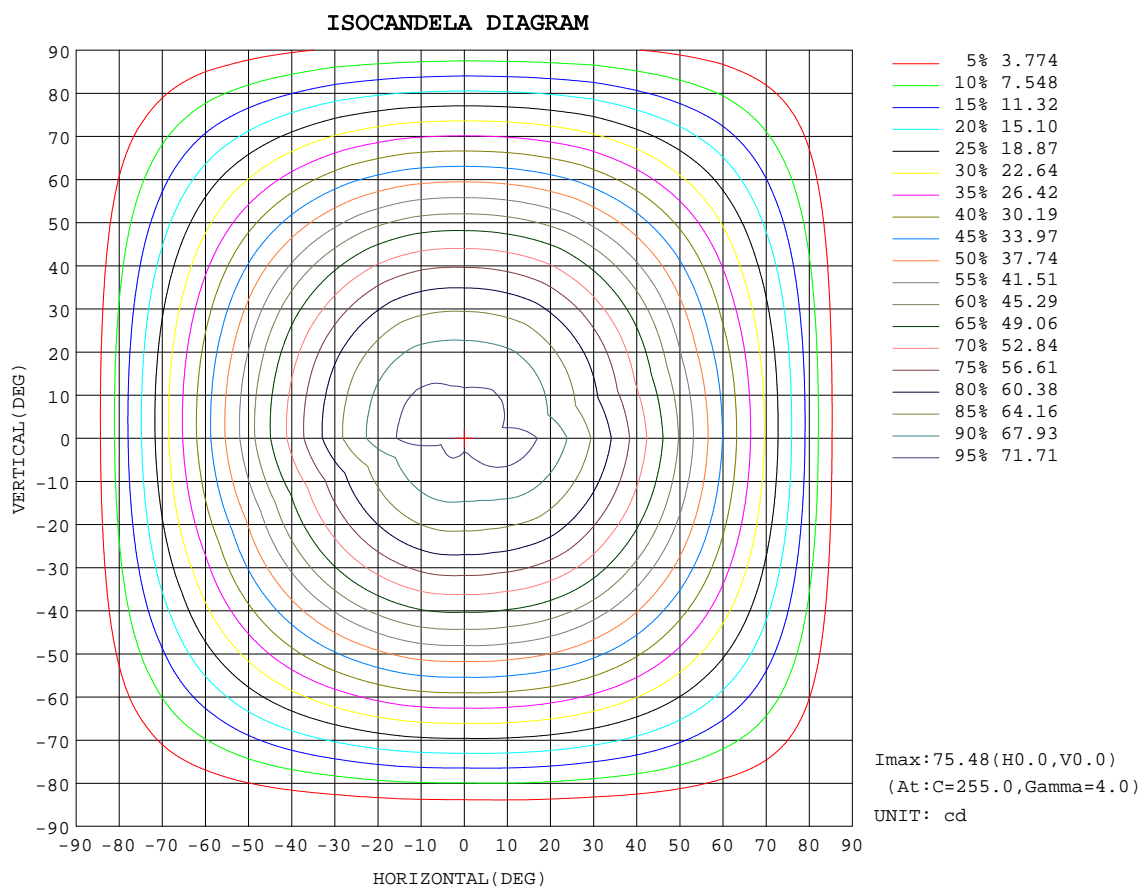
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT)    k(RI) x RCR = 5									
k = 0.60	56	44	37	55	44	37	54	43	37	30
0.80	65	54	46	64	53	46	62	52	46	39
1.00	74	62	55	72	62	55	70	63	54	47
1.25	81	70	63	79	69	62	76	68	61	54
1.50	86	75	68	84	74	68	81	73	67	59
2.00	93	84	77	91	82	76	87	80	74	66
2.50	97	88	82	94	87	81	90	84	79	70
3.00	100	93	87	98	91	86	93	88	83	74
4.00	104	98	93	102	96	92	97	93	89	79
5.00	107	101	97	104	99	95	99	95	92	82
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004										
Suspended										
SHRNM = 1.25										

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-06-30

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 2.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V1.0.257  
Humidity:45.0%  
Test Distance:6.950m [K=1.0000]  
Remarks:

### ISOCANDELA DIAGRAM

NAME: C-SFR-F15B-HB-D24CC-W2200-72-2835-1M	TYPE:	WEIGHT:0.325Kg/m
DIM.: 11.5*21mm	SPEC.:	SERIAL No.:
MFR.:	SUR.:11.5*1000mm	PROTECTION ANGLE:

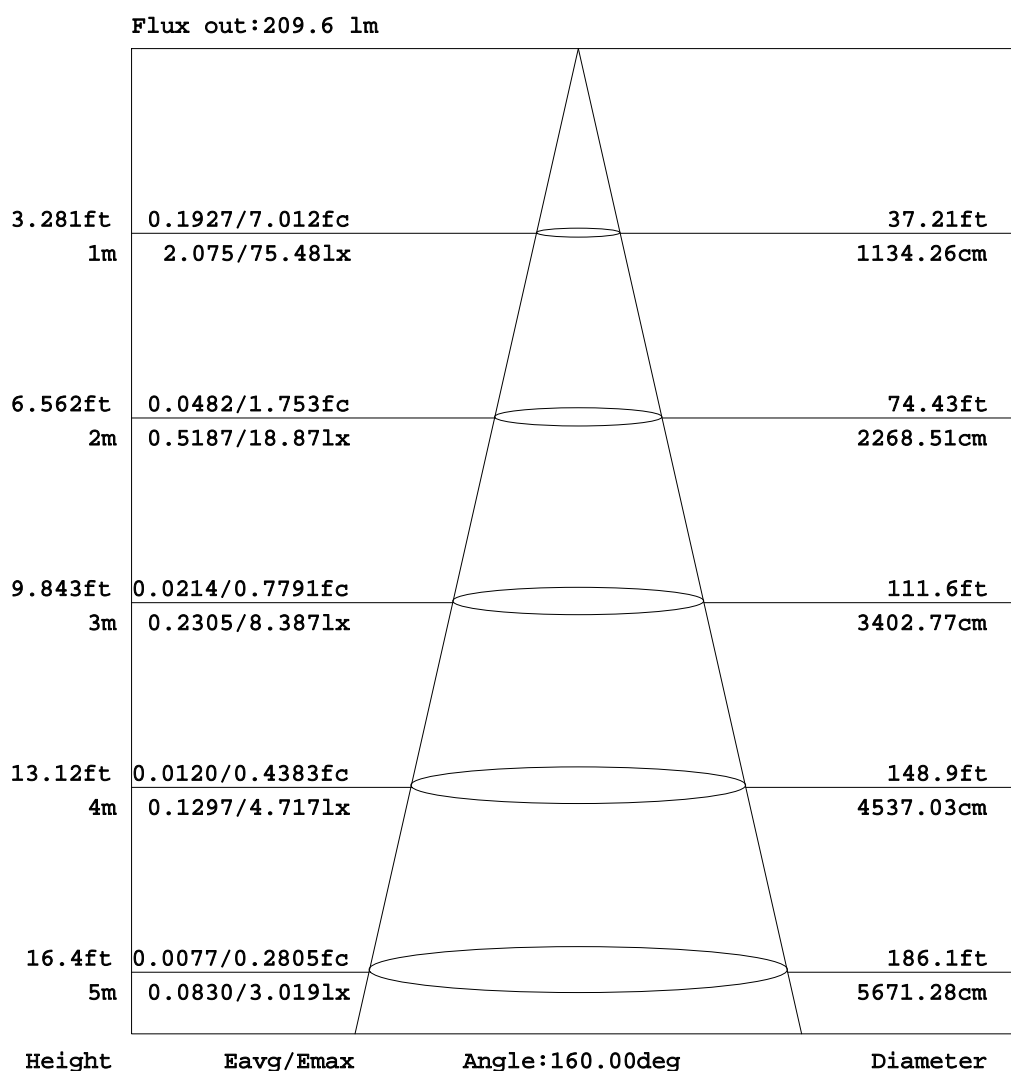


C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-06-30

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 2.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V1.0.257  
Humidity:45.0%  
Test Distance:6.950m [K=1.0000]  
Remarks:

### AAI Figure

NAME: C-SFR-F15B-HB-D24CC-W2200-72-2835-1M	TYPE:	WEIGHT:0.325Kg/m
DIM.: 11.5*21mm	SPEC.:	SERIAL No.:
MFR.:	SUR.:11.5*1000mm	PROTECTION ANGLE:



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

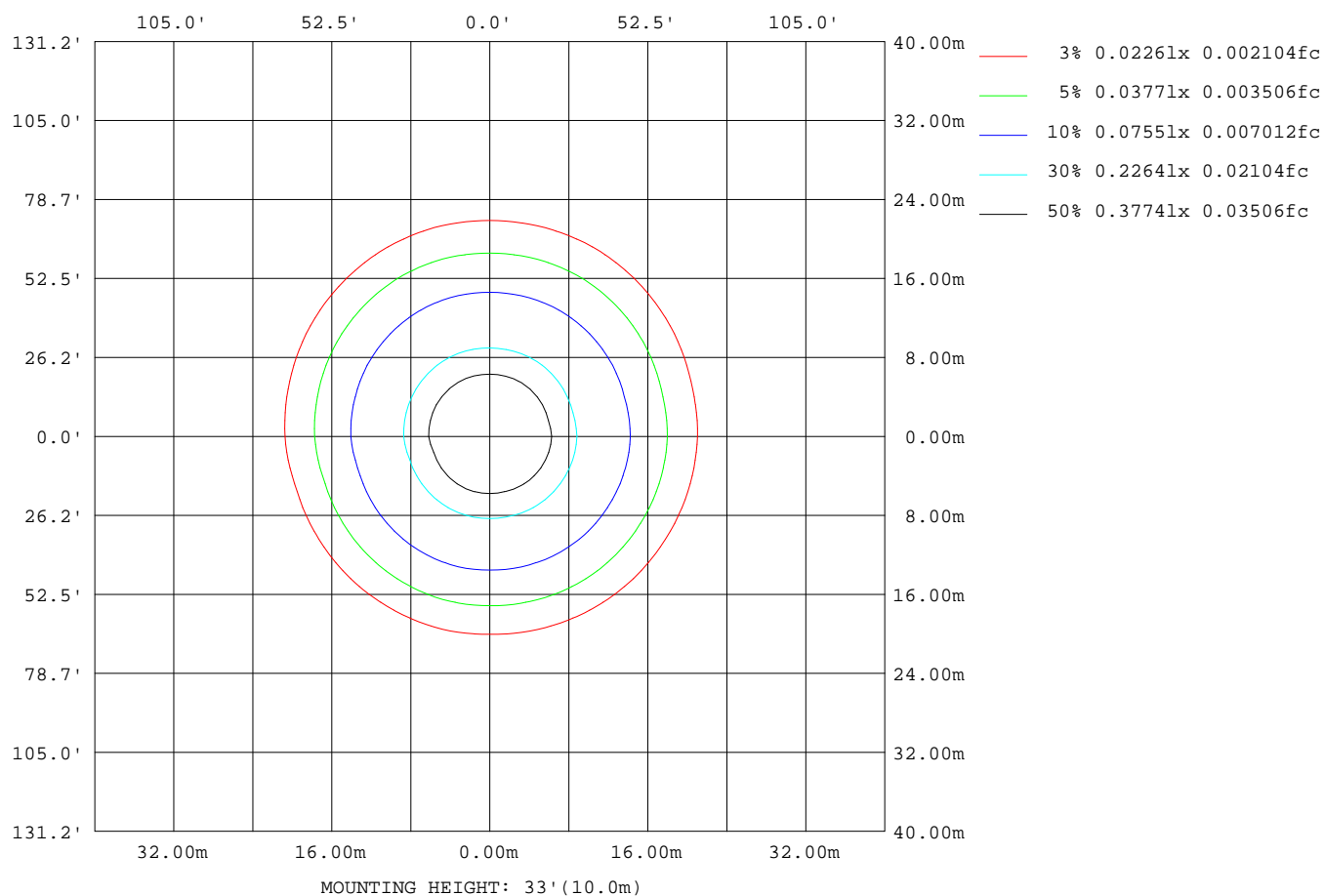
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-06-30

γ Range: 0 - 180DEG  
γ Interval: 2.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V1.0.257  
Humidity:45.0%  
Test Distance:6.950m [K=1.0000]  
Remarks:



ISOLUX DIAGRAM

NAME: C-SFR-F15B-HB-D24CC-W2200-72-2835-1M	TYPE:	WEIGHT:0.325Kg/m
DIM.: 11.5*21mm	SPEC.:	SERIAL No.:
MFR.:	SUR.:11.5*1000mm	PROTECTION ANGLE:



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-06-30

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 2.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V1.0.257  
Humidity:45.0%  
Test Distance:6.950m [K=1.0000]  
Remarks:

**Average Luminance Table(CIBSE)**

NAME: C-SFR-F15B-HB-D24CC-W2200-72-2835-1M	TYPE:	WEIGHT:0.325Kg/m
DIM.: 11.5*21mm	SPEC.:	SERIAL No.:
MFR.:	SUR.:11.5*1000mm	PROTECTION ANGLE:

Parameter description for average Luminance	Symbol	Value	Unit
Luminance in Azimuth Plane	Bc	refer Table 2	cd/sq.m.
Intensity at angle Gamma in given azimuth plane	I	from data	cd/klm
Number of lamps	N	1	
Output of each lamp(initial lumens as specified)	F	221.98	lm
Multiplying factor	K	1	
Luminous area in horizontal plane used in calculations	A	0.0115	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	C plane(deg)																		
deg	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
55	5800	5723	5643	5569	5528	5488	5439	5373	5315	5285	5309	5320	5313	5331	5360	5396	5437	5513	5619
60	5700	5617	5529	5446	5399	5354	5299	5235	5174	5137	5160	5171	5160	5180	5209	5244	5292	5370	5480
65	5594	5502	5402	5306	5253	5203	5142	5078	5015	4971	4993	5000	4986	5007	5036	5069	5119	5207	5335
70	5463	5351	5235	5126	5064	5003	4933	4867	4802	4752	4771	4774	4755	4776	4805	4839	4895	4994	5143
75	5266	5130	4986	4850	4777	4703	4615	4550	4476	4408	4426	4424	4395	4422	4450	4479	4548	4666	4848
80	4908	4725	4529	4346	4260	4157	4029	3973	3892	3795	3812	3799	3748	3778	3802	3819	3904	4052	4294
85	3933	3669	3398	3164	3111	3080	3039	3065	3046	2975	2960	2866	2698	2593	2465	2344	2363	2536	2940

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

CIBSE Category	Gamma (deg)	Average Luminance		Patch Luminance	
		maximum calculated	specified maximum	maximum measured	specified maximum
Category 1	55 to 90	5800	200	---	500
Category 2	65 to 90	5594	200	---	500
Category 3	75 to 90	5266	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: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-06-30

γ Range: 0 - 180DEG  
γ Interval: 2.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V1.0.257  
Humidity:45.0%  
Test Distance:6.950m [K=1.0000]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: C-SFR-F15B-HB-D24CC-W2200-72-2835-1M	TYPE:	WEIGHT:0.325Kg/m
DIM.: 11.5*21mm	SPEC.:	SERIAL No.:
MFR.:	SUR.:11.5*1000mm	PROTECTION ANGLE:

Table--1

UNIT: cd

C( DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2	73.2
5	73.0	72.9	72.8	72.6	72.5	72.5	72.5	72.6	72.6	72.6	72.6	72.6	72.9	73.0	73.1	73.3	73.4	73.4	73.4
10	71.9	71.7	71.4	71.1	70.9	70.8	70.8	70.9	70.9	71.0	71.1	71.3	71.6	71.9	72.3	72.8	73.0	73.0	73.0
15	70.7	70.3	70.0	69.7	69.3	69.2	69.2	69.3	69.3	69.4	69.6	69.8	70.2	70.7	71.2	71.9	72.3	72.2	72.2
20	68.0	67.6	67.1	66.8	66.3	66.0	66.0	66.2	66.2	66.3	66.5	66.8	67.4	68.0	68.8	69.6	70.3	70.2	70.1
25	65.8	65.2	64.7	64.5	63.9	63.5	63.4	63.6	63.6	63.7	64.0	64.4	65.0	65.7	66.6	67.6	68.4	68.4	68.2
30	61.7	61.1	60.5	60.2	59.6	59.0	58.9	59.2	59.1	59.3	59.6	60.1	60.8	61.7	62.7	63.8	64.8	64.8	64.6
35	58.6	57.9	57.3	57.0	56.4	55.7	55.5	55.8	55.8	56.0	56.3	56.8	57.6	58.5	59.7	60.8	61.9	62.0	61.9
40	53.4	52.7	51.9	51.6	51.1	50.4	50.1	50.4	50.3	50.6	50.9	51.4	52.3	53.4	54.6	55.8	57.0	57.3	57.0
45	49.6	48.9	48.1	47.8	47.3	46.5	46.2	46.5	46.4	46.7	47.0	47.5	48.5	49.6	50.9	52.2	53.4	53.8	53.5
50	43.6	42.8	42.0	41.6	41.1	40.4	40.1	40.3	40.3	40.5	40.9	41.4	42.3	43.6	45.1	46.4	47.6	48.1	47.9
55	39.3	38.6	37.8	37.4	36.9	36.3	35.9	36.2	36.1	36.3	36.7	37.1	38.2	39.4	40.9	42.2	43.5	44.1	43.9
60	32.8	32.1	31.3	30.9	30.5	29.9	29.5	29.8	29.7	29.9	30.2	30.6	31.5	32.8	34.4	35.8	37.1	37.8	37.6
65	28.3	27.6	26.9	26.5	26.1	25.6	25.2	25.4	25.3	25.5	25.7	26.2	27.1	28.4	30.0	31.4	32.8	33.4	33.4
70	21.5	20.8	20.2	19.8	19.4	19.0	18.7	18.8	18.7	18.9	19.0	19.4	20.2	21.6	23.3	24.8	26.2	26.9	26.9
75	16.8	16.2	15.6	15.3	14.9	14.6	14.2	14.3	14.2	14.3	14.5	14.8	15.6	17.0	18.8	20.3	21.7	22.4	22.5
80	9.80	9.25	8.68	8.43	8.05	7.88	7.58	7.64	7.48	7.59	7.63	7.93	8.58	10.0	11.9	13.4	14.9	15.7	15.9
85	5.09	4.63	4.19	4.05	3.87	3.82	3.67	3.65	3.45	3.39	3.29	3.45	4.00	5.46	7.36	8.95	10.4	11.2	11.5
90	0.01	0.12	0.63	1.09	1.44	1.67	1.72	1.65	1.40	1.03	0.57	0.10	0.00	0.52	1.74	2.97	4.18	4.87	5.19
95	0.00	0.00	0.44	0.89	1.24	1.45	1.50	1.44	1.20	0.85	0.41	0.01	0.00	0.38	1.18	1.90	2.52	2.92	3.05
100	0.00	0.00	0.30	0.67	0.98	1.17	1.22	1.17	0.95	0.64	0.28	0.00	0.00	0.31	1.06	1.73	2.31	2.64	2.71
105	0.00	0.00	0.25	0.58	0.86	1.03	1.07	1.02	0.83	0.55	0.24	0.00	0.00	0.28	0.9921	1.60	2.14	2.49	2.58
110	0.00	0.00	0.21	0.49	0.72	0.88	0.92	0.87	0.70	0.47	0.16	0.00	0.00	0.19	0.80	1.46	1.94	2.22	2.36
115	0.00	0.00	0.19	0.45	0.66	0.79	0.84	0.80	0.60	0.38	0.13	0.00	0.00	0.12	0.67	1.20	1.81	2.10	2.19
120	0.00	0.00	0.15	0.39	0.57	0.69	0.72	0.69	0.49	0.30	0.08	0.00	0.00	0.03	0.52	0.96	1.46	1.89	1.96
125	0.00	0.00	0.10	0.36	0.52	0.63	0.66	0.63	0.40	0.24	0.05	0.00	0.00	0.00	0.44	0.82	1.24	1.72	1.80
130	0.00	0.00	0.03	0.29	0.43	0.53	0.55	0.52	0.31	0.19	0.00	0.00	0.00	0.00	0.32	0.65	0.98	1.42	1.55
135	0.00	0.00	0.00	0.22	0.37	0.47	0.49	0.40	0.25	0.13	0.00	0.00	0.00	0.00	0.23	0.55	0.82	1.17	1.34
140	0.00	0.00	0.00	0.10	0.26	0.35	0.37	0.28	0.15	0.05	0.00	0.00	0.00	0.00	0.11	0.39	0.62	0.87	1.15
145	0.00	0.00	0.00	0.01	0.17	0.25	0.27	0.19	0.09	0.01	0.00	0.00	0.00	0.00	0.00	0.29	0.51	0.69	1.00
150	0.00	0.00	0.01	0.01	0.01	0.08	0.11	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.13	0.30	0.44	0.73
155	0.01	0.01	0.02	0.02	0.01	0.01	0.00	0.01	0.01	0.02	0.01	0.01	0.01	0.01	0.00	0.00	0.18	0.30	0.55
160	0.02	0.03	0.03	0.04	0.03	0.02	0.03	0.03	0.02	0.03	0.02	0.02	0.03	0.03	0.02	0.01	0.01	0.03	0.06
165	0.04	0.04	0.05	0.06	0.04	0.03	0.03	0.04	0.04	0.04	0.03	0.03	0.04	0.04	0.03	0.03	0.03	0.02	0.03
170	0.06	0.06	0.06	0.07	0.06	0.06	0.06	0.06	0.04	0.06	0.05	0.04	0.06	0.06	0.08	0.05	0.05	0.04	0.03
175	0.06	0.07	0.07	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.06	0.06	0.07	0.06	0.06	0.07	0.06	0.05
180	0.07	0.08	0.09	0.08	0.07	0.07	0.08	0.08	0.08	0.07	0.07	0.07	0.08	0.08	0.08	0.07	0.08	0.07	0.07

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2018-06-30

γ Range: 0 - 180DEG  
γ Interval: 2.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V1.0.257  
Humidity: 45.0%  
Test Distance: 6.950m [K=1.0000]  
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: C-SFR-F15B-HB-D24CC-W2200-72-2835-1M	TYPE:	WEIGHT:0.325Kg/m
DIM.: 11.5*21mm	SPEC.:	SERIAL No.:
MFR.:	SUR.:11.5*1000mm	PROTECTION ANGLE:

Table--2

UNIT: cd

C(DEC) γ (DEC)	285	300	315	330	345														
0	73.2	73.2	73.2	73.2	73.2														
5	73.4	73.3	73.3	73.2	73.1														
10	72.9	72.9	72.7	72.5	72.3														
15	72.1	72.0	71.8	71.5	71.2														
20	70.0	69.9	69.7	69.2	68.7														
25	68.1	68.0	67.7	67.2	66.5														
30	64.5	64.5	64.0	63.4	62.7														
35	61.7	61.7	61.1	60.5	59.6														
40	57.0	56.9	56.3	55.5	54.6														
45	53.4	53.4	52.7	51.9	50.9														
50	47.8	47.7	47.0	46.1	44.9														
55	43.8	43.7	42.9	42.0	40.8														
60	37.6	37.4	36.5	35.5	34.3														
65	33.3	33.1	32.2	31.1	29.8														
70	26.8	26.5	25.6	24.4	23.0														
75	22.4	22.1	21.0	19.9	18.4														
80	15.8	15.4	14.2	13.1	11.4														
85	11.3	10.9	9.76	8.44	6.77														
90	5.03	4.55	3.52	2.33	0.97														
95	2.91	2.53	1.89	1.16	0.38														
100	2.60	2.27	1.71	1.04	0.30														
105	2.47	2.16	1.62	0.96	0.26														
110	2.25	1.97	1.47	0.87	0.23														
115	2.12	1.84	1.36	0.80	0.19														
120	1.88	1.63	1.21	0.71	0.11														
125	1.73	1.50	1.12	0.64	0.01														
130	1.50	1.31	0.96	0.53	0.00														
135	1.35	1.17	0.86	0.44	0.00														
140	1.12	0.97	0.69	0.28	0.00														
145	0.97	0.83	0.57	0.07	0.00														
150	0.71	0.57	0.31	0.00	0.00														
155	0.52	0.37	0.04	0.00	0.01														
160	0.06	0.01	0.02	0.01	0.03														
165	0.02	0.01	0.02	0.03	0.03														
170	0.04	0.04	0.04	0.04	0.06														
175	0.06	0.06	0.06	0.06	0.07														
180	0.07	0.07	0.07	0.06	0.08														

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-06-30

γ Range: 0 - 180DEG  
γ Interval: 2.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V1.0.257  
Humidity:45.0%  
Test Distance:6.950m [K=1.0000]  
Remarks: