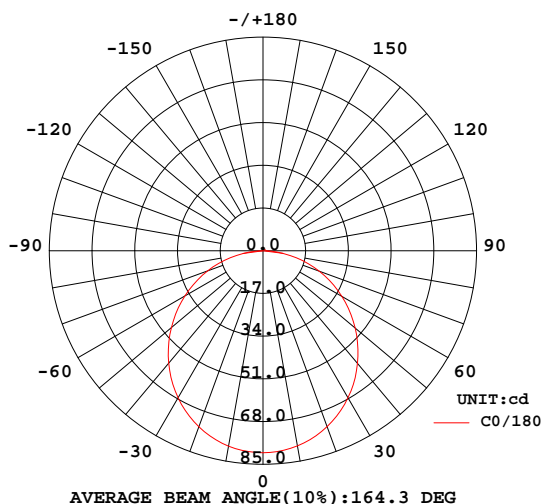


LUMINAIRE PHOTOMETRIC TEST REPORT

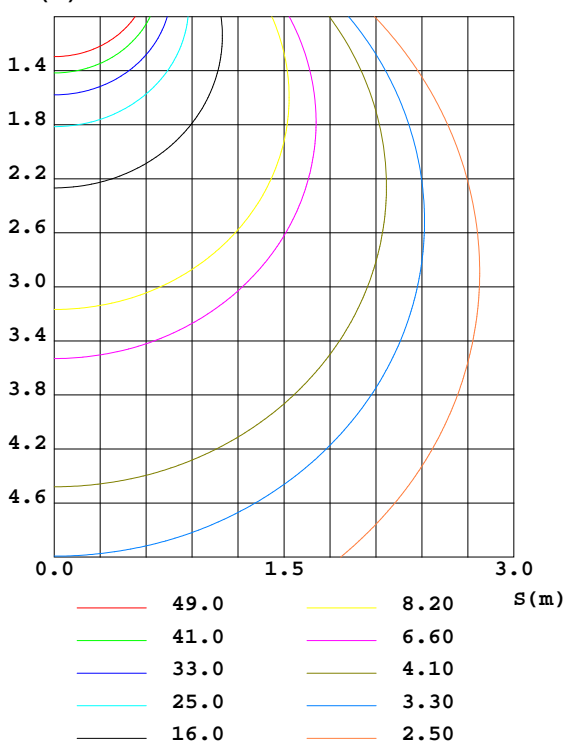
NAME: C-SFR-F15B-HB-D24CC-W4000-72-2835-1M	TYPE: /	WEIGHT: 0.325kg/m
DIM.: 11.5*21mm	SPEC.:	SERIAL No.:
MFR.:	SUR.: 11.5*1000mm	PROTECTION ANGLE: /

DATA OF LAMP		PHOTOMETRIC DATA Eff: 21.47 lm/W			
MODEL	2835	I <sub>max</sub> (cd)	80.40	S/MH(C0/180)	1.25
NOMINAL POWER(W)	12	LOR(%)	97.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	241.59	η UP,DN(C0-180)	1.4,46.7
NOMINAL FLUX(lm)	249.04	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.5,48.4
LAMPS INSIDE	1	η up(%)	1.9	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	24	η down(%)	95.2	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: 2018-06-26

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	78.97	78.71	78.56	78.63	78.85	79.13	79.31	79.23	0- 10	7.603	7.603	3.15,3.05
20	74.59	74.19	73.83	74.07	74.51	75.11	75.38	75.22	10- 20	21.76	29.37	12.2,11.8
30	67.59	67.05	66.55	66.93	67.60	68.44	68.76	68.53	20- 30	32.93	62.30	25.8,25
40	58.40	57.88	57.28	57.75	58.52	59.58	59.91	59.61	30- 40	39.67	102.0	42.2,40.9
50	47.61	47.15	46.59	47.04	47.89	49.09	49.37	49.06	40- 50	41.27	143.2	59.3,57.5
60	35.84	35.63	35.20	35.54	36.19	37.49	37.80	37.41	50- 60	37.83	181.1	75,72.7
70	23.49	23.67	23.44	23.56	23.88	25.31	25.68	25.24	60- 70	30.10	211.2	87.4,84.8
80	10.64	11.36	11.45	11.33	11.03	12.74	13.29	12.65	70- 80	19.10	230.3	95.3,92.5
90	0.0053	2.187	3.234	2.826	1.220	1.755	1.914	1.246	80- 90	6.688	237.0	98.1,95.2
100	0	1.699	2.610	2.361	1.154	0.9178	0.3449	0.0779	90-100	1.503	238.5	98.7,95.8
110	0	1.443	2.249	1.985	1.035	0.7204	0.0874	0	100-110	1.116	239.6	99.2,96.2
120	0	1.189	1.874	1.419	0.8900	0.5822	0	0	110-120	0.8277	240.4	99.5,96.5
130	0	0.8999	1.481	0.9886	0.7468	0.4638	0	0	120-130	0.5769	241.0	99.8,96.8
140	0.0072	0.3149	1.059	0.4825	0.5989	0.3257	0	0	130-140	0.3439	241.3	99.9,96.9
150	0.0484	0.0789	0.2589	0.1502	0.4217	0.1974	0.0050	0.0325	140-150	0.1558	241.5	100,97
160	0.0945	0.1135	0.0700	0.1101	0.2375	0.1036	0.0476	0.0751	150-160	0.0556	241.5	100,97
170	0.1406	0.1455	0.1075	0.1252	0.1237	0.1208	0.0951	0.1152	160-170	0.0310	241.6	100,97
180	0.1673	0.1603	0.1351	0.1552	0.1698	0.1702	0.1276	0.1477	170-180	0.0127	241.6	100,97
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

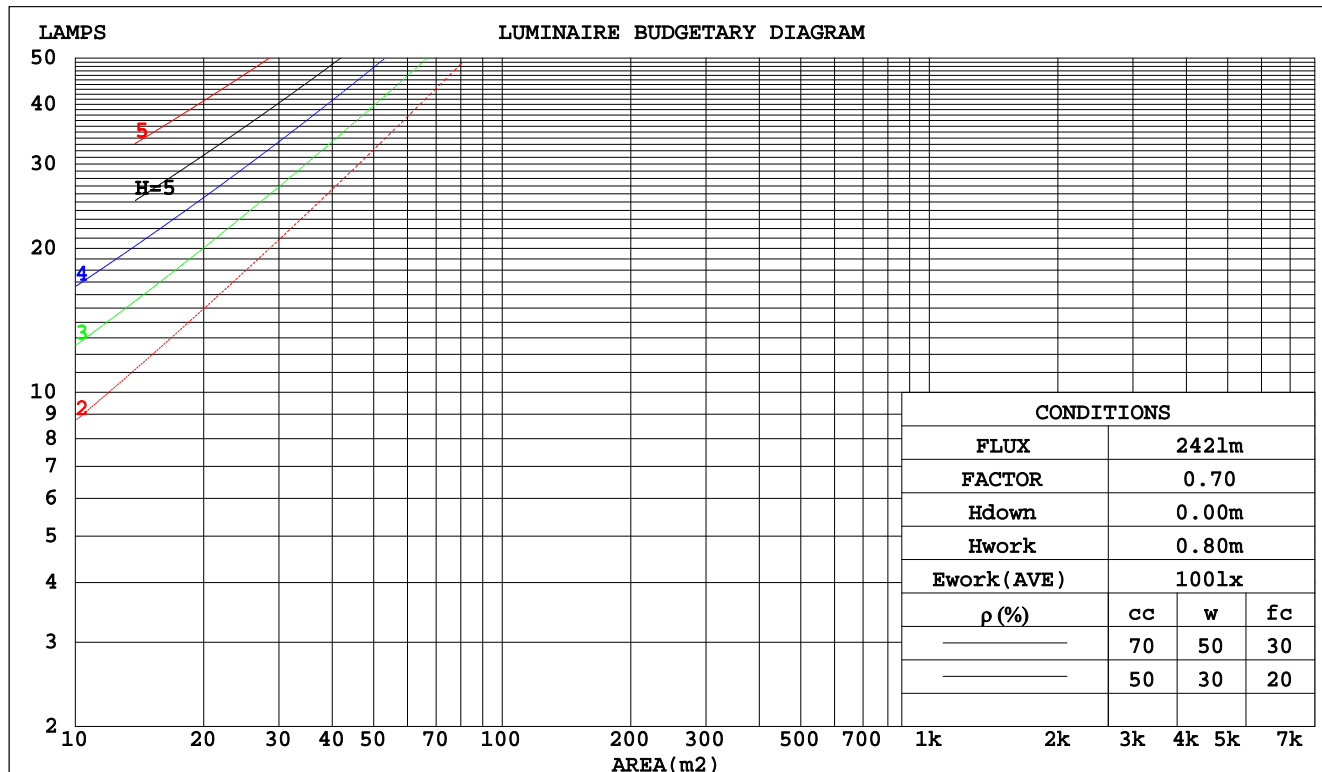
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2018-06-26

$\gamma$  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-W4000-72-2835-1M	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	1.15	1.15	1.15	1.12	1.12	1.12	1.07	1.07	1.07	1.02	1.02	1.02	.97	.97	.97	.95
1.0	.00	.95	.91	.97	.93	.90	.93	.89	.86	.89	.86	.83	.85	.83	.81	.78
2.0	.86	.79	.74	.84	.78	.73	.81	.75	.71	.77	.73	.69	.74	.70	.67	.65
3.0	.76	.67	.61	.74	.66	.60	.71	.64	.59	.68	.62	.58	.65	.60	.56	.54
4.0	.67	.58	.51	.65	.57	.51	.63	.56	.50	.60	.54	.49	.58	.53	.48	.46
5.0	.60	.51	.44	.58	.50	.44	.56	.49	.43	.54	.48	.42	.52	.46	.42	.40
6.0	.54	.45	.38	.53	.44	.38	.51	.43	.38	.49	.42	.37	.47	.41	.37	.35
7.0	.49	.40	.34	.48	.40	.34	.46	.39	.33	.44	.38	.33	.43	.37	.33	.31
8.0	.44	.36	.30	.44	.36	.30	.42	.35	.30	.41	.34	.29	.39	.34	.29	.27
9.0	.41	.33	.27	.40	.32	.27	.39	.32	.27	.38	.31	.27	.36	.31	.26	.24
10.0	.37	.30	.25	.37	.29	.24	.36	.29	.24	.35	.28	.24	.34	.28	.24	.22



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2018-06-26

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-W4000-72-2835-1M	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	.315	.179	.057	.307	.175	.056	.293	.168	.054	.281	.162	.052	.269	.156	.050		
2.0	.292	.160	.049	.285	.157	.048	.273	.152	.047	.261	.147	.046	.251	.142	.045		
3.0	.268	.143	.043	.262	.140	.042	.251	.136	.041	.241	.132	.040	.231	.128	.040		
4.0	.246	.128	.038	.241	.126	.037	.231	.122	.037	.222	.119	.036	.213	.116	.035		
5.0	.227	.115	.033	.222	.114	.033	.213	.111	.033	.205	.108	.032	.197	.105	.032		
6.0	.210	.105	.030	.205	.104	.030	.198	.101	.029	.190	.099	.029	.183	.097	.029		
7.0	.195	.096	.027	.191	.095	.027	.184	.093	.027	.177	.091	.026	.171	.089	.026		
8.0	.181	.089	.025	.178	.088	.025	.172	.086	.025	.166	.084	.024	.160	.082	.024		
9.0	.170	.082	.023	.167	.081	.023	.161	.080	.023	.156	.078	.022	.151	.077	.022		
10.0	.160	.076	.021	.157	.076	.021	.152	.074	.021	.147	.073	.021	.142	.072	.021		

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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.199	.199	.199	.170	.170	.170	.116	.116	.116	.067	.067	.067	.021	.021	.021	
1.0	.190	.166	.143	.163	.142	.123	.111	.098	.085	.064	.057	.050	.021	.018	.016	
2.0	.183	.142	.108	.156	.122	.094	.107	.085	.065	.062	.049	.038	.020	.016	.012	
3.0	.175	.125	.086	.150	.108	.074	.103	.075	.052	.060	.044	.031	.019	.014	.010	
4.0	.168	.113	.070	.144	.097	.061	.099	.068	.043	.057	.040	.025	.018	.013	.008	
5.0	.160	.103	.060	.138	.089	.052	.095	.062	.037	.055	.036	.022	.018	.012	.007	
6.0	.153	.094	.052	.132	.082	.045	.091	.057	.032	.053	.034	.019	.017	.011	.006	
7.0	.147	.088	.047	.126	.076	.041	.087	.053	.029	.051	.031	.017	.016	.010	.006	
8.0	.140	.082	.042	.121	.071	.037	.084	.050	.026	.049	.030	.016	.016	.010	.005	
9.0	.134	.077	.039	.116	.067	.034	.080	.047	.024	.047	.028	.014	.015	.009	.005	
10.0	.129	.073	.036	.111	.064	.032	.077	.045	.023	.045	.026	.013	.015	.009	.004	

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2018-06-26

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-W4000-72-2835-1M						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	19.2	20.7	19.5	21.0	21.2	19.0	20.5	19.3	20.8	21.0					
3H	20.9	22.3	21.2	22.5	22.8	20.7	22.1	21.0	22.4	22.6					
4H	21.6	22.9	21.9	23.2	23.5	21.4	22.8	21.8	23.0	23.3					
6H	22.1	23.4	22.5	23.7	24.0	22.0	23.3	22.4	23.6	23.9					
8H	22.3	23.5	22.6	23.8	24.1	22.2	23.4	22.6	23.8	24.1					
12H	22.4	23.5	22.7	23.9	24.2	22.4	23.5	22.8	23.9	24.2					
4H 2H	19.8	21.2	20.2	21.5	21.8	19.7	21.0	20.0	21.3	21.6					
3H	21.7	22.9	22.1	23.2	23.5	21.6	22.7	21.9	23.1	23.4					
4H	22.5	23.6	22.9	24.0	24.3	22.4	23.5	22.8	23.9	24.2					
6H	23.2	24.1	23.6	24.5	24.9	23.2	24.1	23.6	24.5	24.9					
8H	23.4	24.3	23.9	24.7	25.1	23.4	24.3	23.9	24.7	25.2					
12H	23.5	24.4	24.0	24.8	25.2	23.7	24.5	24.1	24.9	25.3					
8H 4H	22.8	23.7	23.3	24.1	24.6	22.8	23.6	23.2	24.1	24.5					
6H	23.7	24.4	24.1	24.9	25.3	23.7	24.4	24.1	24.9	25.3					
8H	24.0	24.7	24.5	25.1	25.6	24.1	24.7	24.6	25.2	25.7					
12H	24.2	24.8	24.7	25.3	25.8	24.4	24.9	24.9	25.4	25.9					
12H 4H	22.9	23.7	23.3	24.1	24.6	22.8	23.6	23.2	24.0	24.5					
6H	23.8	24.4	24.2	24.9	25.4	23.8	24.4	24.2	24.9	25.4					
8H	24.1	24.7	24.6	25.2	25.7	24.2	24.8	24.7	25.2	25.8					
Variations with the observer position at spacings:															
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2									
1.5H	+ 0.1 / - 0.3					+ 0.2 / - 0.3									
2.0H	+ 0.1 / - 0.3					+ 0.1 / - 0.3									

CIE Pub.117 Corrected 249.0 lm Total Lamp Luminous Flux. (8log(F/F0) = -4.8)

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2018-06-26

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-W4000-72-2835-1M	TYPE: /	WEIGHT: 0.325kg/m
DIM.: 11.5*21mm	SPEC.:	SERIAL No.:
MFR.:	SUR.: 11.5*1000mm	PROTECTION ANGLE: /

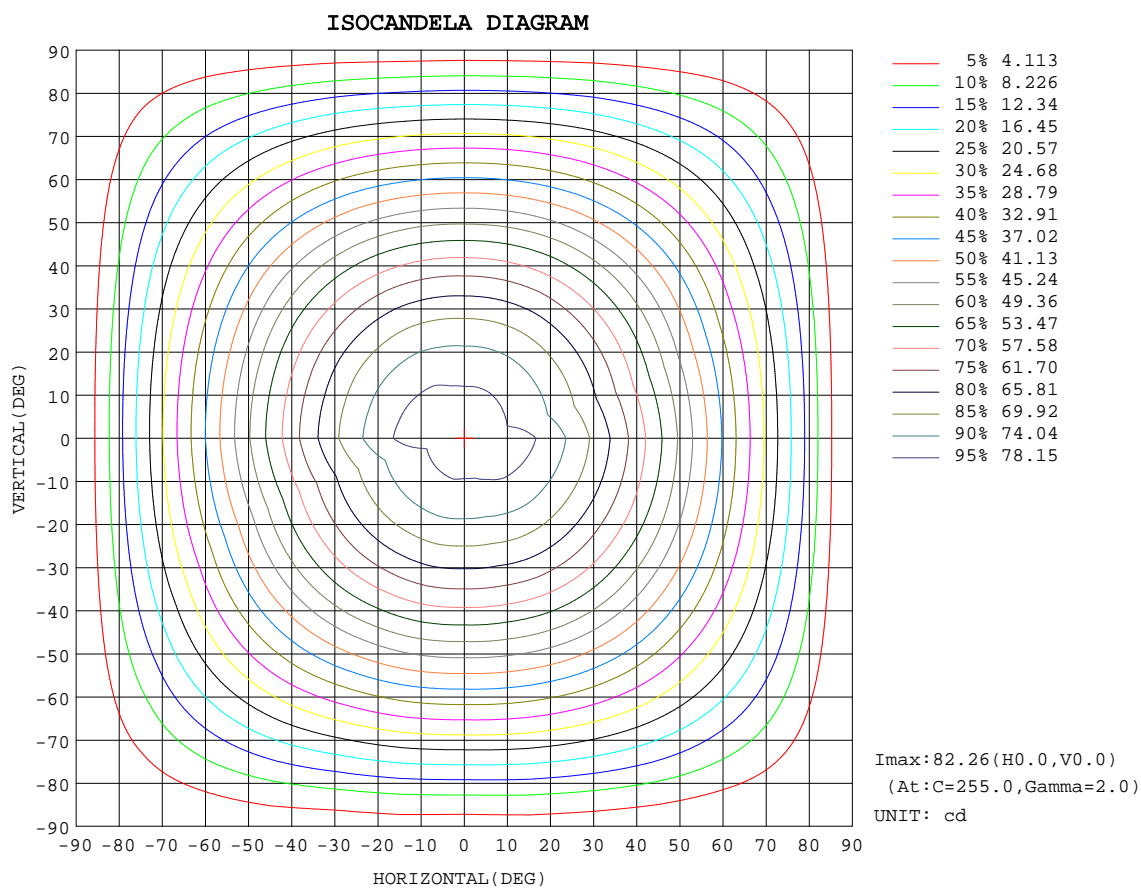
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	54	43	36	54	43	36	52	42	36	30
0.80	64	53	45	63	52	45	61	51	45	38
1.00	72	61	54	71	60	53	68	62	53	46
1.25	79	68	61	77	68	61	75	66	60	52
1.50	84	74	67	82	73	66	79	71	65	57
2.00	91	82	75	89	81	74	85	78	73	65
2.50	94	87	80	92	85	79	88	82	77	69
3.00	98	91	85	96	89	84	91	86	82	73
4.00	102	96	91	99	94	90	95	91	87	78
5.00	104	99	95	102	97	93	97	93	90	81
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004										
Suspended										
SHR <sub>NOM</sub> = 1.25										

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2018-06-26

$\gamma$  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-W4000-72-2835-1M	TYPE: /	WEIGHT: 0.325kg/m
DIM.: 11.5*21mm	SPEC.:	SERIAL No.:
MFR.:	SUR.: 11.5*1000mm	PROTECTION ANGLE: /

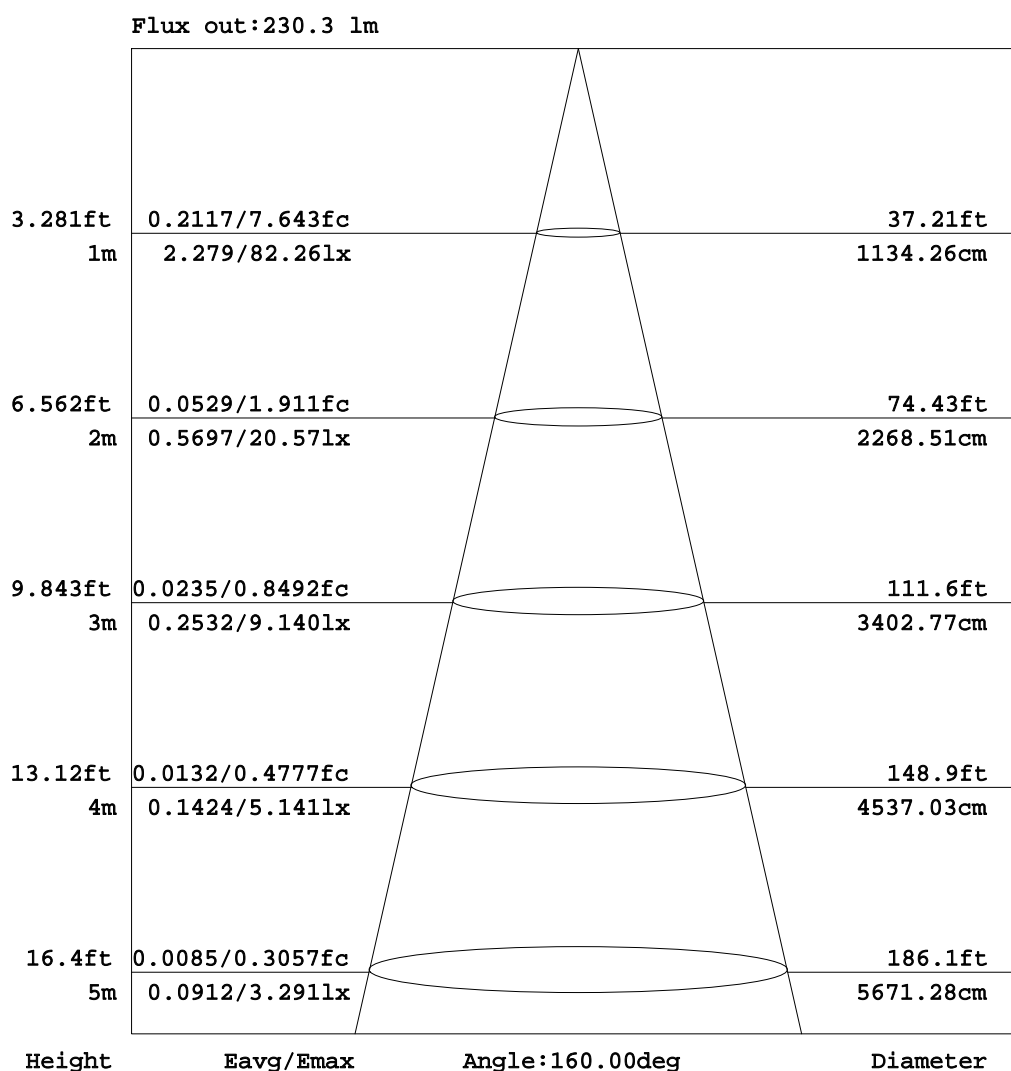


C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2018-06-26

$\gamma$  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-W4000-72-2835-1M	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.

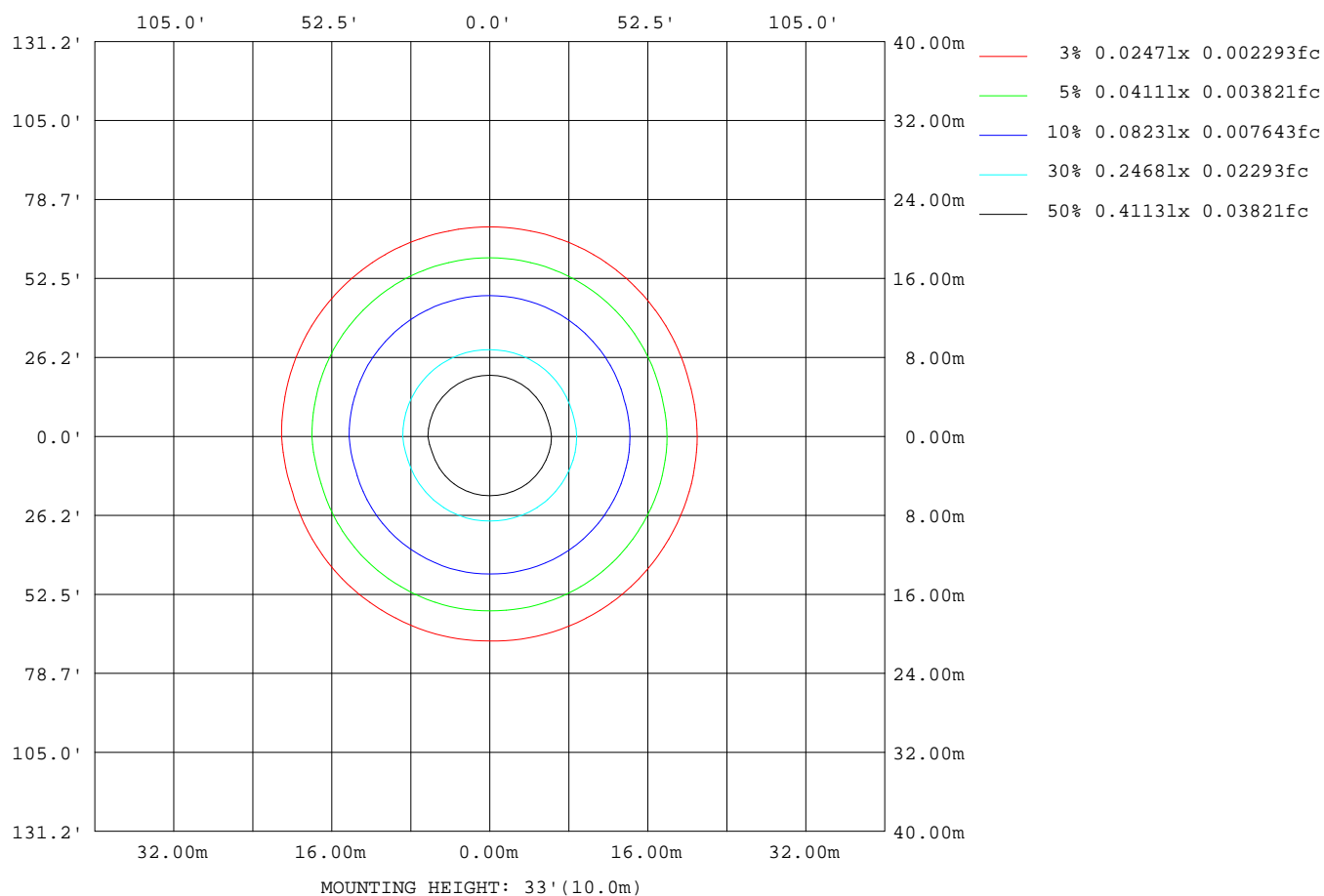
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2018-06-26

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-W4000-72-2835-1M	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: 2018-06-26

$\gamma$  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-W4000-72-2835-1M	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	249.04	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	6341	6333	6315	6292	6286	6287	6287	6268	6237	6209	6222	6227	6223	6253	6281	6297	6304	6337	6394
60	6232	6233	6216	6192	6193	6200	6203	6189	6157	6122	6136	6140	6131	6163	6191	6203	6207	6237	6294
65	6117	6119	6105	6086	6098	6113	6121	6118	6086	6041	6055	6054	6036	6072	6098	6101	6098	6129	6196
70	5973	5986	5976	5962	5997	6027	6037	6046	6013	5959	5975	5966	5932	5968	5993	5988	5968	5994	6071
75	5754	5774	5780	5787	5848	5906	5942	5972	5935	5858	5882	5863	5803	5841	5853	5815	5774	5788	5873
80	5330	5395	5436	5481	5618	5738	5813	5888	5849	5732	5767	5731	5622	5658	5646	5554	5457	5432	5525
85	4223	4437	4645	4879	5260	5581	5792	6001	5983	5800	5865	5764	5504	5513	5409	5133	4840	4652	4712

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	6394	200	---	500
Category 2	65 to 90	6196	200	---	500
Category 3	75 to 90	6001	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: 2018-06-26

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-W4000-72-2835-1M	TYPE: /	WEIGHT: 0.325kg/m
DIM.: 11.5*21mm	SPEC.:	SERIAL No.:
MFR.:	SUR.: 11.5*1000mm	PROTECTION ANGLE: /

Table--1

UNIT: cd

C(°) \ γ (°)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4	80.4
5	80.1	80.1	80.1	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.0	80.1	80.1	80.2	80.2	80.3	80.3	80.3
10	79.0	78.9	78.8	78.7	78.6	78.5	78.6	78.6	78.6	78.6	78.7	78.7	78.9	78.9	79.0	79.1	79.4	79.4	79.3
15	77.6	77.5	77.3	77.2	77.1	77.0	77.0	77.0	77.0	77.1	77.2	77.3	77.5	77.6	77.7	77.9	78.2	78.2	78.1
20	74.6	74.5	74.3	74.2	74.0	73.9	73.8	73.9	73.9	74.1	74.2	74.3	74.5	74.7	74.9	75.1	75.5	75.5	75.4
25	72.1	71.9	71.7	71.6	71.5	71.2	71.2	71.3	71.3	71.5	71.6	71.8	72.0	72.2	72.5	72.7	73.1	73.2	73.0
30	67.6	67.5	67.2	67.0	67.0	66.7	66.6	66.7	66.7	66.9	67.1	67.2	67.6	67.9	68.2	68.4	68.9	69.0	68.8
35	64.2	64.0	63.7	63.6	63.6	63.2	63.0	63.2	63.2	63.5	63.6	63.8	64.2	64.5	64.9	65.1	65.5	65.6	65.5
40	58.4	58.3	58.0	57.9	57.8	57.5	57.3	57.4	57.5	57.8	57.9	58.1	58.5	58.9	59.3	59.6	59.9	60.1	59.9
45	54.3	54.1	53.8	53.7	53.7	53.4	53.2	53.3	53.3	53.6	53.8	54.0	54.4	54.8	55.3	55.5	55.9	56.0	55.8
50	47.6	47.5	47.3	47.1	47.1	46.9	46.6	46.7	46.7	47.0	47.3	47.4	47.9	48.3	48.8	49.1	49.4	49.5	49.4
55	43.0	42.9	42.7	42.6	42.6	42.4	42.1	42.2	42.2	42.5	42.7	42.8	43.4	43.8	44.3	44.5	44.9	44.9	44.8
60	35.8	35.8	35.6	35.6	35.7	35.5	35.2	35.3	35.3	35.5	35.7	35.7	36.2	36.7	37.2	37.5	37.8	37.8	37.8
65	31.0	30.9	30.8	30.9	30.9	30.9	30.5	30.6	30.5	30.8	30.9	30.9	31.3	31.9	32.4	32.7	32.9	33.0	33.0
70	23.5	23.5	23.4	23.7	23.7	23.8	23.4	23.5	23.3	23.6	23.6	23.5	23.9	24.5	25.1	25.3	25.6	25.6	25.7
75	18.4	18.5	18.5	18.7	18.9	19.0	18.6	18.7	18.5	18.7	18.6	18.4	18.7	19.5	20.0	20.3	20.6	20.7	20.7
80	10.6	10.8	10.9	11.4	11.6	11.8	11.4	11.5	11.2	11.3	11.1	10.8	11.0	11.8	12.4	12.7	13.1	13.1	13.3
85	5.48	5.76	6.06	6.57	6.89	7.12	6.87	6.93	6.58	6.59	6.27	5.88	5.92	6.83	7.36	7.73	8.02	8.16	8.35
90	0.01	0.49	1.35	2.19	2.89	3.28	3.23	3.29	2.99	2.83	2.43	1.74	1.22	1.70	1.64	1.75	1.79	1.83	1.91
95	0.00	0.34	1.14	1.89	2.55	2.91	2.87	2.95	2.69	2.58	2.23	1.63	1.21	1.54	1.29	1.15	0.92	0.78	0.74
100	0.00	0.27	1.01	1.70	2.32	2.65	2.61	2.70	2.46	2.36	2.04	1.48	1.15	1.39	1.13	0.92	0.61	0.42	0.34
105	0.00	0.22	0.93	1.60	2.18	2.51	2.46	2.55	2.32	2.20	1.93	1.37	1.11	1.26	1.06	0.82	0.49	0.29	0.22
110	0.00	0.13	0.82	1.44	1.99	2.29	2.25	2.32	2.07	1.98	1.64	1.16	1.04	1.10	0.96	0.72	0.37	0.15	0.09
115	0.00	0.00	0.75	1.34	1.86	2.15	2.10	2.16	1.86	1.72	1.46	0.95	0.98	1.01	0.90	0.66	0.31	0.10	0.04
120	0.00	0.00	0.64	1.19	1.65	1.92	1.87	1.93	1.56	1.42	1.23	0.79	0.89	0.90	0.81	0.58	0.22	0.05	0.00
125	0.00	0.00	0.53	1.08	1.51	1.76	1.72	1.78	1.31	1.24	1.05	0.73	0.84	0.83	0.74	0.54	0.19	0.03	0.00
130	0.00	0.00	0.21	0.90	1.30	1.51	1.48	1.44	1.04	0.99	0.76	0.66	0.75	0.73	0.63	0.46	0.15	0.00	0.00
135	0.00	0.00	0.03	0.74	1.15	1.34	1.33	1.15	0.87	0.81	0.55	0.61	0.69	0.66	0.57	0.41	0.12	0.00	0.00
140	0.01	0.01	0.02	0.31	0.87	1.06	1.06	0.81	0.61	0.48	0.44	0.53	0.60	0.56	0.48	0.33	0.09	0.00	0.00
145	0.03	0.03	0.04	0.10	0.57	0.82	0.83	0.59	0.42	0.26	0.38	0.47	0.53	0.51	0.41	0.27	0.07	0.01	0.00
150	0.05	0.06	0.07	0.08	0.15	0.21	0.26	0.16	0.11	0.15	0.30	0.37	0.42	0.39	0.32	0.20	0.06	0.01	0.01
155	0.07	0.06	0.08	0.09	0.12	0.10	0.08	0.07	0.08	0.14	0.25	0.30	0.34	0.31	0.26	0.16	0.06	0.03	0.02
160	0.09	0.10	0.11	0.11	0.14	0.08	0.07	0.07	0.08	0.11	0.17	0.20	0.24	0.22	0.16	0.10	0.09	0.06	0.05
165	0.11	0.11	0.13	0.13	0.14	0.10	0.08	0.08	0.11	0.11	0.13	0.13	0.17	0.16	0.11	0.09	0.10	0.07	0.07
170	0.14	0.14	0.15	0.15	0.14	0.12	0.11	0.10	0.12	0.13	0.12	0.10	0.12	0.12	0.12	0.12	0.13	0.10	0.10
175	0.16	0.16	0.16	0.14	0.14	0.13	0.12	0.11	0.13	0.14	0.14	0.12	0.14	0.14	0.14	0.14	0.15	0.13	0.11
180	0.17	0.16	0.17	0.16	0.16	0.15	0.14	0.13	0.13	0.16	0.15	0.14	0.17	0.16	0.16	0.17	0.17	0.15	0.13

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2018-06-26

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-W4000-72-2835-1M	TYPE: /	WEIGHT: 0.325kg/m
DIM.: 11.5*21mm	SPEC.:	SERIAL No.:
MFR.:	SUR.: 11.5*1000mm	PROTECTION ANGLE: /

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	80.4	80.4	80.4	80.4	80.4														
5	80.3	80.3	80.2	80.2	80.2														
10	79.3	79.3	79.2	79.2	79.1														
15	78.0	78.1	78.0	77.9	77.8														
20	75.3	75.3	75.2	75.1	74.9														
25	73.0	73.0	72.8	72.7	72.4														
30	68.7	68.7	68.5	68.3	68.0														
35	65.4	65.4	65.2	65.0	64.6														
40	59.8	59.8	59.6	59.3	59.0														
45	55.8	55.8	55.5	55.2	54.9														
50	49.4	49.3	49.1	48.7	48.3														
55	44.8	44.8	44.5	44.2	43.7														
60	37.8	37.7	37.4	37.0	36.5														
65	33.0	32.9	32.6	32.2	31.6														
70	25.7	25.6	25.2	24.8	24.2														
75	20.7	20.6	20.2	19.8	19.2														
80	13.2	13.1	12.7	12.2	11.4														
85	8.31	8.12	7.64	7.08	6.35														
90	1.87	1.67	1.25	0.75	0.20														
95	0.68	0.52	0.30	0.04	0.00														
100	0.31	0.22	0.08	0.00	0.00														
105	0.20	0.11	0.02	0.00	0.00														
110	0.08	0.02	0.00	0.00	0.00														
115	0.03	0.00	0.00	0.00	0.00														
120	0.00	0.00	0.00	0.00	0.00														
125	0.00	0.00	0.00	0.00	0.00														
130	0.00	0.00	0.00	0.00	0.00														
135	0.00	0.00	0.00	0.00	0.00														
140	0.00	0.01	0.00	0.00	0.00														
145	0.00	0.02	0.01	0.01	0.01														
150	0.01	0.03	0.03	0.04	0.04														
155	0.02	0.04	0.05	0.06	0.04														
160	0.05	0.06	0.08	0.08	0.07														
165	0.07	0.07	0.10	0.10	0.08														
170	0.10	0.10	0.12	0.13	0.11														
175	0.11	0.11	0.13	0.15	0.13														
180	0.12	0.12	0.15	0.17	0.14														

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2018-06-26

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: