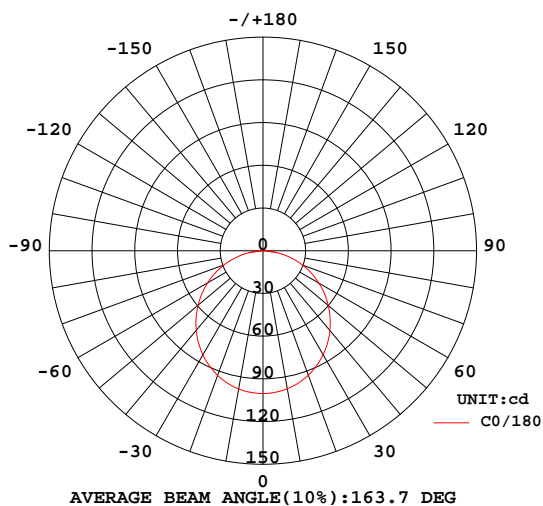


LUMINAIRE PHOTOMETRIC TEST REPORT

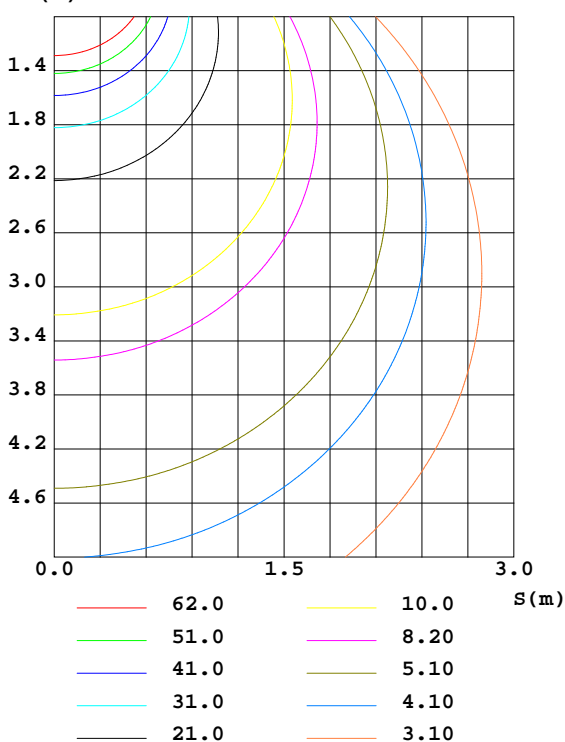
NAME: C-SFR-F15B-HB-D24CC-W5700-72-2835-1M	TYPE: /	WEIGHT: 0.325kg/m
DIM.: 11.5*21mm	SPEC.:	SERIAL No.:
MFR.:	SUR.: 11.5*1000mm	PROTECTION ANGLE: /

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 26.90 lm/W
MODEL	2835	I _{max} (cd)	100.4	S/MH(C0/180)	1.25	
NOMINAL POWER(W)	12	LOR(%)	96.9	S/MH(C90/270)	1.24	
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	302.67	η UP,DN(C0-180)	1.6,46.5	
NOMINAL FLUX(lm)	312.27	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.5,48.3	
LAMPS INSIDE	1	η up(%)	2.1	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	24	η down(%)	94.8	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:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	98.59	98.26	98.06	98.17	98.43	98.83	99.09	98.92	0- 10	9.491	9.491	3.14,3.04
20	93.16	92.70	92.20	92.49	93.03	93.89	94.28	94.00	10- 20	27.19	36.68	12.1,11.7
30	84.44	83.86	83.17	83.65	84.44	85.63	86.09	85.69	20- 30	41.17	77.84	25.7,24.9
40	73.01	72.42	71.64	72.28	73.14	74.62	75.05	74.59	30- 40	49.63	127.5	42.1,40.8
50	59.53	59.08	58.36	58.97	59.89	61.55	61.92	61.42	40- 50	51.68	179.2	59.2,57.4
60	44.83	44.67	44.06	44.59	45.27	47.08	47.39	46.87	50- 60	47.42	226.6	74.9,72.6
70	29.25	29.50	29.09	29.44	29.72	31.68	32.21	31.48	60- 70	37.71	264.3	87.3,84.6
80	12.87	13.74	13.67	13.73	13.34	15.66	16.44	15.50	70- 80	23.68	288.0	95.1,92.2
90	0.0058	3.007	4.277	3.780	1.555	2.065	2.244	1.401	80- 90	8.066	296.0	97.8,94.8
100	0	2.494	3.637	3.257	1.465	1.090	0.4401	0.1330	90-100	2.025	298.1	98.5,95.4
110	0	2.149	3.169	2.761	1.317	0.9073	0.2026	0.0427	100-110	1.569	299.6	99,96
120	0	1.802	2.671	2.007	1.143	0.7520	0.1076	0.0326	110-120	1.189	300.8	99.4,96.3
130	0.0435	1.378	2.146	1.420	0.9635	0.6287	0.0801	0.0676	120-130	0.8457	301.7	99.7,96.6
140	0.1089	0.3985	1.537	0.6407	0.7868	0.4932	0.0976	0.0927	130-140	0.5238	302.2	99.8,96.8
150	0.1646	0.2243	0.2621	0.3809	0.6076	0.3846	0.1076	0.1403	140-150	0.2574	302.4	99.9,96.9
160	0.2179	0.2638	0.1876	0.3357	0.4478	0.3131	0.1578	0.1979	150-160	0.1226	302.6	100,96.9
170	0.2784	0.3032	0.2252	0.2606	0.3098	0.2515	0.2228	0.2555	160-170	0.0742	302.6	100,96.9
180	0.3027	0.3155	0.2553	0.2957	0.2978	0.2958	0.2628	0.2881	170-180	0.0255	302.7	100,96.9
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

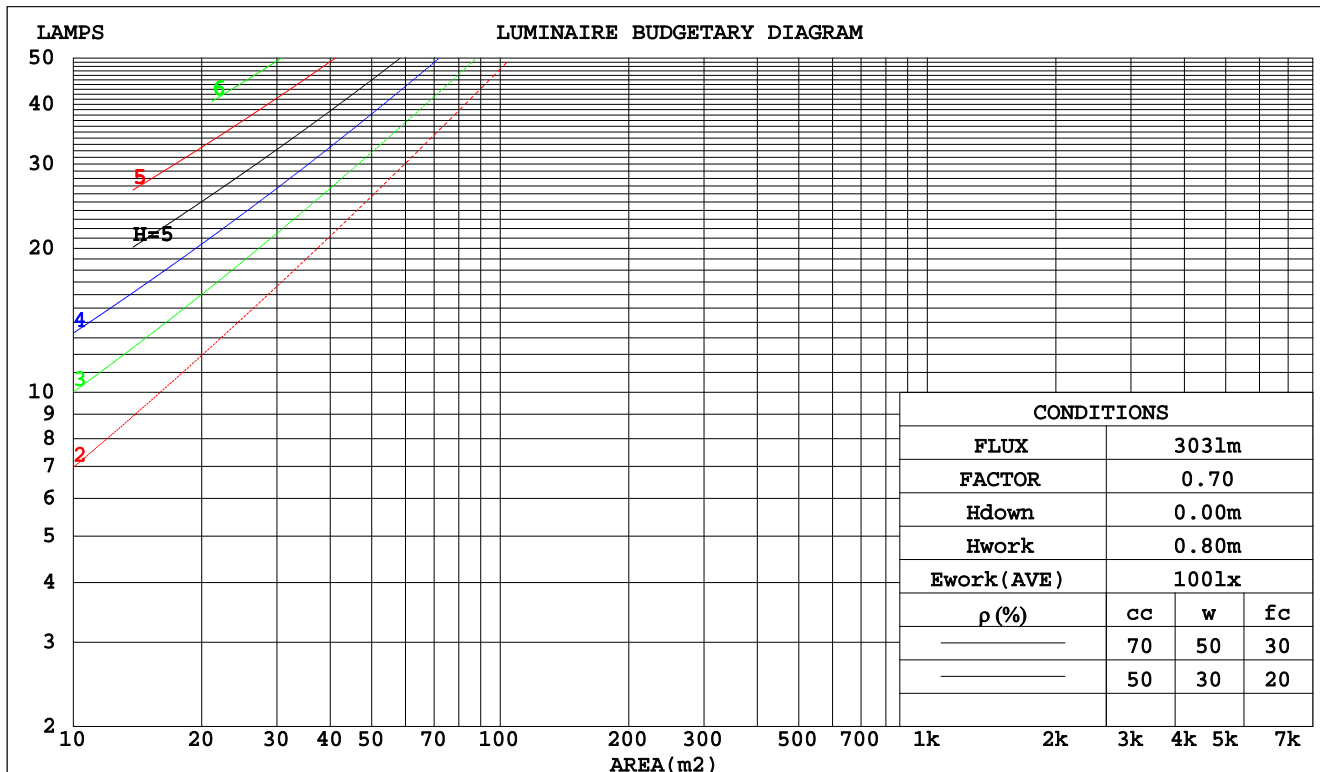
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2018-06-26

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: C-SFR-F15B-HB-D24CC-W5700-72-2835-1M	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	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	.99	.95	.91	.97	.93	.90	.93	.89	.86	.88	.86	.83	.85	.82	.80	.78
2.0	.86	.79	.74	.84	.78	.73	.80	.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	.52	.48	.46
5.0	.60	.51	.44	.58	.50	.44	.56	.49	.43	.54	.47	.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	.39	.34	.46	.39	.33	.44	.38	.33	.43	.37	.32	.30
8.0	.44	.36	.30	.43	.36	.30	.42	.35	.30	.41	.34	.29	.39	.33	.29	.27
9.0	.41	.33	.27	.40	.32	.27	.39	.32	.27	.37	.31	.26	.36	.30	.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-W5700-72-2835-1M	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	.313	.178	.056	.306	.174	.055	.292	.167	.053	.279	.161	.052	.267	.155	.050		
2.0	.291	.159	.049	.284	.156	.048	.272	.151	.047	.260	.146	.046	.249	.141	.044		
3.0	.267	.142	.043	.261	.140	.042	.250	.136	.041	.240	.131	.040	.230	.127	.039		
4.0	.245	.128	.037	.240	.126	.037	.230	.122	.036	.221	.119	.036	.212	.115	.035		
5.0	.226	.115	.033	.221	.114	.033	.213	.111	.033	.204	.108	.032	.197	.105	.032		
6.0	.209	.105	.030	.205	.104	.030	.197	.101	.029	.190	.099	.029	.183	.096	.029		
7.0	.194	.096	.027	.191	.095	.027	.183	.093	.027	.177	.091	.026	.171	.089	.026		
8.0	.181	.089	.025	.178	.088	.025	.171	.086	.024	.165	.084	.024	.160	.082	.024		
9.0	.170	.082	.023	.167	.081	.023	.161	.080	.023	.155	.078	.022	.150	.076	.022		
10.0	.159	.076	.021	.157	.076	.021	.151	.074	.021	.146	.073	.021	.142	.071	.020		

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	.201	.201	.201	.172	.172	.172	.117	.117	.117	.067	.067	.067	.022	.022	.022	
1.0	.192	.168	.146	.164	.144	.125	.112	.099	.087	.065	.057	.050	.021	.018	.016	
2.0	.184	.144	.110	.158	.124	.095	.108	.086	.067	.062	.050	.039	.020	.016	.013	
3.0	.177	.127	.088	.152	.110	.076	.104	.076	.053	.060	.045	.031	.019	.014	.010	
4.0	.170	.115	.073	.146	.099	.063	.100	.069	.044	.058	.040	.026	.019	.013	.009	
5.0	.162	.105	.062	.139	.090	.054	.096	.063	.038	.056	.037	.023	.018	.012	.007	
6.0	.155	.096	.054	.133	.084	.047	.092	.059	.033	.053	.034	.020	.017	.011	.007	
7.0	.149	.090	.049	.128	.078	.042	.088	.055	.030	.051	.032	.018	.017	.011	.006	
8.0	.142	.084	.044	.122	.073	.039	.085	.051	.027	.049	.030	.016	.016	.010	.005	
9.0	.136	.079	.041	.117	.069	.036	.081	.048	.025	.047	.029	.015	.015	.009	.005	
10.0	.131	.075	.038	.113	.065	.034	.078	.046	.024	.046	.027	.014	.015	.009	.005	

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

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-W5700-72-2835-1M						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						20.0	21.5	20.3	21.7	22.0	19.8	21.3	20.1	21.6	21.8
3H						21.6	23.0	22.0	23.3	23.6	21.5	22.9	21.8	23.1	23.4
4H						22.3	23.7	22.7	24.0	24.3	22.2	23.5	22.5	23.8	24.1
6H						22.8	24.1	23.2	24.4	24.7	22.7	24.0	23.1	24.3	24.6
8H						23.0	24.2	23.4	24.5	24.9	22.9	24.1	23.3	24.4	24.8
12H						23.0	24.2	23.4	24.6	24.9	23.0	24.2	23.4	24.5	24.9
4H 2H						20.6	21.9	21.0	22.2	22.5	20.5	21.8	20.8	22.1	22.4
3H						22.4	23.6	22.8	24.0	24.3	22.3	23.5	22.7	23.8	24.2
4H						23.3	24.3	23.7	24.7	25.1	23.2	24.2	23.6	24.6	25.0
6H						23.9	24.9	24.3	25.2	25.7	23.9	24.8	24.3	25.2	25.6
8H						24.1	25.0	24.6	25.4	25.8	24.1	25.0	24.6	25.4	25.8
12H						24.2	25.0	24.7	25.5	25.9	24.3	25.1	24.7	25.5	26.0
8H 4H						23.6	24.5	24.0	24.9	25.3	23.5	24.4	23.9	24.8	25.2
6H						24.4	25.1	24.8	25.6	26.0	24.3	25.1	24.8	25.5	26.0
8H						24.7	25.3	25.2	25.8	26.3	24.7	25.4	25.2	25.8	26.3
12H						24.8	25.4	25.4	25.9	26.4	25.0	25.5	25.5	26.0	26.6
12H 4H						23.6	24.4	24.1	24.8	25.3	23.5	24.3	24.0	24.7	25.2
6H						24.4	25.1	24.9	25.6	26.1	24.4	25.1	24.9	25.5	26.0
8H						24.8	25.3	25.3	25.8	26.4	24.8	25.4	25.3	25.9	26.4
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 312.3 lm Total Lamp Luminous Flux. (8log(F/F0) = -4.0)

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-W5700-72-2835-1M	TYPE: /	WEIGHT: 0.325kg/m
DIM.: 11.5*21mm	SPEC.:	SERIAL No.:
MFR.:	SUR.: 11.5*1000mm	PROTECTION ANGLE: /

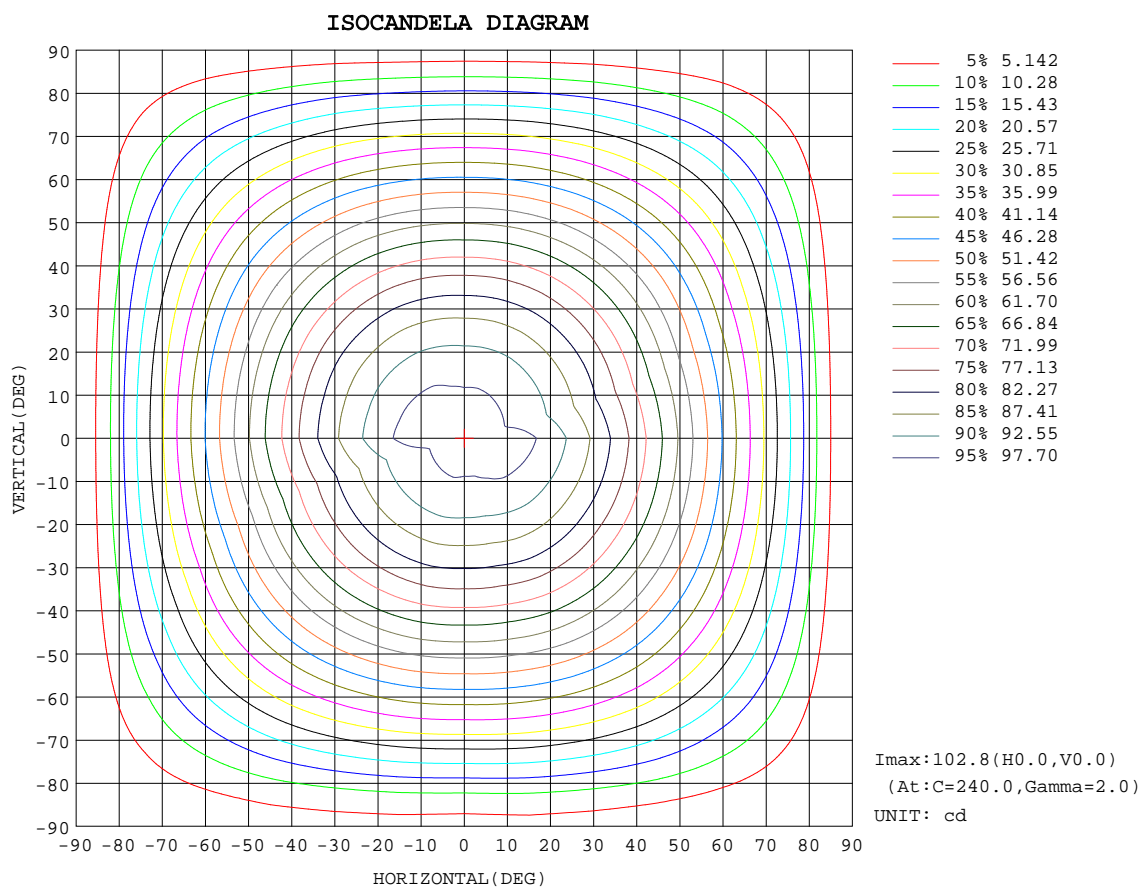
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	54	43	36	54	43	36	52	42	36	29
0.80	64	52	45	63	52	45	61	51	45	38
1.00	72	61	54	71	60	53	68	62	53	46
1.25	79	68	61	77	68	61	74	66	60	52
1.50	84	74	67	82	73	66	79	71	65	57
2.00	90	82	75	88	80	74	85	78	73	65
2.50	94	86	80	92	85	79	88	82	77	69
3.00	98	91	85	95	89	84	91	86	82	73
4.00	102	96	91	99	94	90	95	90	87	77
5.00	104	99	95	102	97	93	97	93	90	80
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004										
Suspended										
SHR _{NOM} = 1.25										

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:

ISOCANDELA DIAGRAM

NAME: C-SFR-F15B-HB-D24CC-W5700-72-2835-1M	TYPE: /	WEIGHT: 0.325kg/m
DIM.: 11.5*21mm	SPEC.:	SERIAL No.:
MFR.:	SUR.: 11.5*1000mm	PROTECTION ANGLE: /

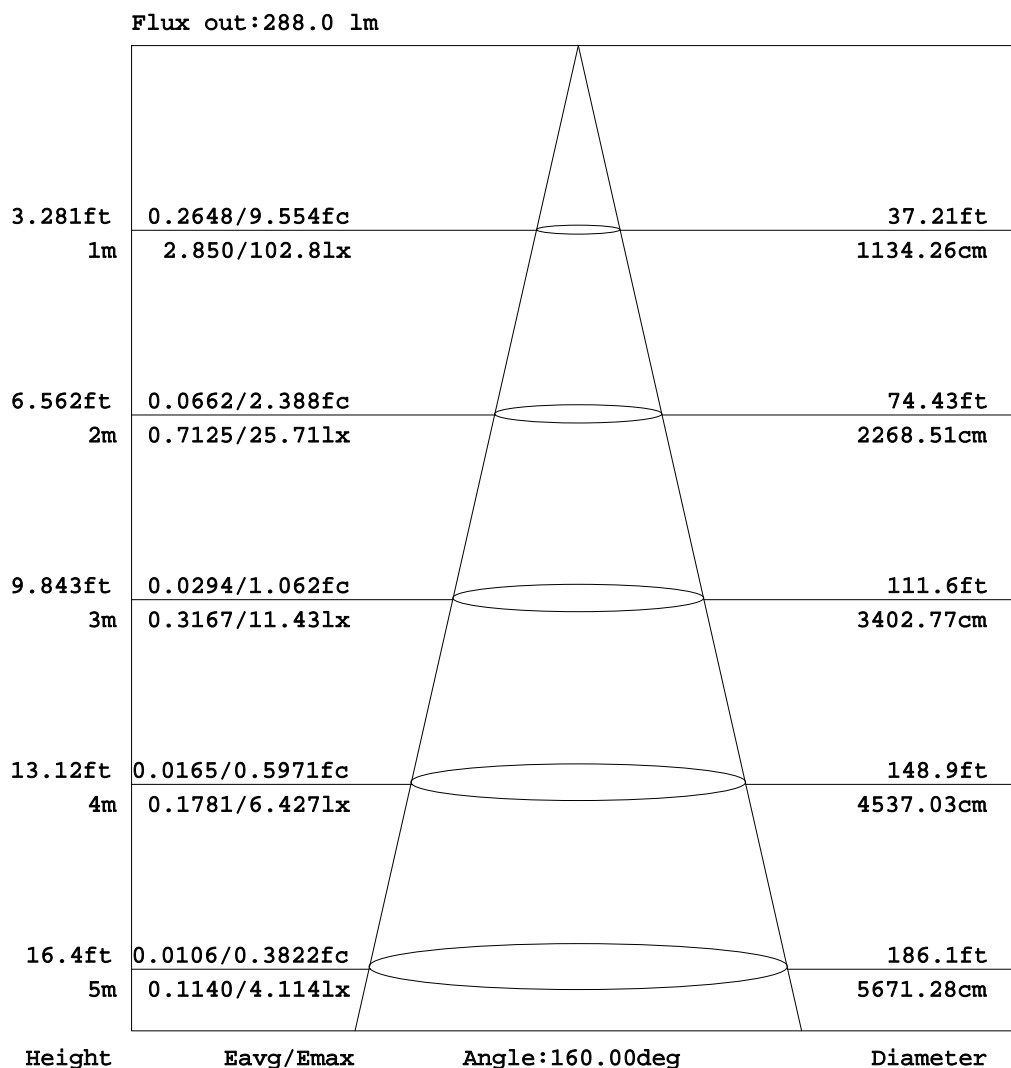


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2018-06-26

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:

AAI Figure

NAME: C-SFR-F15B-HB-D24CC-W5700-72-2835-1M	TYPE: /	WEIGHT: 0.325kg/m
DIM.: 11.5*21mm	SPEC.:	SERIAL No.:
MFR.:	SUR.: 11.5*1000mm	PROTECTION ANGLE: /



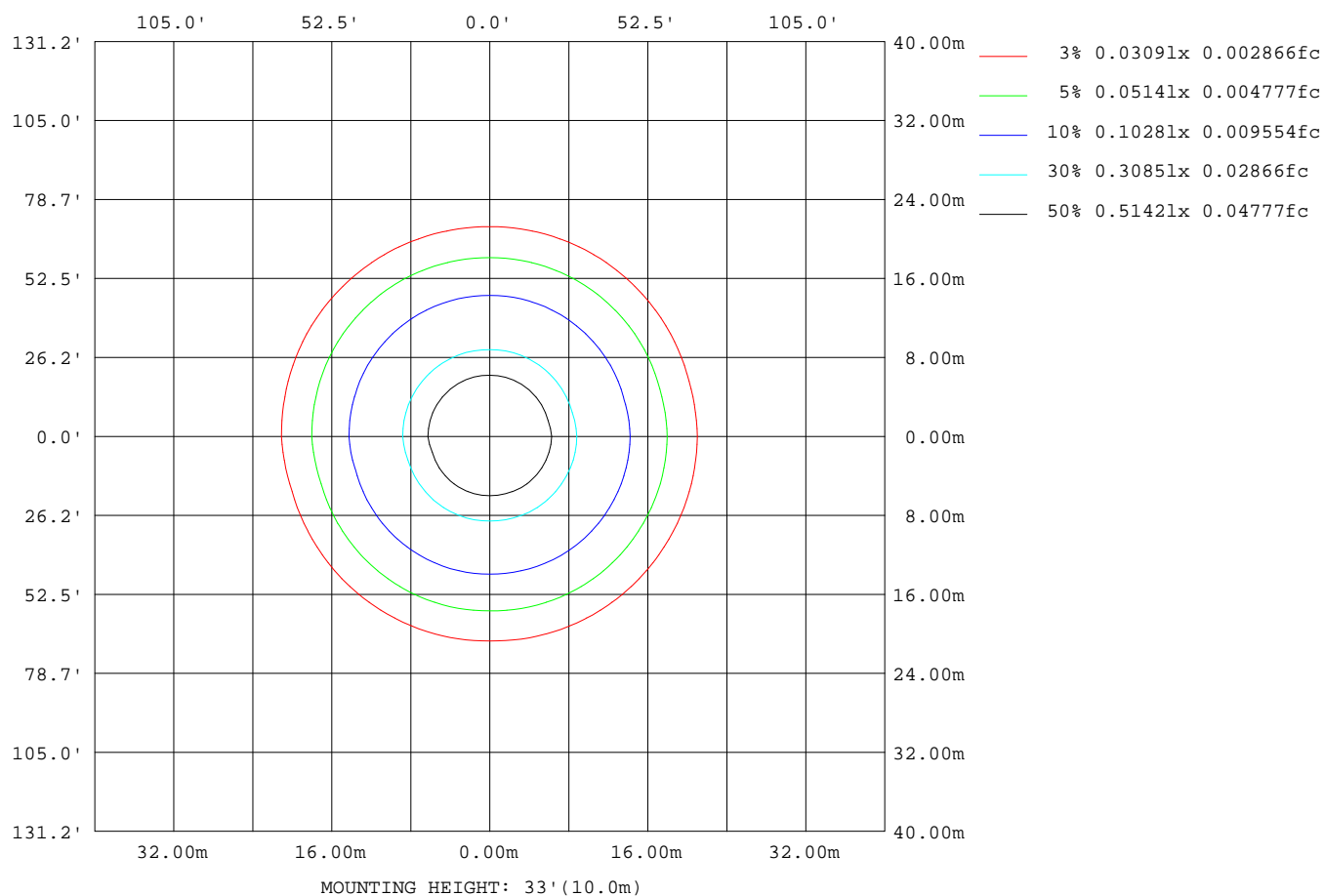
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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-W5700-72-2835-1M	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

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:

Average Luminance Table(CIBSE)

NAME: C-SFR-F15B-HB-D24CC-W5700-72-2835-1M	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	312.27	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	7928	7925	7905	7877	7877	7886	7889	7860	7814	7776	7797	7822	7835	7857	7872	7880	7893	7934	7998
60	7796	7799	7780	7753	7761	7775	7780	7759	7711	7663	7687	7714	7725	7746	7758	7762	7772	7809	7873
65	7646	7650	7636	7617	7636	7658	7669	7658	7607	7546	7573	7602	7613	7631	7635	7627	7632	7670	7742
70	7437	7452	7447	7437	7477	7512	7527	7536	7481	7395	7432	7464	7464	7481	7474	7447	7440	7474	7556
75	7106	7132	7137	7142	7220	7291	7330	7360	7296	7180	7224	7261	7253	7257	7226	7168	7139	7163	7257
80	6443	6526	6576	6628	6795	6934	7012	7096	7020	6847	6921	6963	6916	6897	6809	6668	6598	6588	6680
85	4892	5137	5387	5681	6159	6573	6861	7143	7088	6801	6923	6960	6814	6671	6386	5991	5677	5482	5544

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	7998	200	---	500
Category 2	65 to 90	7742	200	---	500
Category 3	75 to 90	7360	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-W5700-72-2835-1M	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	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100
5	100	100.0	99.9	99.9	99.8	99.8	99.9	99.9	99.9	99.9	99.9	99.9	100.0	100	100	100	100	100	100
10	98.6	98.5	98.4	98.3	98.1	98.0	98.1	98.1	98.1	98.2	98.2	98.3	98.4	98.5	98.7	98.8	99.2	99.2	99.1
15	96.8	96.7	96.6	96.5	96.2	96.1	96.1	96.2	96.2	96.3	96.4	96.5	96.7	96.8	97.1	97.3	97.8	97.8	97.6
20	93.2	93.0	92.8	92.7	92.5	92.2	92.2	92.3	92.4	92.5	92.6	92.8	93.0	93.2	93.6	93.9	94.4	94.5	94.3
25	90.0	89.9	89.6	89.5	89.4	89.0	88.9	89.1	89.1	89.3	89.4	89.6	89.9	90.2	90.7	90.9	91.5	91.7	91.4
30	84.4	84.3	84.0	83.9	83.8	83.3	83.2	83.4	83.5	83.6	83.8	84.0	84.4	84.8	85.4	85.6	86.2	86.4	86.1
35	80.2	80.0	79.7	79.6	79.6	79.0	78.8	79.0	79.1	79.4	79.5	79.8	80.2	80.6	81.2	81.5	82.1	82.3	82.0
40	73.0	72.9	72.5	72.4	72.4	71.9	71.6	71.9	72.0	72.3	72.4	72.7	73.1	73.7	74.3	74.6	75.2	75.4	75.0
45	67.9	67.7	67.4	67.3	67.3	66.8	66.5	66.7	66.9	67.1	67.3	67.5	68.1	68.6	69.2	69.6	70.1	70.3	70.0
50	59.5	59.4	59.1	59.1	59.1	58.7	58.4	58.6	58.7	59.0	59.1	59.3	59.9	60.5	61.2	61.6	62.1	62.2	61.9
55	53.8	53.7	53.4	53.4	53.5	53.1	52.7	53.0	53.1	53.3	53.4	53.6	54.2	54.8	55.6	55.9	56.4	56.5	56.3
60	44.8	44.8	44.6	44.7	44.7	44.5	44.1	44.3	44.4	44.6	44.6	44.8	45.3	46.0	46.7	47.1	47.5	47.6	47.4
65	38.7	38.7	38.5	38.7	38.8	38.6	38.2	38.4	38.5	38.6	38.6	38.7	39.2	39.9	40.7	41.0	41.5	41.5	41.4
70	29.3	29.3	29.3	29.5	29.6	29.6	29.1	29.3	29.4	29.4	29.3	29.3	29.7	30.6	31.3	31.7	32.2	32.3	32.2
75	22.8	22.9	22.8	23.2	23.4	23.4	22.9	23.1	23.1	23.2	22.9	22.9	23.2	24.1	25.0	25.4	25.9	25.9	26.0
80	12.9	13.1	13.2	13.7	14.0	14.2	13.7	13.9	13.8	13.7	13.3	13.2	13.3	14.4	15.2	15.7	16.2	16.3	16.4
85	6.44	6.74	7.10	7.74	8.14	8.45	8.02	8.19	8.04	7.82	7.32	6.95	6.98	8.04	8.80	9.33	9.83	9.97	10.1
90	0.01	0.75	1.90	3.01	3.93	4.44	4.28	4.44	4.25	3.78	3.07	2.27	1.55	2.04	1.96	2.07	2.21	2.21	2.24
95	0.00	0.61	1.70	2.74	3.61	4.12	3.95	4.12	3.96	3.53	2.88	2.13	1.53	1.88	1.54	1.34	1.16	0.95	0.83
100	0.00	0.51	1.53	2.49	3.31	3.81	3.64	3.81	3.66	3.26	2.65	1.95	1.46	1.74	1.38	1.09	0.83	0.59	0.44
105	0.00	0.46	1.43	2.36	3.13	3.62	3.45	3.61	3.46	3.04	2.50	1.81	1.41	1.60	1.31	1.01	0.72	0.43	0.31
110	0.00	0.31	1.29	2.15	2.86	3.31	3.17	3.32	3.11	2.76	2.16	1.50	1.32	1.40	1.20	0.91	0.60	0.33	0.20
115	0.00	0.01	1.19	2.01	2.69	3.11	2.97	3.12	2.84	2.41	1.93	1.15	1.24	1.28	1.13	0.84	0.55	0.29	0.15
120	0.00	0.00	1.03	1.80	2.41	2.80	2.67	2.80	2.37	2.01	1.61	1.02	1.14	1.15	1.02	0.75	0.46	0.23	0.11
125	0.01	0.02	0.86	1.65	2.22	2.57	2.47	2.59	2.04	1.76	1.38	0.97	1.07	1.06	0.95	0.71	0.42	0.21	0.09
130	0.04	0.06	0.26	1.38	1.92	2.22	2.15	2.09	1.65	1.42	0.88	0.87	0.96	0.94	0.82	0.63	0.38	0.15	0.08
135	0.07	0.08	0.12	1.15	1.70	1.98	1.92	1.70	1.39	1.18	0.67	0.82	0.89	0.86	0.75	0.58	0.35	0.14	0.08
140	0.11	0.12	0.15	0.40	1.27	1.57	1.54	1.19	1.00	0.64	0.60	0.73	0.79	0.75	0.65	0.49	0.31	0.12	0.10
145	0.13	0.14	0.17	0.20	0.73	1.21	1.21	0.85	0.64	0.42	0.55	0.67	0.72	0.68	0.59	0.45	0.29	0.12	0.10
150	0.16	0.18	0.20	0.22	0.24	0.26	0.26	0.19	0.27	0.38	0.49	0.58	0.61	0.58	0.51	0.38	0.25	0.11	0.11
155	0.19	0.20	0.23	0.24	0.26	0.21	0.15	0.14	0.25	0.38	0.44	0.51	0.53	0.51	0.45	0.36	0.24	0.12	0.12
160	0.22	0.23	0.25	0.26	0.27	0.22	0.19	0.18	0.24	0.34	0.38	0.43	0.45	0.42	0.38	0.31	0.23	0.16	0.16
165	0.24	0.26	0.27	0.28	0.28	0.23	0.20	0.20	0.25	0.30	0.34	0.38	0.38	0.37	0.34	0.29	0.22	0.18	0.19
170	0.28	0.29	0.30	0.30	0.27	0.25	0.23	0.22	0.25	0.26	0.28	0.30	0.31	0.30	0.28	0.25	0.24	0.22	0.22
175	0.29	0.29	0.30	0.28	0.25	0.27	0.24	0.24	0.26	0.28	0.27	0.27	0.28	0.27	0.27	0.27	0.27	0.25	0.24
180	0.30	0.31	0.32	0.32	0.30	0.29	0.26	0.25	0.27	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.28	0.26

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-W5700-72-2835-1M	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	100	100	100	100	100														
5	100	100	100	100	100														
10	99.0	99.0	98.9	98.8	98.7														
15	97.5	97.5	97.4	97.3	97.1														
20	94.2	94.2	94.0	93.8	93.5														
25	91.3	91.3	91.0	90.8	90.4														
30	86.0	85.9	85.7	85.4	85.0														
35	81.9	81.8	81.5	81.3	80.8														
40	75.0	74.9	74.6	74.3	73.7														
45	70.0	69.8	69.5	69.1	68.6														
50	61.9	61.7	61.4	61.0	60.5														
55	56.2	56.1	55.7	55.4	54.7														
60	47.4	47.2	46.9	46.4	45.7														
65	41.4	41.2	40.8	40.3	39.6														
70	32.2	32.0	31.5	31.0	30.2														
75	26.0	25.7	25.2	24.6	23.8														
80	16.4	16.1	15.5	14.9	13.9														
85	10.0	9.76	9.10	8.46	7.50														
90	2.20	1.92	1.40	0.86	0.27														
95	0.79	0.63	0.36	0.11	0.00														
100	0.42	0.31	0.13	0.00	0.00														
105	0.30	0.22	0.08	0.00	0.00														
110	0.19	0.14	0.04	0.00	0.00														
115	0.15	0.11	0.03	0.00	0.00														
120	0.10	0.08	0.03	0.00	0.00														
125	0.09	0.08	0.05	0.02	0.00														
130	0.08	0.09	0.07	0.03	0.03														
135	0.08	0.10	0.08	0.05	0.06														
140	0.09	0.11	0.09	0.08	0.09														
145	0.10	0.12	0.10	0.10	0.12														
150	0.10	0.13	0.14	0.14	0.15														
155	0.12	0.16	0.16	0.17	0.17														
160	0.16	0.20	0.20	0.20	0.21														
165	0.18	0.22	0.23	0.22	0.23														
170	0.22	0.23	0.26	0.25	0.26														
175	0.24	0.25	0.26	0.27	0.28														
180	0.26	0.27	0.29	0.29	0.30														

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: