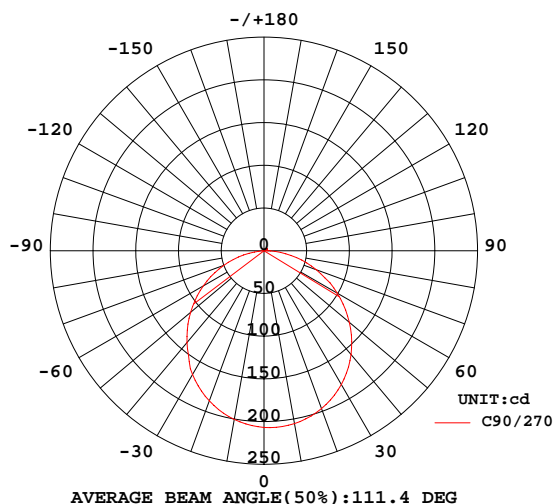


LUMINAIRE PHOTOMETRIC TEST REPORT

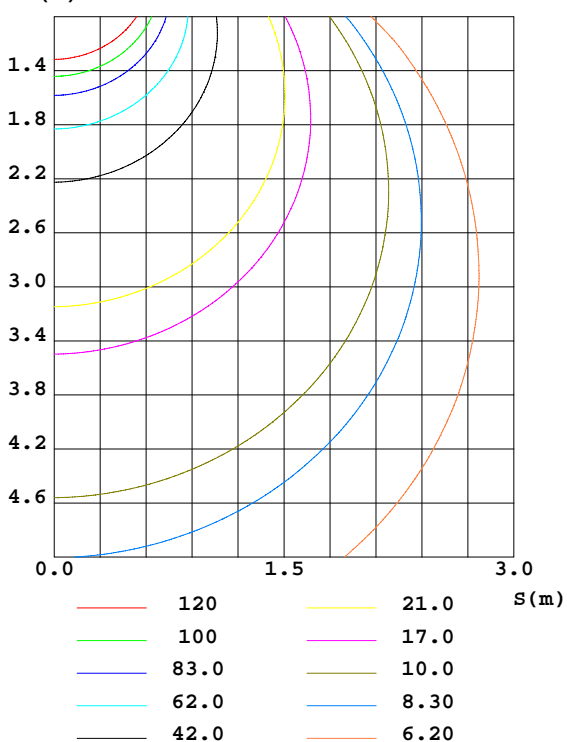
NAME: C-SFR-F23B-VB-24CV-57K-WM-144-80-9W-83.3	WEIGHT:0.132kg/m	
DIM.: 10*10mm	SPEC.:	SERIAL No.:
MFR.: CLEAR	SUR.:10*1000mm	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 70.15 lm/W			
MODEL	3015	Imax(cd)	207.4	S/MH(C0/180)	1.24
NOMINAL POWER(W)	9	LOR(%)	137.1	S/MH(C90/270)	1.21
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	603.32	η UP,DN(C0-180)	0.5,64.1
NOMINAL FLUX(lm)	440	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.3,71.2
LAMPS INSIDE	1	η up(%)	1.8	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	24	η down(%)	135.3	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:21.5DEG
Operators:Eileen Yang
Test Date:2020-04-20

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V1.0.257
Humidity:49%
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	201.8	200.4	200.5	202.2	204.0	205.6	205.4	203.8	0- 10	19.56	19.56	3.24,4.44
20	189.7	186.9	187.1	190.4	193.8	197.0	196.7	193.3	10- 20	55.96	75.51	12.5,17.2
30	171.1	167.3	167.4	171.9	176.8	181.3	180.9	176.2	20- 30	84.68	160.2	26.6,36.4
40	147.1	141.5	140.3	146.9	151.9	159.4	158.5	152.1	30- 40	101.8	262.0	43.4,59.5
50	119.4	113.2	112.0	119.2	125.2	131.4	130.3	124.5	40- 50	105.1	367.1	60.8,83.4
60	89.17	82.47	81.78	89.11	95.61	101.1	99.01	93.77	50- 60	95.69	462.8	76.7,105
70	56.49	50.74	50.42	57.04	64.37	68.23	65.08	60.75	60- 70	74.60	537.4	89.1,122
80	24.17	18.20	17.93	24.51	31.86	34.91	32.49	27.53	70- 80	45.21	582.6	96.6,132
90	0.0033	0.0351	0.1297	0.0941	1.103	3.521	4.965	2.053	80- 90	12.74	595.3	98.7,135
100	0.0051	0.2591	0.4283	0.1796	0.0026	1.489	2.594	1.487	90-100	1.044	596.4	98.8,136
110	0.1332	0.6332	1.012	0.4941	0.1054	1.648	4.064	2.083	100-110	1.011	597.4	99,136
120	0.3309	0.9624	1.335	0.6835	0.2852	2.080	4.474	2.593	110-120	1.489	598.9	99.3,136
130	0.5133	1.055	1.203	0.7221	0.4650	1.807	3.836	2.513	120-130	1.396	600.3	99.5,136
140	0.6673	1.148	1.227	0.8152	0.6216	1.460	3.056	2.184	130-140	1.125	601.4	99.7,137
150	0.8958	1.218	1.294	0.9278	0.8475	1.291	2.301	1.916	140-150	0.8531	602.2	99.8,137
160	1.119	1.202	1.112	1.013	1.066	1.323	1.326	1.776	150-160	0.6088	602.8	99.9,137
170	1.225	1.167	0.9699	1.108	1.217	1.402	1.222	1.536	160-170	0.3590	603.2	100,137
180	1.286	1.290	1.058	1.271	1.294	1.287	1.056	1.275	170-180	0.1187	603.3	100,137
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

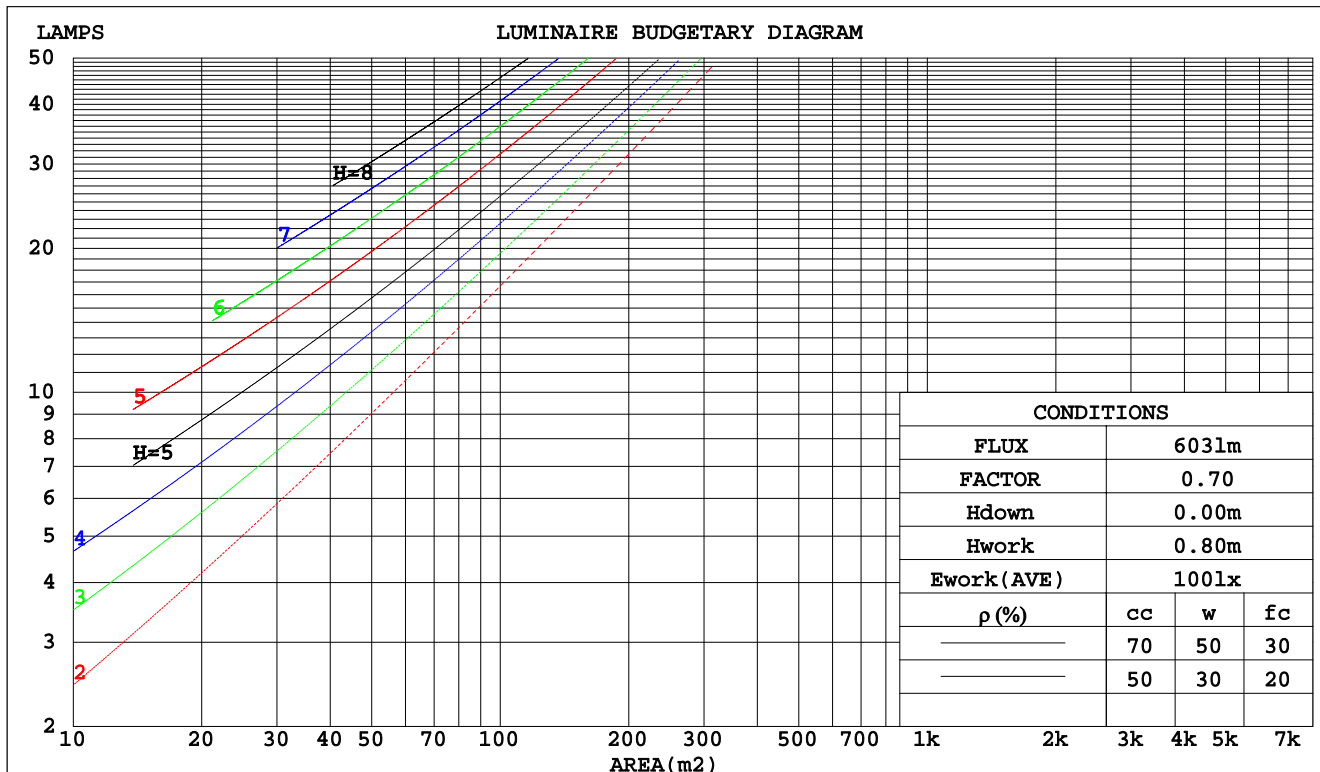
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:21.5DEG
Operators:Eileen Yang
Test Date:2020-04-20

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V1.0.257
Humidity:49%
Test Distance:6.950m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: C-SFR-F23B-VB-24CV-57K-WM-144-80-9W-83.3	TYPE:	WEIGHT:0.132kg/m
DIM.: 10*10mm	SPEC.:	SERIAL No.:
MFR.: CLEAR	SUR.:10*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	1.63	1.63	1.63	1.59	1.59	1.59	1.51	1.51	1.51	1.45	1.45	1.45	1.38	1.38	1.38	1.35
1.0	1.42	1.36	1.30	1.38	1.33	1.28	1.32	1.28	1.24	1.26	1.23	1.19	1.21	1.18	1.16	1.13
2.0	1.23	1.14	1.06	1.20	1.12	1.04	1.15	1.08	1.01	1.10	1.04	.99	1.06	1.01	.96	.93
3.0	1.08	.97	.87	1.06	.95	.87	1.01	.92	.85	.97	.89	.83	.93	.87	.81	.78
4.0	.95	.83	.74	.93	.82	.73	.90	.80	.72	.86	.78	.71	.83	.76	.70	.67
5.0	.85	.73	.64	.84	.72	.63	.80	.70	.62	.77	.68	.61	.75	.67	.61	.58
6.0	.77	.64	.55	.75	.64	.55	.73	.62	.54	.70	.61	.54	.68	.60	.53	.50
7.0	.69	.57	.49	.68	.57	.49	.66	.56	.48	.64	.55	.48	.62	.53	.47	.44
8.0	.63	.52	.44	.62	.51	.43	.60	.50	.43	.58	.49	.43	.57	.48	.42	.40
9.0	.58	.47	.39	.57	.46	.39	.56	.46	.39	.54	.45	.38	.52	.44	.38	.36
10.0	.54	.43	.35	.53	.42	.35	.51	.42	.35	.50	.41	.35	.49	.40	.35	.32



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 21.5DEG
Operators: Eileen Yang
Test Date: 2020-04-20

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V1.0.257
Humidity: 49%
Test Distance: 6.950m [K=1.0000]
Remarks:

WEC AND CCEC

NAME: C-SFR-F23B-VB-24CV-57K-WM-144-80-9W-142-143-144-145-146-147-148-149-150-151-152-153-154-155-156-157-158-159-160-161-162-163-164-165-166-167-168-169-170-171-172-173-174-175-176-177-178-179-180-181-182-183-184-185-186-187-188-189-190-191-192-193-194-195-196-197-198-199-200-201-202-203-204-205-206-207-208-209-210-211-212-213-214-215-216-217-218-219-220-221-222-223-224-225-226-227-228-229-230-231-232-233-234-235-236-237-238-239-240-241-242-243-244-245-246-247-248-249-250-251-252-253-254-255-256-257-258-259-260-261-262-263-264-265-266-267-268-269-270-271-272-273-274-275-276-277-278-279-280-281-282-283-284-285-286-287-288-289-290-291-292-293-294-295-296-297-298-299-300-301-302-303-304-305-306-307-308-309-310-311-312-313-314-315-316-317-318-319-320-321-322-323-324-325-326-327-328-329-330-331-332-333-334-335-336-337-338-339-340-341-342-343-344-345-346-347-348-349-350-351-352-353-354-355-356-357-358-359-360-361-362-363-364-365-366-367-368-369-370-371-372-373-374-375-376-377-378-379-380-381-382-383-384-385-386-387-388-389-390-391-392-393-394-395-396-397-398-399-400-401-402-403-404-405-406-407-408-409-410-411-412-413-414-415-416-417-418-419-420-421-422-423-424-425-426-427-428-429-430-431-432-433-434-435-436-437-438-439-440-441-442-443-444-445-446-447-448-449-450-451-452-453-454-455-456-457-458-459-460-461-462-463-464-465-466-467-468-469-470-471-472-473-474-475-476-477-478-479-480-481-482-483-484-485-486-487-488-489-490-491-492-493-494-495-496-497-498-499-500-501-502-503-504-505-506-507-508-509-510-511-512-513-514-515-516-517-518-519-520-521-522-523-524-525-526-527-528-529-530-531-532-533-534-535-536-537-538-539-540-541-542-543-544-545-546-547-548-549-550-551-552-553-554-555-556-557-558-559-560-561-562-563-564-565-566-567-568-569-570-571-572-573-574-575-576-577-578-579-580-581-582-583-584-585-586-587-588-589-590-591-592-593-594-595-596-597-598-599-600-601-602-603-604-605-606-607-608-609-610-611-612-613-614-615-616-617-618-619-620-621-622-623-624-625-626-627-628-629-630-631-632-633-634-635-636-637-638-639-640-641-642-643-644-645-646-647-648-649-650-651-652-653-654-655-656-657-658-659-660-661-662-663-664-665-666-667-668-669-670-671-672-673-674-675-676-677-678-679-680-681-682-683-684-685-686-687-688-689-690-691-692-693-694-695-696-697-698-699-700-701-702-703-704-705-706-707-708-709-710-711-712-713-714-715-716-717-718-719-720-721-722-723-724-725-726-727-728-729-730-731-732-733-734-735-736-737-738-739-740-741-742-743-744-745-746-747-748-749-750-751-752-753-754-755-756-757-758-759-760-761-762-763-764-765-766-767-768-769-770-771-772-773-774-775-776-777-778-779-780-781-782-783-784-785-786-787-788-789-790-791-792-793-794-795-796-797-798-799-800-801-802-803-804-805-806-807-808-809-810-811-812-813-814-815-816-817-818-819-820-821-822-823-824-825-826-827-828-829-830-831-832-833-834-835-836-837-838-839-840-841-842-843-844-845-846-847-848-849-850-851-852-853-854-855-856-857-858-859-860-861-862-863-864-865-866-867-868-869-870-871-872-873-874-875-876-877-878-879-880-881-882-883-884-885-886-887-888-889-890-891-892-893-894-895-896-897-898-899-900-901-902-903-904-905-906-907-908-909-910-911-912-913-914-915-916-917-918-919-920-921-922-923-924-925-926-927-928-929-930-931-932-933-934-935-936-937-938-939-940-941-942-943-944-945-946-947-948-949-950-951-952-953-954-955-956-957-958-959-960-961-962-963-964-965-966-967-968-969-970-971-972-973-974-975-976-977-978-979-980-981-982-983-984-985-986-987-988-989-990-991-992-993-994-995-996-997-998-999-1000	TYPE:	WEIGHT:0.132kg/m
DIM.: 10*10mm	SPEC.:	SERIAL No.:
MFR.: CLEAR	SUR.:10*1000mm	PROTECTION ANGLE:

pcc	80%			70%			50%			30%			10%			0
ρw	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:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.432	.246	.078	.422	.241	.076	.402	.231	.074	.385	.222	.071	.368	.214	.069	
2.0	.405	.222	.068	.396	.218	.067	.379	.210	.065	.363	.204	.064	.348	.197	.062	
3.0	.373	.199	.060	.365	.196	.059	.350	.190	.058	.336	.184	.057	.323	.179	.055	
4.0	.344	.179	.053	.337	.176	.052	.323	.171	.051	.311	.167	.050	.299	.163	.050	
5.0	.317	.162	.047	.311	.160	.047	.299	.156	.046	.288	.152	.045	.278	.148	.045	
6.0	.294	.147	.042	.288	.146	.042	.278	.142	.041	.268	.139	.041	.258	.136	.040	
7.0	.273	.135	.038	.268	.134	.038	.259	.131	.038	.250	.128	.037	.241	.125	.037	
8.0	.255	.125	.035	.251	.123	.035	.242	.121	.035	.234	.119	.034	.226	.116	.034	
9.0	.239	.116	.032	.235	.114	.032	.227	.112	.032	.220	.110	.032	.213	.108	.031	
10.0	.225	.108	.030	.221	.107	.030	.214	.105	.030	.207	.103	.029	.201	.101	.029	

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	.275	.275	.275	.235	.235	.235	.160	.160	.160	.092	.092	.092	.029	.029	.029	
1.0	.262	.228	.198	.224	.196	.170	.153	.135	.118	.088	.078	.068	.028	.025	.022	
2.0	.251	.195	.148	.215	.168	.128	.147	.116	.089	.085	.068	.052	.027	.022	.017	
3.0	.240	.171	.116	.206	.147	.100	.141	.102	.070	.082	.060	.041	.026	.019	.014	
4.0	.230	.153	.094	.197	.132	.082	.136	.092	.057	.078	.054	.034	.025	.018	.011	
5.0	.220	.139	.079	.189	.120	.068	.130	.084	.048	.075	.049	.029	.024	.016	.009	
6.0	.210	.127	.068	.180	.110	.059	.124	.077	.042	.072	.045	.025	.023	.015	.008	
7.0	.200	.118	.060	.172	.102	.052	.119	.072	.037	.069	.042	.022	.022	.014	.007	
8.0	.191	.110	.054	.165	.095	.047	.114	.067	.033	.066	.039	.020	.021	.013	.007	
9.0	.183	.103	.049	.158	.089	.043	.109	.063	.030	.064	.037	.018	.021	.012	.006	
10.0	.175	.097	.045	.151	.084	.039	.105	.059	.028	.061	.035	.017	.020	.012	.006	

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:21.5DEG
Operators:Eileen Yang
Test Date:2020-04-20

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V1.0.257
Humidity:49%
Test Distance:6.950m [K=1.0000]
Remarks:

Uncorrected UGR Table

NAME: C-SFR-F23B-VB-24CV-57K-WM-144-80-9W-TYPE:						WEIGHT:0.132kg/m					
DIM.: 10*10mm						SPEC.:					
MFR.: CLEAR						SUR.:10*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	22.6	24.1	22.9	24.3	24.6	22.3	23.8	22.6	24.0	24.3	
	3H	24.2	25.6	24.5	25.8	26.1	23.7	25.1	24.0	25.4	25.6
	4H	24.8	26.1	25.1	26.4	26.7	24.3	25.6	24.6	25.9	26.2
	6H	25.3	26.5	25.6	26.8	27.1	24.6	25.8	24.9	26.1	26.4
	8H	25.4	26.6	25.8	26.9	27.2	24.6	25.8	25.0	26.1	26.5
	12H	25.4	26.6	25.8	26.9	27.2	24.6	25.8	25.0	26.1	26.4
4H	2H	23.1	24.4	23.5	24.7	25.0	22.9	24.2	23.2	24.5	24.8
	3H	24.9	26.0	25.2	26.3	26.7	24.5	25.7	24.9	26.0	26.3
	4H	25.6	26.7	26.0	27.0	27.4	25.1	26.2	25.5	26.6	26.9
	6H	26.2	27.1	26.6	27.5	27.9	25.6	26.5	26.0	26.9	27.3
	8H	26.4	27.2	26.8	27.6	28.1	25.6	26.5	26.1	26.9	27.3
	12H	26.4	27.2	26.9	27.6	28.1	25.6	26.4	26.1	26.8	27.3
8H	4H	25.8	26.7	26.3	27.1	27.5	25.4	26.3	25.8	26.7	27.1
	6H	26.5	27.2	27.0	27.7	28.1	25.9	26.6	26.4	27.1	27.5
	8H	26.7	27.4	27.2	27.8	28.3	26.0	26.6	26.5	27.1	27.6
	12H	26.8	27.4	27.3	27.8	28.4	26.0	26.6	26.5	27.0	27.5
12H	4H	25.8	26.6	26.3	27.0	27.5	25.4	26.2	25.8	26.6	27.0
	6H	26.5	27.2	27.0	27.6	28.1	25.9	26.6	26.4	27.0	27.5
	8H	26.7	27.3	27.2	27.8	28.3	26.0	26.6	26.5	27.1	27.6
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 440.0 lm Total Lamp Luminous Flux.(8log(F/F0) = -2.9)

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:21.5DEG
Operators:Eileen Yang
Test Date:2020-04-20

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V1.0.257
Humidity:49%
Test Distance:6.950m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: C-SFR-F23B-VB-24CV-57K-WM-144-80-9W-120°	TYPE:	WEIGHT:0.132kg/m
DIM.: 10*10mm	SPEC.:	SERIAL No.:
MFR.: CLEAR	SUR.:10*1000mm	PROTECTION ANGLE:

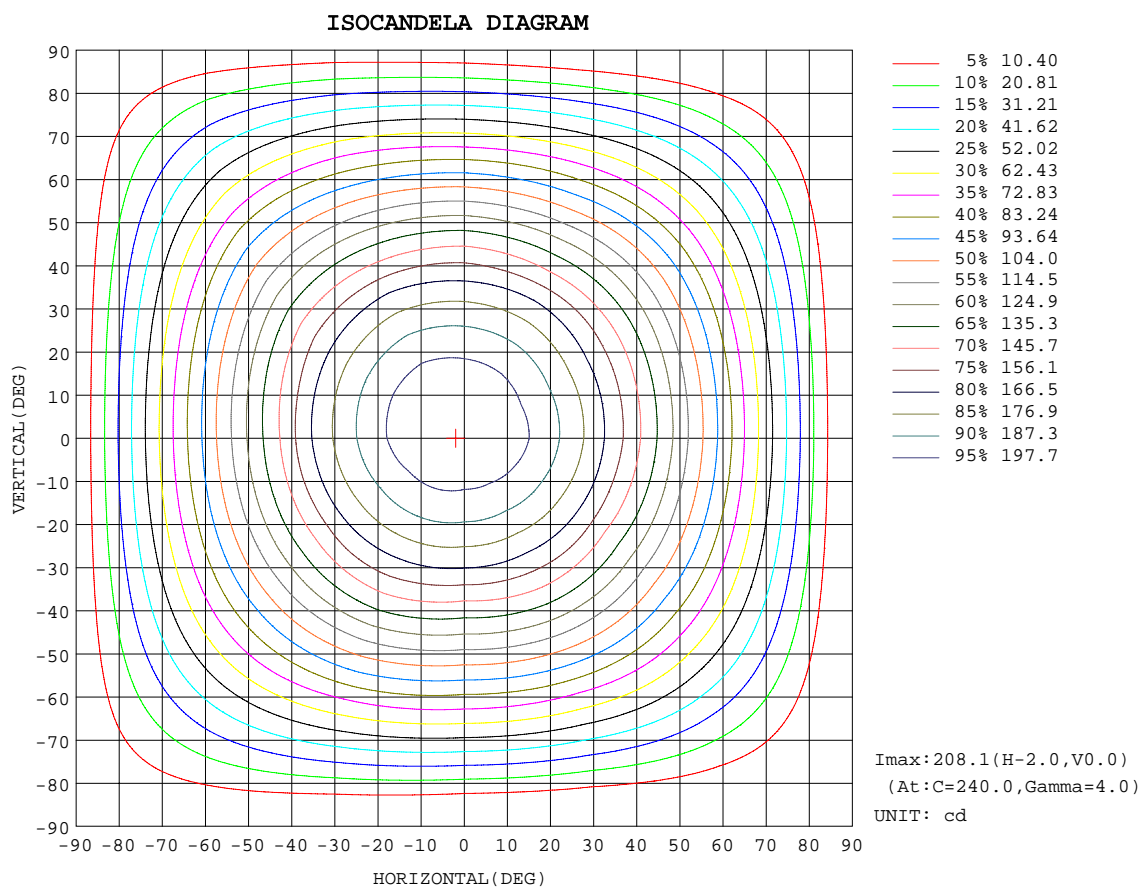
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	78	62	52	77	62	52	75	61	52	43
0.80	92	76	65	90	75	65	88	74	64	55
1.00	103	88	77	101	87	77	98	89	76	66
1.25	113	98	88	111	97	88	107	95	86	76
1.50	120	106	96	117	105	95	113	102	94	83
2.00	129	117	108	126	115	107	121	112	105	93
2.50	135	124	115	132	122	114	126	118	111	99
3.00	139	130	122	136	127	120	130	123	117	105
4.00	145	137	130	141	134	128	135	129	124	112
5.00	148	141	136	145	139	133	138	133	129	116
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004										
Suspended										
SHRNOM = 1.25										

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:21.5DEG
Operators:Eileen Yang
Test Date:2020-04-20

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V1.0.257
Humidity:49%
Test Distance:6.950m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: C-SFR-F23B-VB-24CV-57K-WM-144-80-9W-1500K	TYPE:	WEIGHT:0.132kg/m
DIM.: 10*10mm	SPEC.:	SERIAL No.:
MFR.: CLEAR	SUR.:10*1000mm	PROTECTION ANGLE:

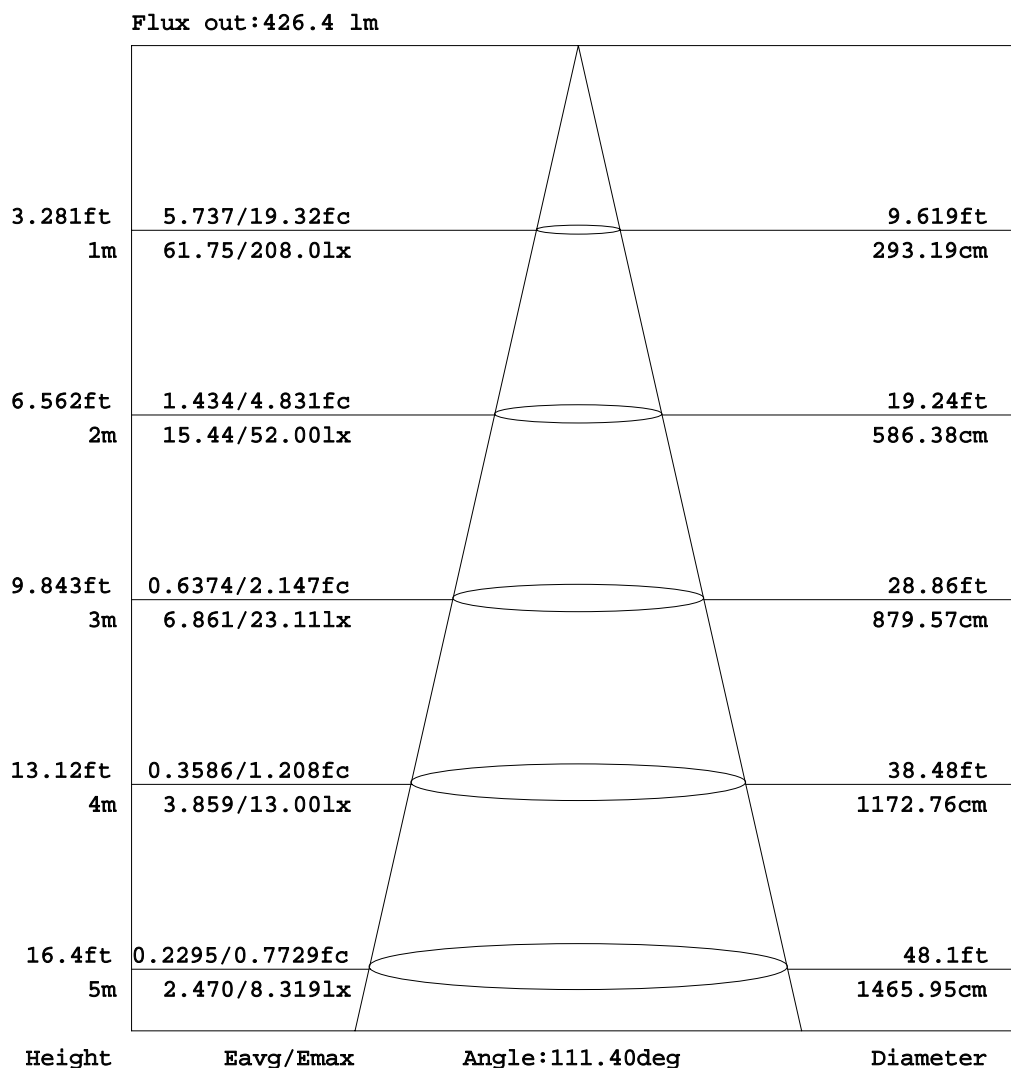


C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 21.5DEG
Operators: Eileen Yang
Test Date: 2020-04-20

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V1.0.257
Humidity: 49%
Test Distance: 6.950m [K=1.0000]
Remarks:

AAI Figure

NAME: C-SFR-F23B-VB-24CV-57K-WM-144-80-9W-1000mm	TYPE:	WEIGHT:0.132kg/m
DIM.: 10*10mm	SPEC.:	SERIAL No.:
MFR.: CLEAR	SUR.:10*1000mm	PROTECTION ANGLE:



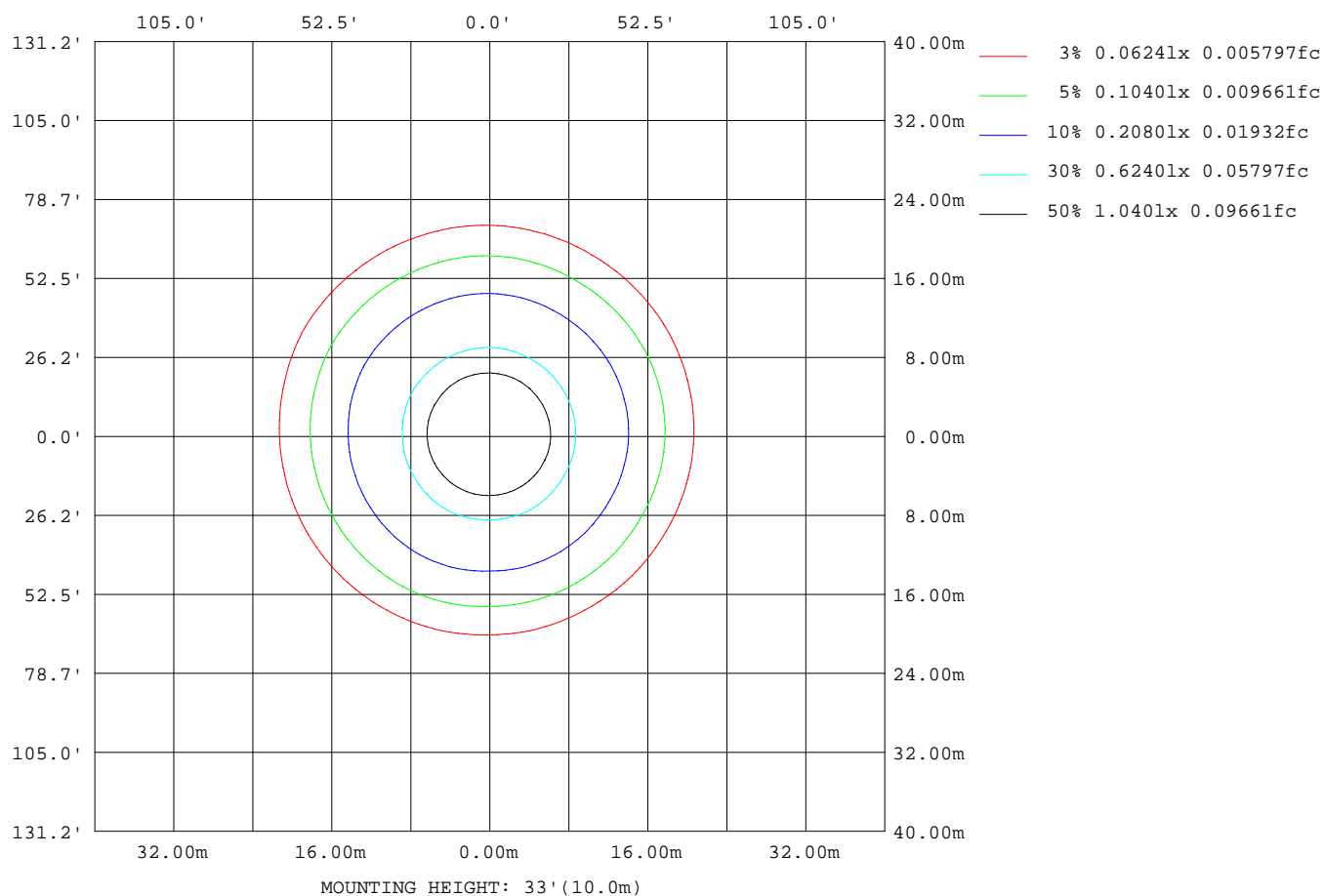
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:21.5DEG
Operators:Eileen Yang
Test Date:2020-04-20

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V1.0.257
Humidity:49%
Test Distance:6.950m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

NAME: C-SFR-F23B-VB-24CV-57K-WM-144-80-9W-1000mm	TYPE:	WEIGHT: 0.132kg/m
DIM.: 10*10mm	SPEC.:	SERIAL No.:
MFR.: CLEAR	SUR.: 10*1000mm	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 21.5DEG
Operators: Eileen Yang
Test Date: 2020-04-20

γ Range: 0 - 180DEG
 γ Interval: 2.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V1.0.257
Humidity: 49%
Test Distance: 6.950m [K=1.0000]
Remarks:

Average Luminance Table(CIBSE)

NAME: C-SFR-F23B-VB-24CV-57K-WM-144-80-9W-IP65	TYPE:	WEIGHT:0.132kg/m
DIM.: 10*10mm	SPEC.:	SERIAL No.:
MFR.: CLEAR	SUR.:10*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	440	lm
Multiplying factor	K	1	
Luminous area in horizontal plane used in calculations	A	0.01	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	18220	17773	17427	17183	17088	17060	17066	16970	16914	16939	17211	17550	17901	18111	18302	18495	18733	18997	19292
60	17833	17339	16943	16645	16474	16380	16343	16274	16269	16357	16675	17059	17456	17712	17949	18188	18472	18782	19121
65	17074	16668	16318	16024	15775	15590	15479	15463	15530	15680	15933	16251	16618	17019	17438	17859	18221	18583	18963
70	16516	16001	15556	15182	14864	14628	14487	14467	14553	14741	15056	15451	15907	16405	16926	17449	17926	18383	18820
75	15666	14983	14384	13870	13410	13058	12840	12822	12953	13223	13644	14170	14780	15463	16176	16887	17519	18113	18668
80	13920	12936	12062	11297	10579	10019	9665	9668	9898	10323	10891	11609	12467	13525	14645	15758	16703	17567	18349
85	9259	7546	6134	5022	4221	3715	3500	3611	3971	4545	5191	6054	7175	8791	10606	12514	14368	16119	17692

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

CIBSE Category	Gamma (deg)	Average Luminance		Patch Luminance	
		maximum	specified	maximum	specified
		calculated	maximum	measured	maximum
Category 1	55 to 90	19292	200	---	500
Category 2	65 to 90	18963	200	---	500
Category 3	75 to 90	18668	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: 30.0DEG
Test Speed: HIGH
Temperature:21.5DEG
Operators:Eileen Yang
Test Date:2020-04-20

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V1.0.257
Humidity:49%
Test Distance:6.950m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: C-SFR-F23B-VB-24CV-57K-WM-144-80-9W-TYPE:	WEIGHT:0.132kg/m
DIM.: 10*10mm	SPEC.: SERIAL No.:
MFR.: CLEAR	SUR.:10*1000mm PROTECTION ANGLE:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	207	207	207	207	207	207	207	207	207	207	207	207							
5	206	205	205	205	206	206	207	207	207	207	207	206							
10	202	201	200	200	202	203	204	205	206	205	204	203							
15	198	196	195	196	197	199	201	202	204	203	201	200							
20	190	188	186	187	189	192	194	196	198	197	195	192							
25	183	180	179	180	182	185	188	191	192	191	189	186							
30	171	168	167	167	170	174	177	180	182	181	178	174							
35	162	159	157	157	161	165	168	172	174	173	170	165							
40	147	141	142	140	146	148	152	158	161	159	153	151							
45	136	131	131	129	135	138	142	148	148	148	142	141							
50	119	113	113	112	118	121	125	132	131	130	125	124							
55	108	101	101	100	106	109	114	120	119	118	113	112							
60	89.2	83.2	81.7	81.8	87.3	90.9	95.6	102	100	99.0	94.3	93.2							
65	75.3	70.8	68.5	69.4	73.4	78.6	83.2	89.3	87.5	86.1	81.5	79.7							
70	56.5	51.9	49.5	50.4	54.4	59.7	64.4	68.6	67.9	65.1	61.8	59.7							
75	43.8	39.2	36.5	37.5	41.5	47.0	51.5	55.4	54.6	52.1	48.6	46.4							
80	24.2	19.6	16.8	17.9	21.6	27.4	31.9	35.1	34.7	32.5	28.9	26.2							
85	11.1	7.06	5.06	6.07	8.97	14.1	18.7	21.4	21.4	19.5	15.9	12.6							
90	0.00	0.00	0.07	0.13	0.10	0.09	1.10	2.63	4.42	4.96	3.25	0.86							
95	0.00	0.01	0.12	0.17	0.08	0.00	0.00	0.83	2.97	3.37	2.76	0.96							
100	0.01	0.15	0.37	0.43	0.28	0.08	0.00	0.80	2.18	2.59	2.13	0.84							
105	0.04	0.26	0.53	0.64	0.41	0.17	0.02	0.76	1.90	2.78	2.07	0.88							
110	0.13	0.42	0.85	1.01	0.71	0.28	0.11	0.82	2.48	4.06	3.01	1.15							
115	0.21	0.55	1.05	1.22	0.85	0.35	0.18	0.97	3.21	4.58	3.56	1.48							
120	0.33	0.76	1.17	1.34	0.88	0.49	0.29	1.13	3.03	4.47	3.47	1.71							
125	0.41	0.87	1.16	1.27	0.82	0.57	0.37	1.14	2.74	4.20	3.38	1.83							
130	0.51	0.96	1.15	1.20	0.79	0.66	0.46	1.14	2.47	3.84	3.21	1.82							
135	0.57	1.00	1.16	1.20	0.81	0.69	0.53	1.09	2.20	3.49	2.99	1.78							
140	0.67	1.05	1.25	1.23	0.88	0.75	0.62	1.10	1.82	3.06	2.65	1.72							
145	0.77	1.07	1.30	1.27	0.92	0.79	0.70	1.11	1.58	2.73	2.40	1.68							
150	0.90	1.11	1.33	1.29	0.96	0.90	0.85	1.20	1.38	2.30	2.15	1.68							
155	0.9984	1.11	1.31	1.24	0.96	0.97	0.95	1.28	1.33	2.09	2.03	1.67							
160	1.12	1.10	1.30	1.11	0.98	1.05	1.07	1.37	1.27	1.33	1.94	1.62							
165	1.17	1.12	1.26	1.03	1.06	1.08	1.13	1.41	1.33	1.28	1.83	1.56							
170	1.22	1.16	1.17	0.97	1.09	1.12	1.22	1.38	1.42	1.22	1.65	1.43							
175	1.26	1.19	1.17	0.98	1.14	1.17	1.26	1.35	1.40	1.15	1.47	1.35							
180	1.29	1.30	1.28	1.06	1.27	1.28	1.29	1.29	1.29	1.06	1.27	1.28							

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:21.5DEG
Operators:Eileen Yang
Test Date:2020-04-20

γ Range: 0 - 180DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V1.0.257
Humidity:49%
Test Distance:6.950m [K=1.0000]
Remarks: