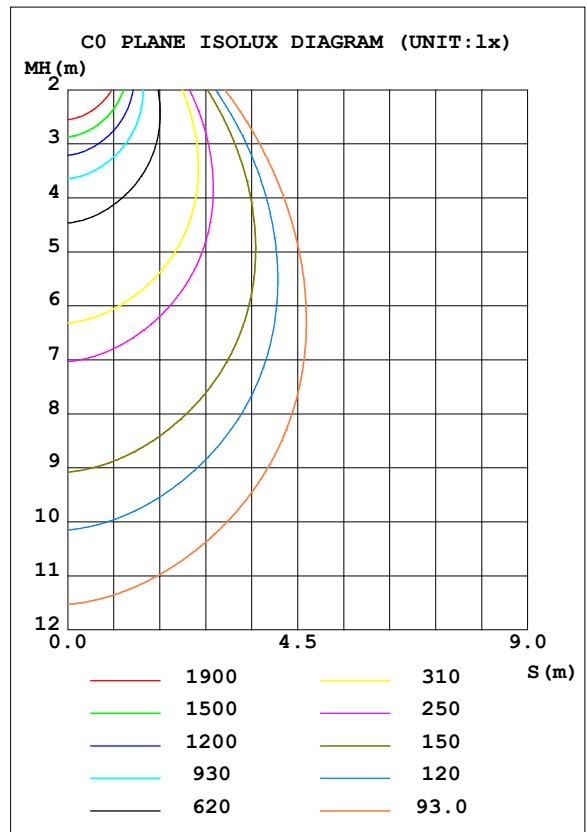
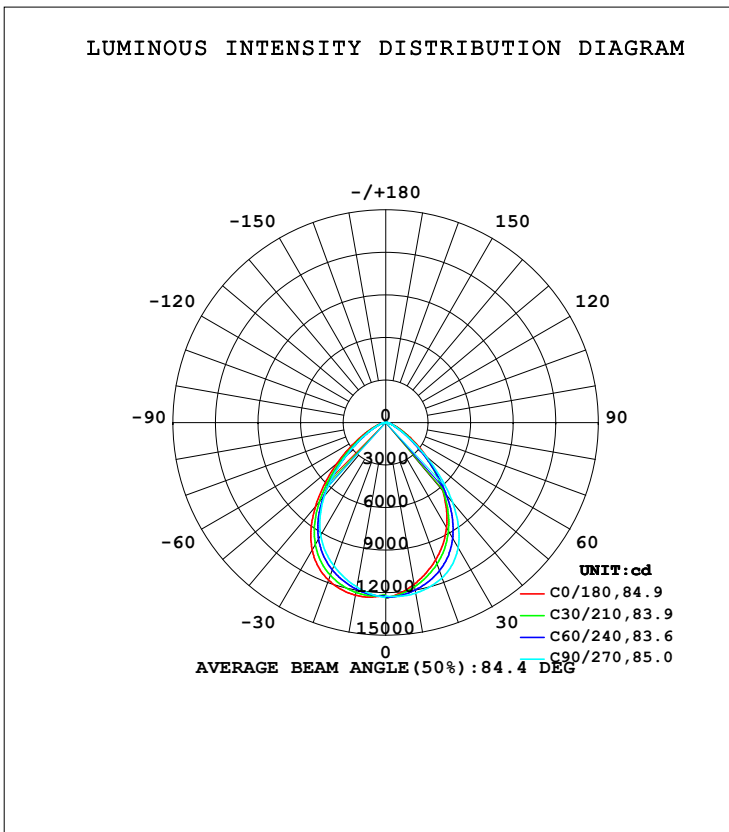




LUMINAIRE PHOTOMETRIC TEST REPORT

NAME :		
MFR. : CLF		

DATA OF LAMP		PHOTOMETRIC DATA Eff: 36.20 lm/W			
MODEL	SEAR + 80 filter	I _{max} (cd)	12454	S/MH(C0/180)	1.25
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.13
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm)	22530	η UP, DN(C0-180)	0.0,50.4
NOMINAL FLUX(lm)	563.252	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,49.6
LAMPS INSIDE	40	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220.0	η down(%)	100.0	CIBSE SHR MAX	1.25



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Danny
 Test Date:2023-12-08

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-HD5 SYSTEM V2.0.407.13
 Humidity:65.0%
 Test Distance:9.400m [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	1158	1187	1221	1242	1236	1205	1178	1159	0- 10	1158	1158	5.14,5.14
20	1031	1086	1165	1203	1181	1125	1074	1034	10- 20	3274	4432	19.7,19.7
30	858.1	914.6	1020	1071	1038	970.8	918.3	869.8	20- 30	4802	9234	41,41
40	626.5	649.5	734.6	797.4	771.4	706.4	671.9	644.7	30- 40	5225	14459	64.2,64.2
50	376.0	350.3	370.0	444.8	448.6	385.7	369.3	382.7	40- 50	4178	18637	82.7,82.7
60	178.2	146.9	137.9	185.1	202.9	160.3	151.9	176.7	50- 60	2384	21021	93.3,93.3
70	66.48	56.45	53.44	68.30	75.56	61.02	57.03	66.61	60- 70	1064	22085	98,98
80	15.66	14.47	16.45	18.01	20.00	16.26	15.93	15.23	70- 80	387.8	22473	99.7,99.7
90	0.2063	0.1969	0.1920	0.2046	0.1997	0.1838	0.1799	0.1986	80- 90	57.19	22530	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

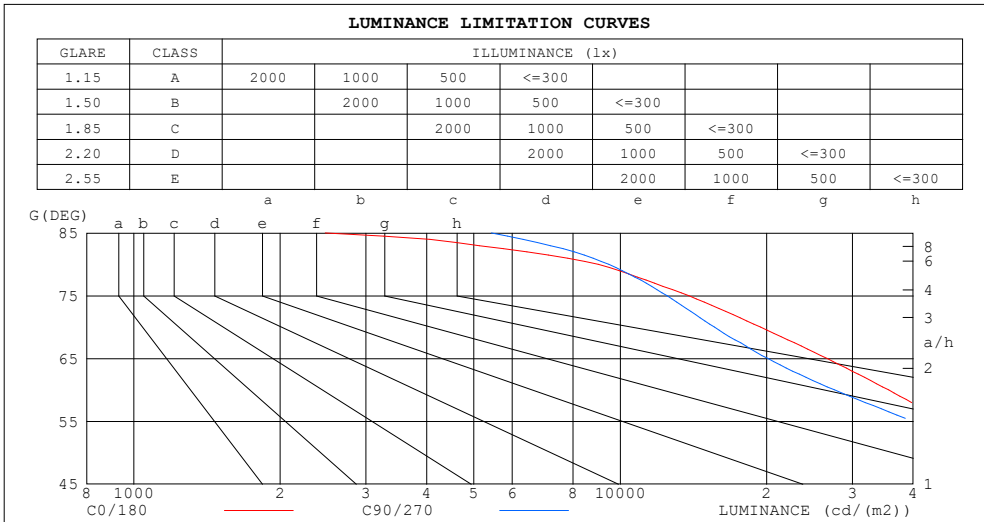
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators: Danny
Test Date:2023-12-08

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-HD5 SYSTEM V2.0.407.13
Humidity:65.0%
Test Distance:9.400m [K=1.0000]
Remarks:



LUMINANCE LIMITATION CURVES

NAME :		
MFR. : CLF		



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2475	5437
80	9019	9471
75	13834	12477
70	19439	15625
65	26644	20119
60	35633	27588
55	46458	40036
50	58501	57563
45	70623	77512

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Danny
 Test Date: 2023-12-08

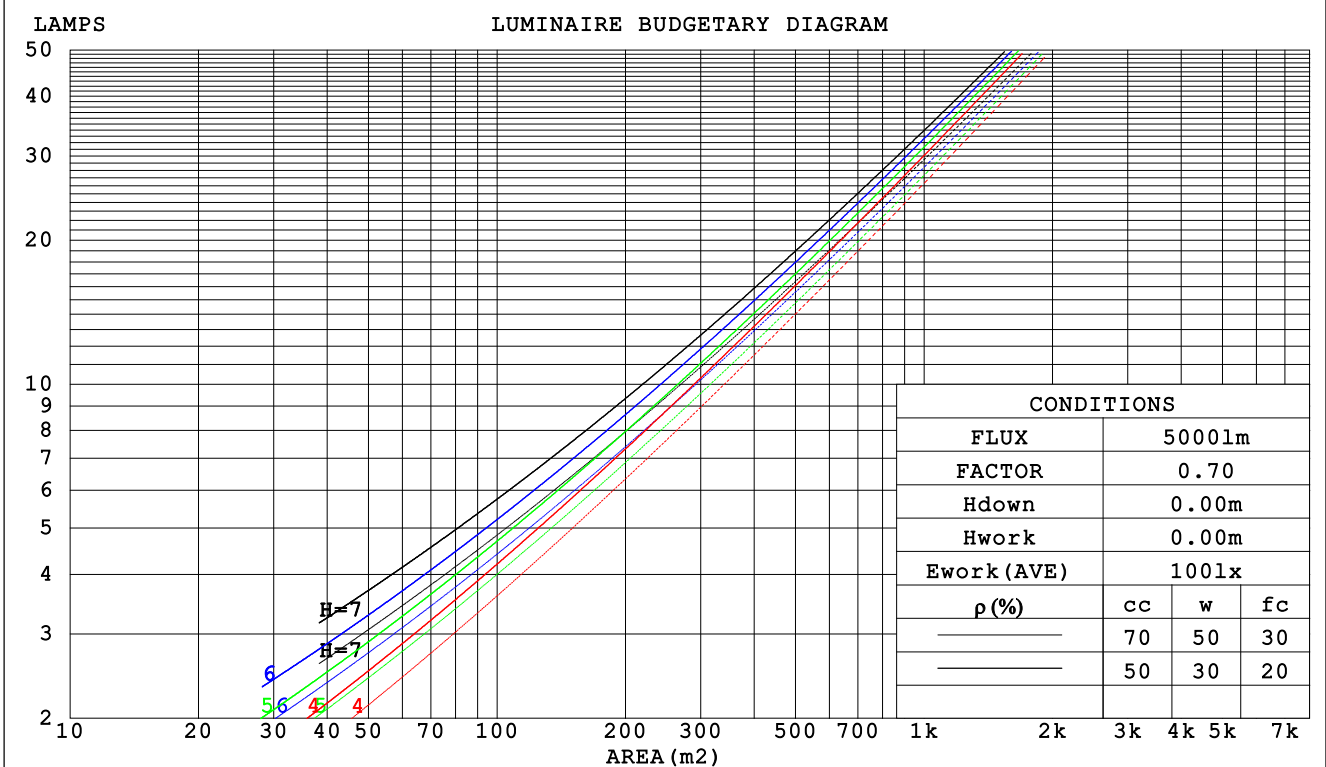
γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-HD5 SYSTEM V2.0.407.13
 Humidity: 65.0%
 Test Distance: 9.400m [K=1.0000]
 Remarks:



CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME:		
MFR.: CLF		

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.08	1.05	1.02	1.06	1.03	.00	1.01	.99	.97	.98	.96	.94	.94	.93	.91	.89
2.0	.97	.92	.87	.95	.90	.86	.92	.88	.84	.89	.85	.82	.86	.83	.81	.79
3.0	.88	.81	.76	.86	.80	.75	.83	.78	.74	.81	.76	.73	.78	.75	.71	.69
4.0	.79	.72	.66	.78	.71	.66	.76	.70	.65	.74	.68	.64	.71	.67	.64	.62
5.0	.72	.64	.59	.71	.64	.59	.69	.63	.58	.67	.62	.57	.66	.61	.57	.55
6.0	.66	.58	.53	.65	.58	.52	.63	.57	.52	.62	.56	.52	.60	.55	.51	.49
7.0	.60	.53	.47	.60	.52	.47	.58	.52	.47	.57	.51	.47	.56	.50	.46	.45
8.0	.56	.48	.43	.55	.48	.43	.54	.47	.43	.53	.47	.42	.52	.46	.42	.40
9.0	.52	.44	.39	.51	.44	.39	.50	.43	.39	.49	.43	.39	.48	.43	.39	.37
10.0	.48	.41	.36	.47	.40	.36	.46	.40	.36	.46	.40	.36	.45	.39	.35	.34



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators: Danny
 Test Date:2023-12-08

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-HD5 SYSTEM V2.0.407.13
 Humidity:65.0%
 Test Distance:9.400m [K=1.0000]
 Remarks:



WEC AND CCEC

NAME:		
MFR.: CLF		

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.235	.133	.042	.228	.130	.041	.215	.123	.039	.203	.117	.038	.192	.111	.036	
2.0	.228	.125	.038	.222	.122	.038	.211	.117	.036	.201	.113	.035	.191	.108	.034	
3.0	.217	.116	.035	.212	.114	.034	.203	.110	.033	.194	.106	.033	.185	.103	.032	
4.0	.206	.107	.031	.201	.105	.031	.193	.102	.031	.185	.099	.030	.177	.096	.029	
5.0	.194	.099	.029	.190	.098	.028	.183	.095	.028	.176	.093	.028	.169	.090	.027	
6.0	.183	.092	.026	.180	.091	.026	.173	.089	.026	.167	.087	.025	.161	.085	.025	
7.0	.173	.086	.024	.170	.085	.024	.164	.083	.024	.158	.081	.024	.153	.080	.023	
8.0	.164	.080	.023	.161	.079	.022	.156	.078	.022	.151	.076	.022	.146	.075	.022	
9.0	.155	.075	.021	.153	.074	.021	.148	.073	.021	.143	.072	.021	.139	.071	.020	
10.0	.147	.071	.020	.145	.070	.020	.141	.069	.019	.137	.068	.019	.133	.067	.019	

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.175	.157	.140	.150	.135	.121	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.164	.132	.106	.140	.114	.091	.096	.079	.064	.055	.046	.037	.018	.015	.012	
3.0	.154	.114	.082	.132	.098	.071	.091	.068	.050	.052	.040	.029	.017	.013	.010	
4.0	.146	.100	.065	.125	.086	.056	.086	.060	.040	.050	.035	.023	.016	.011	.008	
5.0	.139	.089	.053	.119	.077	.046	.082	.054	.032	.048	.032	.019	.015	.010	.006	
6.0	.132	.080	.044	.113	.070	.038	.078	.049	.027	.045	.029	.016	.015	.009	.005	
7.0	.126	.073	.037	.108	.064	.032	.075	.045	.023	.043	.026	.013	.014	.009	.004	
8.0	.120	.068	.031	.103	.059	.027	.071	.041	.019	.042	.024	.012	.013	.008	.004	
9.0	.115	.063	.027	.099	.054	.024	.068	.038	.017	.040	.023	.010	.013	.007	.003	
10.0	.110	.058	.024	.094	.051	.021	.066	.036	.015	.038	.021	.009	.012	.007	.003	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Danny
 Test Date:2023-12-08

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-HD5 SYSTEM V2.0.407.13
 Humidity:65.0%
 Test Distance:9.400m [K=1.0000]
 Remarks:



UGR(Unified Glare Rating) Table

NAME:											
MFR.: CLF											
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	14.2	15.4	14.4	15.6	15.8	14.0	15.3	14.3	15.5	15.7
	3H	14.5	15.6	14.7	15.9	16.1	14.2	15.3	14.4	15.5	15.8
	4H	14.5	15.6	14.8	15.9	16.1	14.2	15.3	14.5	15.5	15.8
	6H	14.5	15.5	14.8	15.8	16.1	14.2	15.2	14.5	15.5	15.7
	8H	14.5	15.5	14.8	15.7	16.0	14.1	15.1	14.5	15.4	15.7
	12H	14.4	15.4	14.8	15.7	15.9	14.1	15.1	14.5	15.3	15.6
4H	2H	14.2	15.3	14.5	15.5	15.8	14.0	15.2	14.3	15.4	15.6
	3H	14.6	15.6	14.9	15.8	16.1	14.3	15.3	14.6	15.5	15.8
	4H	14.7	15.6	15.1	15.9	16.2	14.4	15.2	14.7	15.6	15.9
	6H	14.7	15.5	15.1	15.8	16.2	14.4	15.2	14.8	15.5	15.9
	8H	14.7	15.4	15.1	15.8	16.1	14.4	15.1	14.8	15.5	15.8
	12H	14.7	15.3	15.1	15.7	16.1	14.4	15.0	14.8	15.4	15.8
8H	4H	14.6	15.3	15.0	15.7	16.1	14.3	15.0	14.7	15.4	15.8
	6H	14.7	15.3	15.1	15.7	16.1	14.4	15.0	14.8	15.4	15.8
	8H	14.7	15.2	15.1	15.6	16.1	14.4	14.9	14.9	15.3	15.8
	12H	14.7	15.1	15.1	15.5	16.0	14.4	14.8	14.9	15.3	15.8
12H	4H	14.6	15.2	15.0	15.6	16.0	14.3	14.9	14.7	15.3	15.7
	6H	14.7	15.2	15.1	15.6	16.0	14.4	14.9	14.8	15.3	15.8
	8H	14.7	15.1	15.1	15.5	16.0	14.4	14.8	14.9	15.3	15.7
Variations with the observer position at spacings:											
S = 1.0H		+ 0.9 / - 1.1					+ 1.1 / - 1.7				
1.5H		+ 0.6 / - 0.8					+ 1.1 / - 1.4				
2.0H		+ 2.0 / - 2.2					+ 2.8 / - 2.6				

CIE Pub.117, 22530 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 10.8)
 Area: 0.1 m2

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Danny
 Test Date:2023-12-08

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-HD5 SYSTEM V2.0.407.13
 Humidity:65.0%
 Test Distance:9.400m [K=1.0000]
 Remarks:



UTILIZATION FACTORS TABLE

NAME:		
MFR.: CLF		

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) $k(RI) \times RCR = 5$									
$k = 0.60$	69	59	53	68	59	53	67	58	53	48
0.80	79	69	64	78	69	63	76	68	63	57
1.00	86	78	72	85	77	72	83	78	71	66
1.25	93	85	79	91	84	79	89	83	78	72
1.50	97	89	84	95	89	84	93	87	83	77
2.00	102	96	91	100	95	90	97	93	89	82
2.50	105	99	95	103	98	94	99	95	92	85
3.00	107	102	98	105	101	97	102	98	95	88
4.00	110	106	103	108	104	101	104	101	98	91
5.00	112	108	105	110	106	104	105	103	101	92
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

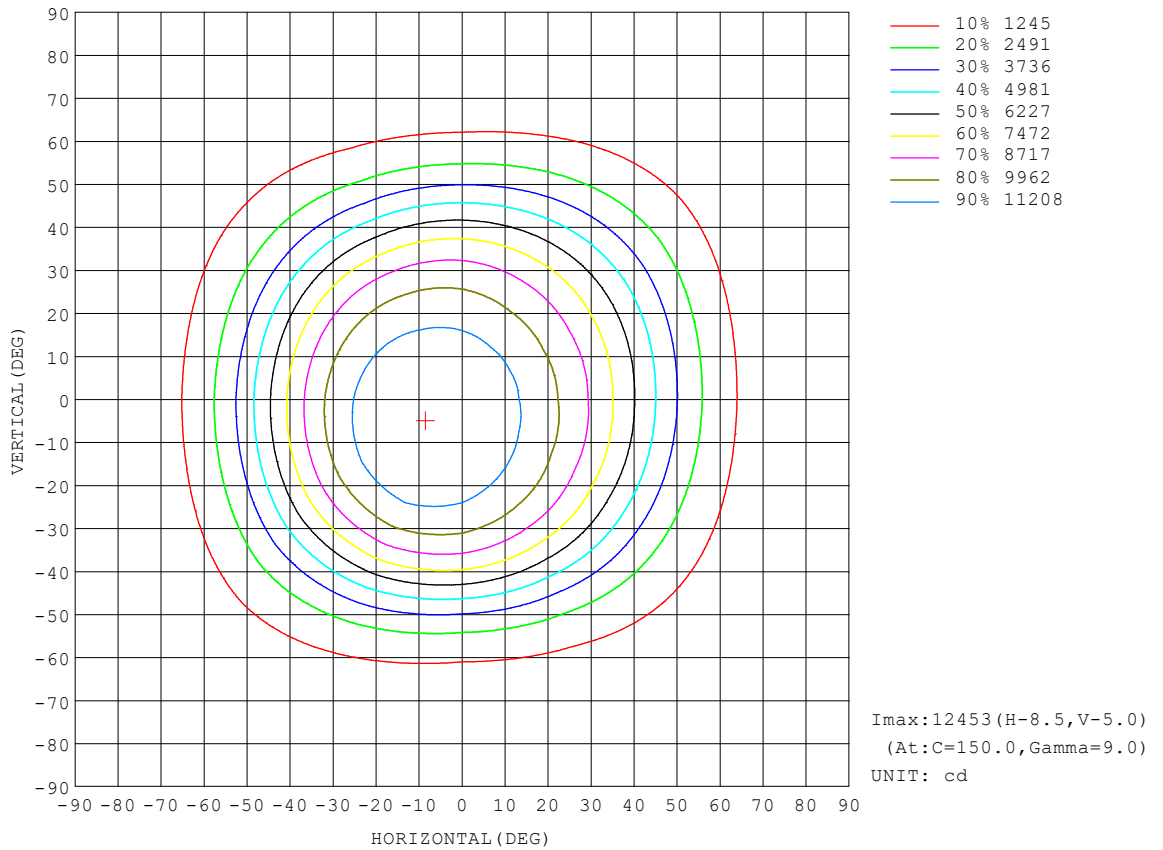
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Danny
 Test Date: 2023-12-08

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-HD5 SYSTEM V2.0.407.13
 Humidity: 65.0%
 Test Distance: 9.400m [K=1.0000]
 Remarks:



ISOCANDELA DIAGRAM

NAME :		
MFR. : CLF		



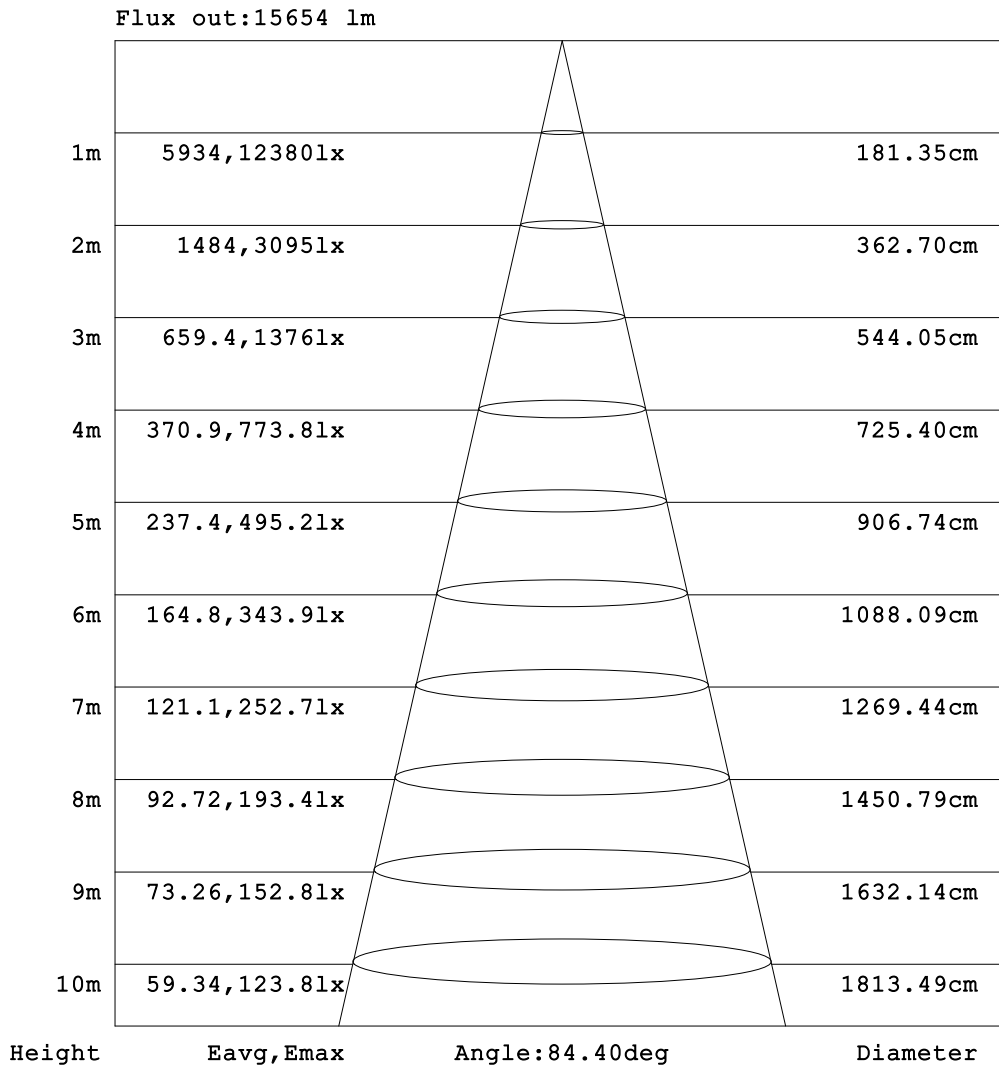
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Danny
Test Date: 2023-12-08

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-HD5 SYSTEM V2.0.407.13
Humidity: 65.0%
Test Distance: 9.400m [K=1.0000]
Remarks:



AAI Figure

NAME:		
MFR.: CLF		



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

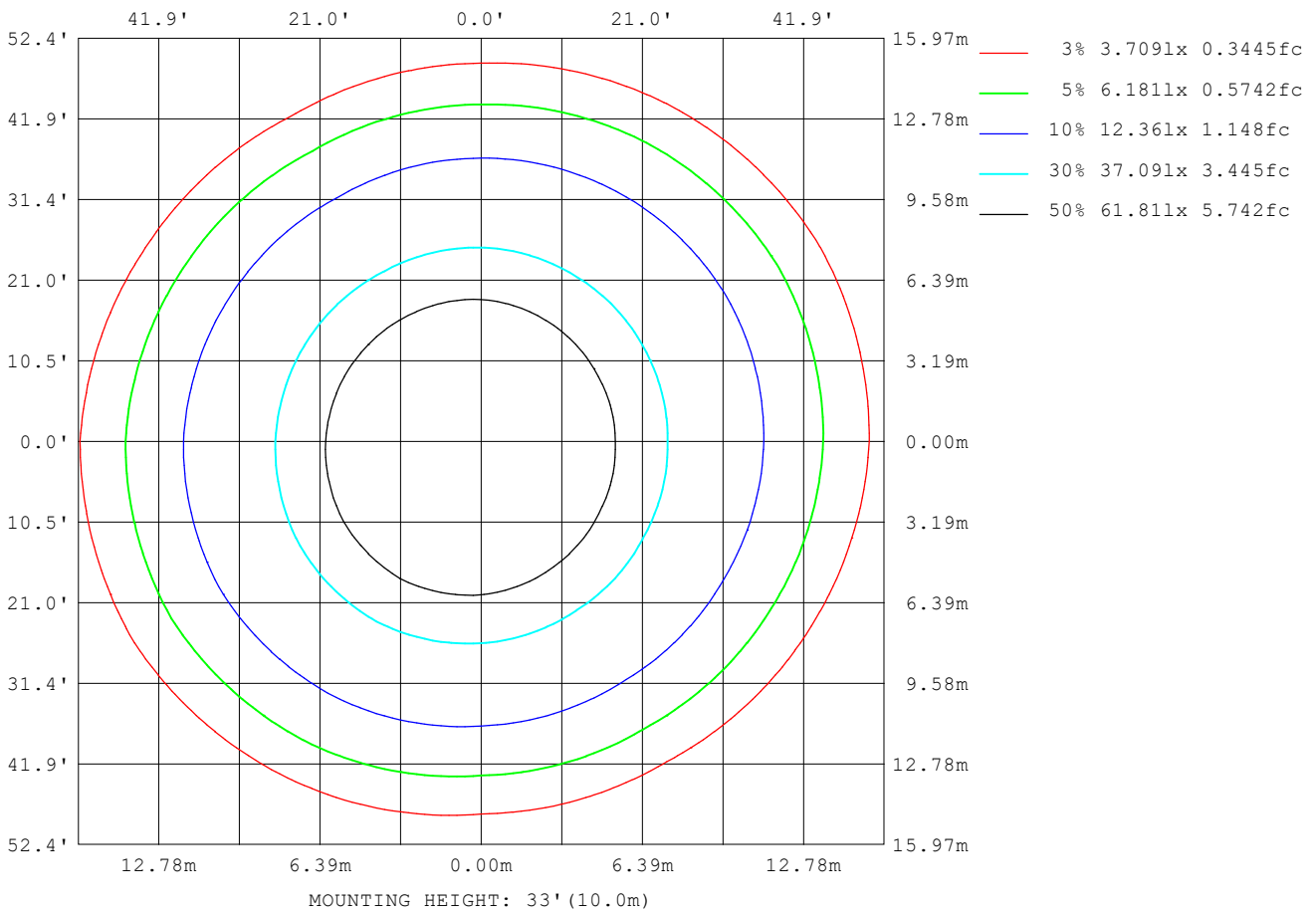
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Danny
Test Date:2023-12-08

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-HD5 SYSTEM V2.0.407.13
Humidity:65.0%
Test Distance:9.400m [K=1.0000]
Remarks:



ISOLUX DIAGRAM

NAME :		
MFR. : CLF		



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Danny
Test Date:2023-12-08

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-HD5 SYSTEM V2.0.407.13
Humidity:65.0%
Test Distance:9.400m [K=1.0000]
Remarks:



LED Avg.L Report

NAME :		
MFR. : CLF		

AvgL	cd/m2
L_0~180 (65) av	28319
L_0~180 (75) av	15061
L_0~180 (85) av	4047
L_90~270 (65) av	21133
L_90~270 (75) av	12614
L_90~270 (85) av	5009
L_45 (65) av	24607
L_45 (75) av	13594
L_45 (85) av	3937

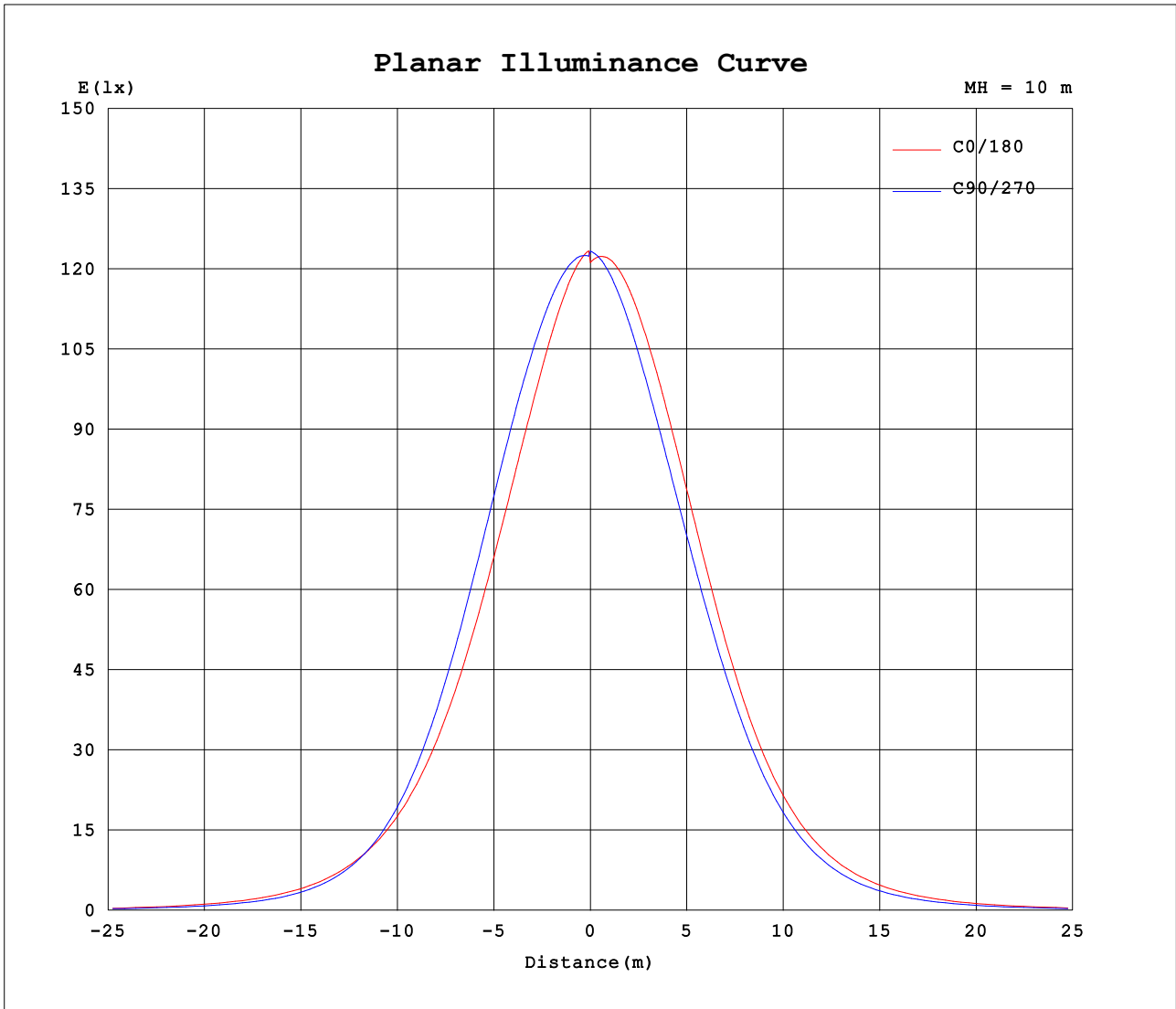
Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Danny
Test Date:2023-12-08

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-HD5 SYSTEM V2.0.407.13
Humidity:65.0%
Test Distance:9.400m [K=1.0000]
Remarks:



Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Danny
Test Date: 2023-12-08

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-HD5 SYSTEM V2.0.407.13
Humidity: 65.0%
Test Distance: 9.400m [K=1.0000]
Remarks:



LUMINOUS DISTRIBUTION INTENSITY DATA

NAME :		
MFR. : CLF		

Table--1

UNIT: x10cd

C (DEG) \ γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	1236	1236	1233	1223	1216	1212	1212	1214	1224	1233	1236	1238							
5	1206	1215	1224	1229	1236	1239	1235	1225	1217	1214	1207	1205							
10	1158	1175	1199	1221	1239	1245	1236	1216	1194	1178	1162	1155							
15	1099	1124	1162	1200	1228	1234	1218	1189	1156	1131	1106	1095							
20	1031	1060	1111	1165	1202	1205	1181	1145	1105	1074	1042	1026							
25	952	982	1041	1108	1153	1154	1124	1082	1038	1005	968	948							
30	858	885	945	1020	1072	1071	1038	993	948	918	881	858							
35	749	767	819	895	951	953	919	875	831	807	776	755							
40	627	632	667	735	793	802	771	728	684	672	652	638							
45	499	490	501	548	610	632	608	564	523	519	515	512							
50	376	355	346	370	428	461	449	405	367	369	379	386							
55	266	241	222	230	277	314	311	270	239	243	261	274							
60	178	157	137	138	170	200	203	172	149	152	170	183							
65	113	98.6	85.5	85.0	104	123	127	107	92.3	93.6	107	116							
70	66.5	59.6	53.3	53.4	63.9	72.7	75.6	64.9	57.1	57.0	64.5	68.7							
75	35.8	32.3	31.2	32.3	37.1	39.9	42.2	36.1	33.5	33.0	35.2	36.6							
80	15.7	13.8	15.1	16.4	17.4	18.7	20.0	16.3	16.2	15.9	14.6	15.8							
85	2.16	2.61	3.54	4.74	4.78	4.35	4.90	3.86	3.90	3.99	2.73	2.14							
90	0.21	0.20	0.19	0.19	0.21	0.20	0.20	0.19	0.18	0.18	0.19	0.21							

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Danny
Test Date: 2023-12-08

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-HD5 SYSTEM V2.0.407.13
Humidity: 65.0%
Test Distance: 9.400m [K=1.0000]
Remarks: