

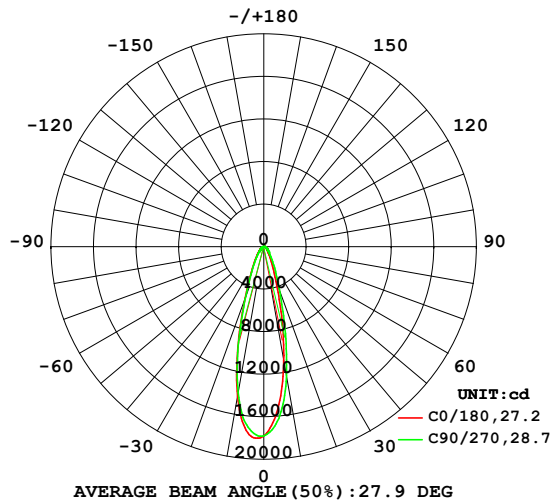
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

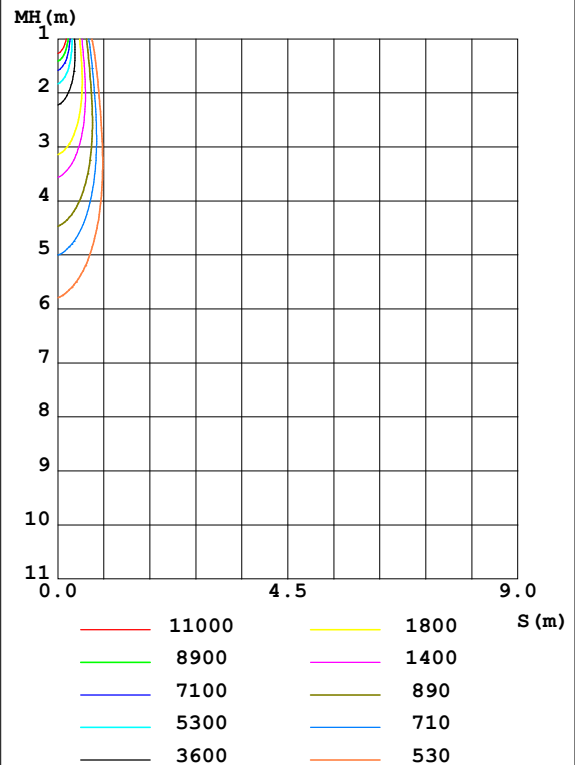
Test:U:229.9V I:0.2496A P:55.11W PF:0.9604 Freq:50.01Hz UTHDi:0% ITHDi:0% Lamp Flux:6725.6x1 lm		
NAME: FL23-050-5070-F06404	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 122.05 lm/W			
MODEL	RF303	I _{max} (cd)	18110	S/MH(C0/180)	0.51
NOMINAL POWER(W)	50	LOR(%)	100.0	S/MH(C90/270)	0.50
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	6725.6	η UP,DN(C0-180)	0.0,47.6
NOMINAL FLUX(lm)	6725.6	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,52.4
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	230	η down(%)	100.0	CIBSE SHR MAX	0.50

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:LYJ
Test Date:2020-06-30

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.426
Humidity:65.0%
Test Distance:26.000m [K=0.4589]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1089	1133	1231	1359	1428	1470	1393	1205	0- 10	1461	1461	21.7,21.7
20	328.2	354.7	431.7	485.9	512.2	554.3	499.1	378.5	10- 20	2217	3678	54.7,54.7
30	124.0	136.2	174.1	189.6	190.8	204.9	178.6	136.1	20- 30	1233	4911	73,73
40	61.13	66.43	81.01	89.91	89.99	93.69	80.46	65.35	30- 40	711.5	5623	83.6,83.6
50	38.93	40.29	44.05	49.61	50.51	51.23	45.74	40.52	40- 50	455.9	6079	90.4,90.4
60	26.72	25.51	25.71	29.26	31.33	31.43	29.71	27.16	50- 60	322.1	6401	95.2,95.2
70	15.50	12.89	11.72	14.50	17.39	17.51	17.37	15.59	60- 70	214.1	6615	98.4,98.4
80	4.422	2.225	1.046	2.653	5.211	5.699	5.851	4.947	70- 80	98.08	6713	99.8,99.8
90	0.0106	0.0094	0.0071	0.0083	0.0106	0.0083	0.0047	0.0083	80- 90	12.64	6726	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		

Conical surface Flux(90deg): 5872.2 lm

%lum = 87.3%

%lamp = 87.3%

Conical surface Flux(120deg): 6400.7 lm

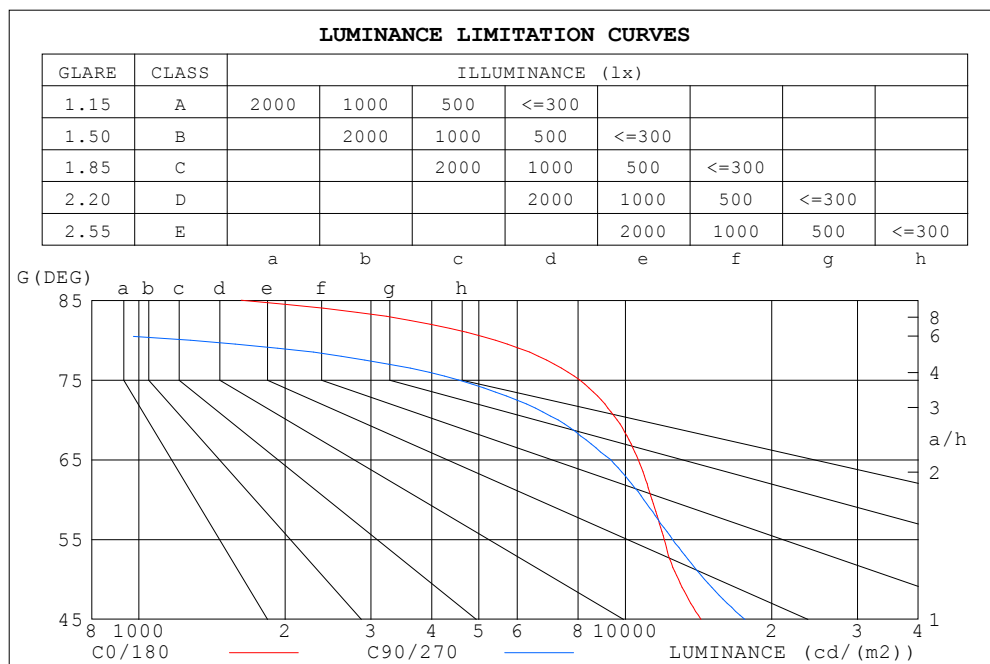
%lum = 95.2%

%lamp = 95.2%

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:LYJ
Test Date:2020-06-30

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.426
Humidity:65.0%
Test Distance:26.000m [K=0.4589]
Remarks:

LUMINANCE LIMITATION CURVES



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	1624	37
80	5407	1278
75	8053	4541
70	9619	7275
65	10638	9328
60	11347	10914
55	12027	12513
50	12859	14545
45	14307	17615

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Temperature: 25.3DEG
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 γ Interval: 0.5DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.426
Humidity: 65.0%
Test Distance: 26.000m [K=0.4589]
Remarks:

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WEC AND CCEC

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	.185	.105	.033	.178	.101	.032	.165	.095	.030	.154	.089	.028	.143	.083	.027	
2.0	.175	.096	.029	.169	.093	.029	.159	.088	.027	.149	.083	.026	.140	.079	.025	
3.0	.164	.087	.026	.159	.085	.026	.150	.081	.025	.142	.078	.024	.134	.074	.023	
4.0	.154	.080	.024	.150	.078	.023	.142	.075	.022	.135	.072	.022	.128	.070	.021	
5.0	.145	.074	.021	.141	.072	.021	.134	.070	.021	.128	.068	.020	.122	.065	.020	
6.0	.136	.068	.020	.133	.067	.019	.127	.065	.019	.122	.063	.019	.117	.061	.018	
7.0	.129	.064	.018	.126	.063	.018	.121	.061	.018	.116	.059	.017	.111	.058	.017	
8.0	.122	.060	.017	.120	.059	.017	.115	.057	.016	.111	.056	.016	.106	.055	.016	
9.0	.116	.056	.016	.114	.055	.016	.110	.054	.015	.106	.053	.015	.102	.052	.015	
10.0	.110	.053	.015	.108	.052	.015	.105	.051	.014	.101	.050	.014	.098	.049	.014	

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.172	.157	.144	.147	.135	.124	.100	.093	.086	.058	.054	.050	.019	.017	.016	
2.0	.157	.132	.112	.134	.114	.097	.092	.079	.068	.053	.046	.040	.017	.015	.013	
3.0	.144	.114	.089	.124	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010	
4.0	.133	.099	.072	.114	.085	.063	.079	.060	.044	.046	.035	.026	.015	.011	.009	
5.0	.124	.087	.060	.107	.075	.052	.073	.053	.037	.043	.031	.022	.014	.010	.007	
6.0	.116	.078	.050	.100	.067	.044	.069	.047	.031	.040	.028	.018	.013	.009	.006	
7.0	.109	.070	.043	.094	.061	.037	.065	.043	.026	.038	.025	.016	.012	.008	.005	
8.0	.103	.064	.037	.088	.055	.032	.061	.039	.023	.036	.023	.014	.012	.007	.004	
9.0	.097	.058	.032	.084	.051	.028	.058	.036	.020	.034	.021	.012	.011	.007	.004	
10.0	.092	.054	.028	.079	.047	.025	.055	.033	.017	.032	.019	.010	.010	.006	.003	

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:LYJ
 Test Date:2020-06-30

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.426
 Humidity:65.0%
 Test Distance:26.000m [K=0.4589]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UGR(Unified Glare Rating) Table

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	16.7	17.9	17.1	18.2	18.5	17.1	18.2	17.5	18.5	18.9
3H	18.3	19.3	18.6	19.6	20.0	18.1	19.1	18.4	19.4	19.7
4H	18.7	19.7	19.1	20.0	20.4	18.2	19.1	18.6	19.5	19.9
6H	18.9	19.8	19.4	20.2	20.6	18.2	19.0	18.6	19.4	19.8
8H	18.9	19.7	19.4	20.1	20.5	18.1	18.9	18.6	19.3	19.7
12H	18.9	19.7	19.3	20.1	20.5	18.1	18.8	18.5	19.2	19.6
4H 2H	17.1	18.0	17.5	18.4	18.8	17.6	18.5	18.0	18.8	19.2
3H	18.8	19.5	19.2	19.9	20.4	18.7	19.4	19.1	19.8	20.2
4H	19.3	20.0	19.8	20.4	20.9	18.8	19.5	19.3	19.9	20.4
6H	19.6	20.2	20.1	20.6	21.1	18.8	19.4	19.3	19.9	20.3
8H	19.6	20.1	20.1	20.6	21.1	18.8	19.3	19.2	19.8	20.2
12H	19.6	20.0	20.1	20.5	21.0	18.7	19.2	19.2	19.7	20.1
8H 4H	19.3	19.9	19.8	20.3	20.8	18.9	19.5	19.4	19.9	20.4
6H	19.6	20.1	20.1	20.6	21.0	18.9	19.4	19.4	19.9	20.3
8H	19.6	20.0	20.2	20.5	21.0	18.9	19.2	19.4	19.8	20.3
12H	19.6	20.0	20.1	20.5	21.0	18.8	19.1	19.3	19.6	20.2
12H 4H	19.3	19.7	19.8	20.2	20.7	18.9	19.4	19.4	19.9	20.3
6H	19.6	20.0	20.1	20.4	21.0	18.9	19.3	19.4	19.7	20.3
8H	19.6	19.9	20.1	20.4	21.0	18.8	19.2	19.4	19.7	20.2
CIE190: 2010										

CIE190: 2010
Area: 0.04708 m2

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Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.426
Humidity:65.0%
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UTILIZATION FACTORS TABLE

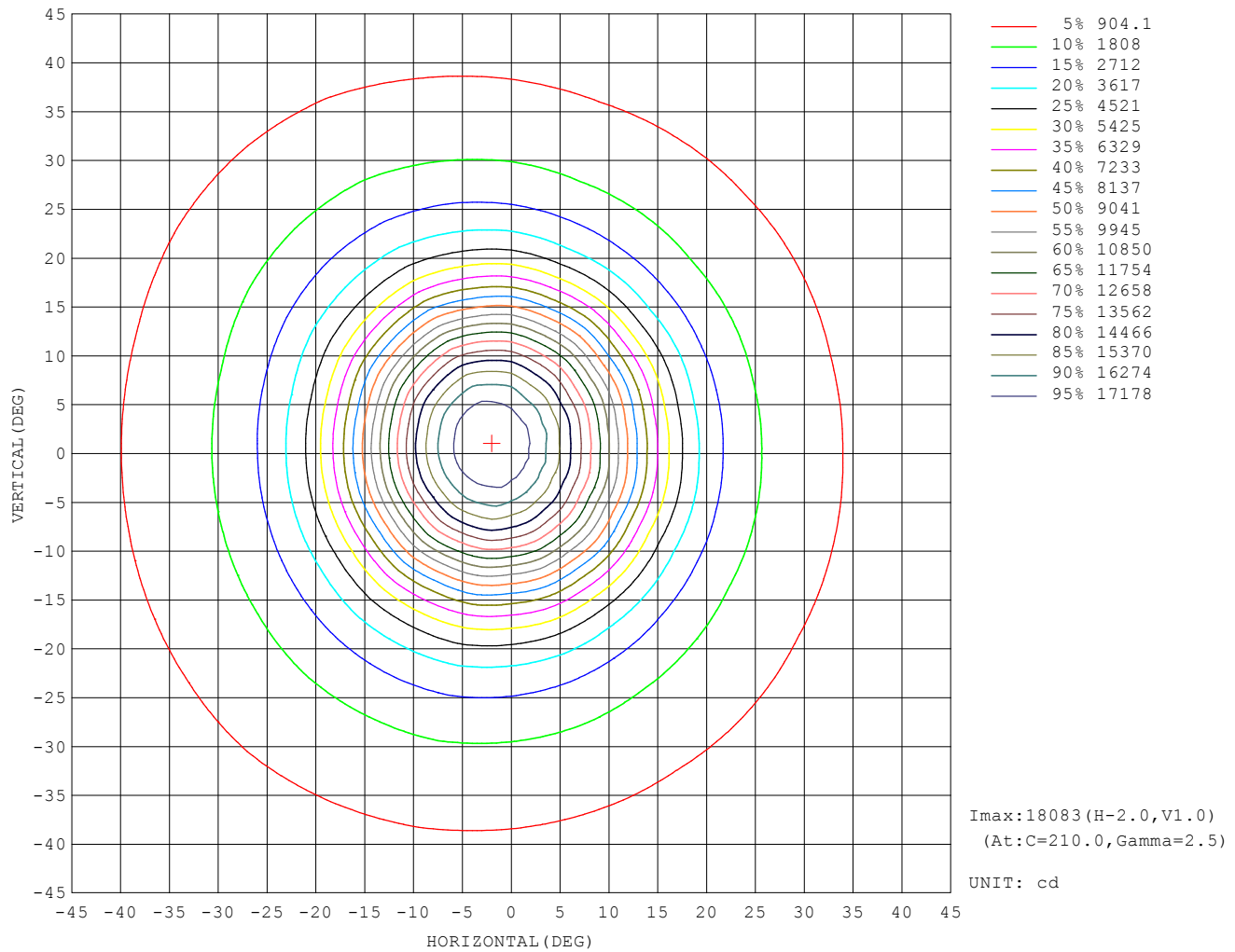
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	81	74	70	81	74	69	80	73	69	65
0.80	89	82	78	89	82	78	87	81	77	73
1.00	95	88	84	94	87	83	92	88	83	78
1.25	99	93	89	98	92	88	96	91	88	83
1.50	102	97	93	101	96	92	99	94	91	86
2.00	106	101	97	104	100	96	102	98	95	89
2.50	108	104	100	106	102	99	103	100	97	91
3.00	110	106	103	108	104	102	105	102	99	93
4.00	112	109	106	110	107	105	107	104	102	95
5.00	114	111	109	112	109	107	108	106	104	96
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.426
 Humidity: 65.0%
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EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

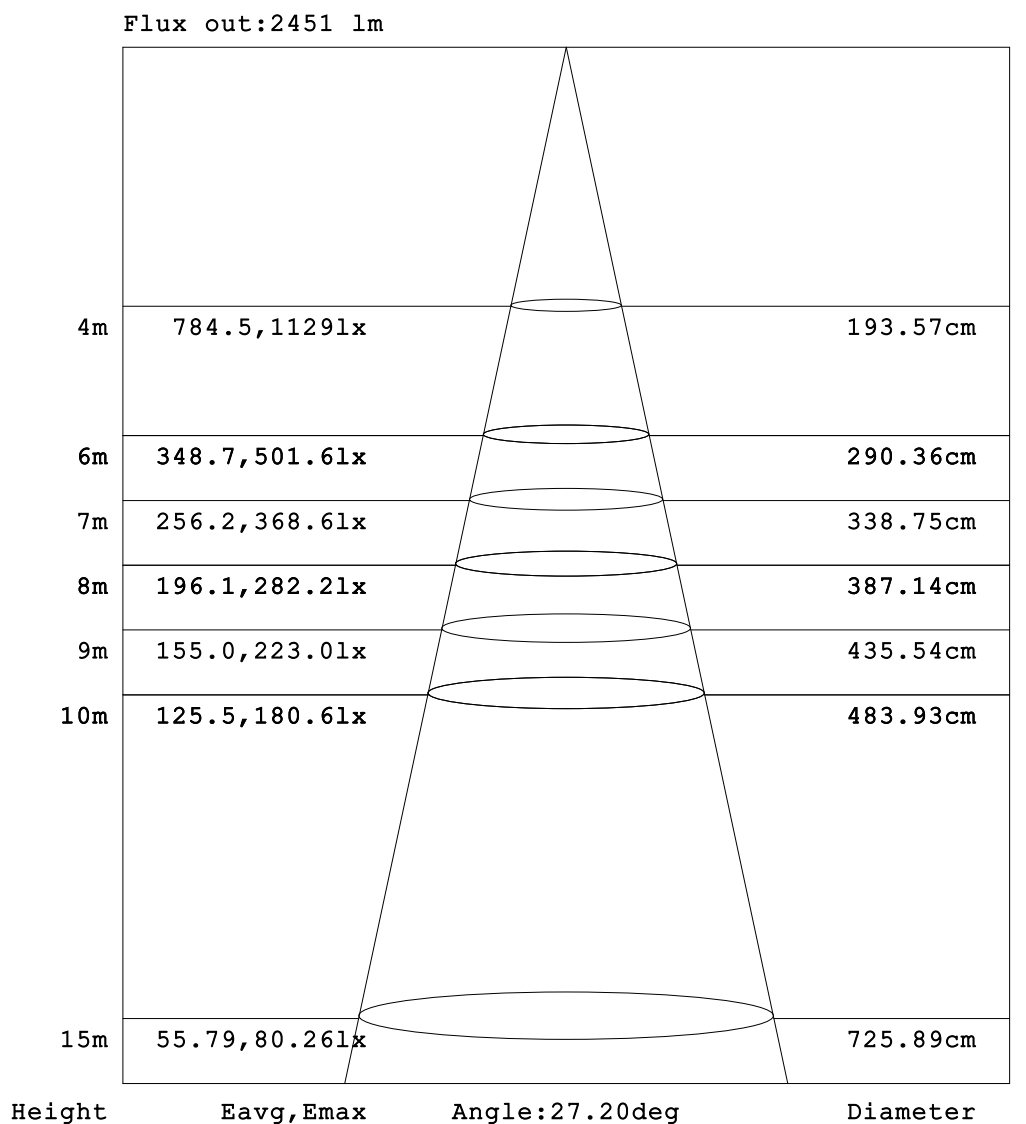
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
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Test Speed: HIGH
Temperature:25.3DEG
Operators:LYJ
Test Date:2020-06-30

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Remarks:

AAI Figure



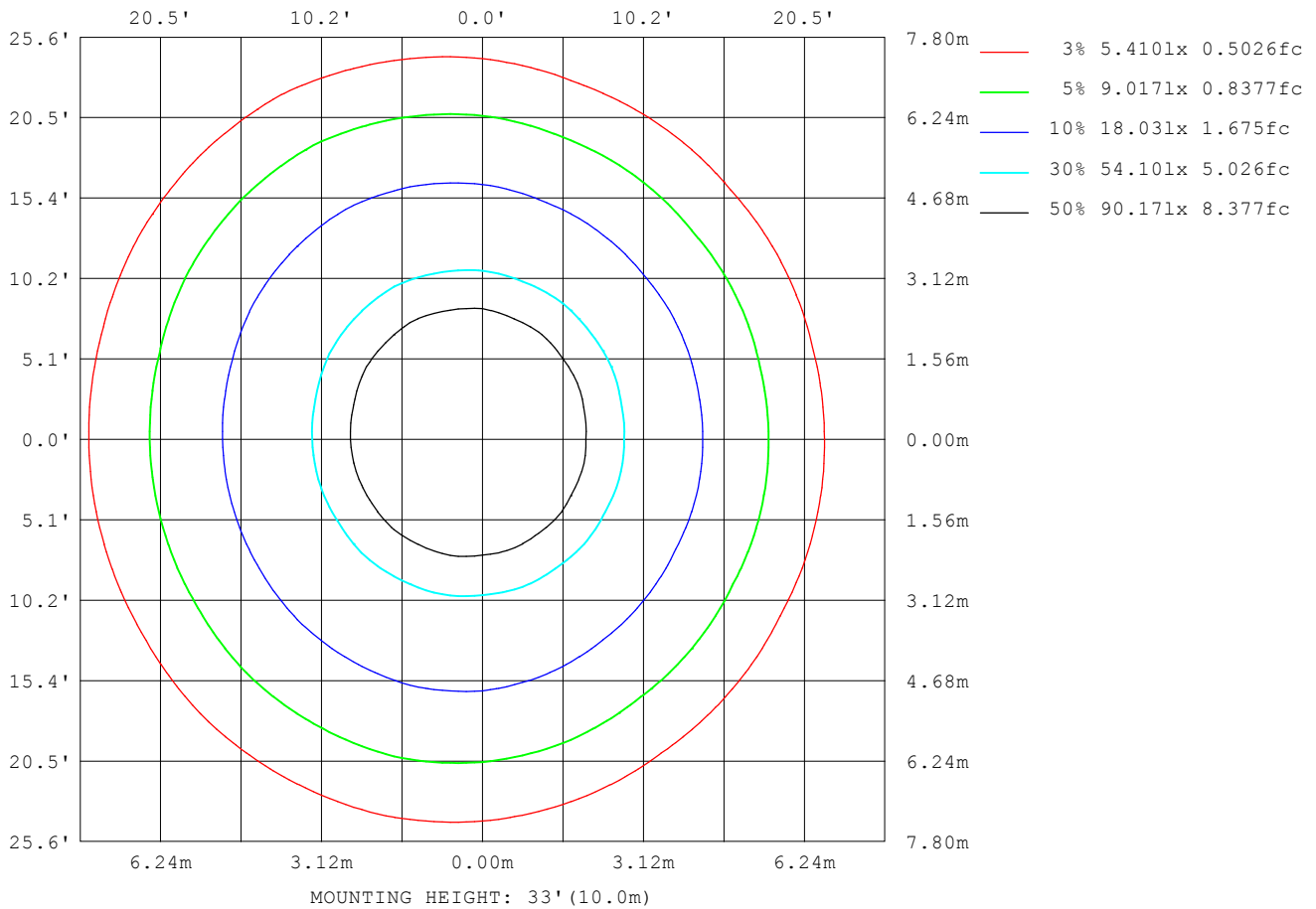
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: LYJ
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γ Range: 0 - 90DEG
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Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.426
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EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

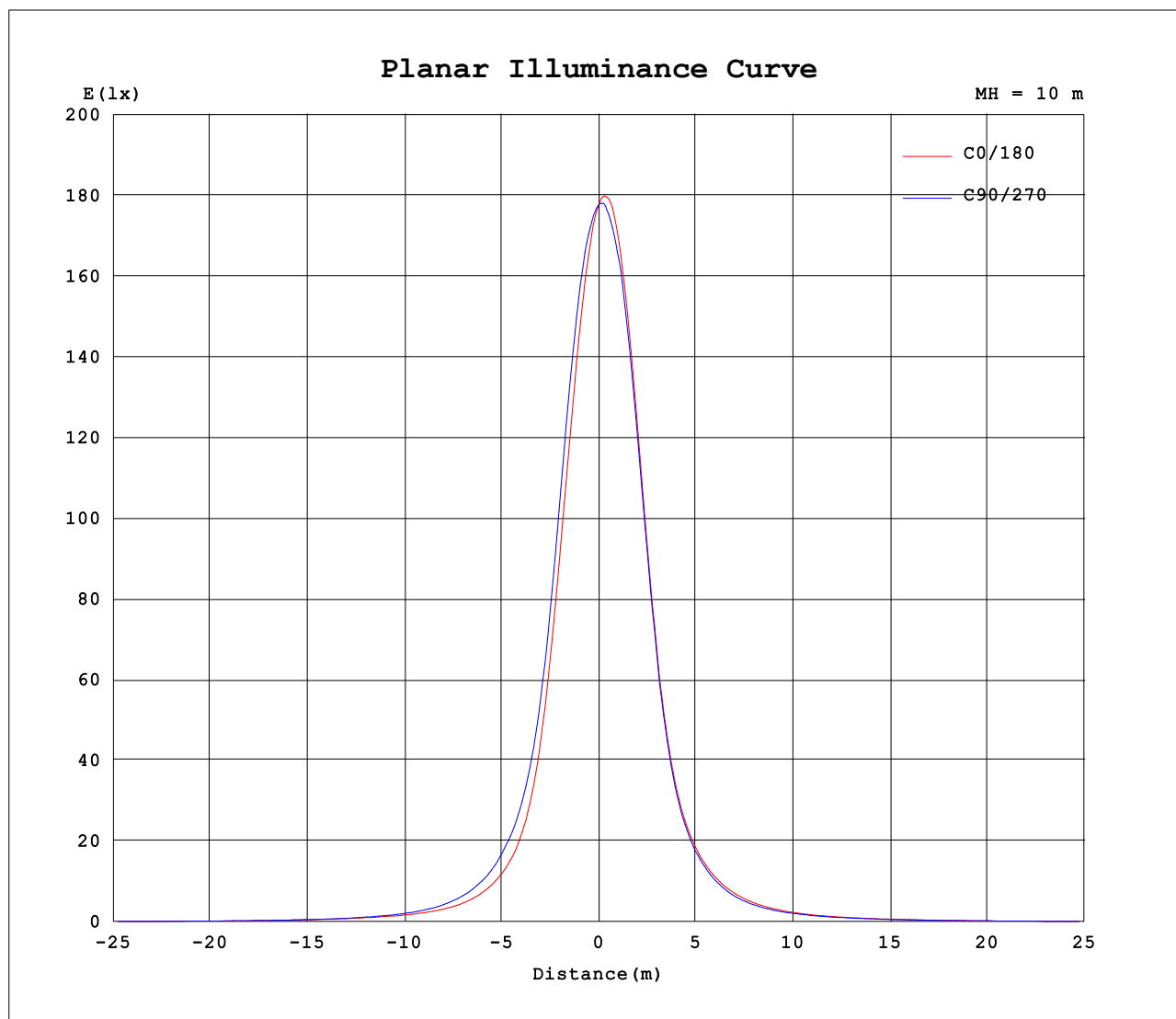
ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: LYJ
Test Date: 2020-06-30

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.426
Humidity: 65.0%
Test Distance: 26.000m [K=0.4589]
Remarks:

Planar Illuminance Curve



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 γ Interval: 0.5DEG
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Remarks: