

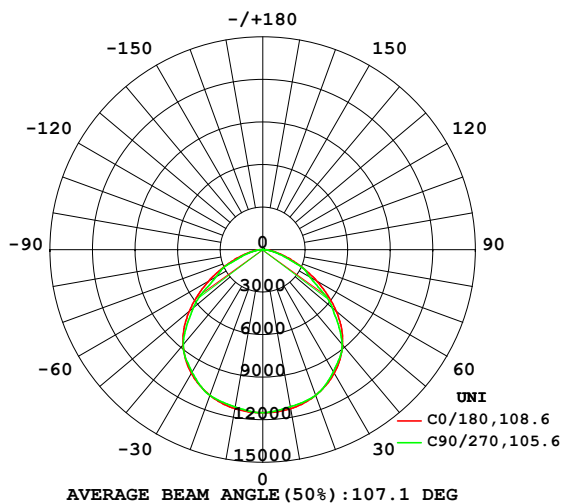
EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

LUMINAIRE PHOTOMETRIC TEST REPORT

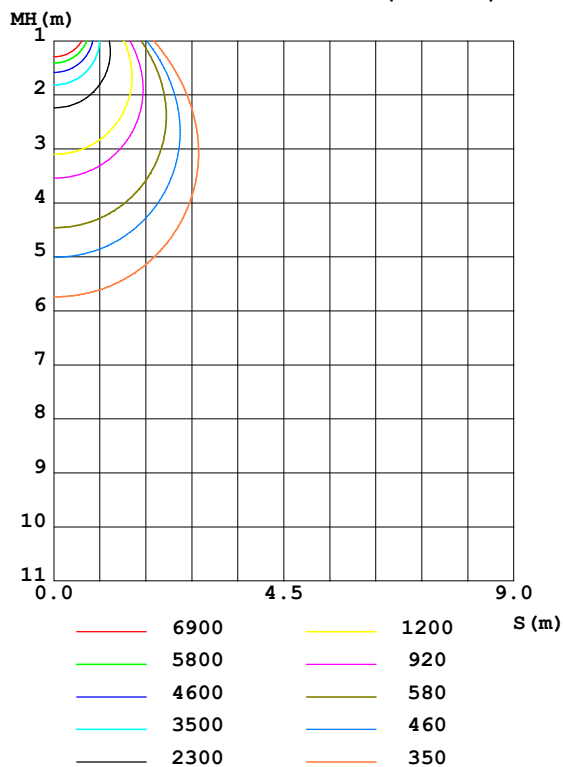
Test:U:229.6V I:0.8825A P:201.2W PF:0.9930 Freq:50.01Hz UTHDi:0% ITHDi:0% Lamp Flux:30502.1x1 lm		
NAME: LHB09-200-5070-L00404	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 151.61 lm/W			
MODEL	/	Imax(cd)	11503	S/MH(C0/180)	1.30
NOMINAL POWER(W)	/	LOR(%)	100.0	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	30502	η UP,DN(C0-180)	0.0,50.2
NOMINAL FLUX(lm)	30502.1	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.8
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230	η down(%)	100.0	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:26.6DEG
Operators:LYJ
Test Date:2020-11-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.426
Humidity:49.8%
Test Distance:26.000m [K=0.4574]
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	1139	1129	1125	1129	1139	1129	1126	1129	0- 10	1088	1088	3.57,3.57
20	1093	1088	1093	1088	1093	1086	1093	1086	10- 20	3145	4233	13.9,13.9
30	1008	1012	996.0	1012	1008	1007	997.8	1007	20- 30	4850	9084	29.8,29.8
40	876.0	867.7	871.5	867.7	876.0	861.6	873.7	861.6	30- 40	5895	14979	49.1,49.1
50	676.9	669.8	640.8	669.8	676.9	661.0	641.0	661.0	40- 50	5948	20927	68.6,68.6
60	437.0	427.7	382.5	427.7	437.0	415.0	377.1	415.0	50- 60	4787	25714	84.3,84.3
70	218.4	212.6	190.2	212.6	218.4	201.9	185.9	201.9	60- 70	3048	28762	94.3,94.3
80	77.95	75.68	59.85	75.68	77.95	69.89	60.48	69.89	70- 80	1397	30159	98.9,98.9
90	0	0	0	0	0	0	0	0	80- 90	343.2	30502	100,100
100	0	0	0	0	0	0	0	0	90-100	0	30502	100,100
110	0	0	0	0	0	0	0	0	100-110	0	30502	100,100
120	0	0	0	0	0	0	0	0	110-120	0	30502	100,100
130	0	0	0	0	0	0	0	0	120-130	0	30502	100,100
140	0	0	0	0	0	0	0	0	130-140	0	30502	100,100
150	0	0	0	0	0	0	0	0	140-150	0	30502	100,100
160	0	0	0	0	0	0	0	0	150-160	0	30502	100,100
170	0	0	0	0	0	0	0	0	160-170	0	30502	100,100
180	0	0	0	0	0	0	0	0	170-180	0	30502	100,100
DEG	LUMINOUS INTENSITY:×10cd									UNIT:lm		

Conical surface Flux(90deg): 18030 lm

%lum = 59.1%

%lamp = 59.1%

Conical surface Flux(120deg): 25714 lm

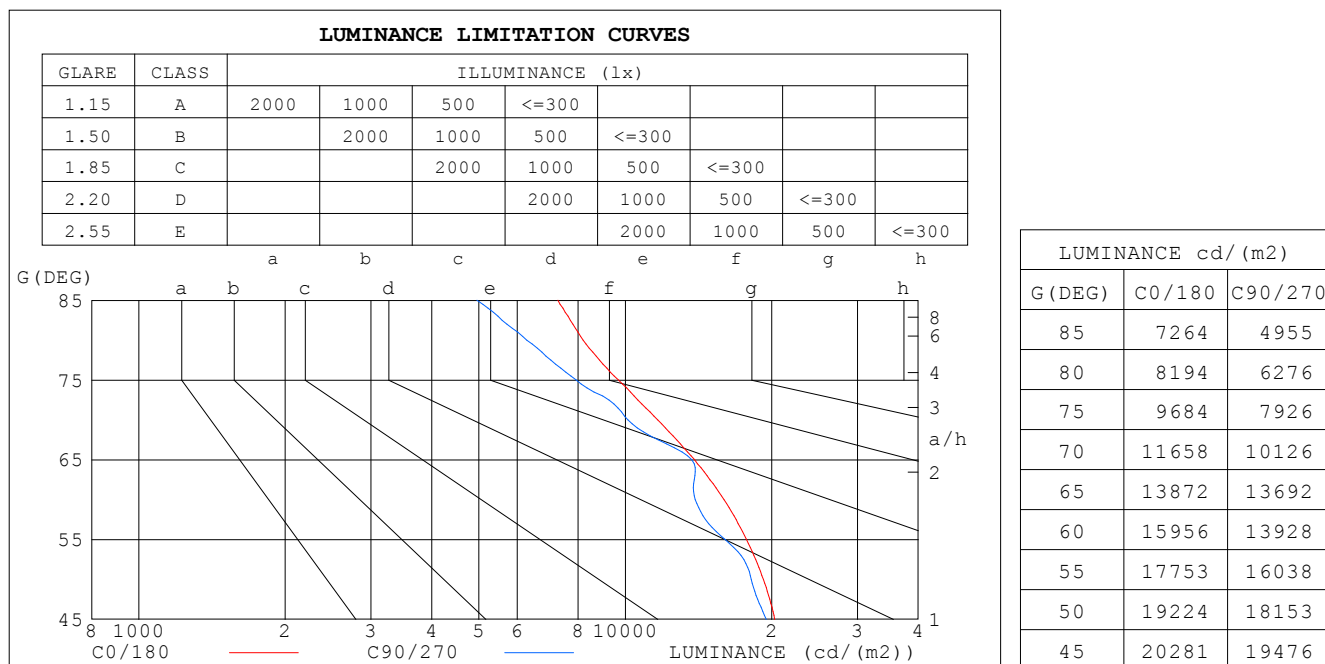
%lum = 84.3%

%lamp = 84.3%

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:26.6DEG
Operators:LYJ
Test Date:2020-11-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.426
Humidity:49.8%
Test Distance:26.000m [K=0.4574]
Remarks:

LUMINANCE LIMITATION CURVES



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Test Speed: HIGH
Temperature: 26.6DEG
Operators: LYJ
Test Date: 2020-11-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.426
Humidity: 49.8%
Test Distance: 26.000m [K=0.4574]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

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	.283	.161	.051	.276	.157	.050	.263	.151	.048	.251	.145	.046	.240	.139	.045		
2.0	.271	.148	.046	.265	.146	.045	.253	.141	.044	.243	.136	.043	.233	.132	.042		
3.0	.254	.135	.040	.249	.133	.040	.238	.129	.039	.229	.125	.038	.220	.122	.038		
4.0	.237	.123	.036	.232	.121	.036	.223	.118	.035	.215	.115	.035	.207	.112	.034		
5.0	.221	.112	.033	.216	.111	.032	.208	.108	.032	.201	.106	.032	.194	.104	.031		
6.0	.206	.103	.030	.202	.102	.029	.195	.100	.029	.188	.098	.029	.182	.096	.028		
7.0	.192	.095	.027	.189	.094	.027	.183	.092	.027	.177	.091	.026	.171	.089	.026		
8.0	.181	.088	.025	.178	.087	.025	.172	.086	.025	.166	.084	.024	.161	.083	.024		
9.0	.170	.082	.023	.167	.081	.023	.162	.080	.023	.157	.079	.023	.153	.077	.022		
10.0	.160	.077	.021	.158	.076	.021	.153	.075	.021	.149	.074	.021	.145	.073	.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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020		
1.0	.178	.156	.136	.153	.134	.117	.104	.092	.081	.060	.053	.047	.019	.017	.015		
2.0	.169	.132	.101	.145	.114	.087	.099	.079	.061	.057	.046	.036	.018	.015	.012		
3.0	.161	.114	.077	.138	.099	.066	.095	.068	.047	.055	.040	.027	.018	.013	.009		
4.0	.154	.101	.060	.132	.087	.052	.091	.061	.037	.052	.036	.022	.017	.012	.007		
5.0	.147	.090	.049	.126	.078	.042	.087	.055	.030	.050	.032	.018	.016	.010	.006		
6.0	.140	.082	.040	.120	.071	.035	.083	.050	.025	.048	.029	.015	.015	.010	.005		
7.0	.133	.075	.034	.114	.065	.030	.079	.045	.021	.046	.027	.013	.015	.009	.004		
8.0	.127	.069	.029	.109	.060	.026	.076	.042	.018	.044	.025	.011	.014	.008	.004		
9.0	.121	.064	.026	.104	.056	.022	.072	.039	.016	.042	.023	.009	.014	.008	.003		
10.0	.115	.060	.023	.100	.052	.020	.069	.037	.014	.040	.022	.008	.013	.007	.003		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:26.6DEG
 Operators:LYJ
 Test Date:2020-11-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.426
 Humidity:49.8%
 Test Distance:26.000m [K=0.4574]
 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		25.3	26.8	25.6	27.1	27.5	24.3	25.9	24.7	26.2	26.5	
	3H	26.5	27.9	26.9	28.3	28.6	25.6	27.0	26.0	27.4	27.7	
	4H	26.9	28.3	27.3	28.6	29.0	25.9	27.3	26.3	27.6	28.0	
	6H	27.2	28.4	27.6	28.8	29.2	26.1	27.4	26.6	27.7	28.1	
	8H	27.3	28.5	27.7	28.8	29.2	26.2	27.4	26.6	27.7	28.1	
	12H	27.3	28.5	27.8	28.8	29.3	26.2	27.3	26.6	27.7	28.1	
	4H	2H	25.6	27.0	26.0	27.3	27.7	24.9	26.2	25.3	26.5	26.9
		3H	27.1	28.2	27.5	28.6	29.0	26.3	27.4	26.8	27.8	28.2
		4H	27.6	28.6	28.1	29.0	29.5	26.8	27.8	27.2	28.2	28.6
		6H	28.0	28.9	28.5	29.3	29.8	27.1	27.9	27.5	28.4	28.8
		8H	28.1	28.9	28.6	29.4	29.9	27.1	27.9	27.6	28.4	28.8
		12H	28.2	29.0	28.7	29.4	29.9	27.2	27.9	27.7	28.4	28.8
	8H	4H	27.8	28.6	28.2	29.0	29.5	27.0	27.8	27.5	28.2	28.7
		6H	28.3	28.9	28.8	29.4	29.9	27.4	28.0	27.9	28.5	29.0
		8H	28.5	29.1	29.0	29.6	30.1	27.5	28.1	28.0	28.6	29.1
		12H	28.6	29.2	29.1	29.6	30.2	27.6	28.1	28.1	28.6	29.1
	12H	4H	27.8	28.5	28.3	29.0	29.4	27.0	27.7	27.5	28.2	28.7
		6H	28.3	28.9	28.8	29.3	29.9	27.4	28.0	27.9	28.5	29.0
		8H	28.5	29.0	29.0	29.5	30.1	27.5	28.1	28.1	28.6	29.1
CIE190: 2010												

CIE190: 2010
Area: 0.221 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 26.6DEG
Operators: LYJ
Test Date: 2020-11-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.426
Humidity: 49.8%
Test Distance: 26.000m [K=0.4574]
Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

UTILIZATION FACTORS TABLE

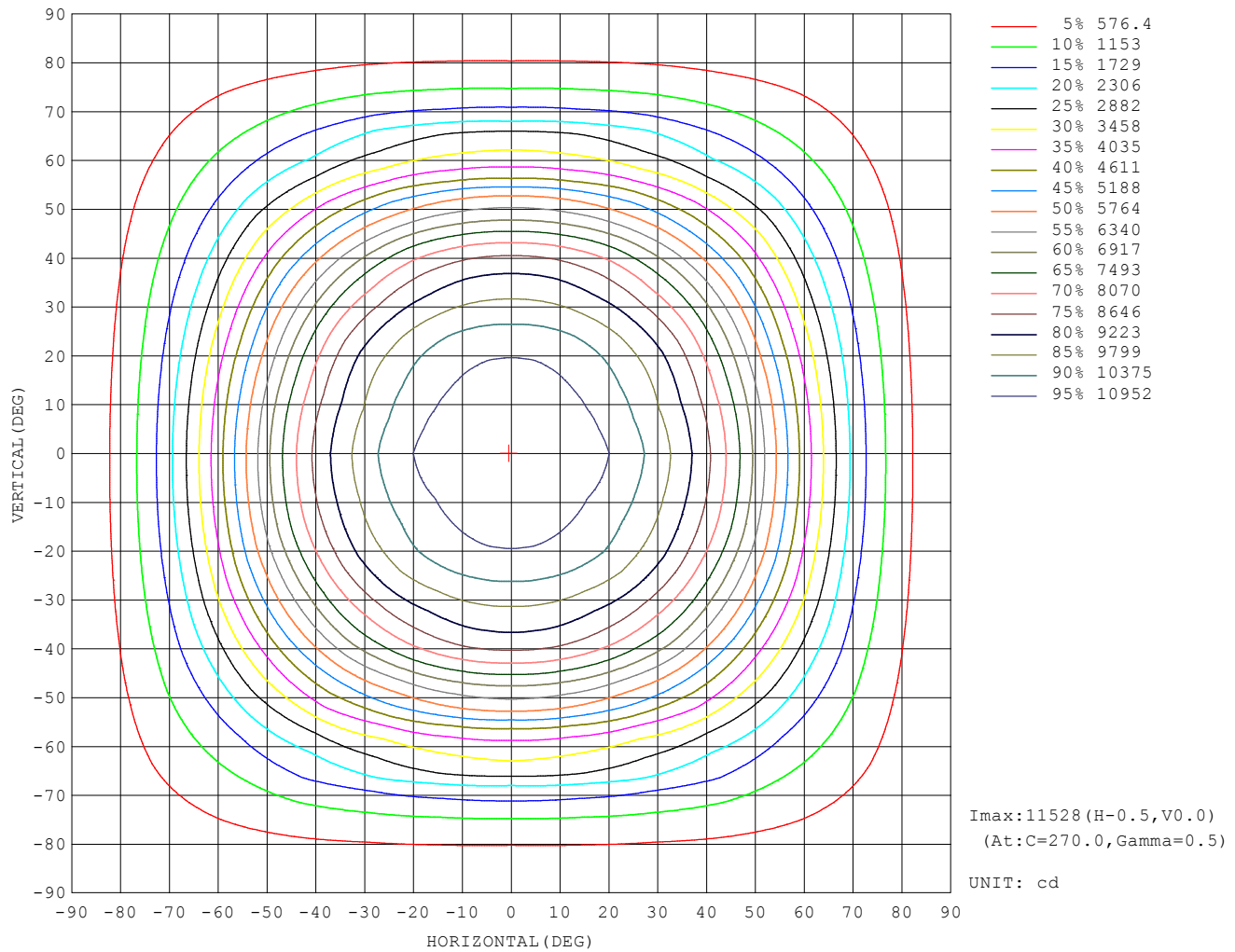
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	60	49	42	59	48	42	58	48	42	35
0.80	70	59	52	69	59	52	67	58	51	45
1.00	79	68	61	78	68	61	75	69	61	54
1.25	86	76	69	84	75	69	82	74	68	61
1.50	91	81	75	89	81	74	86	79	73	66
2.00	97	89	83	95	88	83	92	86	81	74
2.50	101	94	88	99	92	87	95	90	85	77
3.00	104	98	93	102	96	91	98	93	89	81
4.00	107	102	98	105	101	97	101	97	94	85
5.00	110	105	102	107	103	100	103	100	97	88
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 26.6DEG
 Operators: LYJ
 Test Date: 2020-11-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.426
 Humidity: 49.8%
 Test Distance: 26.000m [K=0.4574]
 Remarks:

EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

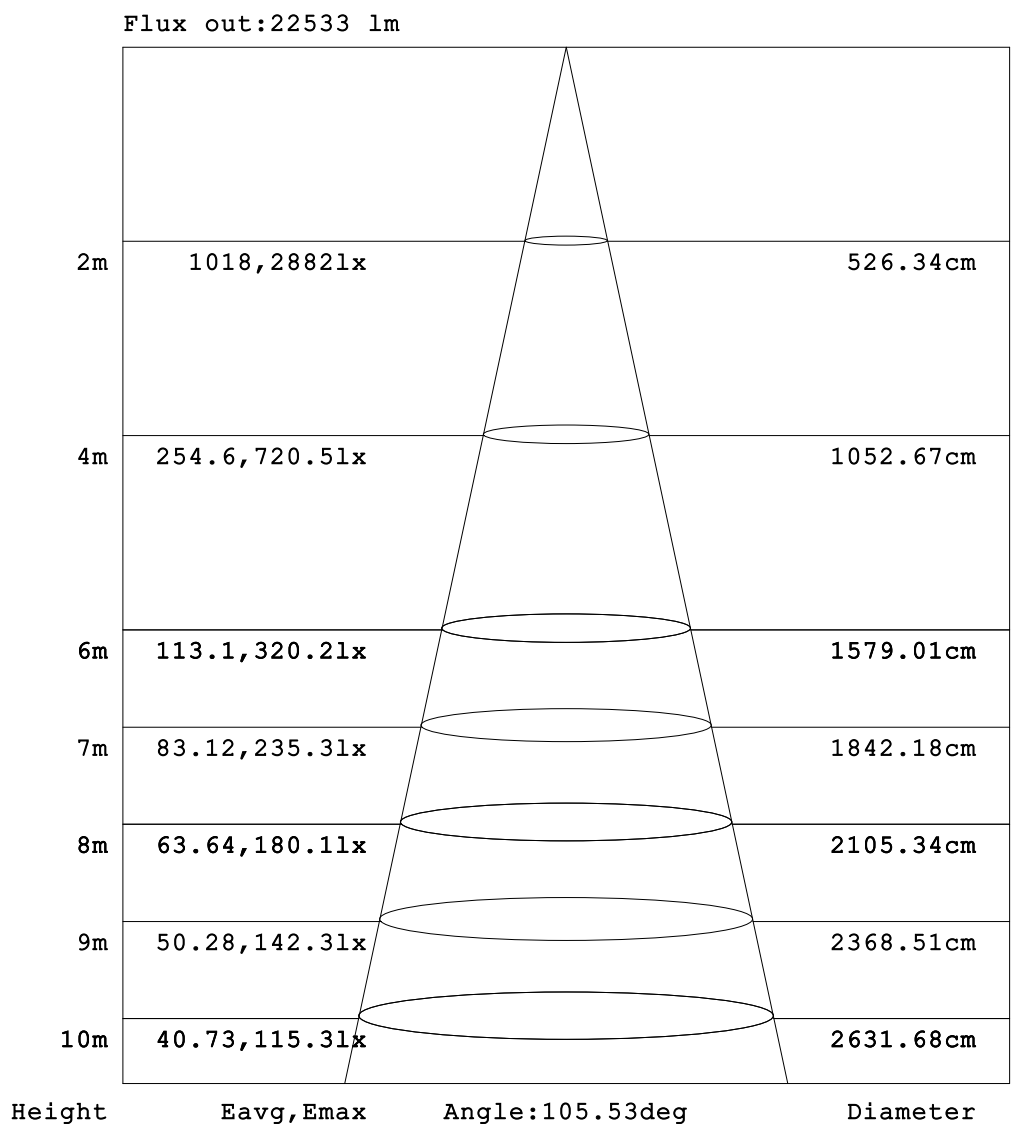
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:26.6DEG
Operators:LYJ
Test Date:2020-11-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.426
Humidity:49.8%
Test Distance:26.000m [K=0.4574]
Remarks:

AAI Figure



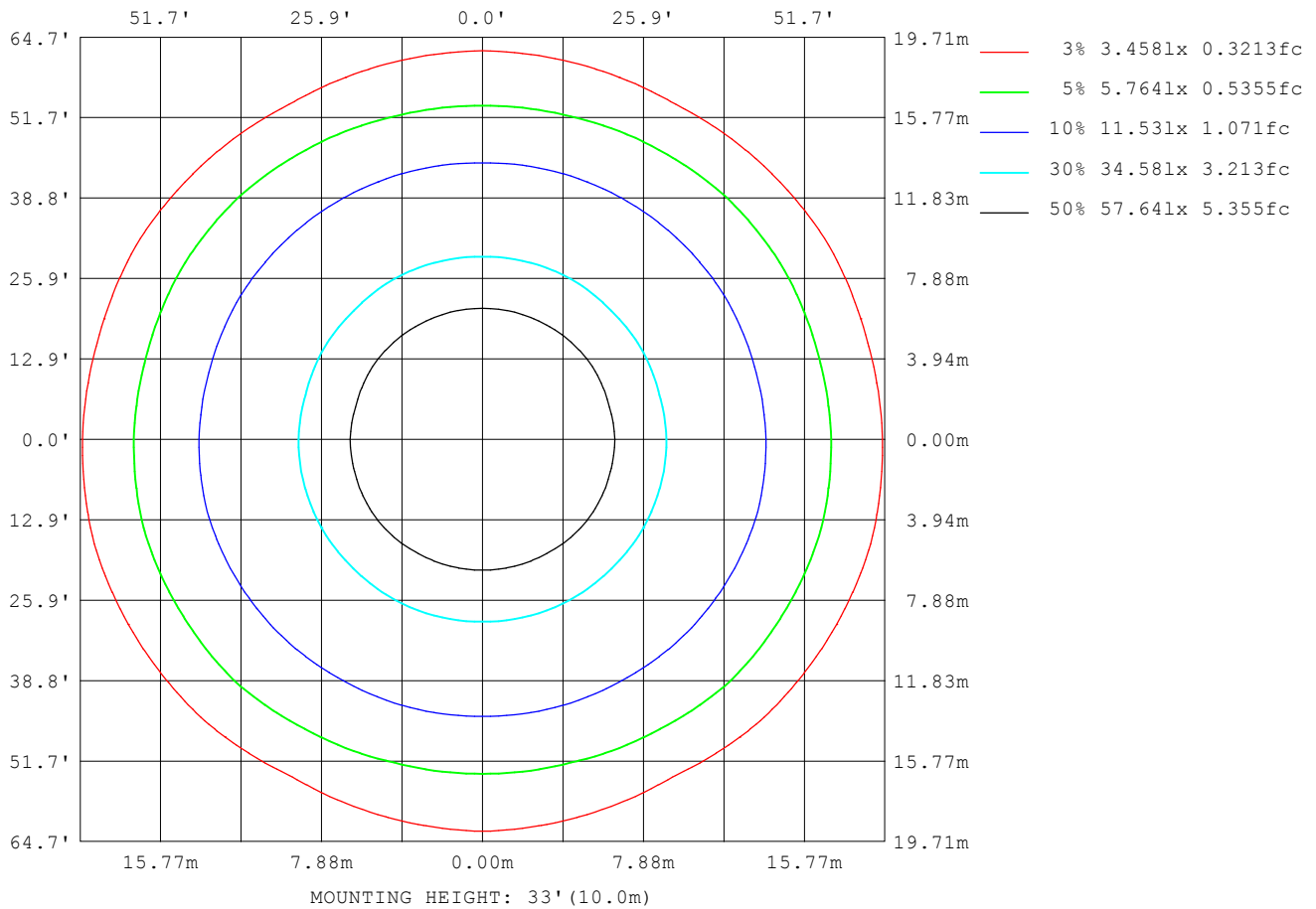
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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C Interval: 15.0DEG
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Temperature:26.6DEG
Operators:LYJ
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γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-R5000_V2 SYSTEM V2.00.426
Humidity:49.8%
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EVERFINE GONIOPHOTOMETERS SYSTEM TEST REPORT

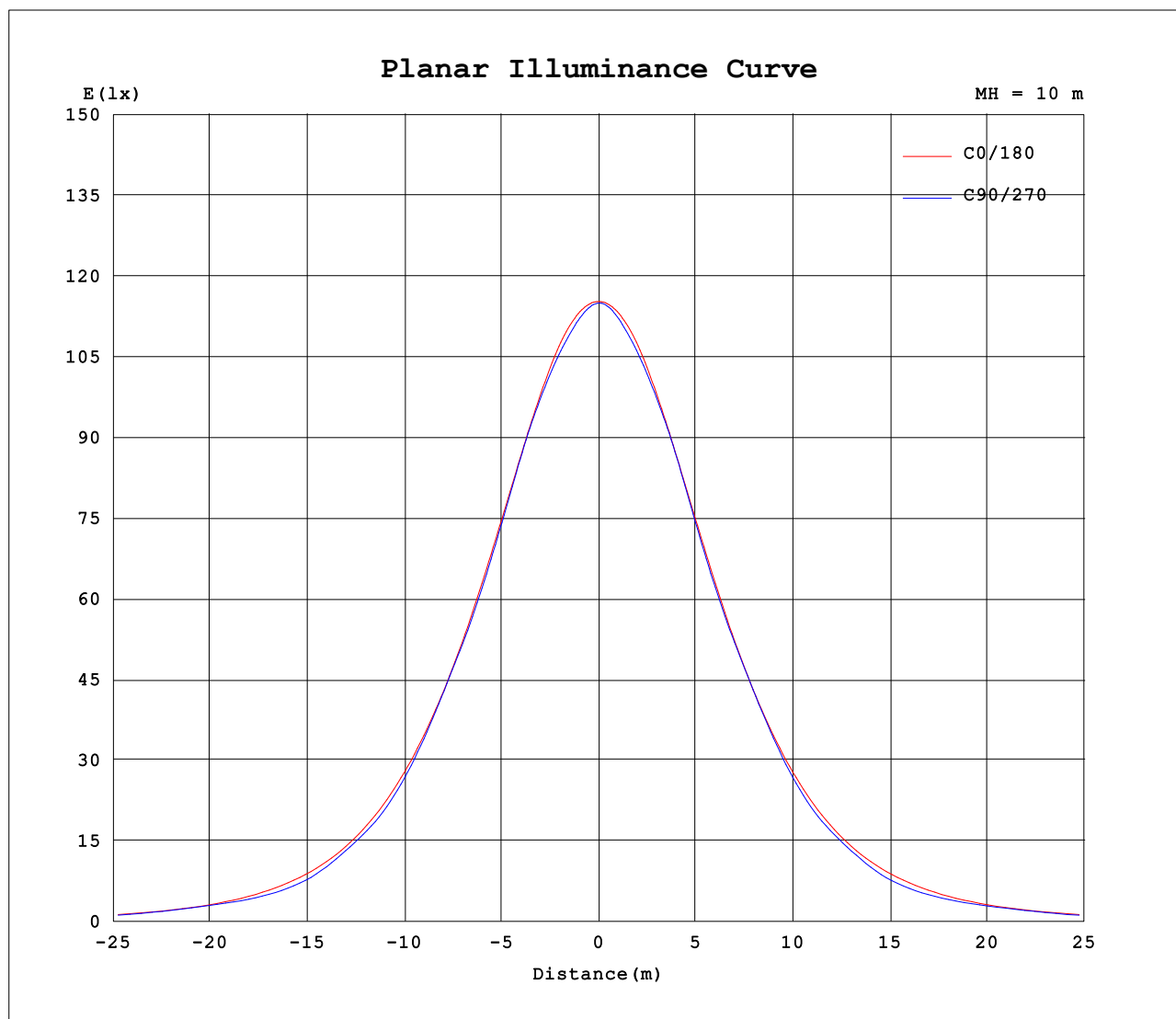
ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 26.6DEG
Operators: LYJ
Test Date: 2020-11-11

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.426
Humidity: 49.8%
Test Distance: 26.000m [K=0.4574]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
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Temperature: 26.6DEG
Operators: LYJ
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γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-R5000_V2 SYSTEM V2.00.426
Humidity: 49.8%
Test Distance: 26.000m [K=0.4574]
Remarks: