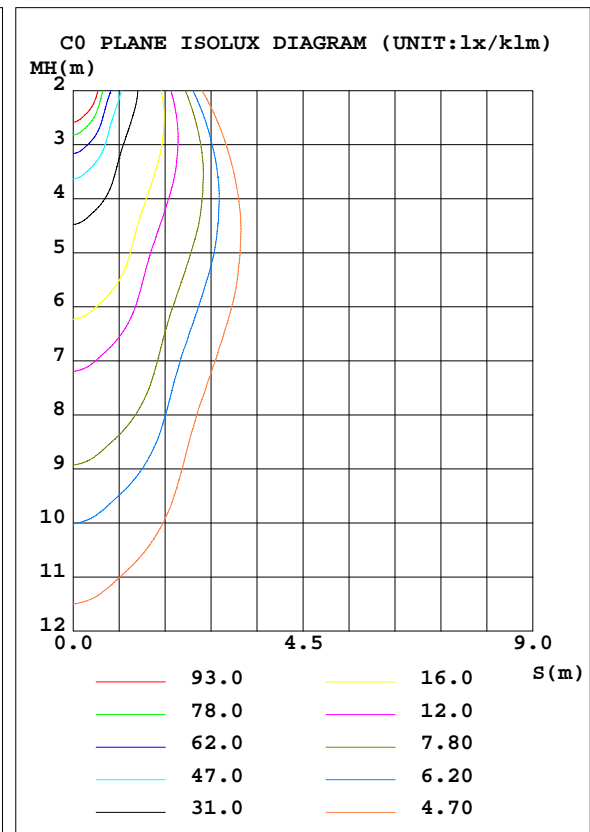
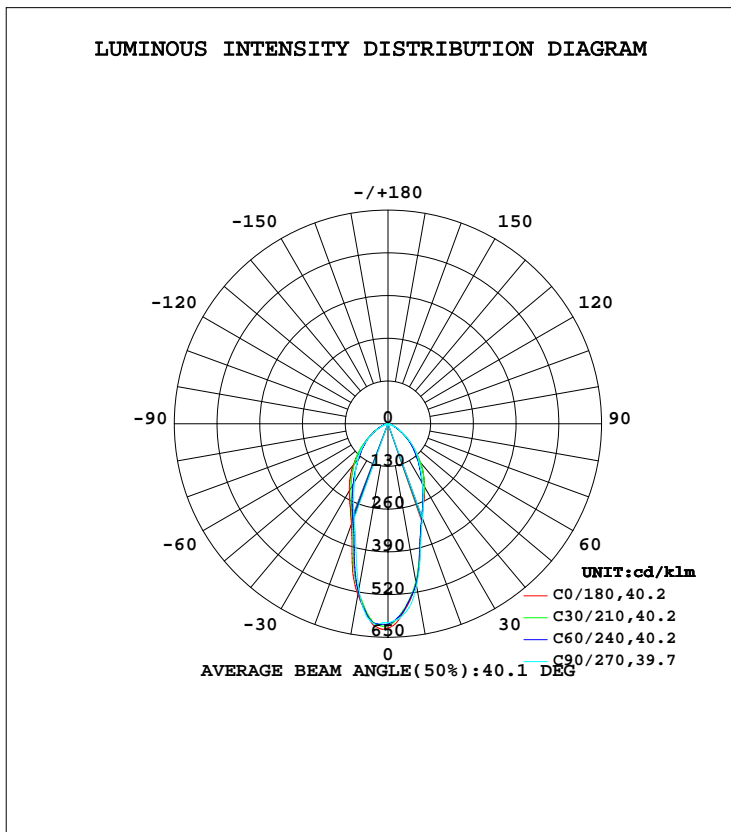


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: GU10HA-6W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL		Imax(cd/klm)	625.8	S/MH(C0/180)	0.65
NOMINAL POWER(W)	6	LOR(%)	57.8	S/MH(C90/270)	0.61
RATED VOLTAGE(V)	220.0	TOTAL FLUX(lm/klm)	578.13	η UP, DN(C0-180)	0.0,28.8
NOMINAL FLUX(lm)	1000	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,29.0
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	230.0	η down(%)	57.8	CIBSE SHR MAX	0.75



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2021-12-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
 Humidity:65.0%
 Test Distance:3.161m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

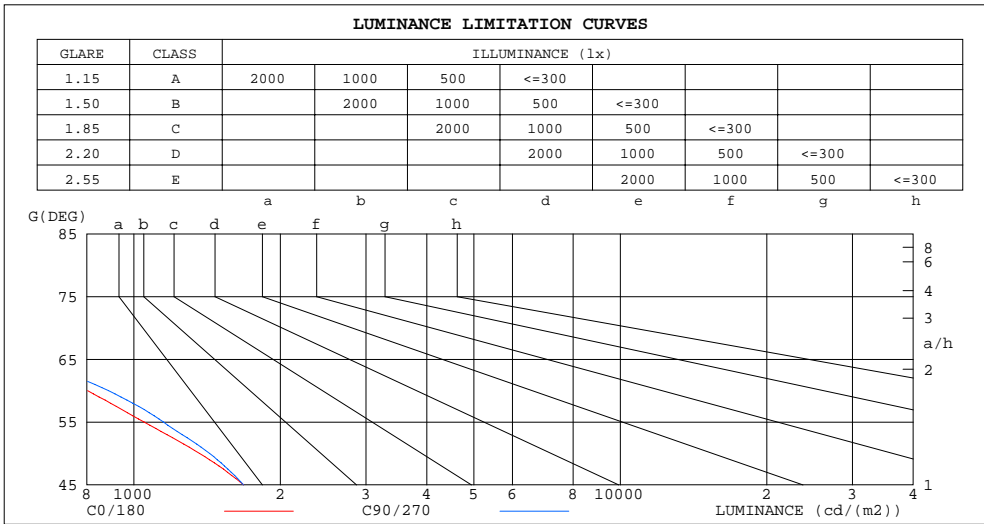
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum,lamp
10	491.4	490.8	501.1	512.2	527.6	519.4	510.7	483.4	0- 10	53.10	53.10	9.19,5.31
20	303.4	301.5	307.0	315.9	325.5	314.8	302.0	293.0	10- 20	108.9	162.0	28,16.2
30	222.9	214.7	210.6	218.3	235.1	219.0	204.7	199.0	20- 30	118.0	280.0	48.4,28
40	153.1	147.3	144.9	150.2	164.9	149.4	143.9	134.4	30- 40	112.0	392.1	67.8,39.2
50	87.68	87.19	92.00	94.27	97.27	94.00	91.98	85.39	40- 50	91.17	483.2	83.6,48.3
60	40.16	40.46	44.36	45.19	50.06	46.54	45.54	42.42	50- 60	58.78	542.0	93.8,54.2
70	12.81	13.37	13.46	15.78	17.44	16.21	13.11	13.60	60- 70	27.35	569.4	98.5,56.9
80	3.151	2.064	1.515	2.948	4.271	2.697	1.607	2.188	70- 80	7.932	577.3	99.9,57.7
90	0.0992	0.0069	0.0212	0.0113	0.2341	0.0157	0.0241	0.0098	80- 90	0.8342	578.1	100,57.8
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:cd/klm									UNIT:lm/klm		

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2021-12-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
 Humidity:65.0%
 Test Distance:3.161m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

NAME: GU10HA-6W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	115	14
80	181	87
75	254	230
70	374	394
65	560	617
60	803	887
55	1050	1151
50	1364	1431
45	1682	1680

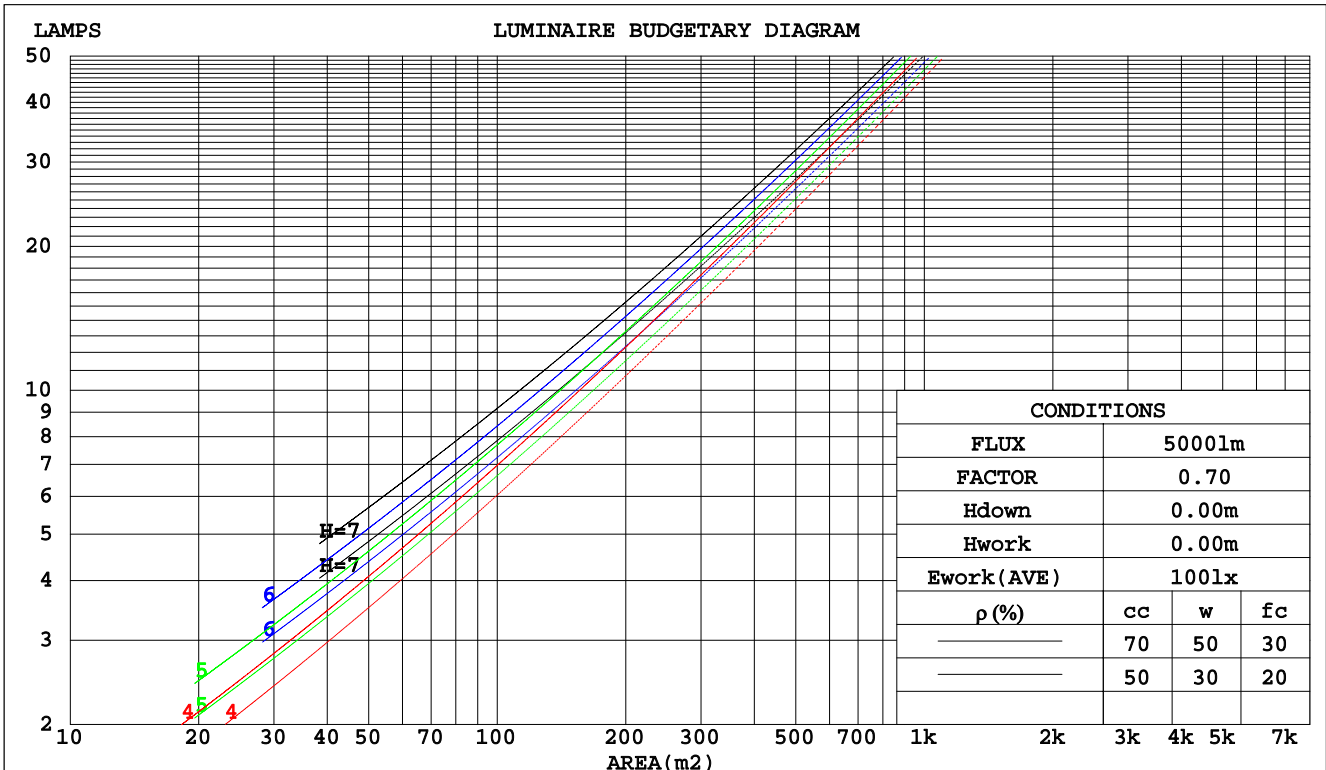
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2021-12-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
 Humidity: 65.0%
 Test Distance: 3.161m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: GU10HA-6W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																0
pfc																0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	.69	.69	.69	.67	.67	.67	.64	.64	.64	.62	.62	.62	.59	.59	.59	.58
1.0	.63	.61	.59	.61	.60	.58	.59	.58	.57	.57	.56	.55	.55	.54	.53	.52
2.0	.57	.54	.51	.56	.53	.51	.54	.52	.50	.52	.50	.49	.50	.49	.48	.47
3.0	.52	.48	.45	.51	.48	.45	.49	.46	.44	.48	.45	.43	.46	.44	.43	.42
4.0	.47	.43	.40	.47	.43	.40	.45	.42	.39	.44	.41	.39	.43	.40	.38	.37
5.0	.43	.39	.36	.43	.39	.36	.42	.38	.36	.41	.38	.35	.40	.37	.35	.34
6.0	.40	.36	.33	.39	.35	.33	.39	.35	.32	.38	.35	.32	.37	.34	.32	.31
7.0	.37	.33	.30	.37	.33	.30	.36	.32	.30	.35	.32	.29	.34	.31	.29	.28
8.0	.34	.30	.28	.34	.30	.27	.33	.30	.27	.33	.30	.27	.32	.29	.27	.26
9.0	.32	.28	.25	.32	.28	.25	.31	.28	.25	.31	.27	.25	.30	.27	.25	.24
10.0	.30	.26	.24	.30	.26	.24	.29	.26	.24	.29	.26	.23	.28	.26	.23	.23



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2021-12-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
 Humidity: 65.0%
 Test Distance: 3.161m [K=1.0000]
 Remarks:

WEC AND CCEC

NAME: GU10HA-6W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

ρcc	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	.128	.073	.023	.124	.071	.023	.117	.067	.021	.110	.064	.020	.104	.060	.019	
2.0	.125	.068	.021	.121	.067	.021	.115	.064	.020	.109	.061	.019	.104	.059	.019	
3.0	.119	.063	.019	.116	.062	.019	.110	.060	.018	.105	.058	.018	.100	.056	.017	
4.0	.112	.058	.017	.110	.057	.017	.105	.056	.017	.100	.054	.016	.096	.052	.016	
5.0	.106	.054	.016	.104	.053	.015	.099	.052	.015	.095	.050	.015	.092	.049	.015	
6.0	.100	.050	.014	.098	.049	.014	.094	.048	.014	.091	.047	.014	.087	.046	.014	
7.0	.094	.047	.013	.093	.046	.013	.089	.045	.013	.086	.044	.013	.083	.043	.013	
8.0	.089	.044	.012	.088	.043	.012	.085	.042	.012	.082	.041	.012	.079	.041	.012	
9.0	.085	.041	.011	.083	.041	.011	.080	.040	.011	.078	.039	.011	.076	.038	.011	
10.0	.080	.039	.011	.079	.038	.011	.077	.038	.011	.074	.037	.010	.072	.036	.010	

ρcc	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						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.110	.110	.110	.094	.094	.094	.064	.064	.064	.037	.037	.037	.012	.012	.012	
1.0	.101	.091	.082	.086	.078	.070	.059	.054	.049	.034	.031	.028	.011	.010	.009	
2.0	.094	.076	.062	.080	.066	.054	.055	.046	.037	.032	.026	.022	.010	.009	.007	
3.0	.088	.066	.048	.075	.057	.042	.052	.039	.029	.030	.023	.017	.010	.007	.006	
4.0	.083	.058	.038	.071	.050	.033	.049	.035	.024	.028	.020	.014	.009	.007	.005	
5.0	.078	.051	.031	.067	.044	.027	.046	.031	.019	.027	.018	.011	.009	.006	.004	
6.0	.074	.046	.026	.064	.040	.023	.044	.028	.016	.026	.016	.010	.008	.005	.003	
7.0	.071	.042	.022	.061	.036	.019	.042	.026	.014	.024	.015	.008	.008	.005	.003	
8.0	.067	.039	.019	.058	.033	.016	.040	.023	.012	.023	.014	.007	.008	.005	.002	
9.0	.064	.036	.016	.055	.031	.014	.038	.022	.010	.022	.013	.006	.007	.004	.002	
10.0	.061	.033	.015	.053	.029	.013	.037	.020	.009	.021	.012	.005	.007	.004	.002	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2021-12-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
 Humidity:65.0%
 Test Distance:3.161m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

NAME: GU10HA-6W-3000K					TYPE:					WEIGHT:				
SPEC.:					DIM.:					SERIAL No.:				
MFR.: EVERFINE					SUR.:					Shielding 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	11.9	13.1	12.1	13.2	13.4	11.9	13.1	12.1	13.3	13.4				
3H	12.1	13.2	12.3	13.4	13.6	12.1	13.2	12.4	13.4	13.7				
4H	12.0	13.1	12.3	13.3	13.6	12.1	13.2	12.4	13.4	13.6				
6H	12.0	13.0	12.3	13.2	13.5	12.0	13.0	12.4	13.3	13.5				
8H	12.0	12.9	12.3	13.2	13.4	12.0	12.9	12.3	13.2	13.5				
12H	11.9	12.8	12.3	13.1	13.4	11.9	12.8	12.3	13.1	13.4				
4H 2H	12.0	13.0	12.3	13.2	13.5	12.0	13.0	12.3	13.3	13.5				
3H	12.2	13.1	12.6	13.4	13.7	12.3	13.2	12.6	13.5	13.8				
4H	12.3	13.1	12.6	13.4	13.7	12.3	13.1	12.7	13.5	13.8				
6H	12.2	13.0	12.6	13.3	13.6	12.3	13.0	12.7	13.3	13.7				
8H	12.2	12.9	12.6	13.2	13.6	12.2	12.9	12.6	13.3	13.6				
12H	12.2	12.8	12.6	13.2	13.6	12.2	12.8	12.6	13.2	13.6				
8H 4H	12.2	12.9	12.6	13.2	13.6	12.3	12.9	12.7	13.3	13.7				
6H	12.2	12.7	12.6	13.1	13.5	12.2	12.8	12.6	13.2	13.6				
8H	12.2	12.6	12.6	13.1	13.5	12.2	12.6	12.6	13.1	13.5				
12H	12.1	12.5	12.6	13.0	13.5	12.1	12.5	12.6	13.0	13.4				
12H 4H	12.1	12.8	12.6	13.1	13.5	12.2	12.8	12.6	13.2	13.6				
6H	12.1	12.6	12.6	13.0	13.5	12.2	12.6	12.6	13.1	13.5				
8H	12.1	12.5	12.6	13.0	13.4	12.1	12.5	12.6	13.0	13.5				
Variations with the observer position at spacings:														
S = 1.0H	+ 1.0 / - 1.4					+ 0.8 / - 1.1								
1.5H	+ 0.6 / - 0.7					+ 0.4 / - 0.5								
2.0H	+ 2.0 / - 2.1					+ 1.7 / - 2.2								

CIE Pub.117, 1000 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.0)

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2021-12-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
 Humidity:65.0%
 Test Distance:3.161m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

NAME: GU10HA-6W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

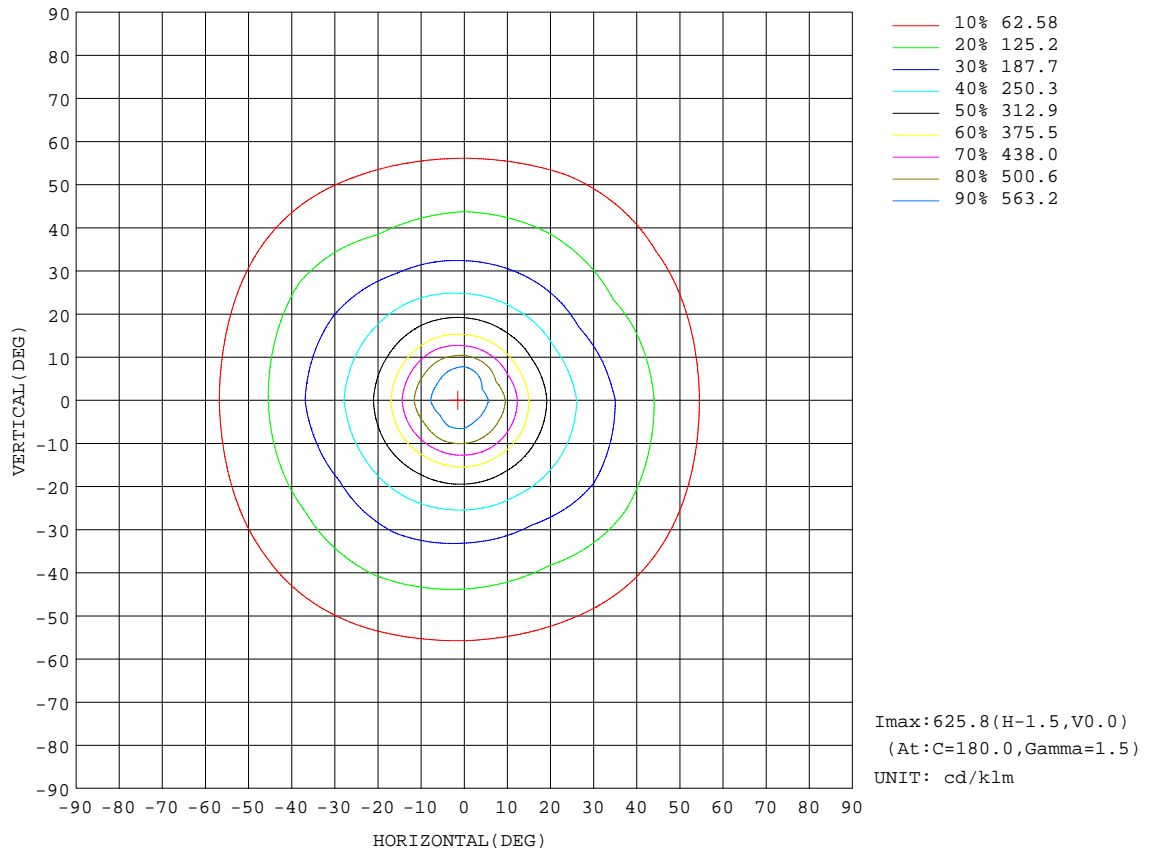
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	41	36	33	41	36	33	40	35	32	29
0.80	47	41	38	46	41	38	45	41	38	35
1.00	51	46	43	50	46	43	49	46	42	39
1.25	54	50	47	54	49	47	52	49	46	43
1.50	57	53	50	56	52	49	54	51	49	45
2.00	59	56	53	59	55	53	57	54	52	48
2.50	61	58	55	60	57	55	58	56	54	50
3.00	62	60	57	61	59	57	59	57	55	51
4.00	64	62	60	63	61	59	60	59	57	53
5.00	65	63	61	64	62	60	61	60	59	54
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: DAMIN
 Test Date: 2021-12-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
 Humidity: 65.0%
 Test Distance: 3.161m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

NAME: GU10HA-6W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

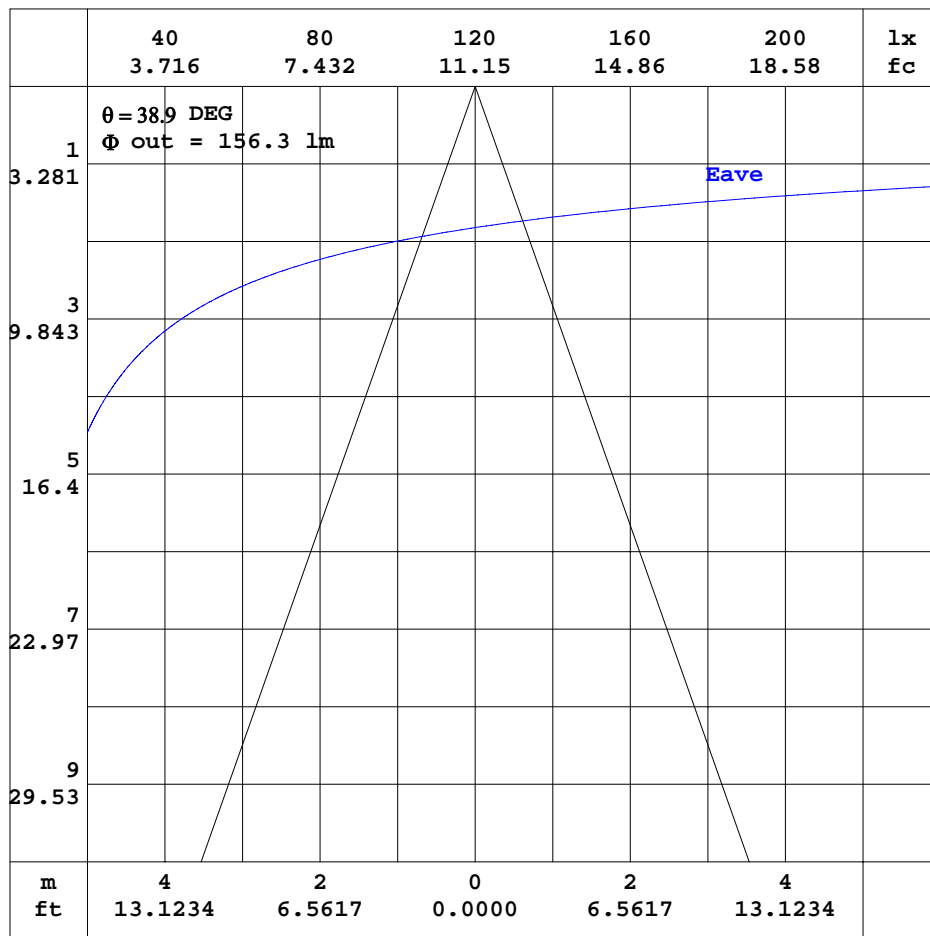


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2021-12-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
 Humidity: 65.0%
 Test Distance: 3.161m [K=1.0000]
 Remarks:

AAI CURVES

NAME: GU10HA-6W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



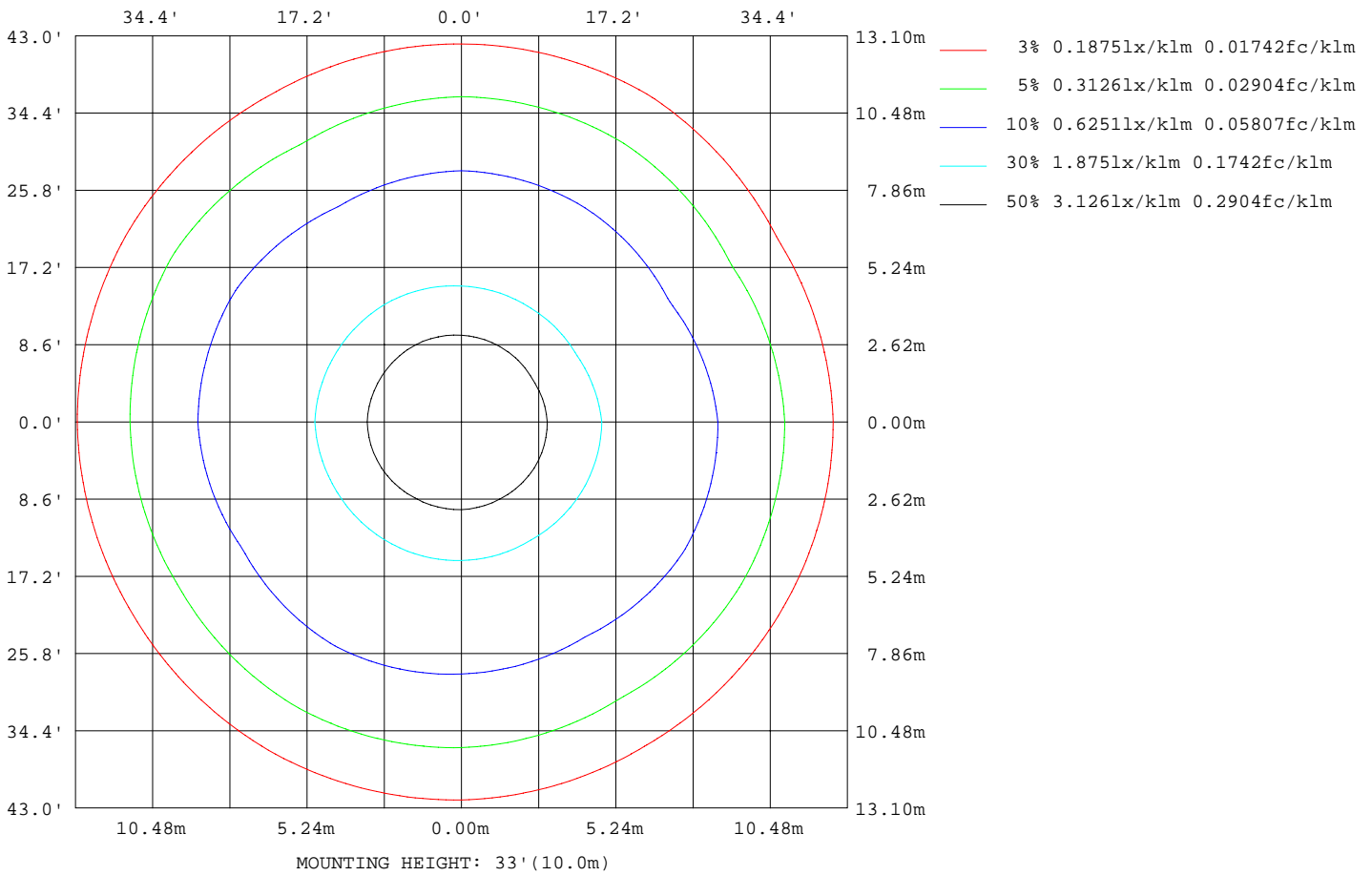
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2021-12-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
 Humidity: 65.0%
 Test Distance: 3.161m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

NAME: GU10HA-6W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2021-12-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
 Humidity: 65.0%
 Test Distance: 3.161m [K=1.0000]
 Remarks:

LED Avg.L Report

NAME: GU10HA-6W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

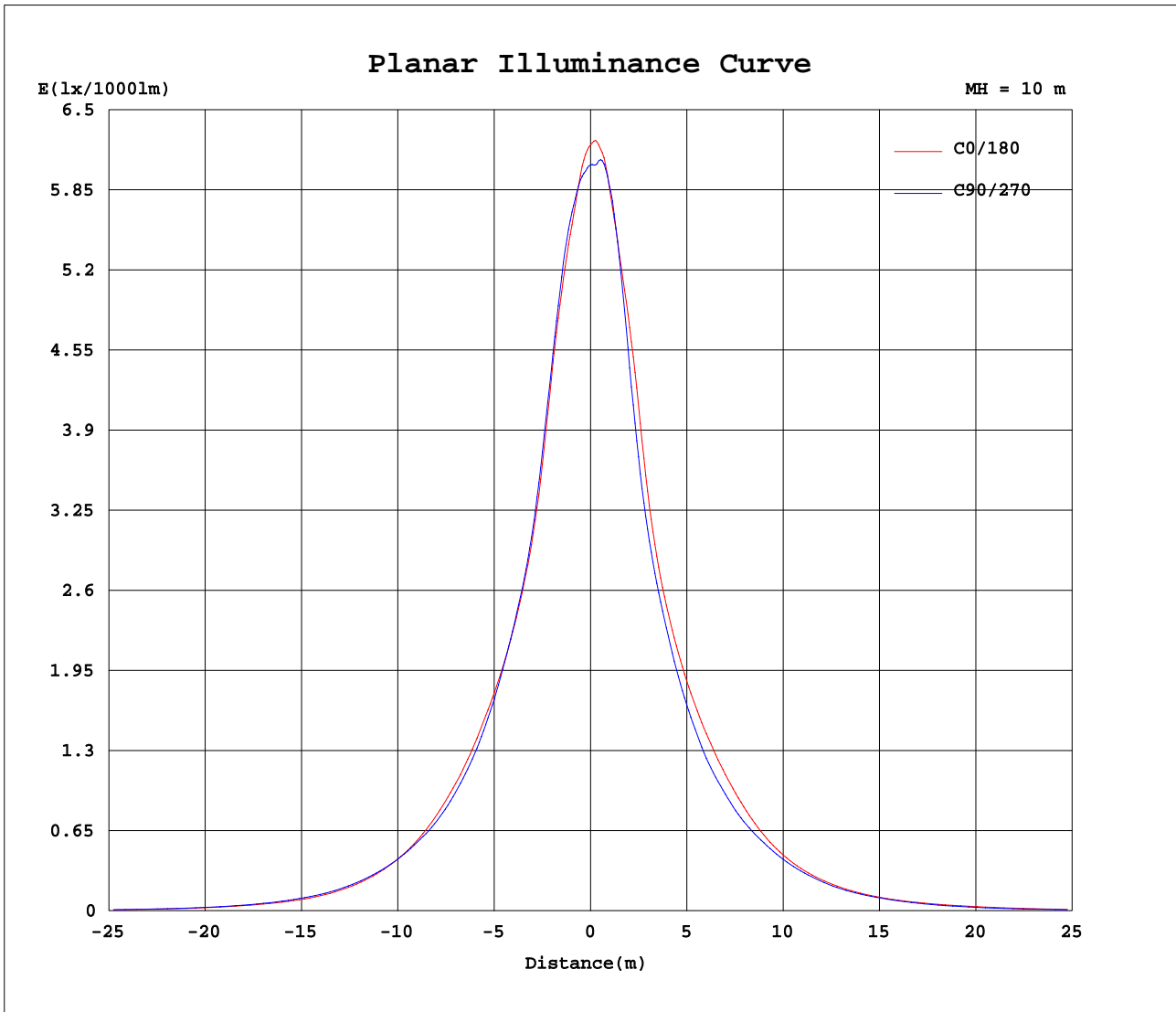
AvgL	cd/m2
L_0~180(65)av	664
L_0~180(75)av	298
L_0~180(85)av	149
L_90~270(65)av	617
L_90~270(75)av	228
L_90~270(85)av	17
L_45(65)av	635
L_45(75)av	278
L_45(85)av	38

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2021-12-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
 Humidity:65.0%
 Test Distance:3.161m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2021-12-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
 Humidity: 65.0%
 Test Distance: 3.161m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: GU10HA-6W-3000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Table--1

UNIT: cd/klm

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	621	614	610	605	602	598	621	614	610	605	602	598						
5	571	566	569	579	584	583	605	597	601	603	586	560						
10	491	488	494	501	513	512	528	520	519	511	493	474						
15	375	378	378	386	392	410	423	409	398	380	370	363						
20	303	301	302	307	312	320	326	318	312	302	293	293						
25	258	255	251	255	260	265	273	265	258	248	241	241						
30	223	221	208	211	218	219	235	226	212	205	201	197						
35	188	189	170	175	184	180	201	191	173	172	166	159						
40	153	154	140	145	153	147	165	159	140	144	139	130						
45	119	120	110	119	124	119	128	129	112	118	114	104						
50	87.7	87.5	86.9	92.0	94.5	94.1	97.3	98.5	89.5	92.0	89.4	81.4						
55	60.2	60.4	62.0	66.0	67.9	67.1	70.6	69.2	67.4	67.2	66.4	58.2						
60	40.2	40.5	40.4	44.4	45.7	44.7	50.1	46.9	46.2	45.5	44.7	40.1						
65	23.7	24.1	25.2	26.1	27.2	28.6	32.4	29.2	29.9	26.1	25.2	25.7						
70	12.8	12.8	14.0	13.5	14.5	17.0	17.4	15.9	16.5	13.1	12.9	14.3						
75	6.57	6.33	6.40	5.96	6.85	9.04	8.87	8.07	7.63	5.84	5.86	7.07						
80	3.15	2.46	1.67	1.52	2.06	3.83	4.27	3.36	2.04	1.61	1.67	2.71						
85	1.01	0.37	0.13	0.12	0.26	0.70	1.59	0.64	0.28	0.18	0.18	0.42						
90	0.10	0.00	0.01	0.02	0.01	0.01	0.23	0.01	0.02	0.02	0.01	0.01						

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2021-12-10

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
 Humidity: 65.0%
 Test Distance: 3.161m [K=1.0000]
 Remarks: