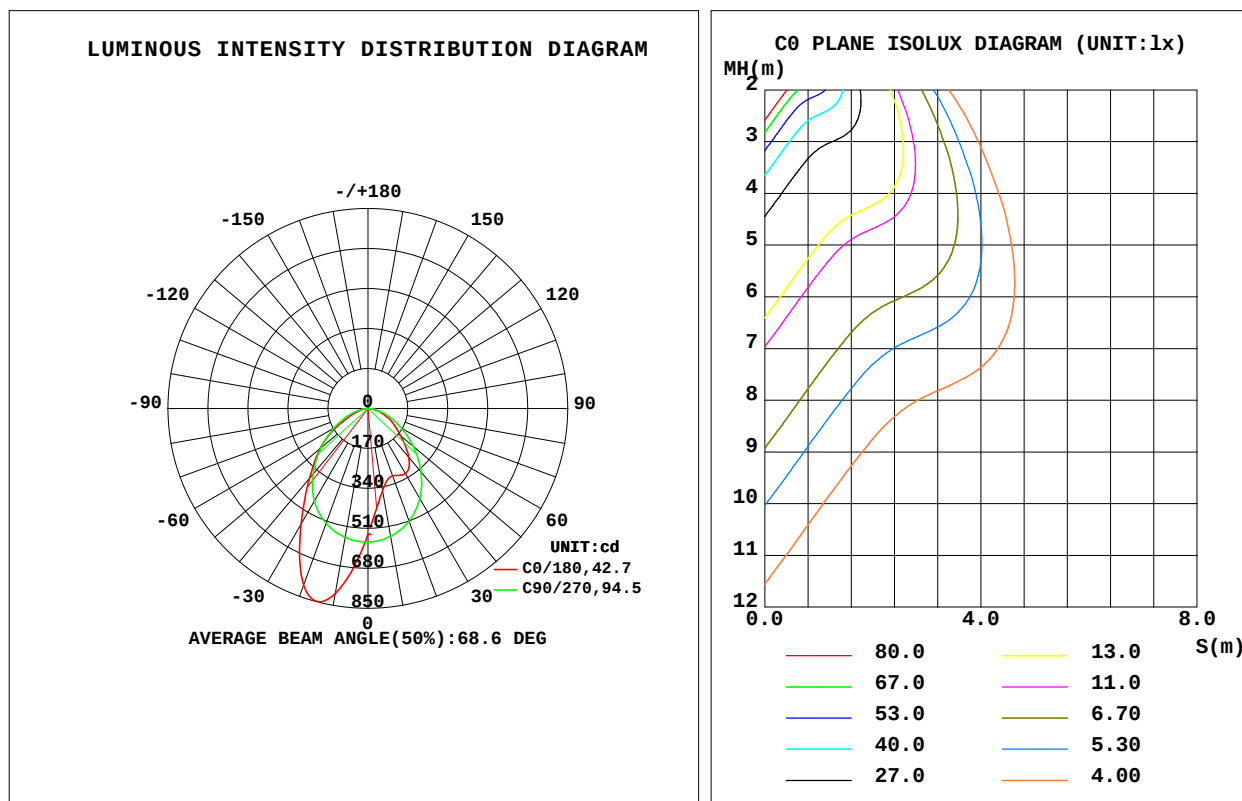


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:48.00V I:0.2800A P:13.40W PF:1.000 Freq:0Hz Lamp Flux:1300.35x1 lm		
NAME: VUTH20LA600	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:23*600mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 97.04 lm/W			
MODEL		I _{max} (cd)	848.8	S/MH(C0/180)	0.63
NOMINAL POWER(W)	13.4	LOR(%)	100.0	S/MH(C90/270)	1.20
RATED VOLTAGE(V)	48	TOTAL FLUX(lm)	1300.4	h UP, DN(C0-180)	0.0,47.2
NOMINAL FLUX(lm)	1300.35	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.0,52.8
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	48	h down(%)	100.0	CIBSE SHR MAX	1.00



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JYH
Test Date: 2022-12-14

Range: 0 - 180DEG
Interval: 1.0DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 10.950m [K=1.0000]
Remarks:



ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

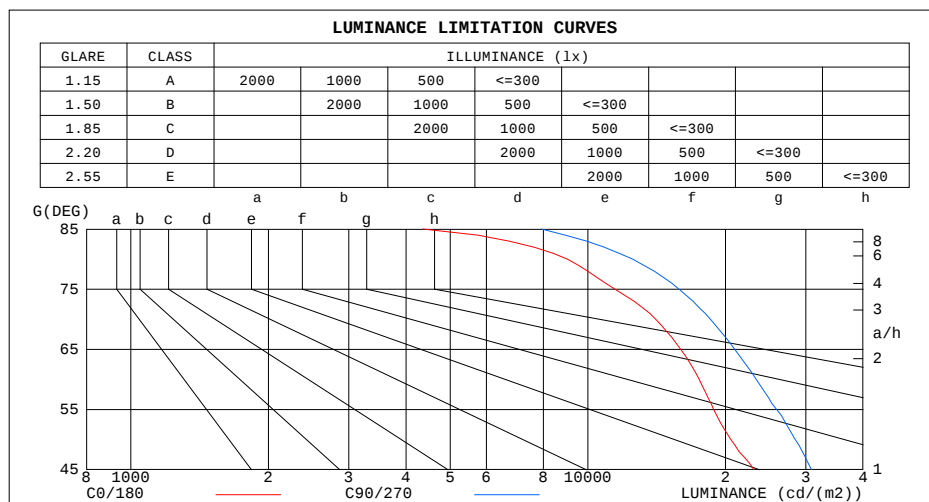
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum, lamp
10	357.2	400.1	551.8	744.7	797.7	745.4	557.0	402.4	0- 10	53.86	53.86	4.14, 4.14
20	305.7	308.6	509.5	799.4	799.7	798.5	520.2	309.6	10- 20	159.3	213.1	16.4, 16.4
30	319.7	275.1	441.3	679.3	569.8	669.3	455.8	269.6	20- 30	232.2	445.3	34.2, 34.2
40	269.8	258.3	350.9	506.8	386.1	493.1	363.2	251.4	30- 40	256.9	702.3	54, 54
50	182.3	205.6	252.2	332.7	266.8	323.0	261.6	203.7	40- 50	236.4	938.7	72.2, 72.2
60	121.0	137.4	161.2	193.7	150.7	187.3	167.4	138.2	50- 60	182.3	1121	86.2, 86.2
70	66.48	79.05	87.50	91.76	64.59	89.67	91.06	80.60	60- 70	115.9	1237	95.1, 95.1
80	21.63	26.17	30.05	22.25	15.84	23.40	32.91	28.75	70- 80	54.20	1291	99.3, 99.3
90	0	0	0	0	0	0	0	0	80- 90	9.287	1300	100, 100
100	0	0	0	0	0	0	0	0	90-100	0	1300	100, 100
110	0	0	0	0	0	0	0	0	100-110	0	1300	100, 100
120	0	0	0	0	0	0	0	0	110-120	0	1300	100, 100
130	0	0	0	0	0	0	0	0	120-130	0	1300	100, 100
140	0	0	0	0	0	0	0	0	130-140	0	1300	100, 100
150	0	0	0	0	0	0	0	0	140-150	0	1300	100, 100
160	0	0	0	0	0	0	0	0	150-160	0	1300	100, 100
170	0	0	0	0	0	0	0	0	160-170	0	1300	100, 100
180	0	0	0	0	0	0	0	0	170-180	0	1300	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2022-12-14

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:48.00V I:0.2800A P:13.40W PF:1.000 Freq:0Hz Lamp Flux:1300.35x1 lm		
NAME: VUTH20LA600	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:23*600mm	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	4361	7917
80	9027	12542
75	11480	15851
70	14085	18538
65	15971	20972
60	17532	23368
55	18856	25919
50	20557	28435
45	23110	30887

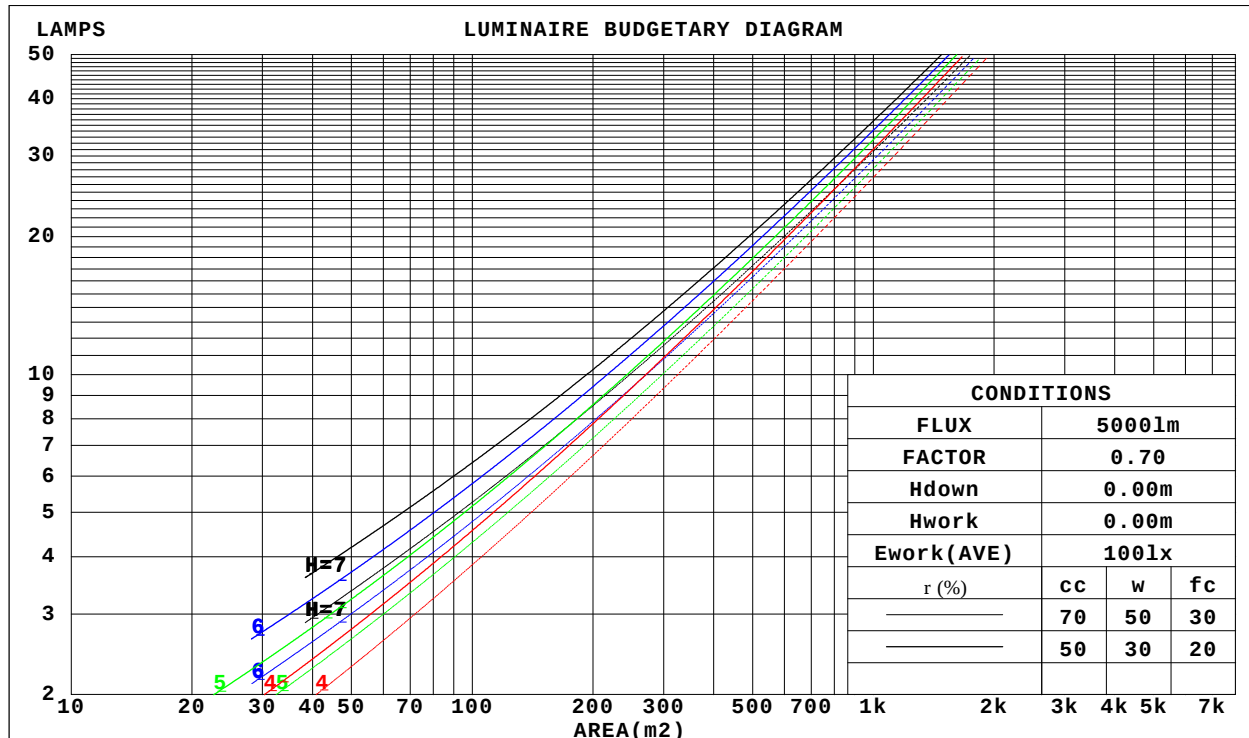
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JYH
Test Date: 2022-12-14

Range: 0 - 180DEG
Interval: 1.0DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 10.950m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:48.00V I:0.2800A P:13.40W PF:1.000 Freq:0Hz Lamp Flux:1300.35x1 lm		
NAME: VUTH20LA600	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:23*600mm	Shielding Angle:

r _{CC}	80%			70%			50%			30%			10%			0
r _W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r _{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	1.00
1.0	1.06	1.02	.99	1.04	1.00	.97	.90	.97	.94	.96	.93	.91	.92	.90	.89	.87
2.0	.94	.88	.83	.92	.86	.82	.89	.84	.80	.85	.81	.78	.82	.79	.76	.74
3.0	.84	.76	.70	.82	.75	.70	.79	.73	.68	.76	.71	.67	.74	.70	.66	.64
4.0	.75	.67	.61	.73	.66	.60	.71	.65	.59	.69	.63	.59	.67	.62	.58	.56
5.0	.67	.59	.53	.66	.58	.53	.64	.57	.52	.62	.56	.52	.61	.55	.51	.49
6.0	.61	.53	.47	.60	.52	.47	.58	.51	.46	.57	.51	.46	.55	.50	.45	.43
7.0	.56	.47	.42	.55	.47	.42	.53	.46	.41	.52	.46	.41	.51	.45	.41	.39
8.0	.51	.43	.38	.50	.43	.37	.49	.42	.37	.48	.42	.37	.47	.41	.37	.35
9.0	.47	.39	.34	.47	.39	.34	.45	.39	.34	.44	.38	.34	.43	.38	.33	.32
10.0	.44	.36	.31	.43	.36	.31	.42	.35	.31	.41	.35	.31	.40	.35	.31	.29



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2022-12-14

g Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:



WEC AND CCEC

Test:U:48.00V I:0.2800A P:13.40W PF:1.000 Freq:0Hz Lamp Flux:1300.35x1 lm					
NAME: VUTH20LA600			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.:			SUR.:23*600mm		Shielding Angle:

r _{cc}	80%			70%			50%			30%			10%			0
r _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.269	.153	.048	.262	.149	.047	.249	.143	.046	.237	.137	.044	.226	.131	.042	
2.0	.259	.142	.044	.253	.139	.043	.241	.134	.042	.231	.129	.041	.221	.125	.039	
3.0	.243	.130	.039	.238	.127	.038	.228	.124	.038	.219	.120	.037	.210	.116	.036	
4.0	.227	.118	.035	.223	.117	.034	.214	.113	.034	.206	.110	.033	.198	.108	.033	
5.0	.212	.108	.031	.208	.107	.031	.200	.104	.031	.193	.102	.030	.186	.100	.030	
6.0	.199	.100	.029	.195	.098	.028	.188	.096	.028	.181	.094	.028	.175	.092	.027	
7.0	.186	.092	.026	.183	.091	.026	.177	.089	.026	.171	.088	.025	.165	.086	.025	
8.0	.175	.086	.024	.172	.085	.024	.166	.083	.024	.161	.082	.024	.156	.080	.023	
9.0	.165	.080	.022	.162	.079	.022	.157	.078	.022	.152	.076	.022	.148	.075	.022	
10.0	.156	.075	.021	.153	.074	.021	.149	.073	.021	.144	.072	.020	.140	.071	.020	

r _{CC}	80%			70%			50%			30%			10%			0
r _W	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r _{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	.177	.156	.138	.152	.134	.118	.104	.092	.082	.060	.053	.048	.019	.017	.015	
2.0	.168	.132	.102	.144	.114	.088	.099	.079	.061	.057	.046	.036	.018	.015	.012	
3.0	.159	.114	.078	.137	.098	.068	.094	.068	.047	.054	.040	.028	.017	.013	.009	
4.0	.151	.101	.062	.130	.087	.053	.089	.061	.038	.052	.035	.022	.017	.012	.007	
5.0	.144	.090	.050	.124	.078	.043	.085	.054	.031	.049	.032	.018	.016	.010	.006	
6.0	.137	.081	.041	.118	.070	.036	.081	.049	.025	.047	.029	.015	.015	.009	.005	
7.0	.131	.074	.035	.112	.064	.030	.078	.045	.022	.045	.027	.013	.015	.009	.004	
8.0	.125	.069	.030	.107	.059	.026	.074	.042	.019	.043	.025	.011	.014	.008	.004	
9.0	.119	.064	.026	.102	.055	.023	.071	.039	.016	.041	.023	.010	.013	.008	.003	
10.0	.113	.059	.023	.098	.052	.020	.068	.036	.014	.040	.021	.009	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2022-12-14

g Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:48.00V I:0.2800A P:13.40W PF:1.000 Freq:0Hz Lamp Flux:1300.35x1 lm											
NAME: VUTH20LA600					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.:					SUR.:23*600mm			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	21.1	22.5	21.4	22.7	22.9	22.3	23.7	22.6	23.9	24.1	
	3H	22.2	23.5	22.5	23.7	23.9	23.5	24.8	23.8	25.0	25.2
	4H	22.6	23.8	22.9	24.0	24.3	23.9	25.1	24.2	25.4	25.6
	6H	22.7	23.9	23.1	24.2	24.4	24.1	25.3	24.5	25.6	25.8
	8H	22.8	23.9	23.1	24.2	24.4	24.2	25.3	24.5	25.6	25.9
	12H	22.8	23.8	23.1	24.1	24.4	24.2	25.3	24.5	25.5	25.8
4H	2H	21.7	22.9	22.0	23.2	23.4	22.7	23.9	23.0	24.1	24.4
	3H	23.0	24.1	23.3	24.4	24.7	24.0	25.1	24.4	25.4	25.7
	4H	23.5	24.4	23.8	24.7	25.1	24.6	25.5	24.9	25.9	26.2
	6H	23.7	24.6	24.1	24.9	25.3	24.9	25.8	25.3	26.1	26.5
	8H	23.8	24.6	24.2	24.9	25.3	25.0	25.8	25.4	26.2	26.5
	12H	23.8	24.5	24.2	24.9	25.3	25.0	25.8	25.5	26.1	26.5
8H	4H	23.7	24.5	24.1	24.8	25.2	24.7	25.5	25.1	25.9	26.2
	6H	24.1	24.7	24.5	25.1	25.5	25.1	25.8	25.6	26.2	26.6
	8H	24.2	24.7	24.6	25.2	25.6	25.3	25.8	25.7	26.3	26.7
	12H	24.2	24.7	24.7	25.1	25.6	25.3	25.8	25.8	26.3	26.7
12H	4H	23.7	24.4	24.1	24.8	25.2	24.7	25.4	25.1	25.8	26.2
	6H	24.1	24.7	24.5	25.1	25.5	25.1	25.7	25.6	26.1	26.6
	8H	24.2	24.7	24.7	25.2	25.6	25.3	25.8	25.8	26.2	26.7
Variations with the observer position at spacings:											
S = 1.0H	+ 0.3 / - 0.4					+ 0.2 / - 0.3					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.3 / - 0.6					+ 0.6 / - 0.6					

CIE Pub.117, 1300 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 0.9$)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2022-12-14

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.950m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:48.00V I:0.2800A P:13.40W PF:1.000 Freq:0Hz Lamp Flux:1300.35x1 lm		
NAME: VUTH20LA600	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:23*600mm	Shielding Angle:

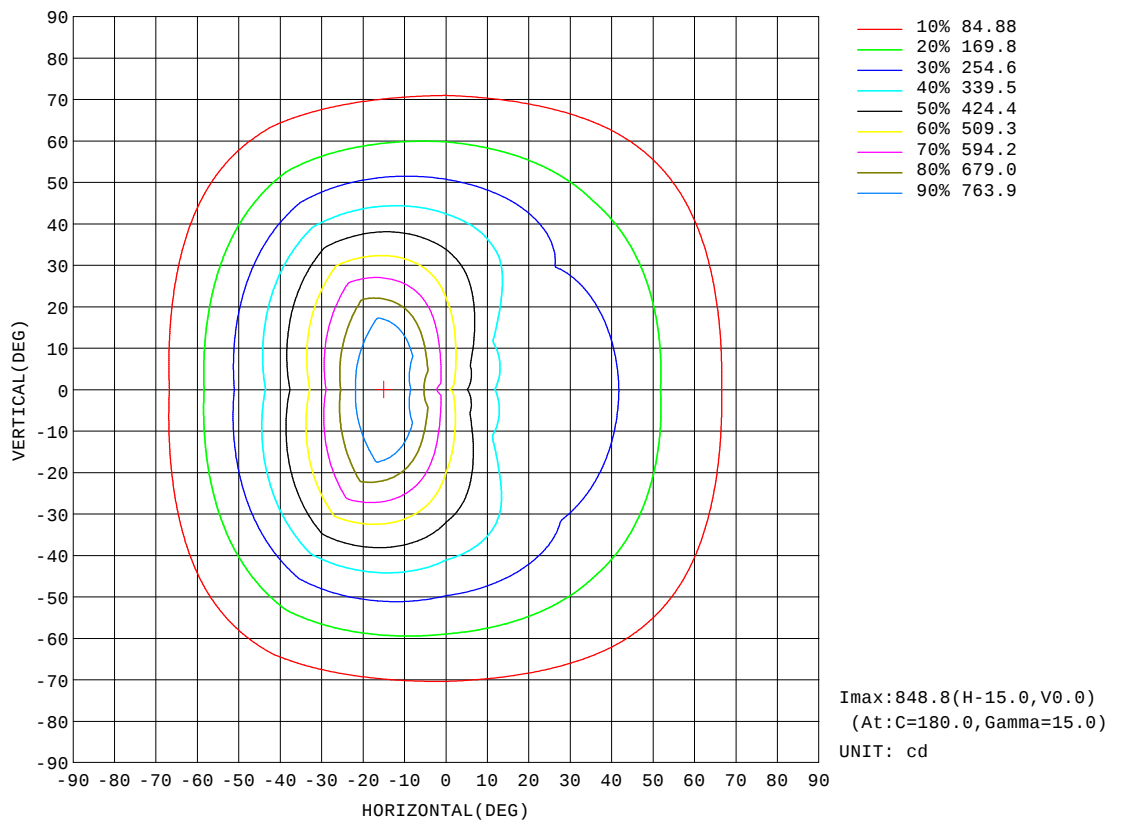
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	63	52	46	62	52	46	61	51	46	40
0.80	73	62	56	72	62	56	70	61	55	49
1.00	81	71	65	80	71	64	78	72	64	57
1.25	88	79	72	86	78	72	84	76	71	64
1.50	92	84	78	91	83	77	88	81	76	69
2.00	99	91	86	97	90	85	93	88	83	76
2.50	102	95	90	100	94	89	96	91	87	79
3.00	105	99	94	103	97	93	99	95	91	83
4.00	108	103	99	106	102	98	102	98	95	87
5.00	110	106	103	108	104	101	104	101	98	89
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2022-12-14

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.950m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:48.00V I:0.2800A P:13.40W PF:1.000 Freq:0Hz Lamp Flux:1300.35x1 lm		
NAME: VUTH20LA600	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:23*600mm	Shielding Angle:



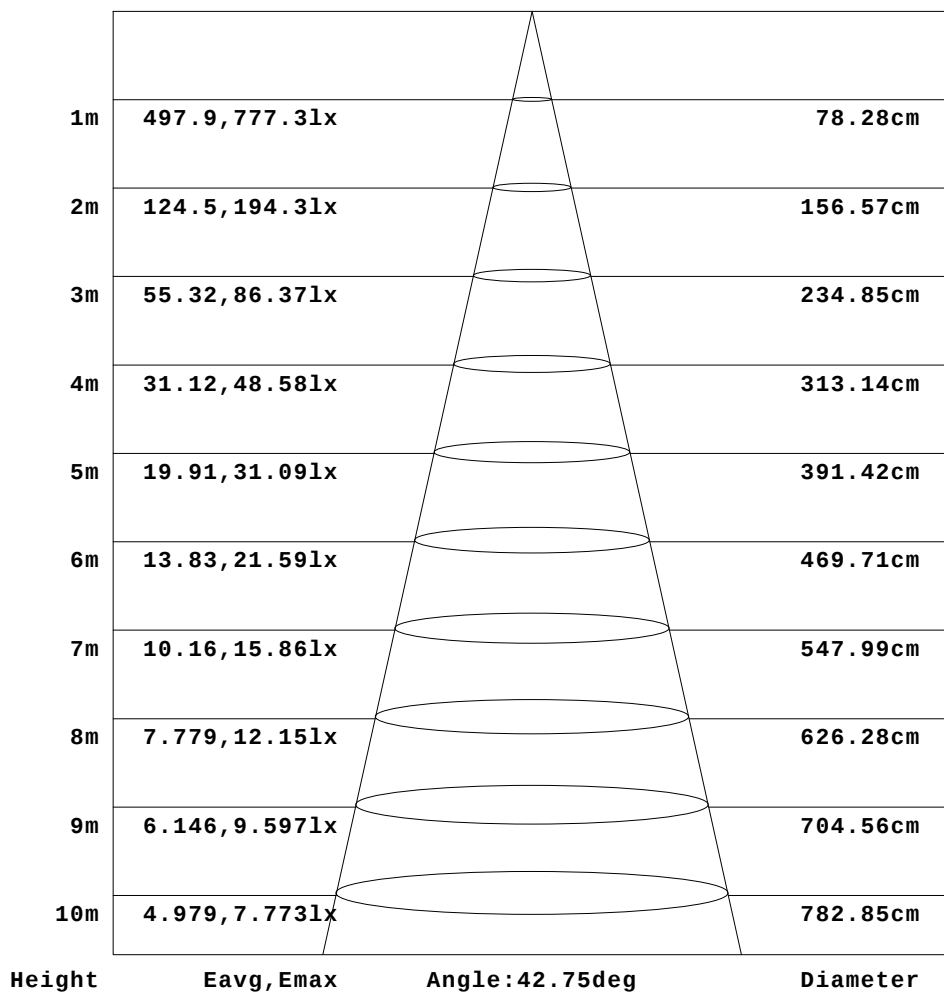
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JYH
Test Date: 2022-12-14

Range: 0 - 180DEG
Interval: 1.0DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 10.950m [K=1.0000]
Remarks:

AAI Figure

Test:U:48.00V I:0.2800A P:13.40W PF:1.000 Freq:0Hz Lamp Flux:1300.35x1 lm		
NAME: VUTH20LA600	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:23*600mm	Shielding Angle:

Flux out:255.3 lm



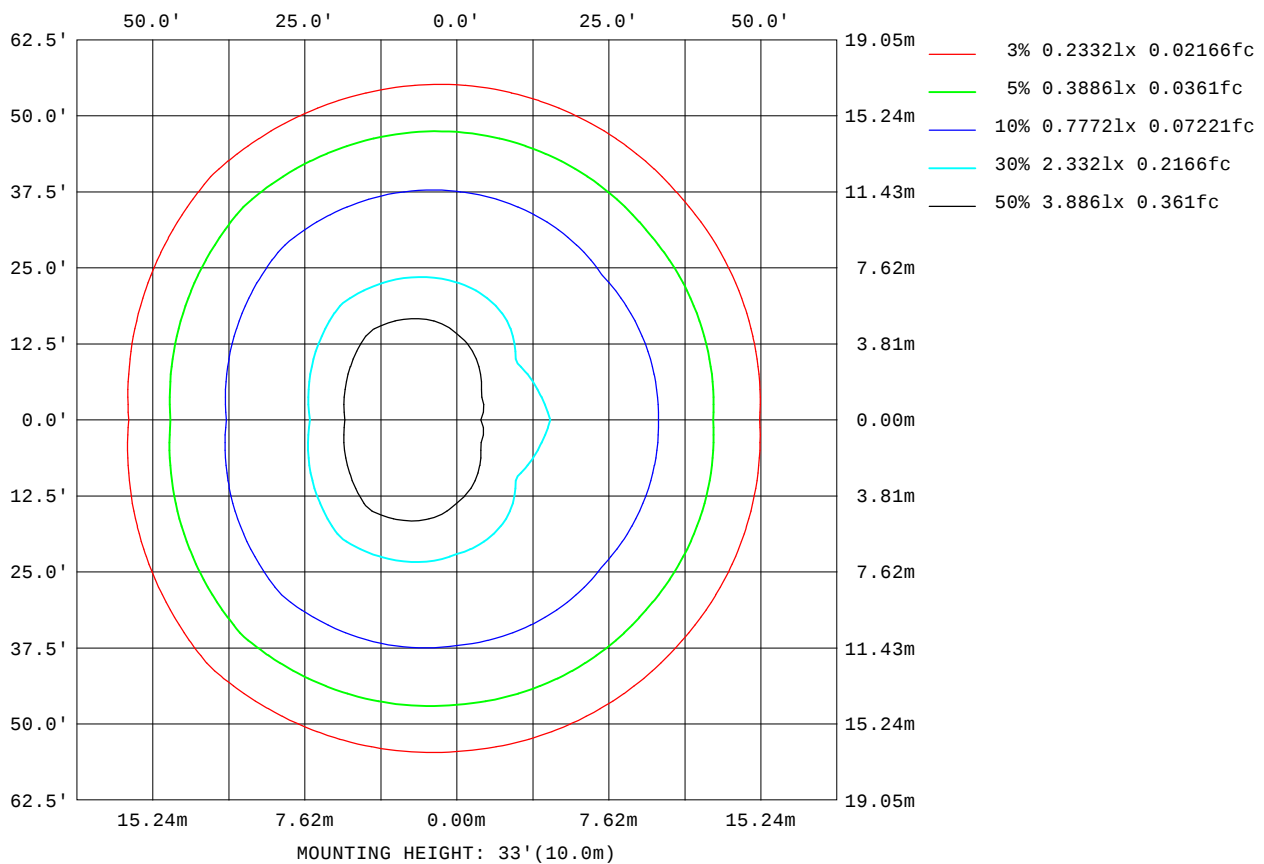
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2022-12-14

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:48.00V I:0.2800A P:13.40W PF:1.000 Freq:0Hz Lamp Flux:1300.35x1 lm		
NAME: VUTH20LA600	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:23*600mm	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2022-12-14

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.950m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:48.00V I:0.2800A P:13.40W PF:1.000 Freq:0Hz Lamp Flux:1300.35x1 lm		
NAME: VUTH20LA600	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:23*600mm	Shielding Angle:

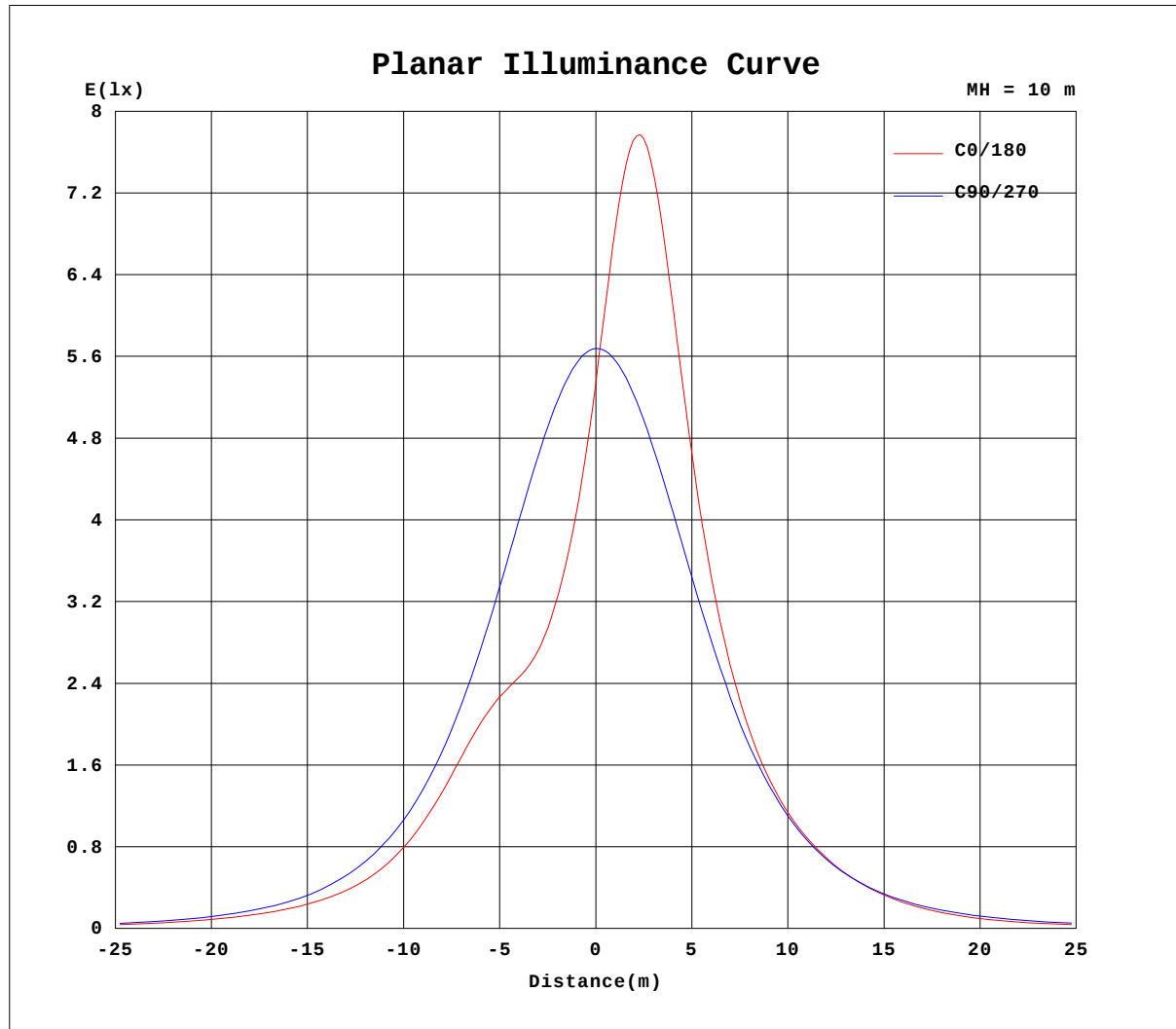
AvgL	cd/m2
L_0~180(65)av	16407
L_0~180(75)av	11113
L_0~180(85)av	2405
L_90~270(65)av	21354
L_90~270(75)av	16304
L_90~270(85)av	8756
L_45(65)av	20971
L_45(75)av	14587
L_45(85)av	4770

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2022-12-14

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: JYH
 Test Date: 2022-12-14

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 10.950m [K=1.0000]
 Remarks:



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:48.00V I:0.2800A P:13.40W PF:1.000 Freq:0Hz Lamp Flux:1300.35x1 lm		
NAME: VUTH20LA600	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:23*600mm	Shielding Angle:

Table--1

UNIT: cd

C(DEG) g (DEG)	0	45	90	135	180	225	270	315									
0	535	559	568	561	535	559	568	561									
5	427	470	563	659	673	658	566	473									
10	357	400	552	745	798	745	557	402									
15	317	347	534	797	849	799	542	349									
20	306	309	509	799	800	799	520	310									
25	314	286	478	753	689	748	492	284									
30	320	275	441	679	570	669	456	270									
35	306	269	398	595	469	583	412	262									
40	270	258	351	507	386	493	363	251									
45	226	237	301	418	322	405	312	233									
50	182	206	252	333	267	323	262	204									
55	149	171	205	259	209	251	213	171									
60	121	137	161	194	151	187	167	138									
65	93.1	107	122	139	98.2	135	127	108									
70	66.5	79.1	87.5	91.8	64.6	89.7	91.1	80.6									
75	41.0	51.0	56.6	51.8	38.4	51.6	59.9	53.9									
80	21.6	26.2	30.1	22.2	15.8	23.4	32.9	28.8									
85	5.25	8.73	9.52	1.86	0.54	2.03	11.5	10.3									
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00									
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00									

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