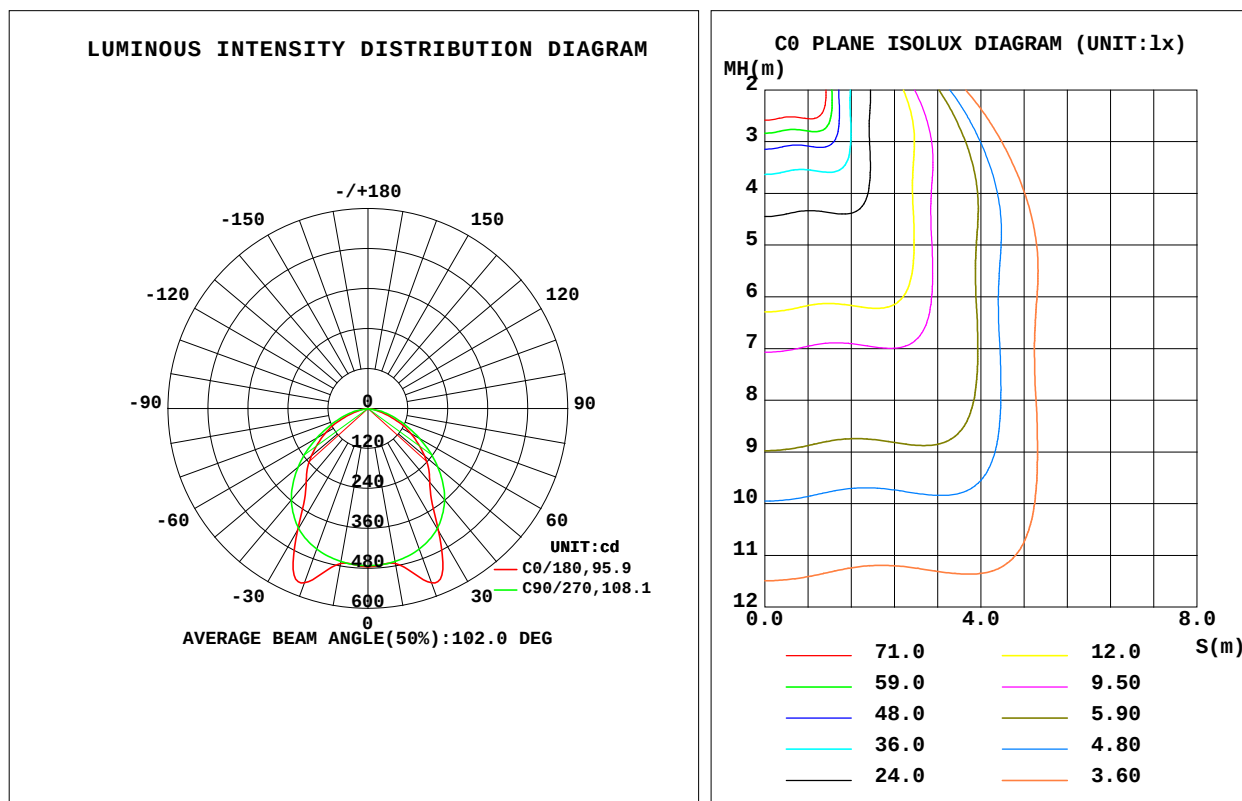


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:48.00V I:0.2500A P:12.00W PF:1.000 Freq:0Hz Lamp Flux:1252.02x1 lm		
NAME: VOM40LS600	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:23*600mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 101.97 lm/W			
MODEL		I _{max} (cd)	560.7	S/MH(C0/180)	1.24
NOMINAL POWER(W)	12	LOR(%)	97.7	S/MH(C90/270)	1.30
RATED VOLTAGE(V)	48	TOTAL FLUX(lm)	1223.6	h UP, DN(C0-180)	0.0,48.9
NOMINAL FLUX(lm)	1252.02	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.0,48.9
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	48	h down(%)	97.7	CIBSE SHR MAX	1.35



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

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:

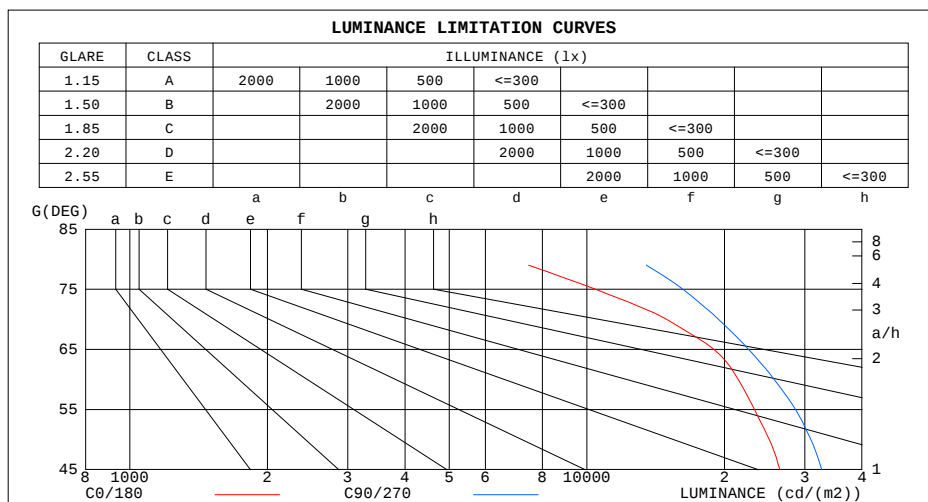
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum, lamp
10	472.6	466.1	466.3	466.1	472.6	466.1	466.3	466.1	0- 10	44.76	44.76	3.66, 3.57
20	556.5	489.9	449.2	489.9	556.5	489.9	449.2	489.9	10- 20	136.4	181.2	14.8, 14.5
30	423.2	495.9	416.4	495.9	423.2	495.9	416.4	495.9	20- 30	225.6	406.8	33.2, 32.5
40	288.7	362.2	357.7	362.2	288.7	362.2	357.7	362.2	30- 40	249.9	656.7	53.7, 52.5
50	222.4	238.1	274.2	238.1	222.4	238.1	274.2	238.1	40- 50	224.9	881.6	72.1, 70.4
60	147.9	147.8	177.4	147.8	147.9	147.8	177.4	147.8	50- 60	177.1	1059	86.5, 84.6
70	70.59	77.08	91.62	77.08	70.59	77.08	91.62	77.08	60- 70	114.7	1173	95.9, 93.7
80	0	0	0	0	0	0	0	0	70- 80	50.12	1224	100, 97.7
90	0	0	0	0	0	0	0	0	80- 90	0	1224	100, 97.7
100	0	0	0	0	0	0	0	0	90-100	0	1224	100, 97.7
110	0	0	0	0	0	0	0	0	100-110	0	1224	100, 97.7
120	0	0	0	0	0	0	0	0	110-120	0	1224	100, 97.7
130	0	0	0	0	0	0	0	0	120-130	0	1224	100, 97.7
140	0	0	0	0	0	0	0	0	130-140	0	1224	100, 97.7
150	0	0	0	0	0	0	0	0	140-150	0	1224	100, 97.7
160	0	0	0	0	0	0	0	0	150-160	0	1224	100, 97.7
170	0	0	0	0	0	0	0	0	160-170	0	1224	100, 97.7
180	0	0	0	0	0	0	0	0	170-180	0	1224	100, 97.7
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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

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:0.2500A P:12.00W PF:1.000 Freq:0Hz Lamp Flux:1252.02x1 lm		
NAME: VOM40LS600	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:23*600mm	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	0	0
80	0	0
75	10440	16220
70	14956	19412
65	18975	22594
60	21438	25709
55	23272	28604
50	25073	30914
45	26447	32671

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

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:

```

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:0.2500A P:12.00W PF:1.000 Freq:0Hz Lamp Flux:1252.02x1 lm		
NAME: VOM40LS600	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	.258	.147	.046	.251	.143	.046	.238	.137	.044	.227	.131	.042	.216	.125	.040															
2.0	.252	.138	.042	.246	.135	.042	.235	.131	.041	.224	.126	.039	.215	.122	.038															
3.0	.238	.127	.038	.233	.125	.038	.223	.121	.037	.214	.117	.036	.206	.114	.035															
4.0	.223	.116	.034	.219	.114	.034	.210	.111	.033	.202	.108	.033	.194	.106	.032															
5.0	.209	.106	.031	.205	.105	.031	.197	.103	.030	.190	.100	.030	.183	.098	.029															
6.0	.195	.098	.028	.192	.097	.028	.185	.095	.028	.179	.093	.027	.173	.091	.027															
7.0	.183	.091	.026	.180	.090	.026	.174	.088	.025	.168	.086	.025	.163	.085	.025															
8.0	.172	.084	.024	.169	.083	.024	.164	.082	.023	.159	.080	.023	.154	.079	.023															
9.0	.162	.079	.022	.160	.078	.022	.155	.077	.022	.150	.075	.022	.146	.074	.021															
10.0	.153	.074	.020	.151	.073	.020	.147	.072	.020	.142	.071	.020	.138	.070	.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	.186	.186	.186	.159	.159	.159	.109	.109	.109	.062	.062	.062	.020	.020	.020	
1.0	.173	.153	.135	.148	.131	.116	.101	.090	.080	.058	.052	.047	.019	.017	.015	
2.0	.164	.129	.100	.140	.111	.086	.096	.077	.060	.055	.045	.035	.018	.014	.011	
3.0	.156	.112	.076	.134	.096	.066	.092	.067	.046	.053	.039	.027	.017	.013	.009	
4.0	.148	.098	.060	.127	.085	.052	.087	.059	.037	.051	.035	.022	.016	.011	.007	
5.0	.141	.088	.049	.121	.076	.042	.084	.053	.030	.048	.031	.018	.016	.010	.006	
6.0	.134	.080	.040	.116	.069	.035	.080	.048	.025	.046	.028	.015	.015	.009	.005	
7.0	.128	.073	.034	.110	.063	.030	.076	.044	.021	.044	.026	.012	.014	.009	.004	
8.0	.122	.067	.029	.105	.058	.025	.073	.041	.018	.042	.024	.011	.014	.008	.004	
9.0	.117	.062	.026	.100	.054	.022	.070	.038	.016	.041	.022	.009	.013	.007	.003	
10.0	.111	.058	.023	.096	.050	.020	.067	.036	.014	.039	.021	.008	.013	.007	.003	

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

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:0.2500A P:12.00W PF:1.000 Freq:0Hz Lamp Flux:1252.02x1 lm											
NAME: VOM40LS600					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	2H	22.6	24.0	22.9	24.2	24.4	23.4	24.8	23.6	25.0	25.2
	3H	23.5	24.8	23.8	25.1	25.3	24.4	25.7	24.7	25.9	26.2
	4H	23.7	25.0	24.0	25.2	25.5	24.8	26.0	25.1	26.2	26.5
	6H	23.8	24.9	24.1	25.2	25.5	24.9	26.1	25.3	26.4	26.6
	8H	23.7	24.8	24.1	25.1	25.4	24.9	26.0	25.2	26.3	26.6
	12H	23.7	24.7	24.0	25.0	25.3	24.8	25.9	25.2	26.2	26.5
4H	2H	23.1	24.3	23.4	24.5	24.8	23.7	24.9	24.0	25.2	25.4
	3H	24.1	25.2	24.5	25.5	25.8	24.9	26.0	25.2	26.2	26.5
	4H	24.4	25.4	24.8	25.7	26.0	25.3	26.3	25.7	26.6	27.0
	6H	24.5	25.4	24.9	25.7	26.1	25.6	26.5	26.0	26.8	27.2
	8H	24.5	25.3	24.9	25.6	26.0	25.6	26.3	26.0	26.7	27.1
	12H	24.4	25.2	24.9	25.5	25.9	25.5	26.2	25.9	26.6	27.0
8H	4H	24.6	25.4	25.0	25.7	26.1	25.4	26.2	25.8	26.6	27.0
	6H	24.7	25.4	25.1	25.8	26.2	25.7	26.4	26.1	26.8	27.2
	8H	24.7	25.2	25.1	25.7	26.1	25.7	26.2	26.1	26.7	27.1
	12H	24.6	25.1	25.1	25.6	26.0	25.6	26.1	26.1	26.6	27.0
12H	4H	24.5	25.3	25.0	25.7	26.1	25.4	26.1	25.8	26.5	26.9
	6H	24.7	25.3	25.1	25.7	26.1	25.7	26.2	26.1	26.7	27.1
	8H	24.6	25.1	25.1	25.6	26.0	25.6	26.1	26.1	26.6	27.0
Variations with the observer position at spacings:											
S = 1.0H	+ 0.5 / - 0.5					+ 0.4 / - 0.5					
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.4					
2.0H	+ 0.5 / - 0.5					+ 0.6 / - 0.6					

CIE Pub.117, 1252 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 0.8$)

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

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:0.2500A P:12.00W PF:1.000 Freq:0Hz Lamp Flux:1252.02x1 lm		
NAME: VOM40LS600	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:23*600mm	Shielding Angle:

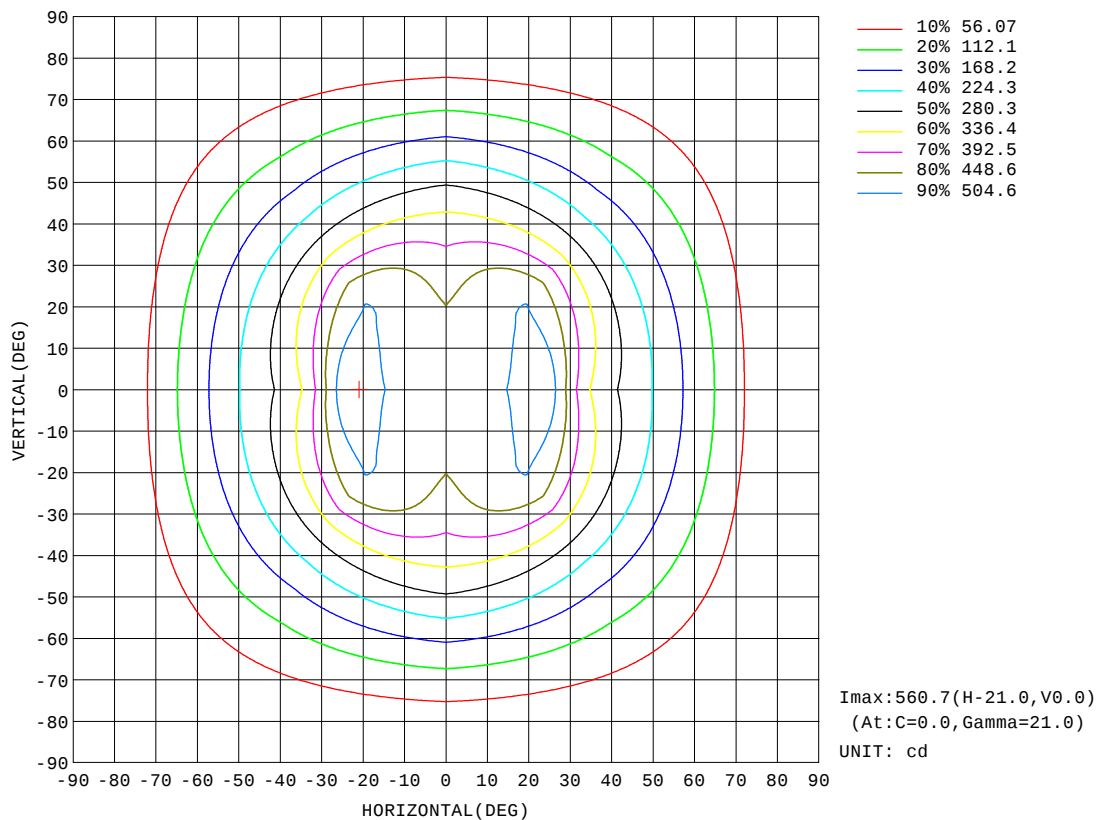
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	61	51	44	61	51	44	59	50	44	38
0.80	71	61	54	70	60	54	69	60	54	48
1.00	79	69	63	78	69	63	76	70	62	56
1.25	86	77	71	84	76	70	82	75	69	63
1.50	90	82	76	89	81	75	86	79	74	68
2.00	96	89	84	95	88	83	92	86	82	75
2.50	100	93	88	98	92	87	94	89	85	78
3.00	103	97	92	101	95	91	97	93	89	81
4.00	106	101	98	104	100	96	100	96	94	85
5.00	108	104	101	106	102	99	102	99	96	88
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:2022-12-12

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:0.2500A P:12.00W PF:1.000 Freq:0Hz Lamp Flux:1252.02x1 lm		
NAME: VOM40LS600	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:23*600mm	Shielding Angle:



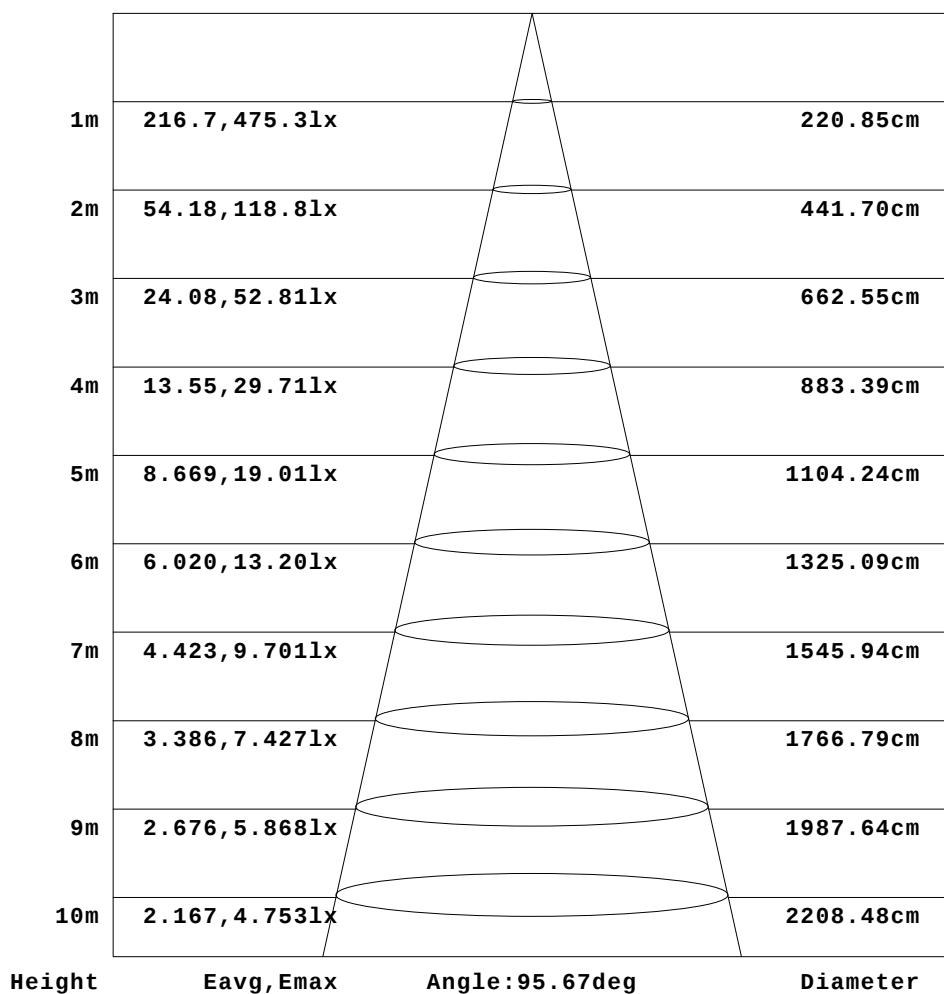
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2022-12-12

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:0.2500A P:12.00W PF:1.000 Freq:0Hz Lamp Flux:1252.02x1 lm		
NAME: VOM40LS600	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:23*600mm	Shielding Angle:

Flux out:839.8 lm



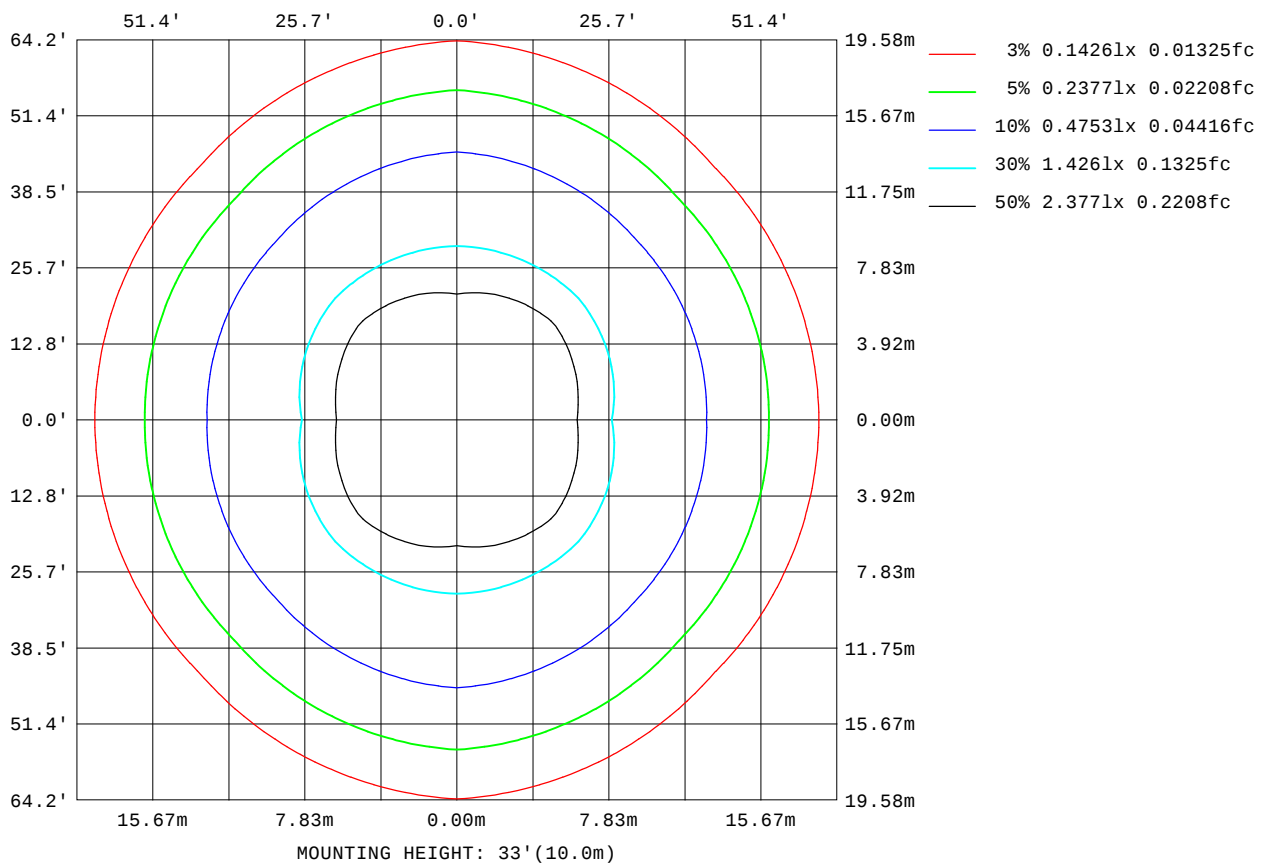
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

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:0.2500A P:12.00W PF:1.000 Freq:0Hz Lamp Flux:1252.02x1 lm		
NAME: VOM40LS600	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:2022-12-12

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:0.2500A P:12.00W PF:1.000 Freq:0Hz Lamp Flux:1252.02x1 lm		
NAME: VOM40LS600	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:23*600mm	Shielding Angle:

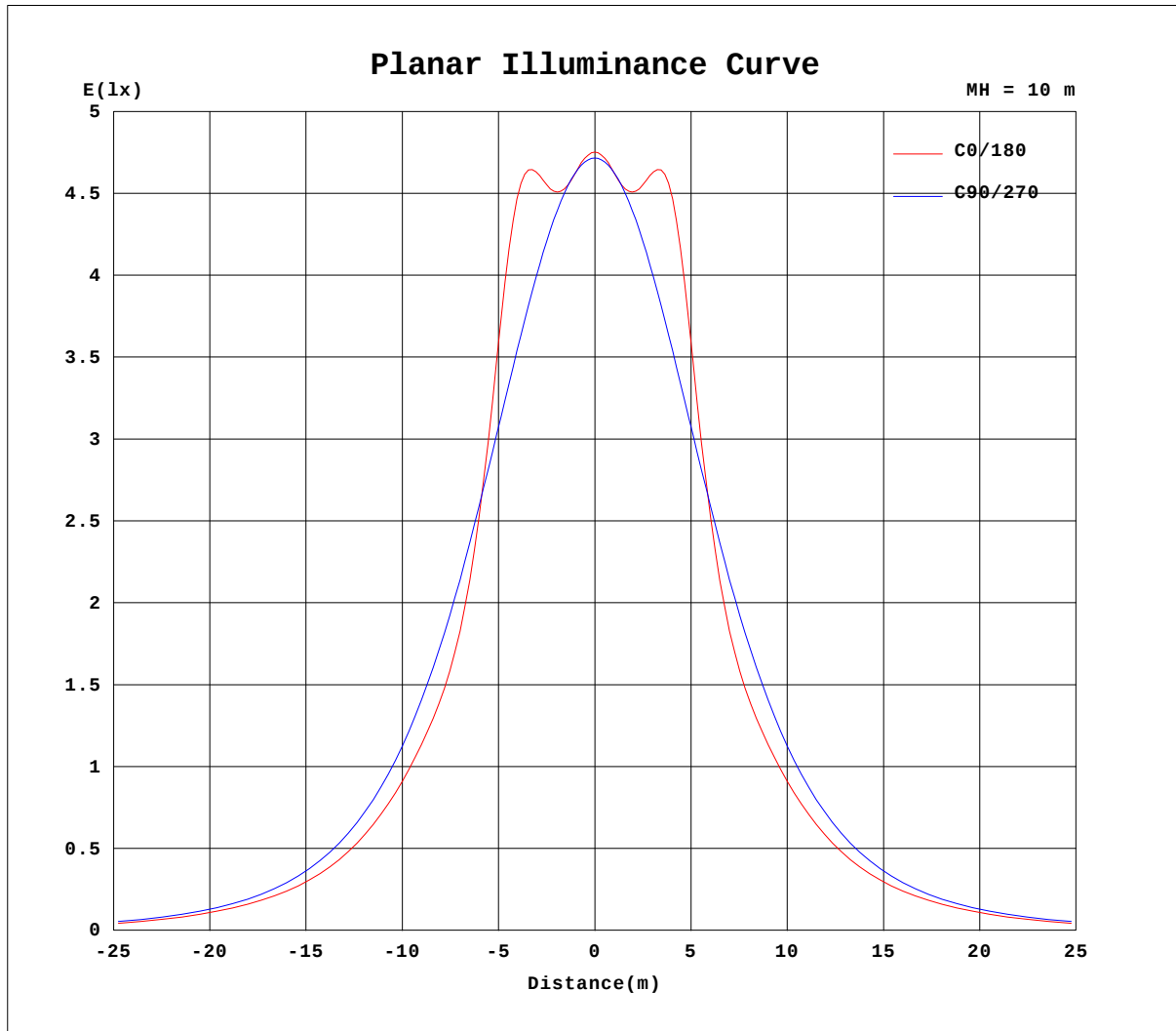
AvgL	cd/m2
L_0~180(65)av	18975
L_0~180(75)av	10440
L_0~180(85)av	0
L_90~270(65)av	22594
L_90~270(75)av	16220
L_90~270(85)av	0
L_45(65)av	18885
L_45(75)av	13291
L_45(85)av	0

Standard: GB/T 29293-2012

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

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: 2022-12-12

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:0.2500A P:12.00W PF:1.000 Freq:0Hz Lamp Flux:1252.02x1 lm		
NAME: VOM40LS600	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:23*600mm	Shielding Angle:

Table--1

UNIT: cd

C(DEC) g (DEC)	0	45	90	135	180	225	270	315										
0	475	472	472	472	475	472	472	472										
5	471	469	470	469	471	469	470	469										
10	473	466	466	466	473	466	466	466										
15	508	472	459	472	508	472	459	472										
20	556	490	449	490	556	490	449	490										
25	532	506	435	506	532	506	435	506										
30	423	496	416	496	423	496	416	496										
35	333	438	390	438	333	438	390	438										
40	289	362	358	362	289	362	358	362										
45	258	294	319	294	258	294	319	294										
50	222	238	274	238	222	238	274	238										
55	184	190	226	190	184	190	226	190										
60	148	148	177	148	148	148	177	148										
65	111	110	132	110	111	110	132	110										
70	70.6	77.1	91.6	77.1	70.6	77.1	91.6	77.1										
75	37.3	47.5	57.9	47.5	37.3	47.5	57.9	47.5										
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00										
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										

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

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