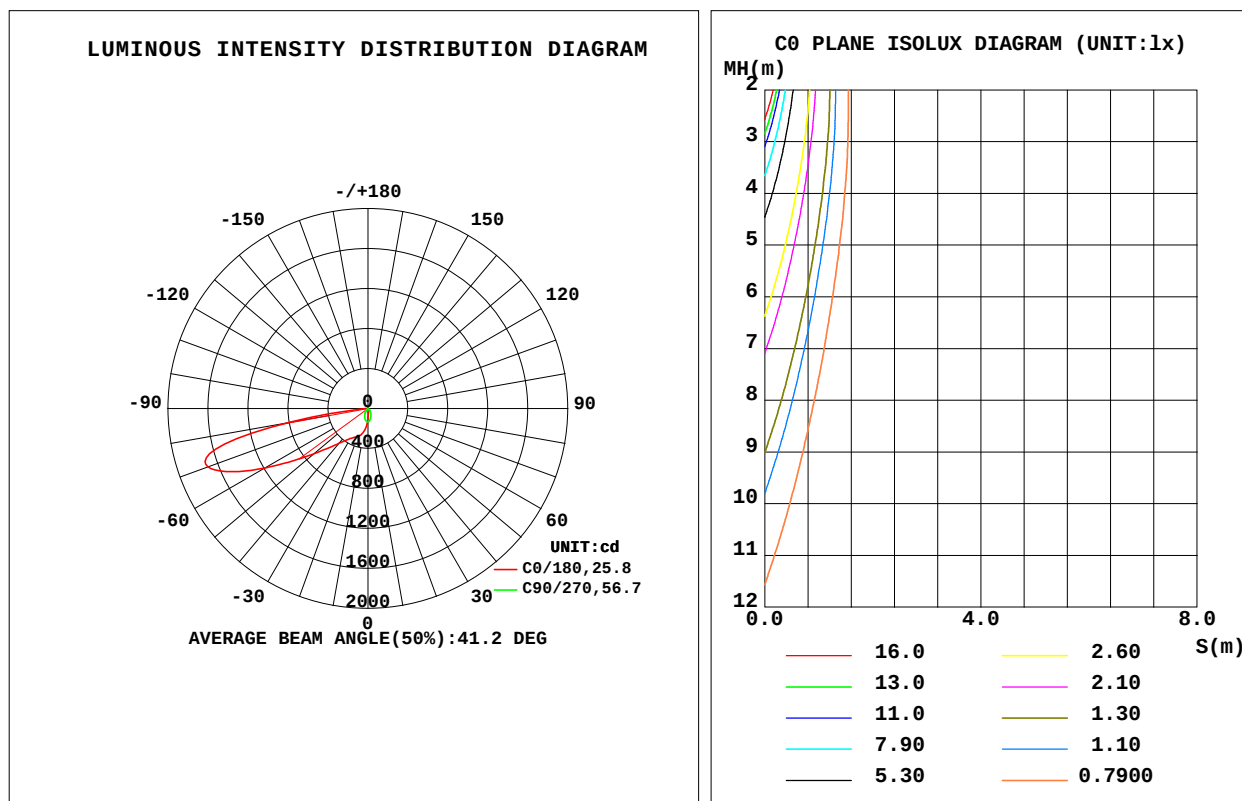


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:48.00V I:0.2130A P:10.20W PF:1.000 Freq:0Hz Lamp Flux:935.913x1 lm		
NAME: VOM40GW600	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:23*600mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 90.54 lm/W			
MODEL		I _{max} (cd)	1716	S/MH(C0/180)	0.22
NOMINAL POWER(W)	10.2	LOR(%)	98.7	S/MH(C90/270)	0.87
RATED VOLTAGE(V)	48	TOTAL FLUX(lm)	923.48	h UP, DN(C0-180)	0.0,14.9
NOMINAL FLUX(lm)	935.913	CIE CLASS	DIRECT	h UP, DN(C180-360)	0.0,83.8
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	48	h down(%)	98.7	CIBSE SHR MAX	1.00



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2022-12-19

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:

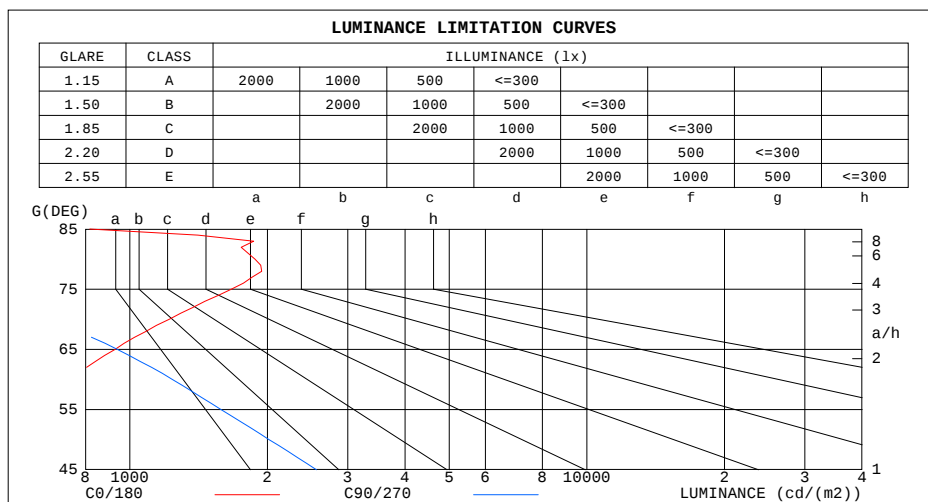
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum, lamp
10	36.01	54.40	118.5	208.1	229.8	211.2	127.2	58.82	0- 10	12.18	12.18	1.32,1.3
20	15.65	24.27	86.29	248.3	298.0	260.1	98.49	25.73	10- 20	37.49	49.67	5.38,5.31
30	8.705	12.70	57.27	270.9	347.1	289.9	68.09	13.29	20- 30	61.06	110.7	12,11.8
40	5.963	7.457	34.19	307.3	458.8	351.1	40.64	7.705	30- 40	88.80	199.5	21.6,21.3
50	5.063	4.674	17.90	264.4	703.0	367.5	19.42	4.698	40- 50	127.2	326.8	35.4,34.9
60	5.103	3.009	8.552	124.9	1192	189.1	8.087	2.906	50- 60	161.7	488.4	52.9,52.2
70	5.756	1.922	3.119	39.49	1705	56.87	2.307	1.731	60- 70	210.8	699.2	75.7,74.7
80	4.505	1.255	0.6752	7.102	785.9	9.182	0.2262	1.096	70- 80	200.3	899.5	97.4,96.1
90	0	0	0	0	0	0	0	0	80- 90	24.01	923.5	100,98.7
100	0	0	0	0	0	0	0	0	90-100	0	923.5	100,98.7
110	0	0	0	0	0	0	0	0	100-110	0	923.5	100,98.7
120	0	0	0	0	0	0	0	0	110-120	0	923.5	100,98.7
130	0	0	0	0	0	0	0	0	120-130	0	923.5	100,98.7
140	0	0	0	0	0	0	0	0	130-140	0	923.5	100,98.7
150	0	0	0	0	0	0	0	0	140-150	0	923.5	100,98.7
160	0	0	0	0	0	0	0	0	150-160	0	923.5	100,98.7
170	0	0	0	0	0	0	0	0	160-170	0	923.5	100,98.7
180	0	0	0	0	0	0	0	0	170-180	0	923.5	100,98.7
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2022-12-19

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:0.2130A P:10.20W PF:1.000 Freq:0Hz Lamp Flux:935.913x1 lm		
NAME: VOM40GW600	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:23*600mm	Shielding Angle:



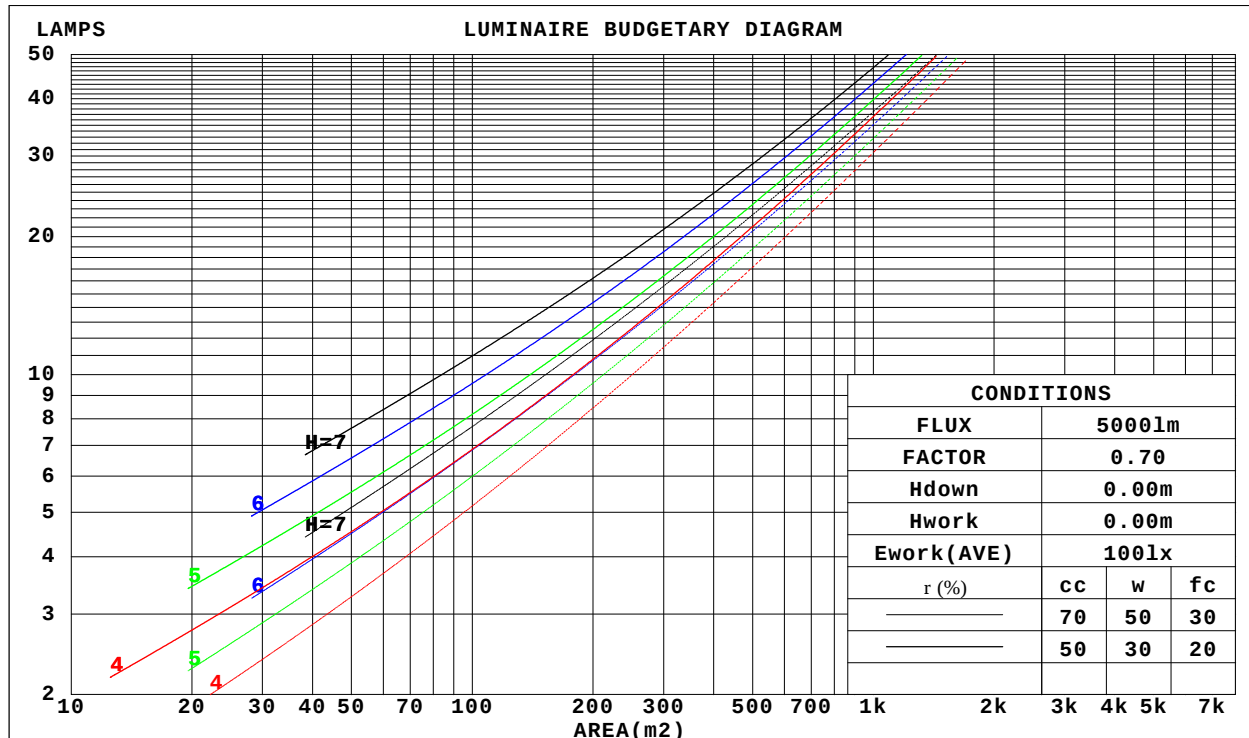
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JYH
Test Date: 2022-12-19

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:0.2130A P:10.20W PF:1.000 Freq:0Hz Lamp Flux:935.913x1 lm		
NAME: VOM40GW600	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	1.17	1.17	1.17	1.15	1.15	1.15	1.10	1.10	1.10	1.05	1.05	1.05	1.01	1.01	1.01	.99
1.0	.97	.91	.86	.94	.89	.84	.90	.85	.81	.86	.82	.79	.82	.79	.76	.74
2.0	.79	.70	.63	.77	.69	.62	.73	.66	.60	.70	.64	.59	.67	.62	.57	.55
3.0	.66	.56	.47	.65	.55	.47	.61	.53	.46	.58	.51	.45	.56	.49	.44	.42
4.0	.57	.46	.37	.55	.45	.37	.52	.44	.36	.50	.42	.36	.48	.41	.35	.33
5.0	.49	.38	.30	.48	.38	.30	.46	.37	.30	.44	.36	.29	.42	.35	.29	.26
6.0	.43	.33	.25	.42	.32	.25	.40	.31	.25	.39	.31	.25	.37	.30	.24	.22
7.0	.39	.29	.21	.38	.28	.21	.36	.27	.21	.35	.27	.21	.33	.26	.21	.18
8.0	.35	.25	.19	.34	.25	.18	.33	.24	.18	.31	.24	.18	.30	.23	.18	.16
9.0	.32	.22	.16	.31	.22	.16	.30	.22	.16	.29	.21	.16	.28	.21	.16	.14
10.0	.29	.20	.14	.28	.20	.14	.27	.20	.14	.26	.19	.14	.25	.19	.14	.12



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2022-12-19

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:



WEC AND CCEC

Test:U:48.00V I:0.2130A P:10.20W PF:1.000 Freq:0Hz Lamp Flux:935.913x1 lm					
NAME: VOM40GW600			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	.419	.238	.075	.411	.235	.075	.398	.228	.073	.385	.222	.071	.374	.217	.070	
2.0	.384	.211	.065	.378	.208	.064	.365	.203	.063	.354	.198	.062	.343	.194	.061	
3.0	.344	.183	.055	.338	.181	.054	.326	.177	.054	.316	.173	.053	.307	.170	.053	
4.0	.307	.160	.047	.302	.158	.047	.292	.155	.046	.283	.152	.046	.274	.149	.045	
5.0	.276	.141	.041	.272	.139	.041	.263	.137	.040	.255	.134	.040	.247	.132	.040	
6.0	.250	.126	.036	.246	.124	.036	.238	.122	.036	.231	.120	.035	.224	.118	.035	
7.0	.229	.113	.032	.225	.112	.032	.218	.110	.032	.212	.108	.032	.205	.107	.031	
8.0	.210	.103	.029	.207	.102	.029	.201	.100	.029	.195	.099	.028	.189	.097	.028	
9.0	.194	.094	.026	.192	.093	.026	.186	.092	.026	.181	.091	.026	.176	.089	.026	
10.0	.181	.087	.024	.178	.086	.024	.173	.085	.024	.168	.084	.024	.164	.083	.024	

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	.188	.188	.188	.161	.161	.161	.110	.110	.110	.063	.063	.063	.020	.020	.020	
1.0	.186	.153	.124	.159	.131	.106	.109	.090	.074	.063	.052	.043	.020	.017	.014	
2.0	.183	.130	.085	.157	.112	.074	.107	.077	.051	.062	.045	.030	.020	.015	.010	
3.0	.177	.113	.062	.152	.098	.054	.104	.068	.038	.060	.040	.022	.019	.013	.007	
4.0	.170	.101	.048	.146	.087	.042	.100	.061	.030	.058	.036	.018	.019	.012	.006	
5.0	.162	.091	.039	.139	.079	.034	.096	.055	.024	.055	.032	.014	.018	.011	.005	
6.0	.154	.083	.033	.132	.072	.029	.091	.051	.020	.053	.030	.012	.017	.010	.004	
7.0	.146	.077	.028	.126	.067	.025	.087	.047	.017	.050	.027	.010	.016	.009	.003	
8.0	.138	.071	.025	.119	.062	.022	.082	.043	.015	.048	.026	.009	.016	.008	.003	
9.0	.131	.066	.022	.113	.057	.019	.078	.040	.014	.046	.024	.008	.015	.008	.003	
10.0	.125	.062	.020	.108	.054	.017	.075	.038	.012	.044	.022	.007	.014	.007	.002	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2022-12-19

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:

UGR(Unified Glare Rating) Table

Test:U:48.00V I:0.2130A P:10.20W PF:1.000 Freq:0Hz Lamp Flux:935.913x1 lm											
NAME: VOM40GW600						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	-0.8	1.1	-0.5	1.3	1.5	4.2	6.0	4.4	6.2	6.5	
	3H	2.6	4.3	2.9	4.6	4.9	4.6	6.4	4.9	6.6	6.9
	4H	4.7	6.4	5.0	6.7	6.9	4.7	6.3	5.0	6.6	6.9
	6H	6.6	8.2	7.0	8.5	8.8	4.7	6.2	5.0	6.5	6.8
	8H	7.3	8.8	7.6	9.1	9.4	4.6	6.2	5.0	6.5	6.8
	12H	7.5	9.0	7.8	9.3	9.6	4.6	6.1	4.9	6.4	6.7
4H	2H	-0.4	1.3	-0.0	1.6	1.9	4.0	5.6	4.3	5.9	6.2
	3H	3.1	4.6	3.4	4.9	5.2	4.5	6.0	4.9	6.3	6.7
	4H	5.4	6.7	5.7	7.1	7.4	4.7	6.1	5.1	6.4	6.8
	6H	7.5	8.7	7.9	9.1	9.5	4.8	6.0	5.2	6.4	6.8
	8H	8.2	9.4	8.7	9.8	10.2	4.8	6.0	5.2	6.3	6.7
	12H	8.5	9.6	8.9	10.0	10.4	4.8	5.9	5.2	6.3	6.7
8H	4H	5.4	6.6	5.9	7.0	7.4	4.8	6.0	5.2	6.3	6.7
	6H	7.7	8.7	8.2	9.1	9.6	5.0	6.0	5.4	6.4	6.8
	8H	8.6	9.5	9.1	9.9	10.4	5.1	6.0	5.5	6.4	6.8
	12H	9.0	9.7	9.4	10.2	10.7	5.1	5.9	5.6	6.3	6.8
12H	4H	5.4	6.5	5.8	6.9	7.3	4.9	5.9	5.3	6.3	6.8
	6H	7.7	8.6	8.2	9.1	9.5	5.1	6.0	5.6	6.4	6.9
	8H	8.7	9.4	9.2	9.9	10.4	5.2	6.0	5.7	6.5	6.9
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 1.7 / - 0.8					
1.5H	+ 0.2 / - 0.2					+ 2.6 / - 2.4					
2.0H	+ 0.2 / - 0.4					+ 3.4 / - 3.0					

CIE Pub.117, 935.9 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.2)

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2022-12-19

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:0.2130A P:10.20W PF:1.000 Freq:0Hz Lamp Flux:935.913x1 lm		
NAME: VOM40GW600	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:23*600mm	Shielding Angle:

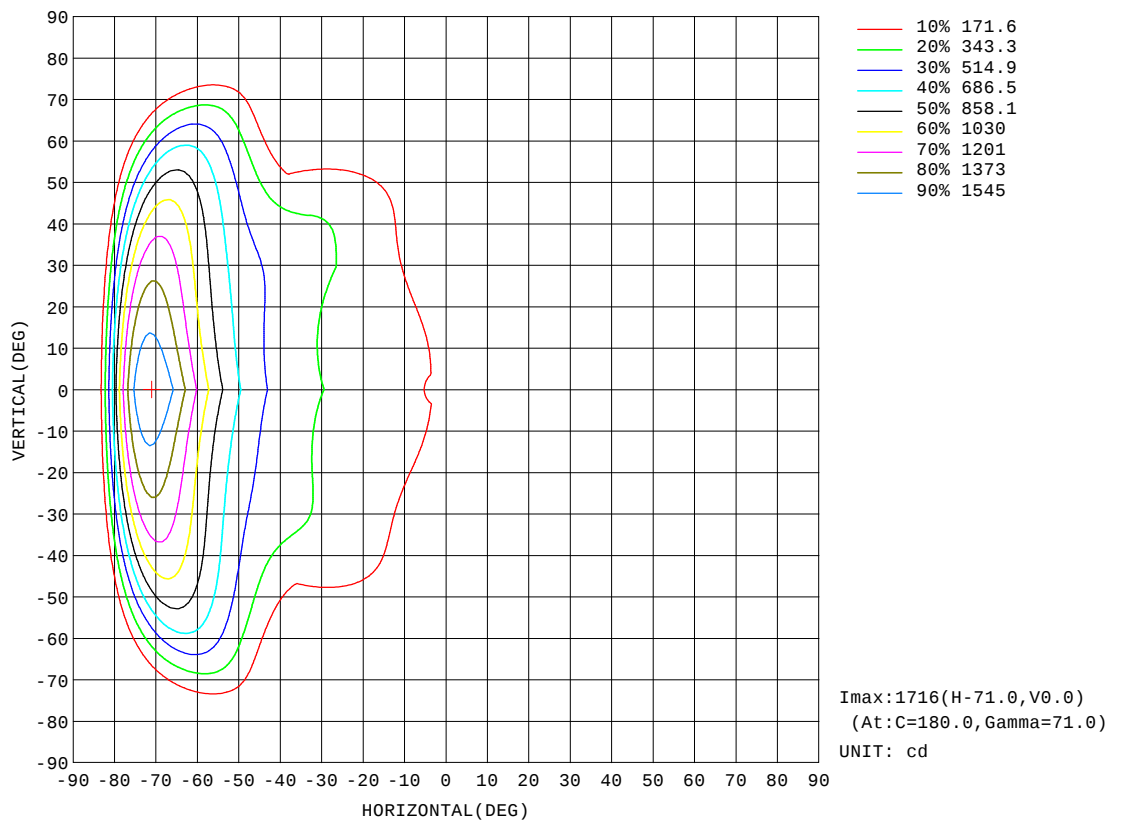
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	45	32	24	44	31	23	43	31	23	16
0.80	54	40	31	53	39	31	51	38	30	22
1.00	62	48	38	60	47	38	58	49	37	28
1.25	69	55	46	67	55	46	64	53	45	35
1.50	75	62	52	73	61	52	69	59	51	41
2.00	83	72	63	81	70	62	77	68	61	51
2.50	89	78	70	87	77	69	82	74	67	57
3.00	94	84	77	91	82	75	87	79	73	63
4.00	99	92	85	97	90	84	92	86	81	71
5.00	103	96	91	100	94	89	95	91	86	76
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:2022-12-19

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:0.2130A P:10.20W PF:1.000 Freq:0Hz Lamp Flux:935.913x1 lm		
NAME: VOM40GW600	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:23*600mm	Shielding Angle:



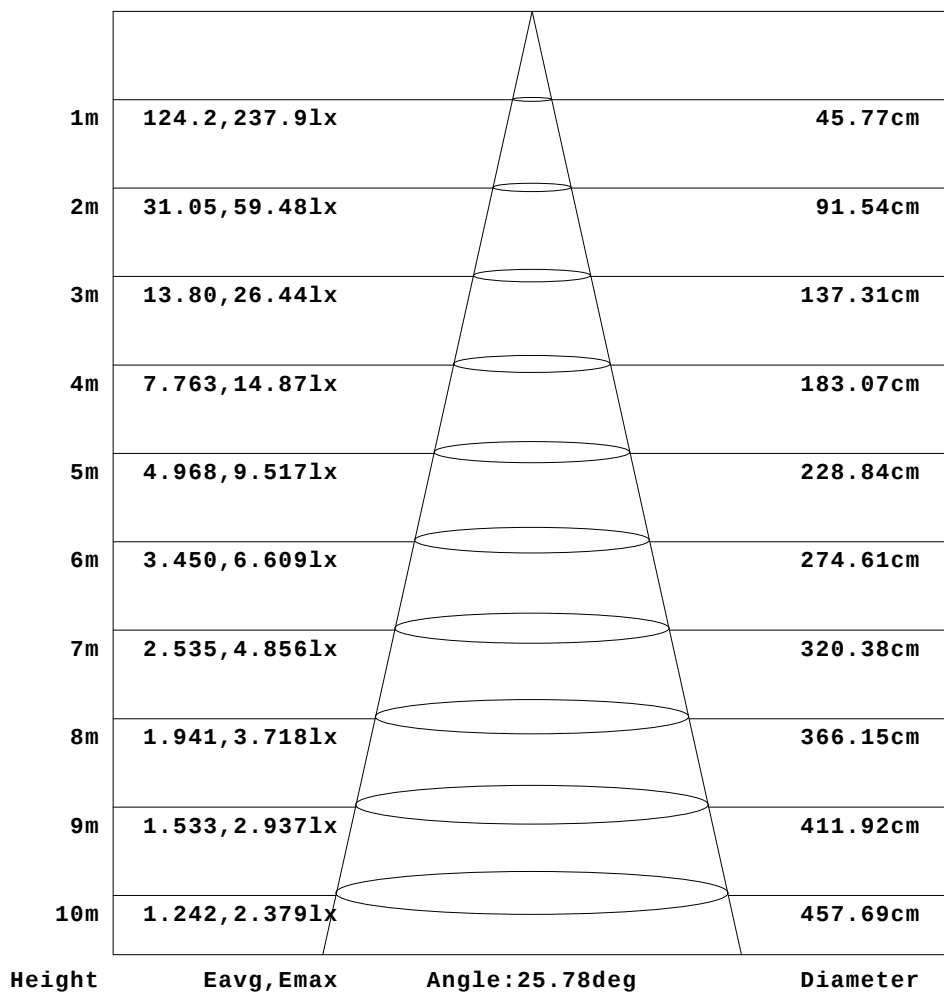
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2022-12-19

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:0.2130A P:10.20W PF:1.000 Freq:0Hz Lamp Flux:935.913x1 lm		
NAME: VOM40GW600	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:23*600mm	Shielding Angle:

Flux out:20.80 lm



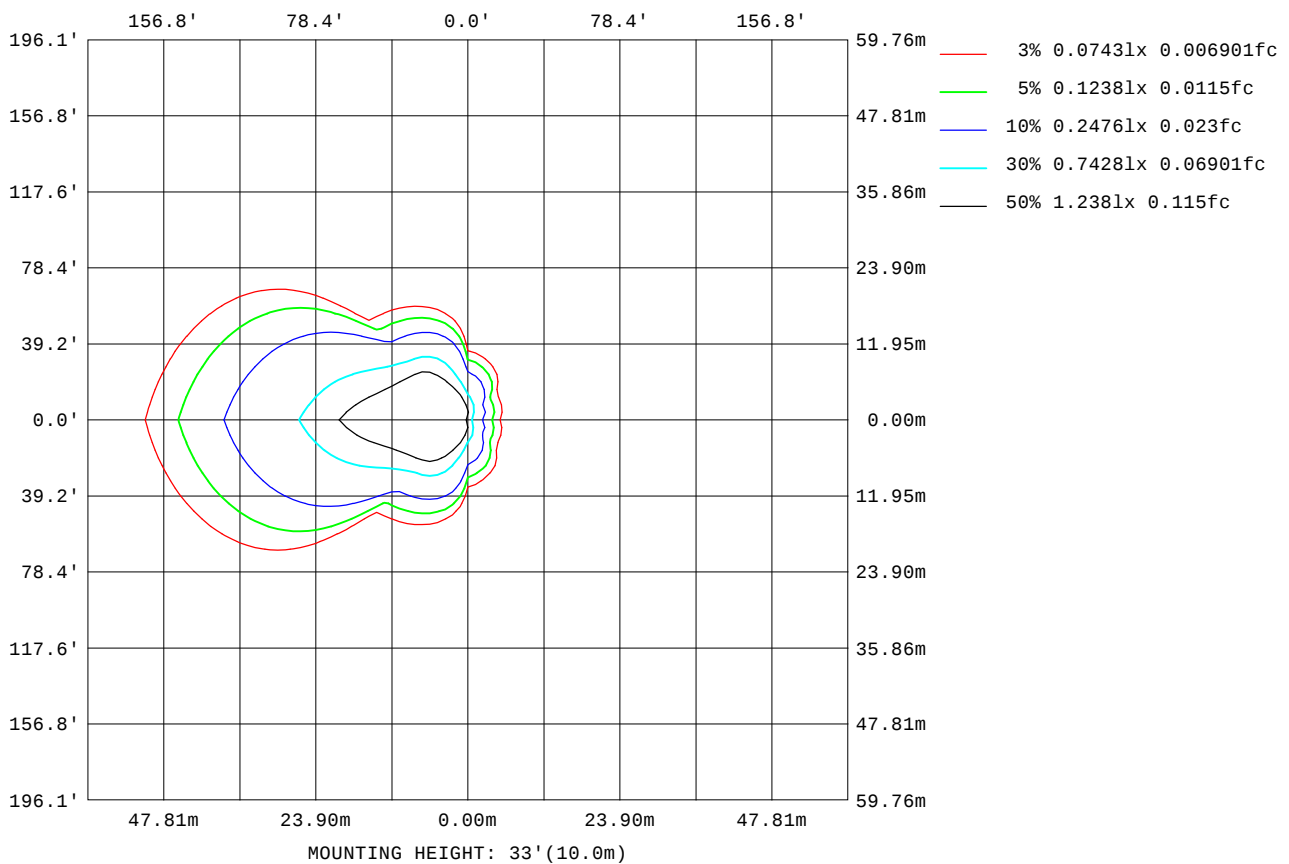
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2022-12-19

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:0.2130A P:10.20W PF:1.000 Freq:0Hz Lamp Flux:935.913x1 lm		
NAME: VOM40GW600	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:2022-12-19

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:0.2130A P:10.20W PF:1.000 Freq:0Hz Lamp Flux:935.913x1 lm		
NAME: VOM40GW600	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:23*600mm	Shielding Angle:

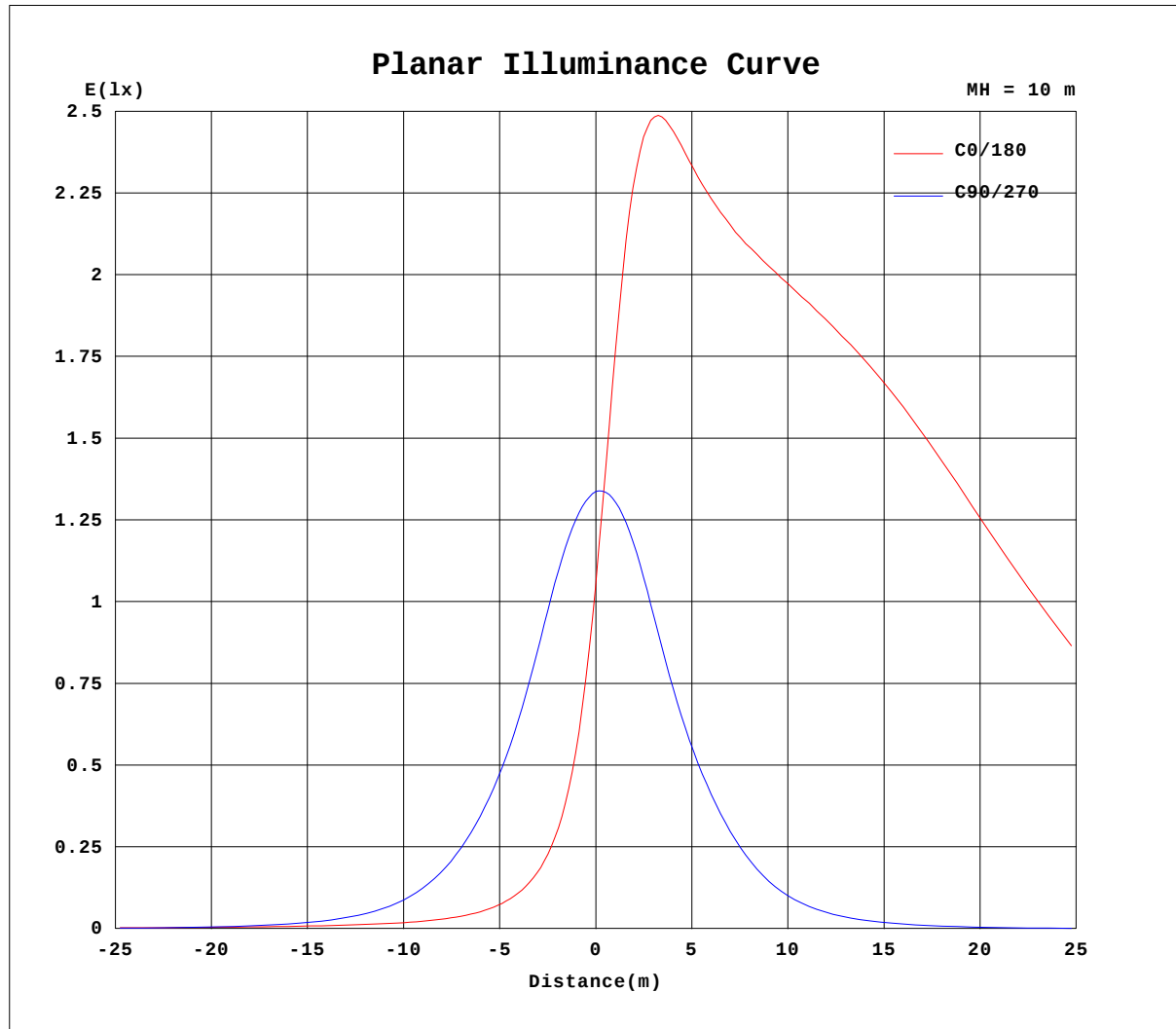
AvgL	cd/m2
L_0~180(65)av	128980
L_0~180(75)av	221679
L_0~180(85)av	11589
L_90~270(65)av	879
L_90~270(75)av	333
L_90~270(85)av	84
L_45(65)av	8267
L_45(75)av	3109
L_45(85)av	988

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2022-12-19

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: 2022-12-19

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:0.2130A P:10.20W PF:1.000 Freq:0Hz Lamp Flux:935.913x1 lm		
NAME: VOM40GW600	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	106	125	134	130	106	125	134	130										
5	61.0	83.9	129	172	168	171	133	89.9										
10	36.0	54.4	119	208	230	211	127	58.8										
15	23.0	35.7	103	233	272	241	115	38.3										
20	15.7	24.3	86.3	248	298	260	98.5	25.7										
25	11.4	17.3	70.7	259	319	274	82.6	18.1										
30	8.70	12.7	57.3	271	347	290	68.1	13.3										
35	7.03	9.67	45.2	289	392	315	54.2	10.0										
40	5.96	7.46	34.2	307	459	351	40.6	7.70										
45	5.36	5.87	25.0	307	558	383	28.6	6.00										
50	5.06	4.67	17.9	264	703	368	19.4	4.70										
55	5.00	3.75	12.5	191	912	288	12.7	3.69										
60	5.10	3.01	8.55	125	1192	189	8.09	2.91										
65	5.42	2.44	5.48	76.2	1499	112	4.77	2.24										
70	5.76	1.92	3.12	39.5	1705	56.9	2.31	1.73										
75	5.96	1.56	1.52	17.3	1578	24.2	0.86	1.36										
80	4.50	1.25	0.68	7.10	786	9.18	0.23	1.10										
85	0.98	0.59	0.20	2.00	26.9	1.54	0.00	0.62										
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:2022-12-19

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: