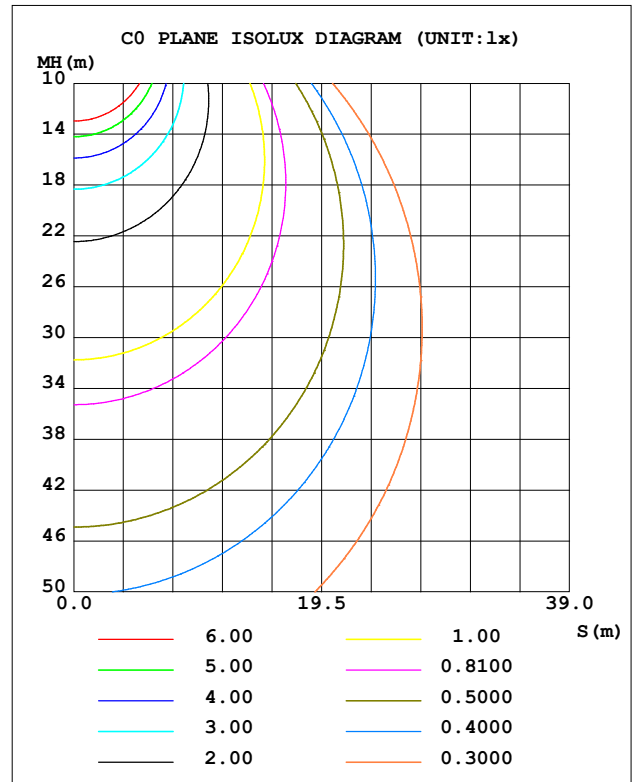
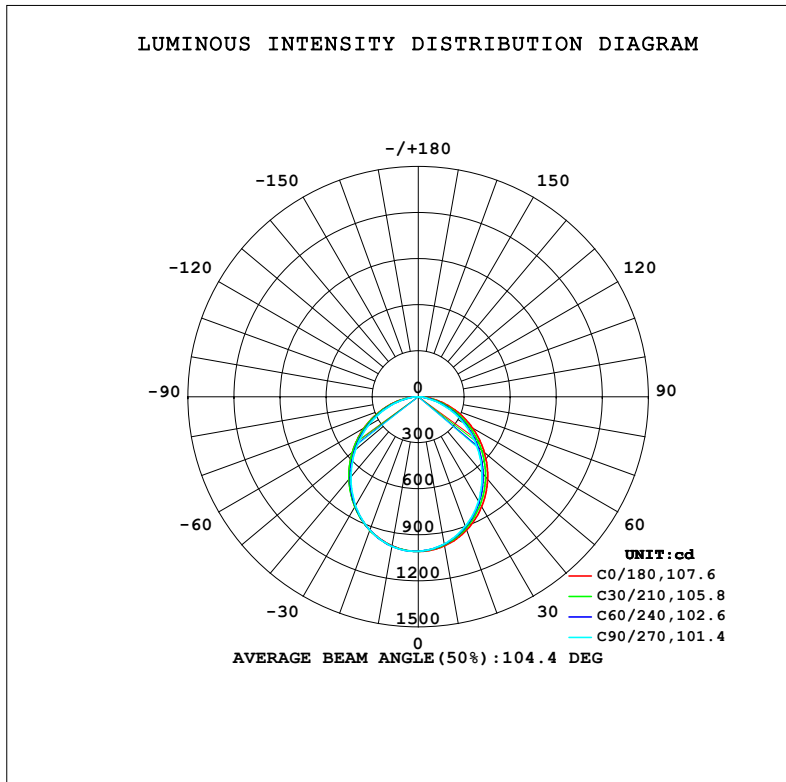


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: 99POM602430/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 600 x 50 x 75	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	99POM602430/WH	Imax (cd)	1008	S/MH (C0/180)	1.22
NOMINAL POWER (W)	24	LOR (%)	121.0	S/MH (C90/270)	1.21
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	2614.2	η UP, DN (C0-180)	0.0, 59.1
NOMINAL FLUX (lm)	2160	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 61.9
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	230	η down (%)	121.0	CIBSE SHR MAX	1.35



H(β) Range: -90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 30 November 2022

V(B) Range: -85 - 85DEG
V(B) Interval: 2.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity: 65.0%
Test Distance: 6.265m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	986.5	977.3	975.2	977.2	986.2	988.5	990.5	988.6	0- 10	94.98	94.98	3.63,4.4
20	924.0	906.5	899.1	906.6	923.2	926.1	924.8	926.0	10- 20	269.2	364.2	13.9,16.9
30	827.0	801.1	786.5	801.0	825.8	825.5	819.6	825.5	20- 30	400.1	764.3	29.2,35.4
40	703.3	670.2	647.4	669.8	702.3	698.0	683.5	697.9	30- 40	469.7	1234	47.2,57.1
50	561.9	521.6	497.0	521.2	560.8	550.2	532.9	549.7	40- 50	471.6	1706	65.2,79
60	409.8	366.2	342.3	366.3	409.1	394.0	376.6	392.8	50- 60	411.1	2117	81,98
70	255.0	212.1	190.3	212.7	254.4	237.8	221.0	235.8	60- 70	301.0	2418	92.5,112
80	110.2	71.83	54.74	72.43	109.3	93.10	79.91	91.08	70- 80	162.7	2580	98.7,119
90	1.304	0	0	0	1.484	0	0	0	80- 90	33.84	2614	100,121
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									UNIT:lm		

Conical surface Flux(90deg): 1473.6 lm

%lum = 56.4%

%lamp = 68.2%

Conical surface Flux(130deg): 2283.3 lm

%lum = 87.3%

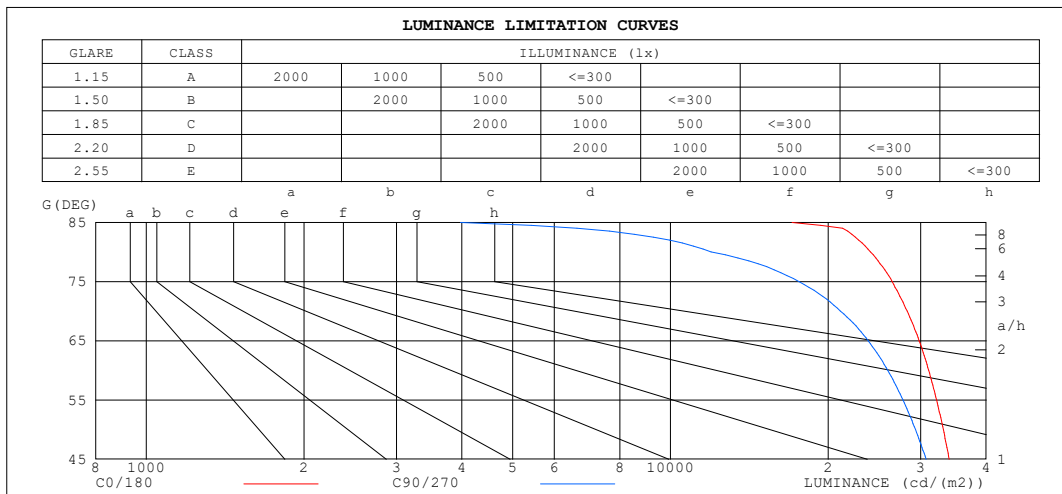
%lamp = 105.7%

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:30 November 2022

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

NAME: 99POM602430/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 600 x 50 x 75	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	17049	3975
80	24059	11954
75	26472	17582
70	28271	21100
65	29812	23824
60	31083	25965
55	32178	27759
50	33149	29324
45	34018	30728

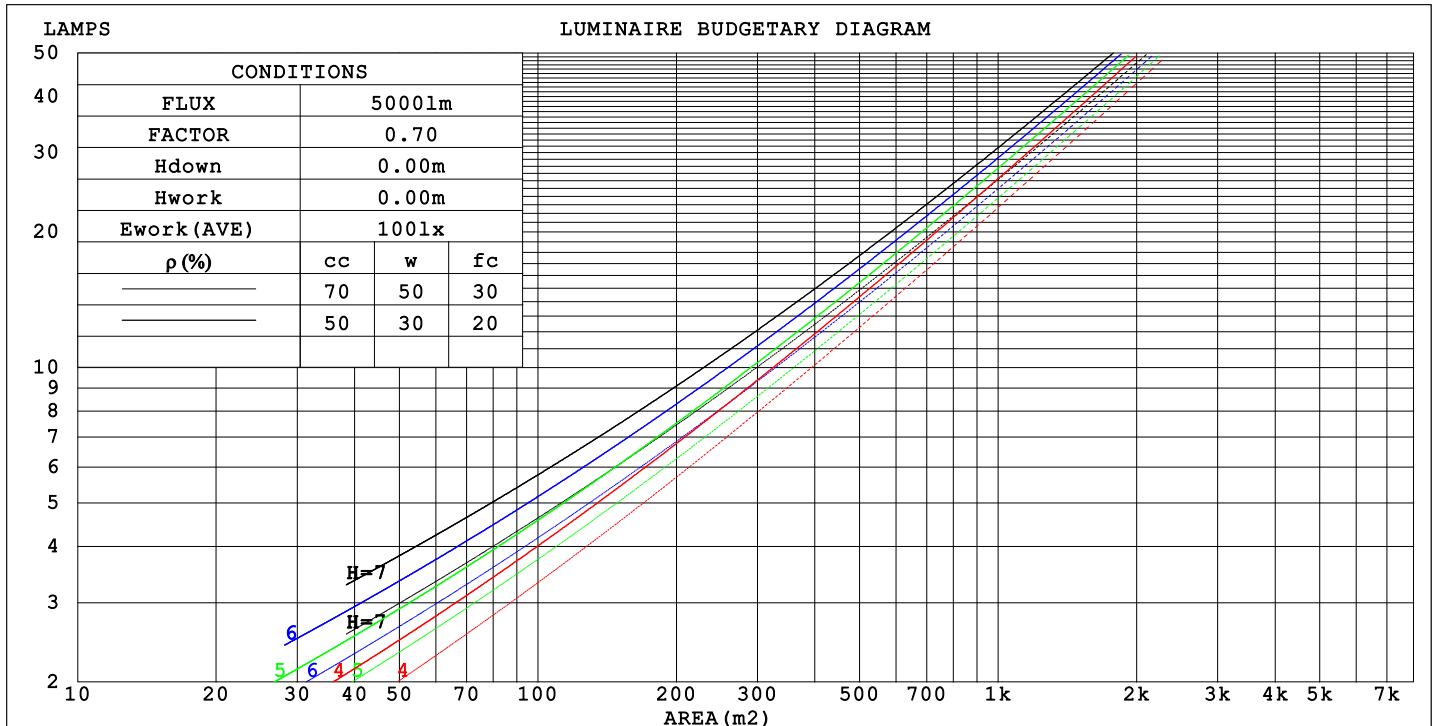
H(β) Range:-90 - 90DEG
 H(β) Interval: 2.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:
 Test Date:30 November 2022

V(B) Range:-85 - 85DEG
 V(B) Interval: 2.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
 Humidity:65.0%
 Test Distance:6.265m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: 99POM602430/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 600 x 50 x 75	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.:	Shielding Angle:

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															



H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:30 November 2022

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

WEC AND CCEC

NAME: 99POM602430/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 600 x 50 x 75	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.:	Shielding Angle:

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	.358	.204	.065	.350	.200	.063	.334	.192	.061	.319	.184	.059	.306	.177	.057	
2.0	.341	.187	.057	.333	.184	.057	.319	.178	.055	.306	.172	.054	.294	.166	.052	
3.0	.317	.169	.051	.311	.166	.050	.298	.162	.049	.287	.157	.048	.276	.153	.047	
4.0	.294	.153	.045	.288	.151	.045	.277	.147	.044	.267	.143	.043	.257	.140	.043	
5.0	.273	.139	.040	.267	.137	.040	.258	.134	.039	.249	.131	.039	.240	.128	.039	
6.0	.253	.127	.036	.249	.126	.036	.240	.123	.036	.232	.121	.035	.224	.118	.035	
7.0	.236	.117	.033	.232	.116	.033	.224	.113	.033	.217	.111	.032	.210	.109	.032	
8.0	.221	.108	.030	.217	.107	.030	.210	.105	.030	.204	.103	.030	.198	.102	.030	
9.0	.207	.100	.028	.204	.099	.028	.198	.098	.028	.192	.096	.028	.186	.095	.027	
10.0	.195	.094	.026	.192	.093	.026	.187	.091	.026	.181	.090	.026	.176	.089	.025	

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	.231	.231	.231	.197	.197	.197	.134	.134	.134	.077	.077	.077	.025	.025	.025	
1.0	.217	.189	.164	.186	.162	.141	.127	.112	.098	.073	.065	.057	.023	.021	.018	
2.0	.207	.160	.120	.177	.137	.104	.121	.095	.072	.070	.055	.042	.022	.018	.014	
3.0	.197	.138	.091	.169	.119	.079	.116	.083	.056	.067	.048	.033	.022	.016	.011	
4.0	.188	.122	.072	.161	.105	.062	.111	.073	.044	.064	.043	.026	.021	.014	.009	
5.0	.179	.109	.058	.154	.095	.050	.106	.066	.036	.061	.039	.021	.020	.013	.007	
6.0	.170	.099	.048	.146	.086	.042	.101	.060	.030	.059	.035	.018	.019	.012	.006	
7.0	.162	.091	.041	.140	.079	.036	.096	.055	.025	.056	.033	.015	.018	.011	.005	
8.0	.155	.084	.035	.133	.073	.031	.092	.051	.022	.054	.030	.013	.017	.010	.004	
9.0	.147	.078	.031	.127	.068	.027	.088	.047	.019	.051	.028	.011	.017	.009	.004	
10.0	.141	.073	.027	.121	.063	.024	.084	.044	.017	.049	.026	.010	.016	.009	.003	

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:30 November 2022

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

NAME: 99POM602430/WH					TYPE:					WEIGHT: 1				
SPEC.:					DIM.: 600 x 50 x 75					SERIAL No.: 0				
MFR.: Elmark Industries JSC					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	22.1	23.6	22.4	23.8	24.0	21.4	22.9	21.7	23.1	23.3				
3H	23.6	25.0	23.9	25.2	25.5	22.6	24.0	22.9	24.2	24.5				
4H	24.2	25.6	24.6	25.8	26.1	23.0	24.3	23.3	24.6	24.8				
6H	24.7	25.9	25.0	26.2	26.5	23.2	24.4	23.5	24.7	25.0				
8H	24.8	26.0	25.2	26.3	26.6	23.2	24.4	23.5	24.7	25.0				
12H	24.9	26.1	25.3	26.4	26.7	23.2	24.3	23.5	24.6	24.9				
4H 2H	22.6	23.9	22.9	24.2	24.4	22.0	23.3	22.3	23.6	23.8				
3H	24.3	25.4	24.6	25.7	26.0	23.4	24.5	23.7	24.8	25.1				
4H	25.0	26.0	25.4	26.4	26.7	23.9	24.9	24.3	25.2	25.6				
6H	25.6	26.5	26.0	26.8	27.2	24.1	25.1	24.5	25.4	25.8				
8H	25.8	26.6	26.2	27.0	27.4	24.2	25.0	24.6	25.4	25.8				
12H	25.9	26.7	26.3	27.0	27.5	24.2	25.0	24.6	25.3	25.7				
8H 4H	25.1	26.0	25.5	26.4	26.7	24.1	25.0	24.5	25.3	25.7				
6H	25.8	26.5	26.2	26.9	27.3	24.5	25.2	24.9	25.6	26.0				
8H	26.1	26.7	26.5	27.1	27.6	24.5	25.2	25.0	25.6	26.1				
12H	26.2	26.8	26.7	27.2	27.7	24.6	25.1	25.0	25.5	26.0				
12H 4H	25.1	25.9	25.5	26.3	26.7	24.1	24.9	24.6	25.3	25.7				
6H	25.8	26.4	26.3	26.9	27.3	24.5	25.1	25.0	25.6	26.0				
8H	26.1	26.6	26.6	27.1	27.5	24.6	25.1	25.1	25.6	26.1				
Variations with the observer position at spacings(CIE Pub.117):														
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.3								
1.5H	+ 0.1 / - 0.3					+ 0.2 / - 0.3								
2.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.4								

CIE Pub.117, 2160 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.7)
Area: 0.02637 m2

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:30 November 2022

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME: 99POM602430/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 600 x 50 x 75	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.:	Shielding Angle:

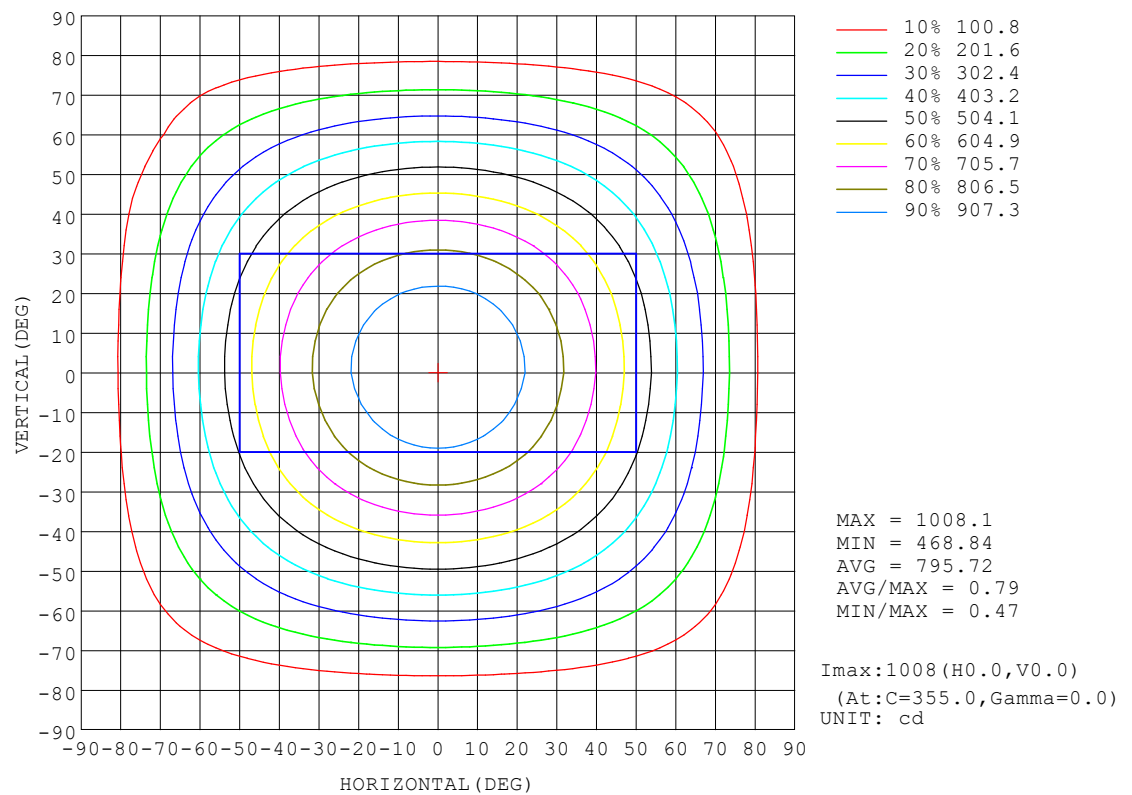
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	71	58	49	70	57	49	69	57	49	41
0.80	84	70	61	82	69	61	80	68	60	52
1.00	94	81	72	92	80	72	90	82	71	63
1.25	102	90	82	100	89	81	97	87	80	71
1.50	108	97	88	106	95	88	103	93	86	78
2.00	116	106	99	114	105	98	110	102	96	87
2.50	121	112	105	118	110	104	114	107	101	92
3.00	125	117	110	122	115	109	117	111	106	96
4.00	129	123	117	127	121	116	121	117	113	102
5.00	132	127	122	129	124	120	124	120	116	105
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:30 November 2022

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: 99POM602430/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 600 x 50 x 75	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.:	Shielding Angle:

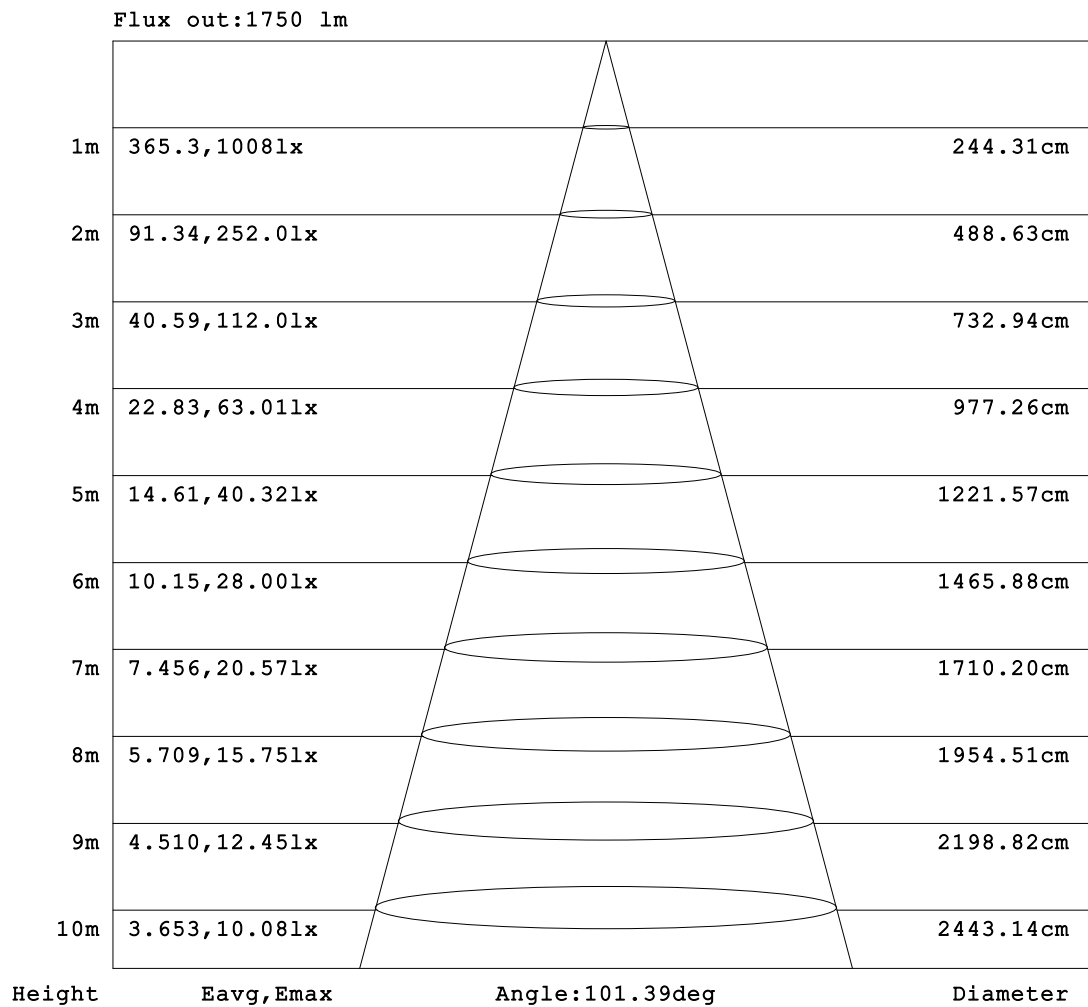


H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:30 November 2022

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

AAI Figure

NAME: 99POM602430/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 600 x 50 x 75	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.:	Shielding Angle:



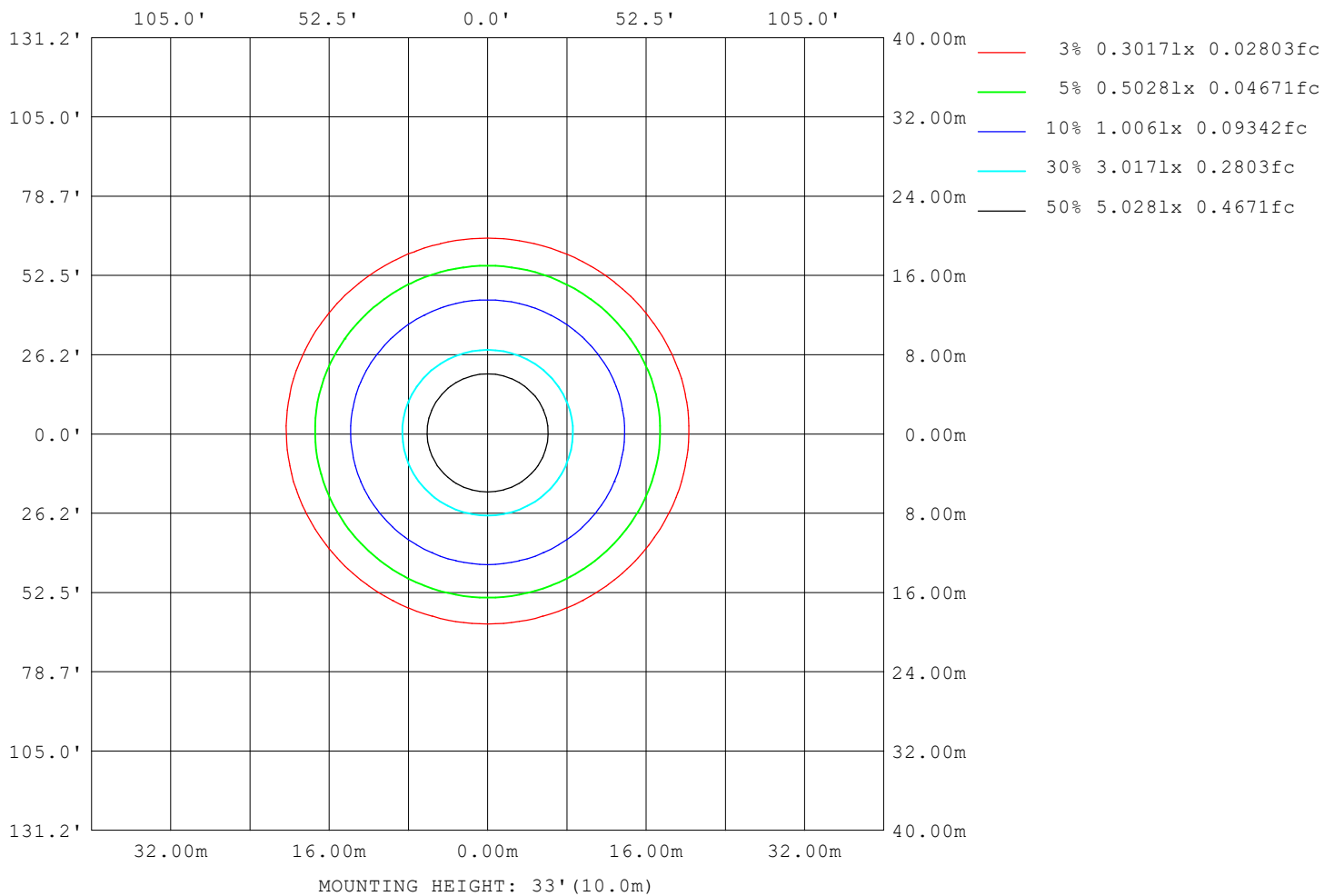
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range: -90 - 90DEG
 H(β) Interval: 2.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date: 30 November 2022

V(B) Range: -85 - 85DEG
 V(B) Interval: 2.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
 Humidity: 65.0%
 Test Distance: 6.265m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

NAME: 99POM602430/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 600 x 50 x 75	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.:	Shielding Angle:



H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:30 November 2022

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

LED Avg.L Report

NAME: 99POM602430/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 600 x 50 x 75	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.:	Shielding Angle:

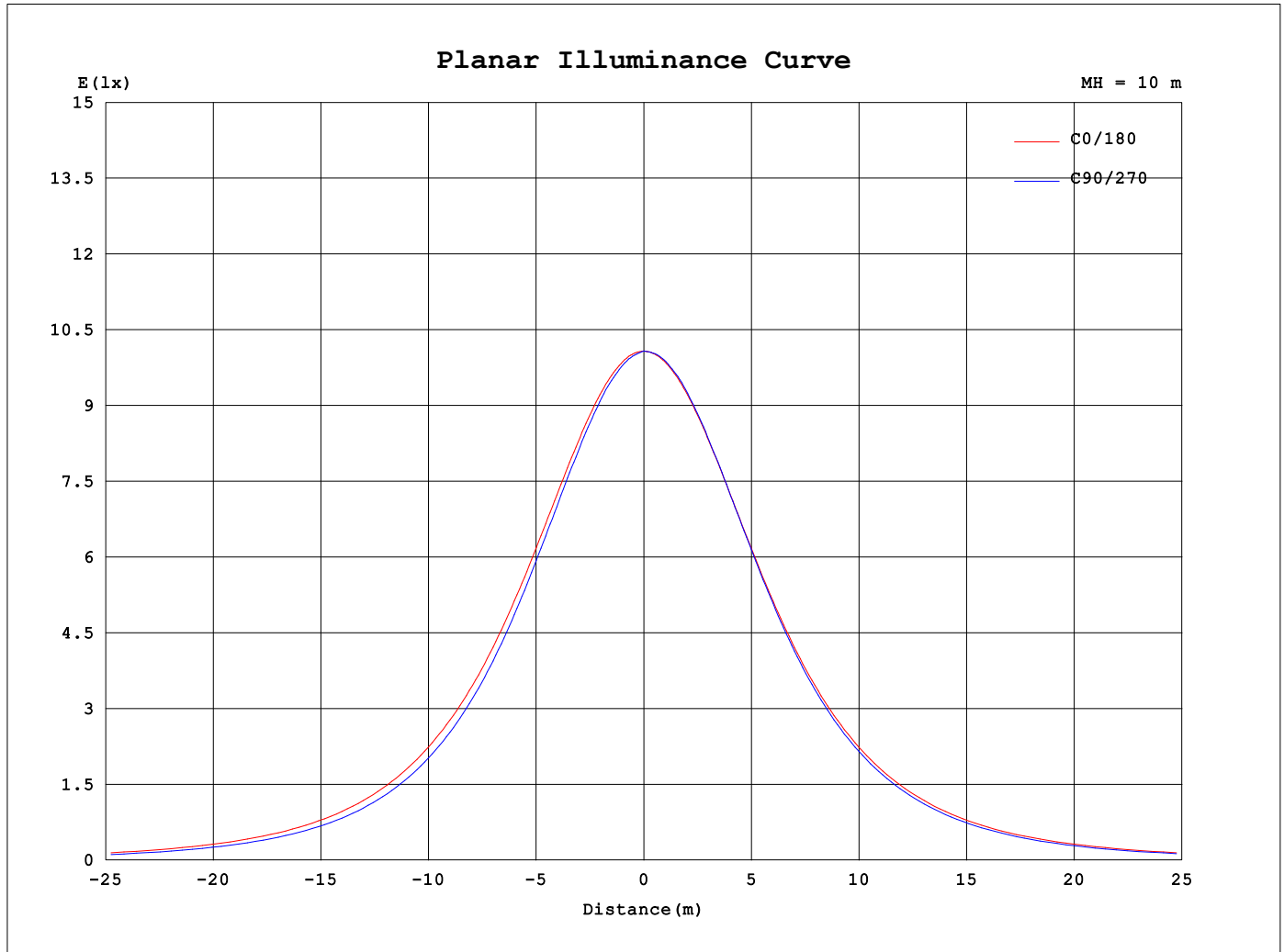
AvgL	cd/m2
L_0~180 (65) av	29782
L_0~180 (75) av	26405
L_0~180 (85) av	16931
L_90~270 (65) av	25288
L_90~270 (75) av	19670
L_90~270 (85) av	5899
L_45 (65) av	27059
L_45 (75) av	22067
L_45 (85) av	10996

Standard: GB/T 29293-2012

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:30 November 2022

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:30 November 2022

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

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V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:
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```
V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:
```

```
V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:
```