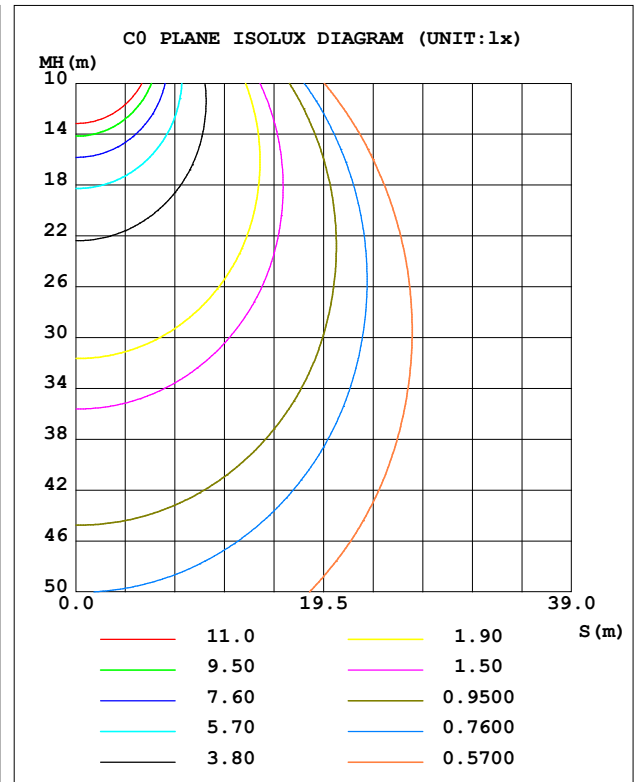
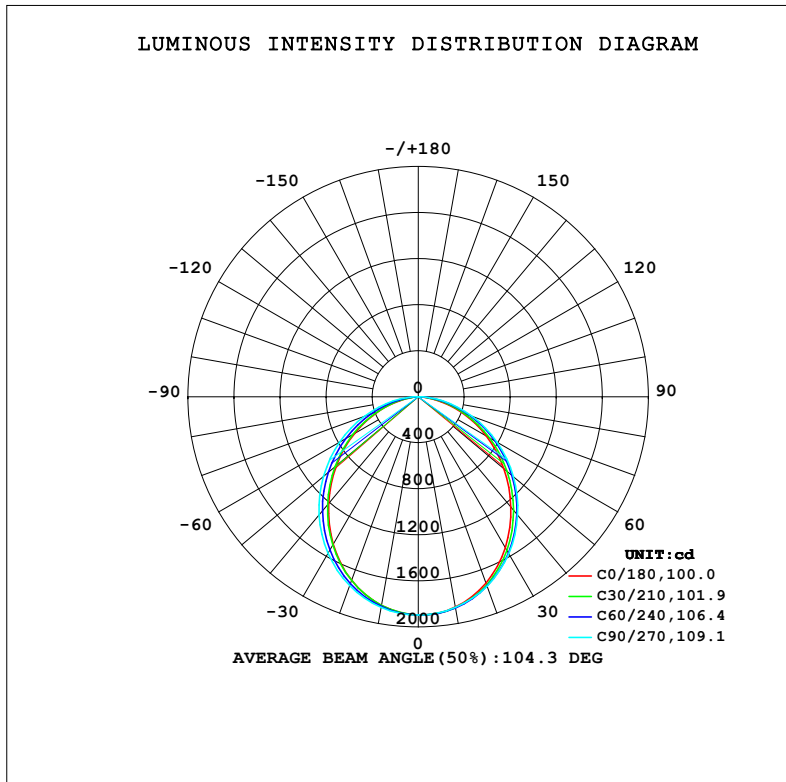


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: 99POM1505030/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 1500 x 50 x 70	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	99POM1505030/WH	I _{max} (cd)	1898	S/MH (C0/180)	1.17
NOMINAL POWER (W)	50	LOR (%)	109.9	S/MH (C90/270)	1.24
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	4946.7	η UP, DN (C0-180)	0.0, 54.9
NOMINAL FLUX (lm)	4500	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 55.0
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	230	η down (%)	109.9	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date: 01 December 2022

γ Range: 0 - 90DEG
 γ Interval: 2.5DEG
 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	1855	1862	1859	1843	1840	1844	1858	1864	0- 10	179.0	179.0	3.62,3.98
20	1722	1745	1750	1710	1697	1711	1746	1748	10- 20	507.6	686.5	13.9,15.3
30	1514	1556	1573	1508	1479	1510	1569	1560	20- 30	754.5	1441	29.1,32
40	1252	1313	1344	1256	1212	1259	1340	1319	30- 40	884.7	2326	47,51.7
50	969.8	1034	1079	974.5	927.5	977.5	1075	1040	40- 50	887.5	3213	65,71.4
60	685.7	743.5	791.4	684.0	640.2	688.2	789.7	750.2	50- 60	774.6	3988	80.6,88.6
70	404.1	453.3	498.4	397.3	360.8	401.9	499.4	459.8	60- 70	571.0	4559	92.2,101
80	146.9	183.2	221.3	134.9	110.5	139.5	222.9	189.0	70- 80	314.2	4873	98.5,108
90	4.811	5.684	3.344	2.819	2.049	2.476	3.015	6.090	80- 90	73.64	4947	100,110
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): 2776.9 lm

%lum = 56.1%
%lamp = 61.7%

Conical surface Flux(130deg): 4303.4 lm

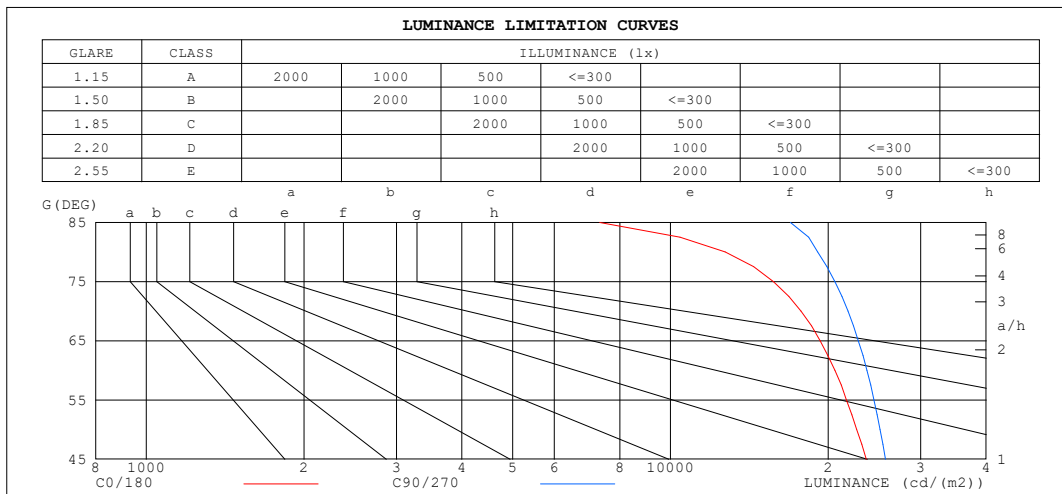
%lum = 87.0%
%lamp = 95.6%

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:01 December 2022

γ Range: 0 - 90DEG
 γ Interval: 2.5DEG
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: 99POM1505030/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 1500 x 50 x 70	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	7329	16944
80	12710	19076
75	15715	20589
70	17749	21812
65	19305	22825
60	20601	23691
55	21644	24455
50	22663	25117
45	23625	25725

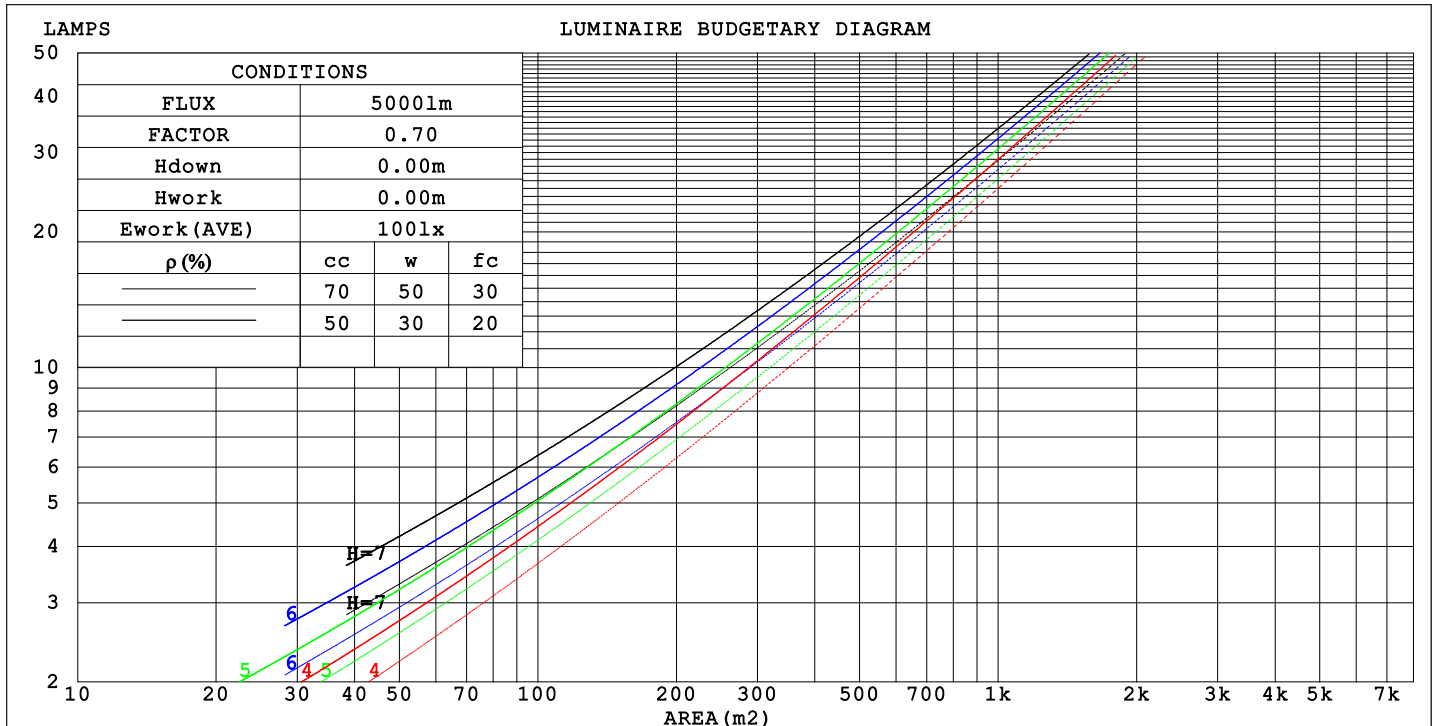
C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date: 01 December 2022

γ Range: 0 - 90DEG
 γ Interval: 2.5DEG
 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: 99POM1505030/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 1500 x 50 x 70	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															



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:01 December 2022

γ Range: 0 - 90DEG
γ Interval: 2.5DEG
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: 99POM1505030/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 1500 x 50 x 70	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	.328	.187	.059	.321	.183	.058	.306	.176	.056	.293	.169	.054	.281	.163	.052	
2.0	.311	.171	.052	.304	.168	.052	.292	.162	.050	.280	.157	.049	.269	.152	.048	
3.0	.289	.154	.046	.283	.152	.046	.272	.147	.045	.262	.143	.044	.252	.139	.043	
4.0	.268	.139	.041	.262	.137	.041	.252	.134	.040	.243	.131	.039	.235	.127	.039	
5.0	.248	.126	.037	.243	.125	.036	.235	.122	.036	.226	.119	.036	.219	.117	.035	
6.0	.231	.116	.033	.226	.114	.033	.219	.112	.033	.211	.110	.032	.204	.108	.032	
7.0	.215	.106	.030	.211	.105	.030	.204	.103	.030	.198	.101	.029	.191	.099	.029	
8.0	.201	.098	.028	.198	.097	.028	.191	.096	.027	.185	.094	.027	.180	.092	.027	
9.0	.189	.091	.025	.186	.090	.025	.180	.089	.025	.175	.088	.025	.170	.086	.025	
10.0	.178	.085	.024	.175	.084	.024	.170	.083	.023	.165	.082	.023	.160	.081	.023	

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	.209	.209	.209	.179	.179	.179	.122	.122	.122	.070	.070	.070	.022	.022	.022	
1.0	.197	.172	.149	.169	.147	.128	.116	.101	.088	.066	.059	.051	.021	.019	.017	
2.0	.188	.145	.109	.161	.125	.094	.110	.086	.066	.064	.050	.038	.020	.016	.013	
3.0	.179	.126	.083	.154	.108	.072	.106	.075	.050	.061	.044	.030	.020	.014	.010	
4.0	.171	.111	.065	.147	.096	.056	.101	.067	.040	.058	.039	.024	.019	.013	.008	
5.0	.163	.099	.053	.140	.086	.046	.096	.060	.032	.056	.035	.019	.018	.012	.006	
6.0	.155	.090	.044	.133	.078	.038	.092	.055	.027	.053	.032	.016	.017	.011	.005	
7.0	.147	.083	.037	.127	.072	.032	.088	.050	.023	.051	.030	.014	.016	.010	.004	
8.0	.140	.076	.032	.121	.066	.028	.084	.046	.020	.049	.027	.012	.016	.009	.004	
9.0	.134	.071	.028	.115	.061	.024	.080	.043	.017	.047	.025	.010	.015	.008	.003	
10.0	.128	.066	.025	.110	.057	.022	.076	.040	.015	.045	.024	.009	.014	.008	.003	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:01 December 2022

γ Range: 0 - 90DEG
γ Interval: 2.5DEG
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: 99POM1505030/WH					TYPE:					WEIGHT: 1				
SPEC.:					DIM.: 1500 x 50 x 70					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	18.2	19.7	18.5	19.9	20.1	18.9	20.4	19.1	20.6	20.8				
3H	19.6	20.9	19.9	21.2	21.4	20.4	21.8	20.7	22.0	22.3				
4H	20.1	21.4	20.4	21.6	21.9	21.0	22.4	21.4	22.6	22.9				
6H	20.3	21.6	20.7	21.9	22.1	21.5	22.8	21.8	23.0	23.3				
8H	20.4	21.6	20.7	21.9	22.2	21.7	22.9	22.0	23.1	23.4				
12H	20.4	21.5	20.7	21.8	22.1	21.8	22.9	22.1	23.2	23.5				
4H 2H	18.9	20.2	19.2	20.5	20.7	19.4	20.7	19.7	20.9	21.2				
3H	20.4	21.5	20.7	21.8	22.1	21.1	22.3	21.5	22.6	22.9				
4H	21.0	22.0	21.4	22.4	22.7	21.9	22.9	22.3	23.3	23.6				
6H	21.4	22.3	21.8	22.7	23.0	22.5	23.4	22.9	23.8	24.1				
8H	21.5	22.4	21.9	22.7	23.1	22.7	23.6	23.1	23.9	24.3				
12H	21.5	22.3	21.9	22.7	23.1	22.9	23.6	23.3	24.0	24.4				
8H 4H	21.3	22.2	21.7	22.5	22.9	22.1	23.0	22.5	23.3	23.7				
6H	21.8	22.5	22.3	22.9	23.4	22.8	23.6	23.3	24.0	24.4				
8H	22.0	22.6	22.4	23.0	23.5	23.1	23.8	23.6	24.2	24.6				
12H	22.0	22.6	22.5	23.0	23.5	23.4	23.9	23.8	24.4	24.8				
12H 4H	21.3	22.1	21.7	22.5	22.9	22.1	22.9	22.5	23.3	23.7				
6H	21.9	22.5	22.4	23.0	23.4	22.9	23.5	23.3	23.9	24.4				
8H	22.1	22.6	22.5	23.1	23.5	23.2	23.7	23.7	24.2	24.7				
Variations with the observer position at spacings(CIE Pub.117):														
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2								
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3								
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.3								

CIE Pub.117, 4500 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 5.2)
Area: 0.06678 m2

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:01 December 2022

γ Range: 0 - 90DEG
γ Interval: 2.5DEG
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: 99POM1505030/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 1500 x 50 x 70	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.:	Shielding Angle:

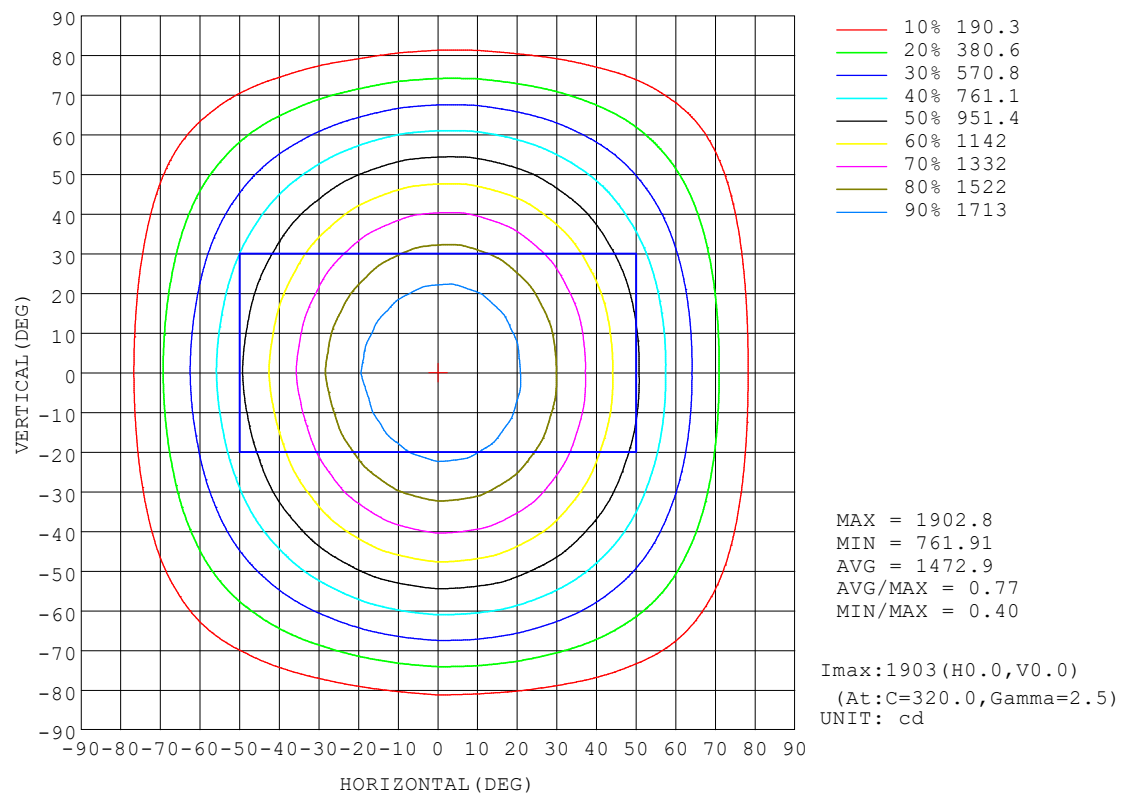
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	65	52	45	64	52	45	63	51	44	37
0.80	76	63	55	75	63	55	73	62	55	47
1.00	85	73	65	84	72	65	81	74	64	57
1.25	93	81	74	91	81	73	88	79	72	65
1.50	98	87	80	96	87	79	93	85	78	70
2.00	105	96	89	103	95	89	100	93	87	79
2.50	110	101	95	107	100	94	103	97	92	83
3.00	113	106	100	111	104	99	106	101	96	87
4.00	117	111	106	115	109	105	110	106	102	92
5.00	120	115	111	117	113	109	112	109	105	96
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 01 December 2022

γ Range: 0 - 90DEG
γ Interval: 2.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity: 65.0%
Test Distance: 6.265m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: 99POM1505030/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 1500 x 50 x 70	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.:	Shielding Angle:

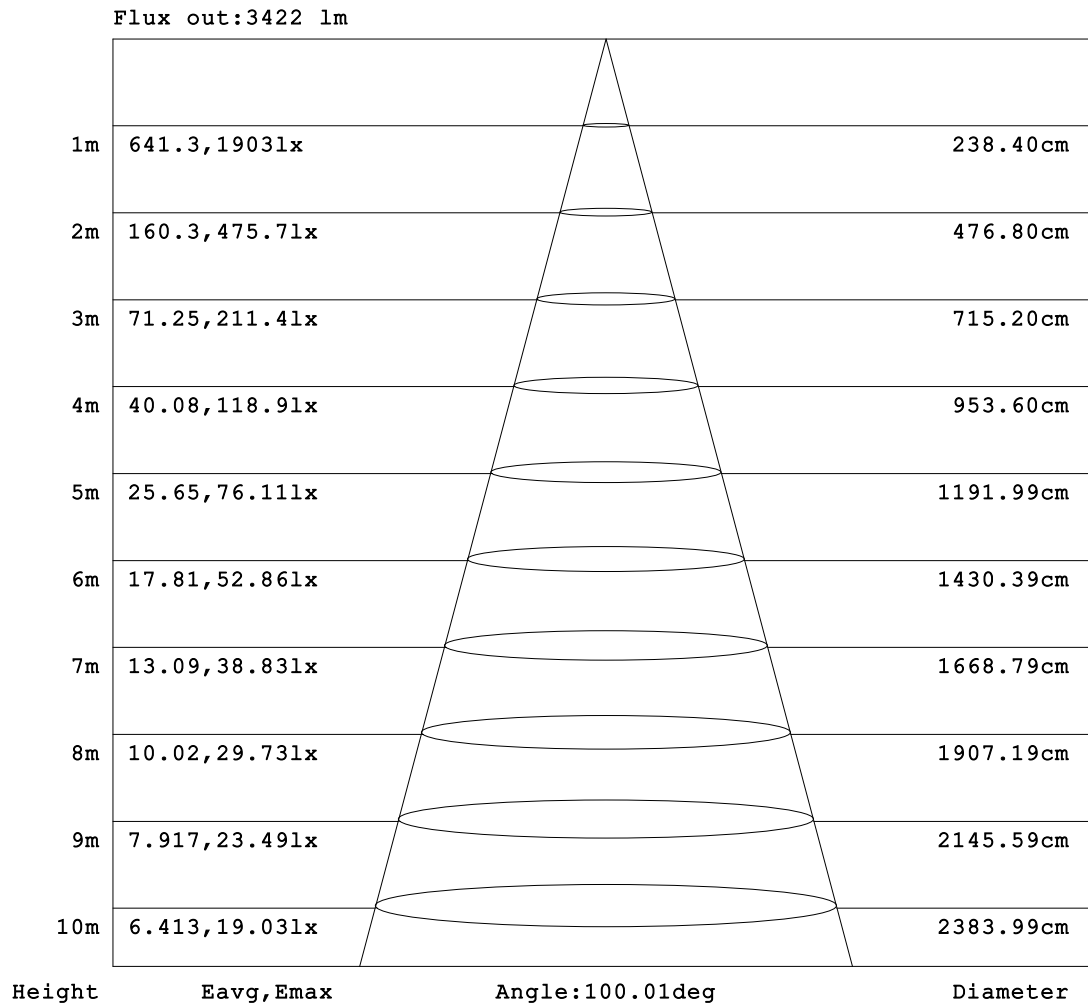


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:01 December 2022

γ Range: 0 - 90DEG
γ Interval: 2.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

AAI Figure

NAME: 99POM1505030/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 1500 x 50 x 70	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.:	Shielding Angle:



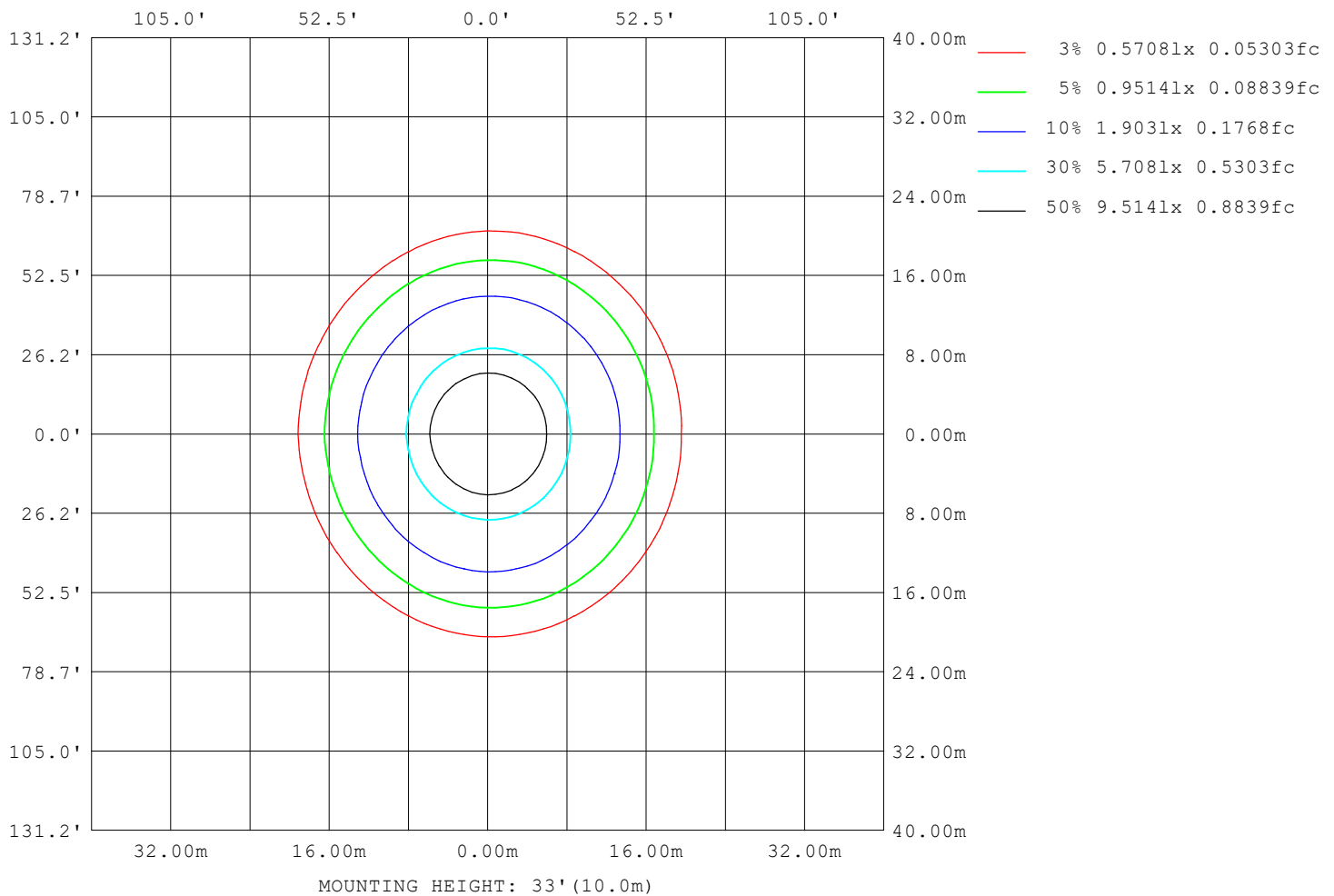
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date: 01 December 2022

γ Range: 0 - 90DEG
 γ Interval: 2.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
 Humidity: 65.0%
 Test Distance: 6.265m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

NAME: 99POM1505030/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 1500 x 50 x 70	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 01 December 2022

γ Range: 0 - 90DEG
γ Interval: 2.5DEG
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: 99POM1505030/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 1500 x 50 x 70	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.:	Shielding Angle:

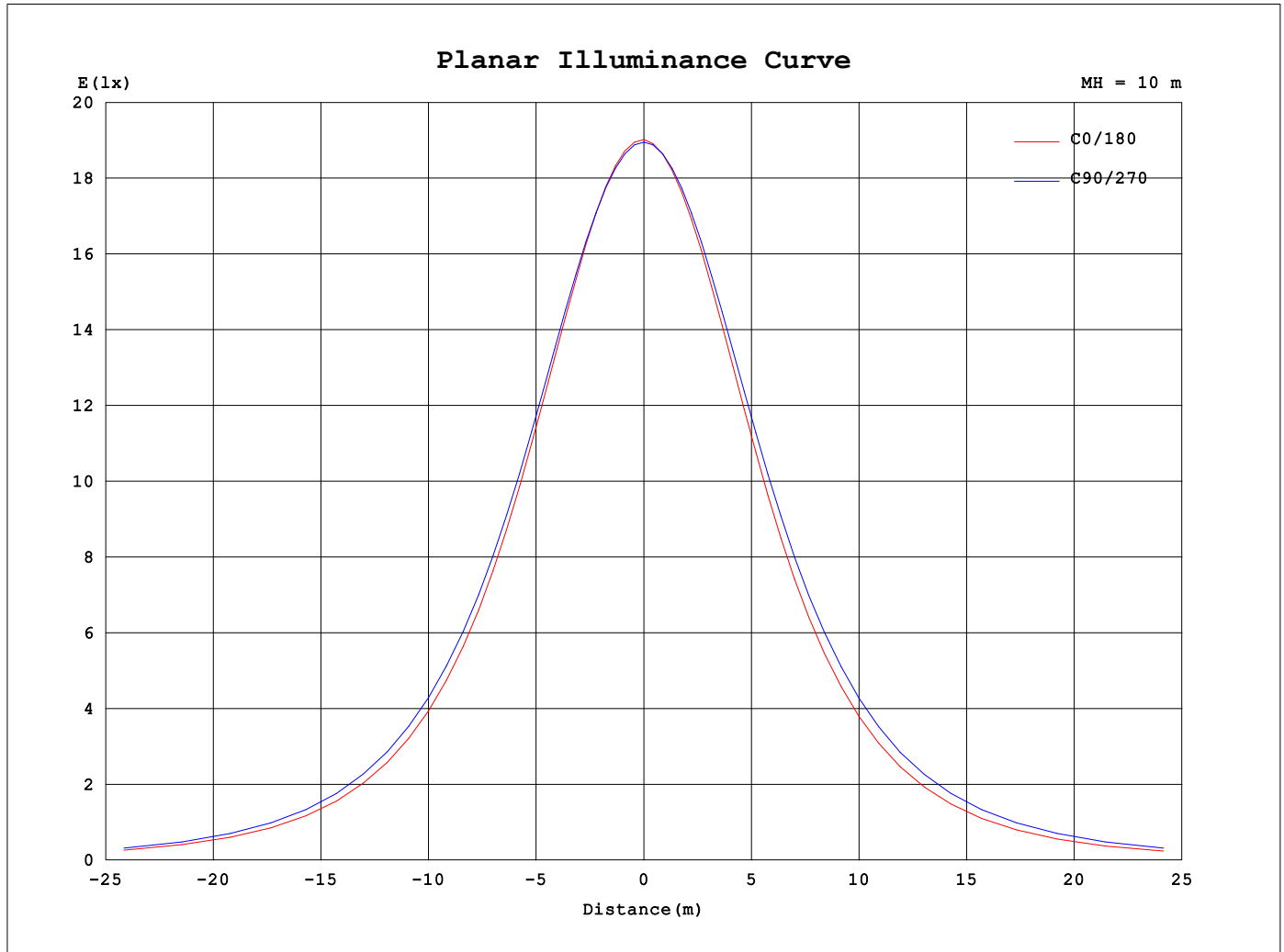
AvgL	cd/m2
L_0~180 (65) av	18451
L_0~180 (75) av	14494
L_0~180 (85) av	5539
L_90~270 (65) av	22846
L_90~270 (75) av	20641
L_90~270 (85) av	17137
L_45 (65) av	20222
L_45 (75) av	16795
L_45 (85) av	8449

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:01 December 2022

γ Range: 0 - 90DEG
γ Interval: 2.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date: 01 December 2022

γ Range: 0 - 90DEG
 γ Interval: 2.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
 Humidity: 65.0%
 Test Distance: 6.265m [K=1.0000]
 Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 2.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

```

```

γ Range: 0 - 90DEG
γ Interval: 2.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

```