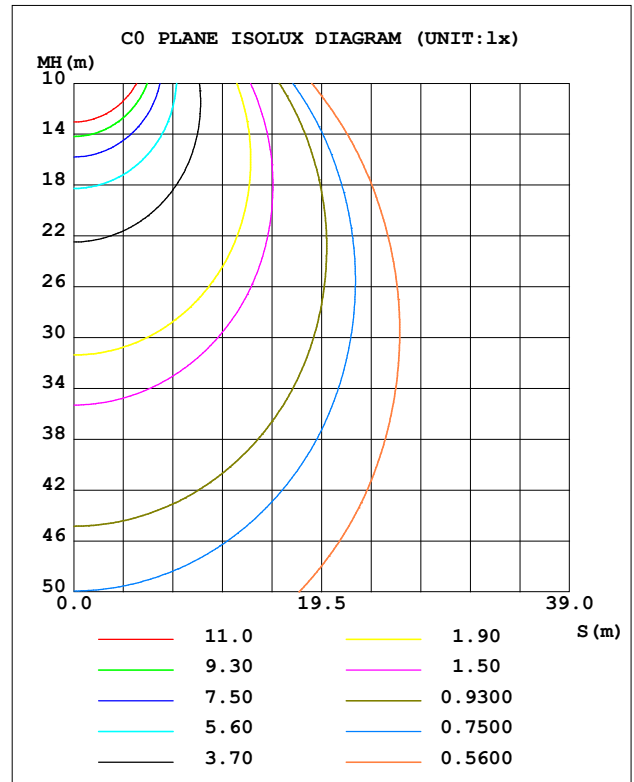
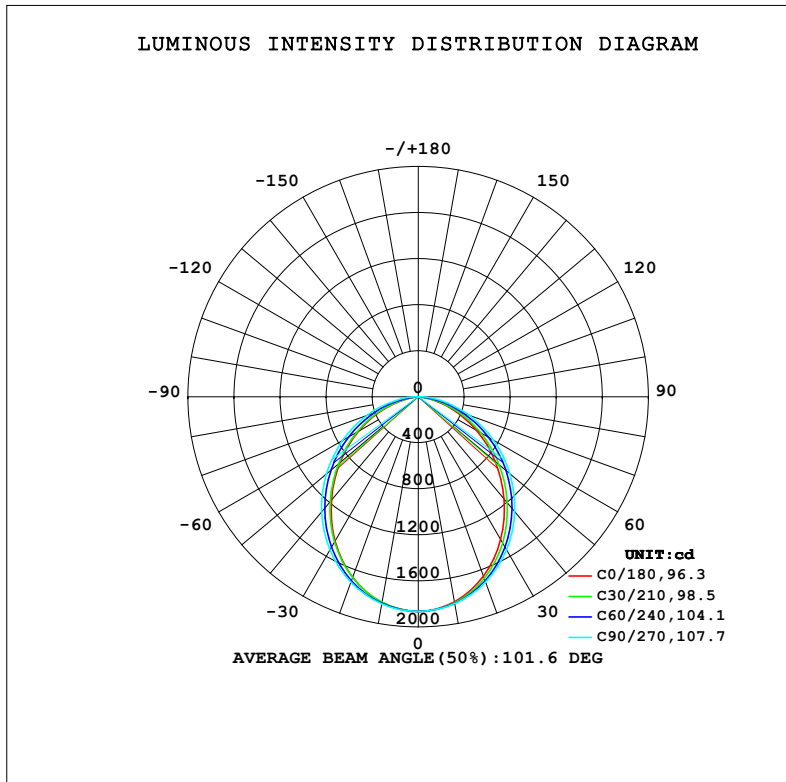


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: 99POM1505030/BL	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/BL	Imax (cd)	1864	S/MH (C0/180)	1.16
NOMINAL POWER (W)	50	LOR (%)	103.7	S/MH (C90/270)	1.23
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	4664.9	η UP, DN (C0-180)	0.0, 51.7
NOMINAL FLUX (lm)	4500	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 52.0
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	230	η down (%)	103.7	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	1809	1820	1825	1815	1814	1817	1827	1822	0- 10	175.8	175.8	3.77, 3.91
20	1658	1690	1713	1682	1669	1684	1714	1696	10- 20	497.0	672.8	14.4, 15
30	1432	1488	1533	1478	1447	1481	1536	1497	20- 30	734.2	1407	30.2, 31.3
40	1158	1236	1303	1224	1174	1226	1306	1246	30- 40	853.2	2260	48.5, 50.2
50	871.4	952.8	1039	941.2	885.2	942.8	1041	962.8	40- 50	845.4	3106	66.6, 69
60	586.9	663.1	756.1	652.4	597.0	653.6	761.0	672.5	50- 60	725.5	3831	82.1, 85.1
70	312.2	378.8	470.3	369.0	321.2	369.9	474.9	386.8	60- 70	519.4	4350	93.3, 96.7
80	74.38	121.7	204.5	112.9	77.20	113.6	208.5	128.1	70- 80	266.8	4617	99, 103
90	1.815	2.270	3.113	2.395	1.511	2.030	2.794	1.973	80- 90	47.69	4665	100, 104
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): 2691.4 lm

%lum = 57.7%

%lamp = 59.8%

Conical surface Flux(130deg): 4120.6 lm

%lum = 88.3%

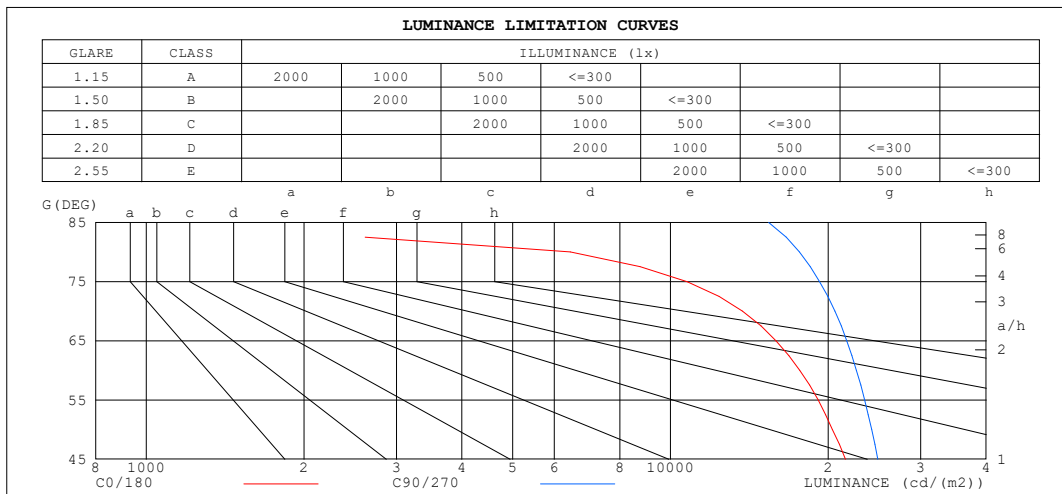
%lamp = 91.6%

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/BL	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	448	15382
80	6434	17625
75	10748	19256
70	13712	20581
65	15891	21689
60	17634	22632
55	19126	23451
50	20364	24189
45	21580	24853

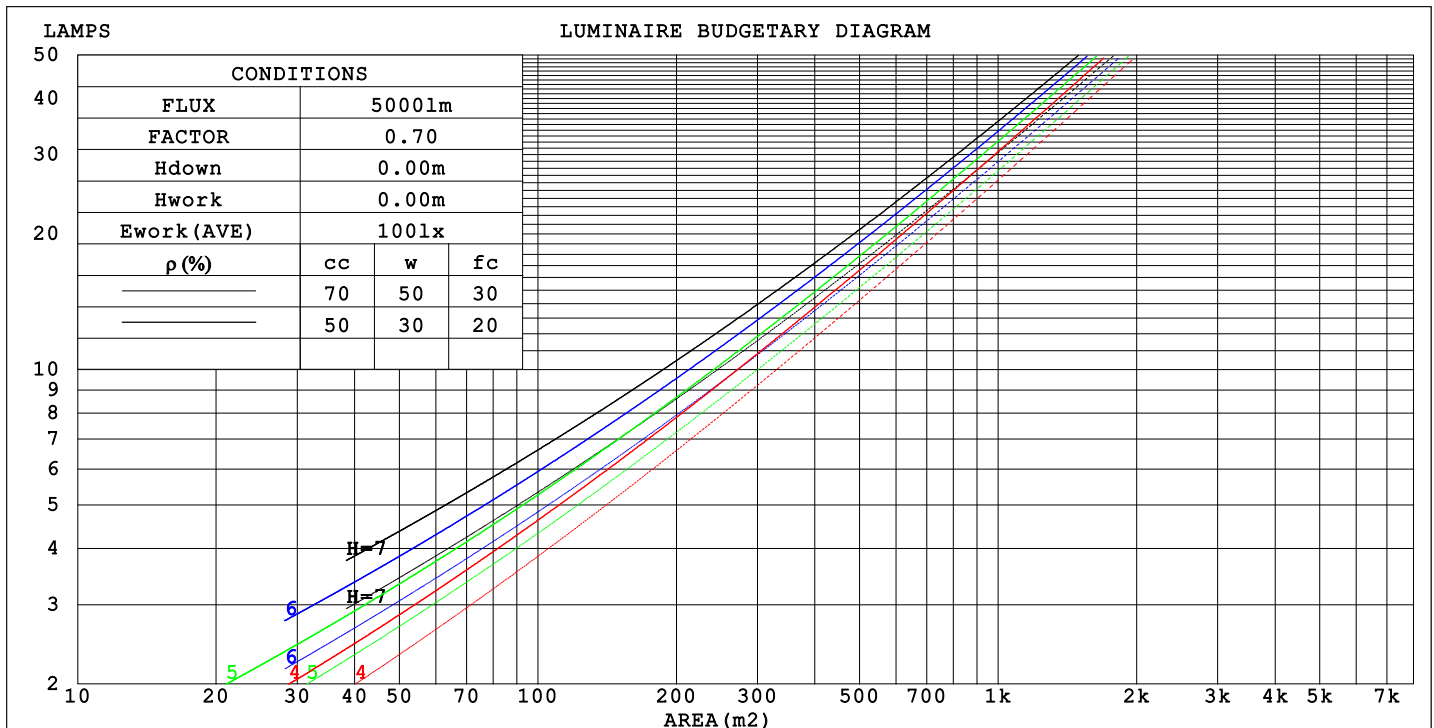
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 01 December 2022

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/BL	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/BL	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	.300	.170	.054	.292	.167	.053	.279	.160	.051	.266	.154	.049	.255	.148	.048	
2.0	.286	.157	.048	.280	.154	.048	.268	.149	.046	.257	.144	.045	.247	.140	.044	
3.0	.267	.142	.043	.262	.140	.042	.251	.136	.041	.241	.132	.041	.232	.129	.040	
4.0	.248	.129	.038	.243	.127	.038	.234	.124	.037	.225	.121	.037	.217	.118	.036	
5.0	.231	.118	.034	.226	.116	.034	.218	.114	.033	.210	.111	.033	.203	.109	.033	
6.0	.215	.108	.031	.211	.107	.031	.204	.104	.030	.197	.102	.030	.190	.100	.030	
7.0	.201	.099	.028	.197	.098	.028	.190	.096	.028	.184	.094	.027	.178	.093	.027	
8.0	.188	.092	.026	.185	.091	.026	.179	.089	.026	.173	.088	.025	.168	.086	.025	
9.0	.176	.085	.024	.174	.085	.024	.168	.083	.024	.163	.082	.023	.159	.081	.023	
10.0	.166	.080	.022	.164	.079	.022	.159	.078	.022	.154	.077	.022	.150	.075	.022	

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	.197	.197	.197	.169	.169	.169	.115	.115	.115	.066	.066	.066	.021	.021	.021	
1.0	.185	.162	.141	.159	.139	.121	.109	.096	.084	.062	.055	.049	.020	.018	.016	
2.0	.176	.137	.104	.151	.118	.090	.104	.081	.062	.060	.047	.037	.019	.015	.012	
3.0	.168	.118	.079	.144	.102	.068	.099	.071	.048	.057	.041	.028	.018	.013	.009	
4.0	.160	.104	.062	.137	.090	.054	.095	.063	.038	.055	.037	.022	.018	.012	.007	
5.0	.153	.094	.050	.131	.081	.044	.090	.057	.031	.052	.033	.018	.017	.011	.006	
6.0	.145	.085	.042	.125	.073	.036	.086	.051	.026	.050	.030	.015	.016	.010	.005	
7.0	.138	.078	.035	.119	.067	.031	.082	.047	.022	.048	.028	.013	.015	.009	.004	
8.0	.132	.072	.030	.113	.062	.026	.078	.044	.019	.046	.026	.011	.015	.008	.004	
9.0	.126	.066	.027	.108	.058	.023	.075	.041	.016	.044	.024	.010	.014	.008	.003	
10.0	.120	.062	.024	.103	.054	.021	.072	.038	.015	.042	.022	.009	.014	.007	.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/BL					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	17.6	19.1	17.9	19.3	19.5	18.6	20.1	18.9	20.3	20.5				
3H	18.7	20.0	19.0	20.3	20.5	20.2	21.5	20.4	21.7	22.0				
4H	19.0	20.3	19.3	20.5	20.8	20.8	22.0	21.1	22.3	22.5				
6H	19.1	20.3	19.4	20.6	20.9	21.2	22.4	21.5	22.7	23.0				
8H	19.1	20.2	19.4	20.5	20.8	21.3	22.5	21.7	22.8	23.1				
12H	19.0	20.1	19.4	20.4	20.7	21.4	22.6	21.8	22.8	23.1				
4H 2H	18.2	19.5	18.6	19.8	20.0	19.1	20.4	19.4	20.6	20.9				
3H	19.5	20.6	19.8	20.9	21.2	20.7	21.9	21.1	22.2	22.5				
4H	19.9	20.9	20.3	21.2	21.6	21.5	22.5	21.8	22.8	23.1				
6H	20.1	21.0	20.4	21.3	21.7	22.0	23.0	22.4	23.3	23.7				
8H	20.0	20.9	20.4	21.2	21.6	22.2	23.1	22.6	23.4	23.8				
12H	20.0	20.8	20.4	21.1	21.5	22.4	23.1	22.8	23.5	23.9				
8H 4H	20.2	21.0	20.6	21.4	21.7	21.6	22.4	22.0	22.8	23.2				
6H	20.4	21.1	20.8	21.5	21.9	22.3	23.0	22.7	23.4	23.8				
8H	20.4	21.0	20.8	21.4	21.9	22.5	23.1	23.0	23.6	24.0				
12H	20.3	20.9	20.8	21.3	21.8	22.7	23.2	23.2	23.7	24.1				
12H 4H	20.2	20.9	20.6	21.3	21.7	21.6	22.3	22.0	22.7	23.1				
6H	20.4	21.0	20.9	21.5	21.9	22.2	22.9	22.7	23.3	23.7				
8H	20.4	20.9	20.9	21.4	21.9	22.5	23.0	23.0	23.5	24.0				
Variations with the observer position at spacings(CIE Pub.117):														
S = 1.0H	+ 0.3 / - 0.3					+ 0.2 / - 0.2								
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.3								
2.0H	+ 0.3 / - 0.5					+ 0.3 / - 0.4								

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

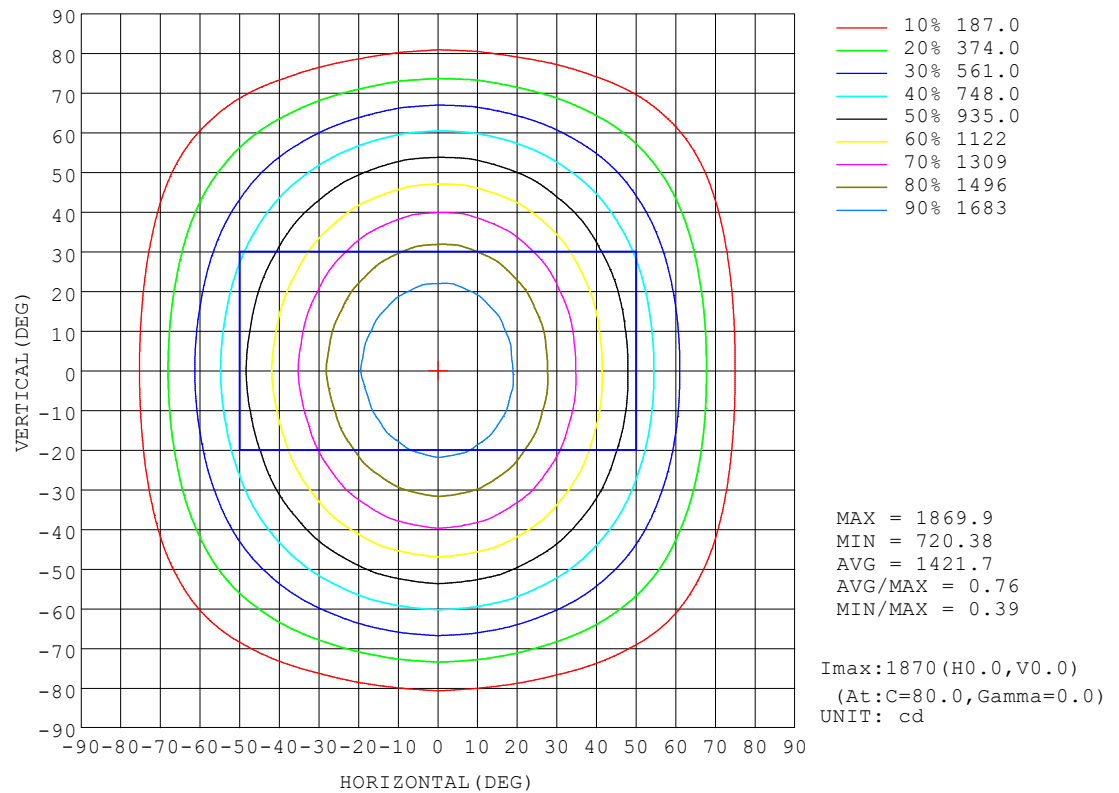
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	62	50	43	61	50	43	60	49	43	36
0.80	72	61	53	71	60	53	69	59	53	46
1.00	81	70	63	80	69	62	77	71	62	55
1.25	88	78	71	87	77	70	84	76	70	62
1.50	93	84	77	92	83	76	89	81	75	68
2.00	100	92	85	98	91	85	95	88	83	75
2.50	104	96	90	102	95	90	98	92	88	79
3.00	107	101	95	105	99	94	101	96	92	83
4.00	111	106	101	109	104	100	104	100	97	88
5.00	114	109	105	111	107	103	106	103	100	91
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/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 1500 x 50 x 70	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.:	Shielding Angle:

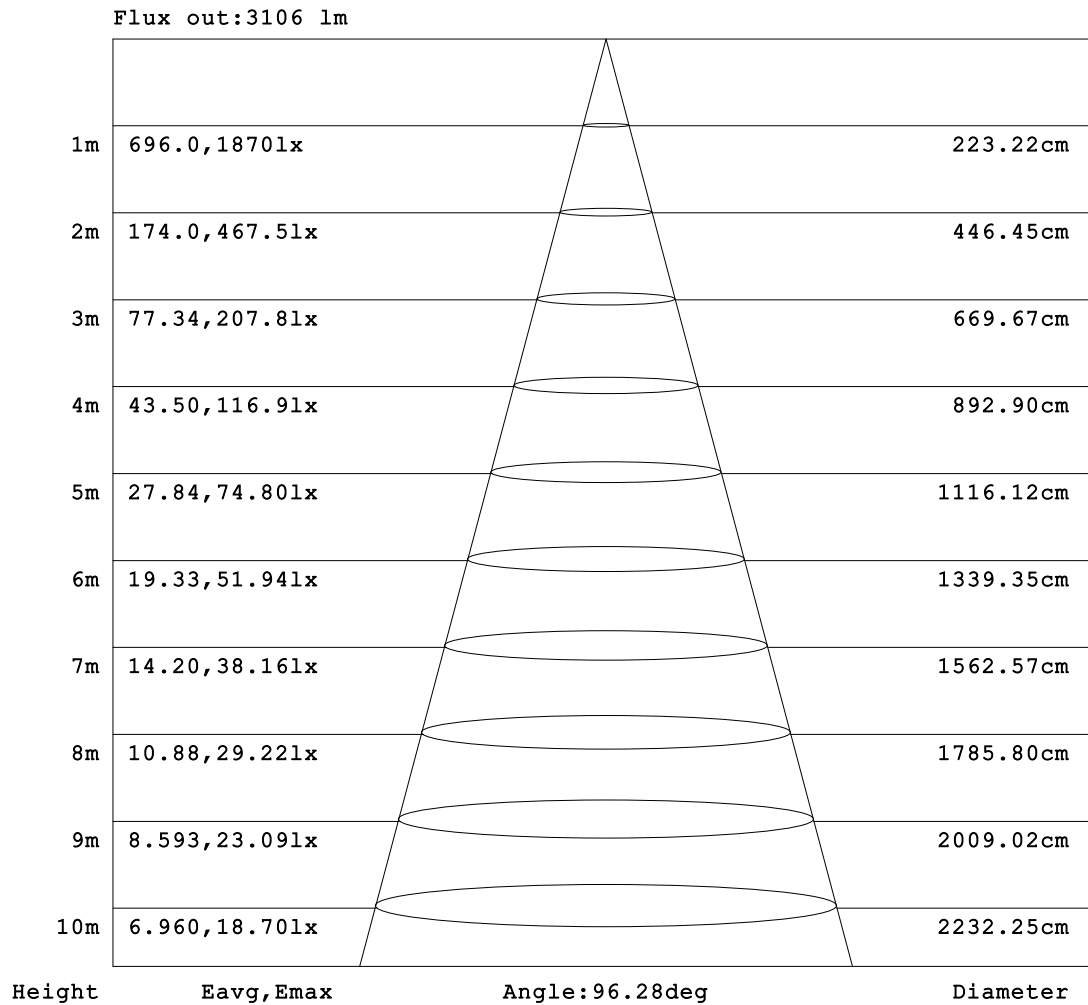


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:01 December 2022

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



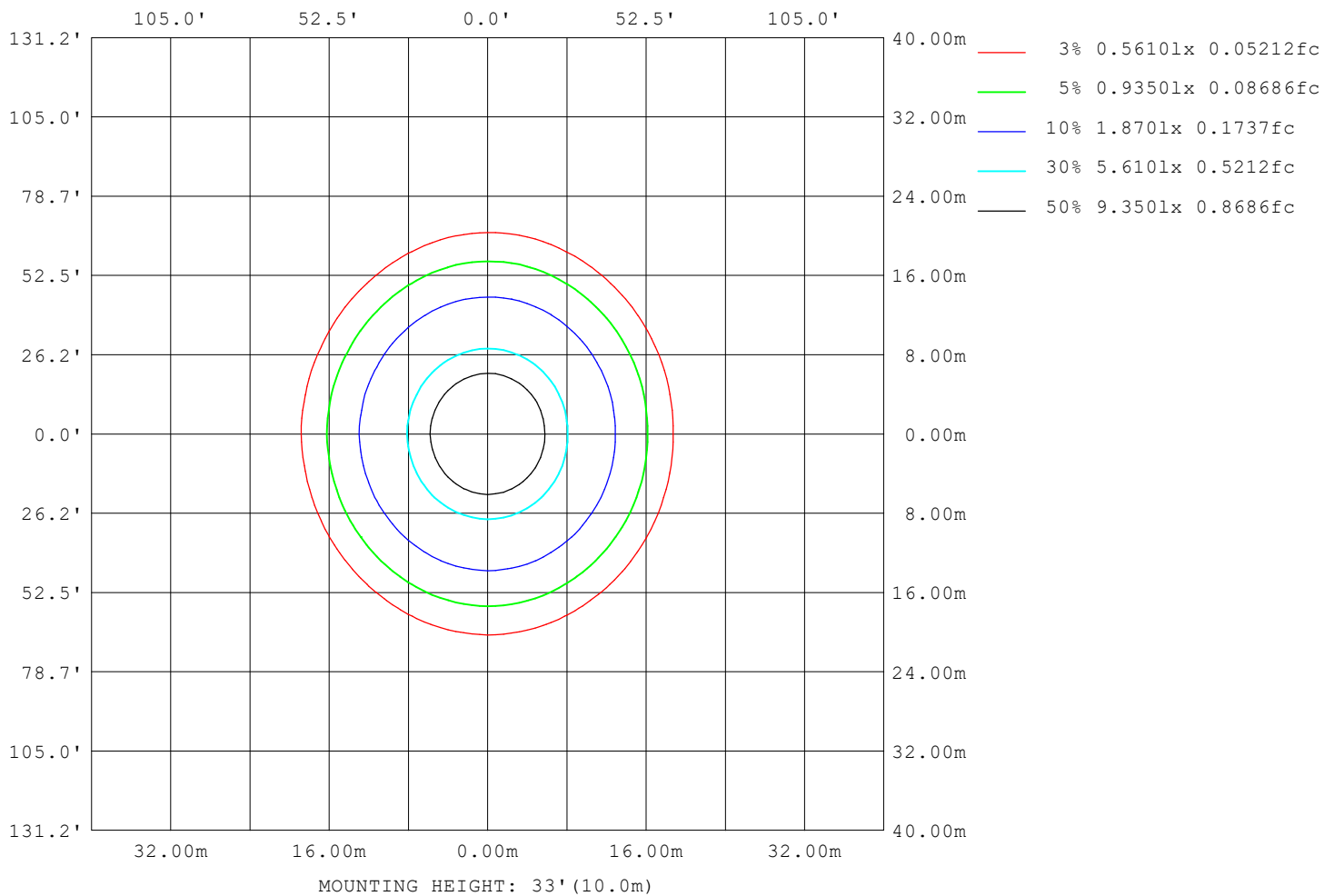
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

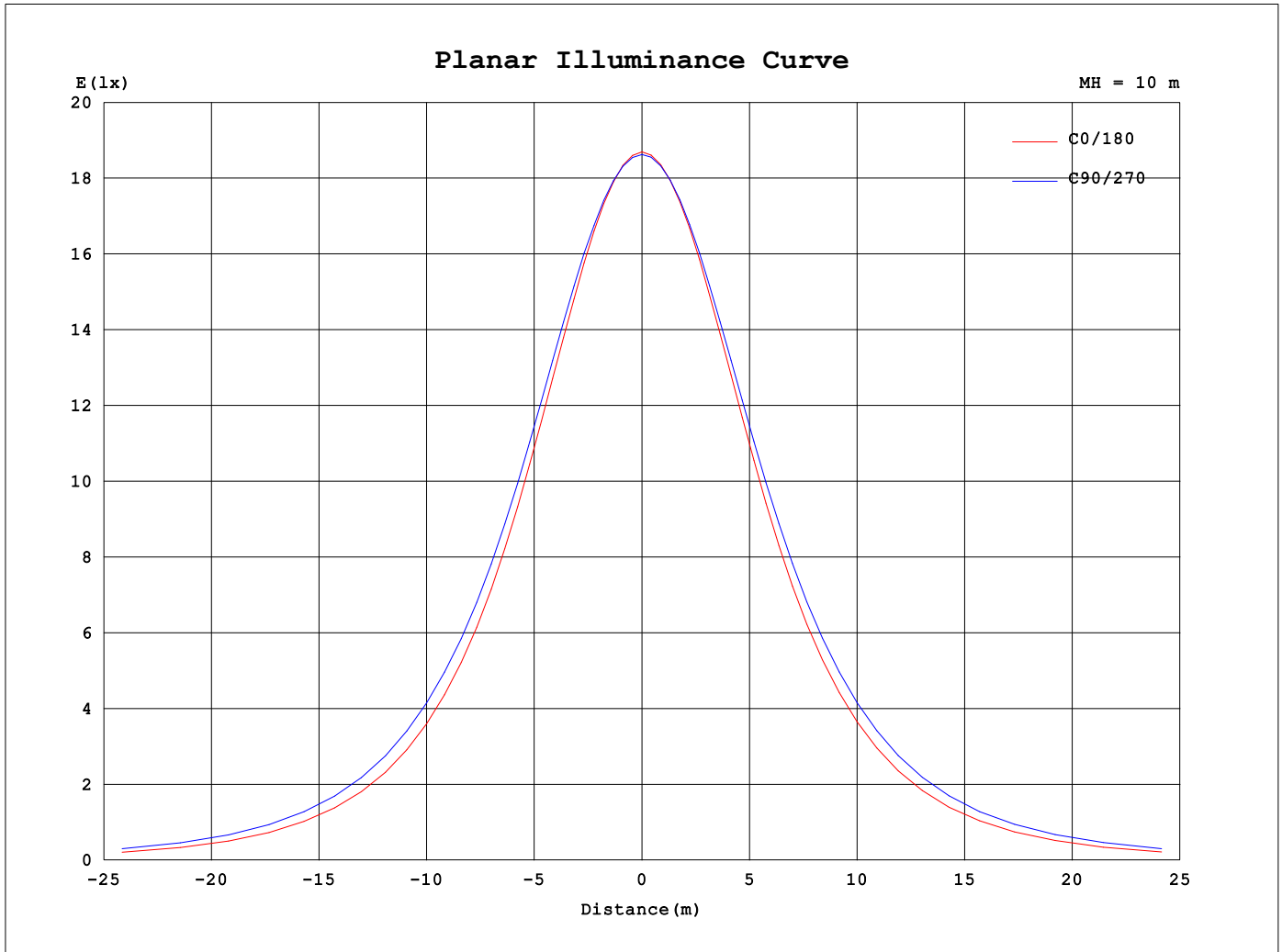
AvgL	cd/m2
L_0~180 (65) av	16013
L_0~180 (75) av	10947
L_0~180 (85) av	439
L_90~270 (65) av	21784
L_90~270 (75) av	19392
L_90~270 (85) av	15704
L_45 (65) av	18282
L_45 (75) av	13998
L_45 (85) av	2471

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:

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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:

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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:

```