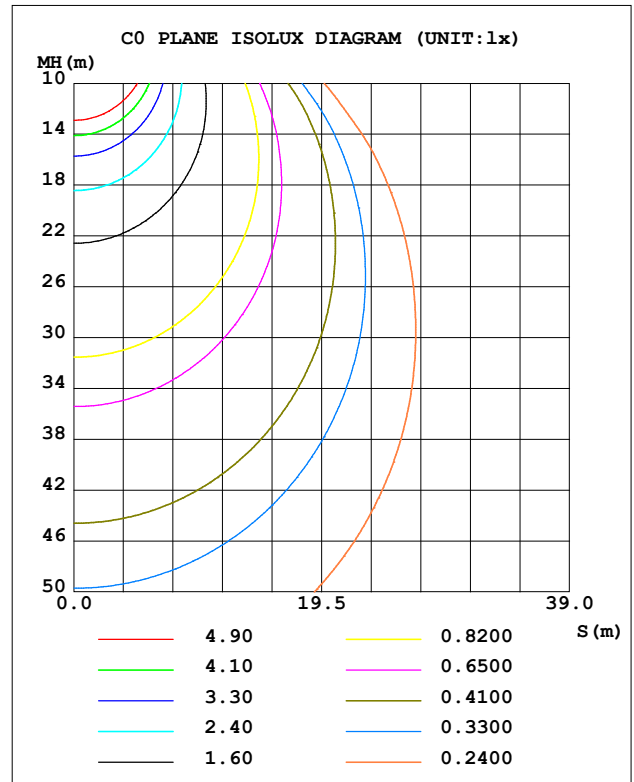
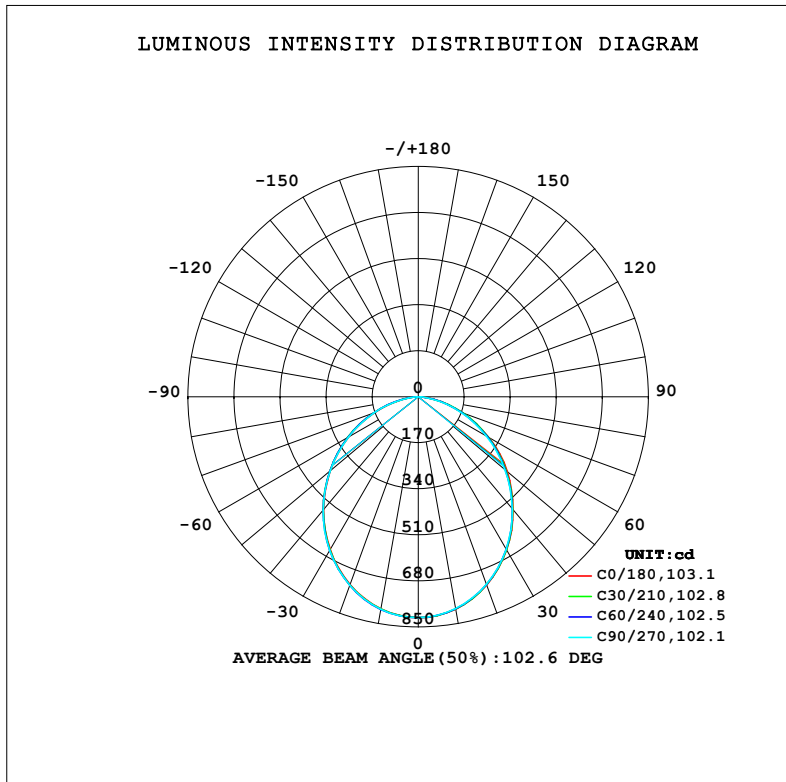


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: 99POMX30/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 50 x 70 x 330	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cross	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	99POMX30/BL	Imax (cd)	815.5	S/MH (C0/180)	1.19
NOMINAL POWER (W)	20	LOR (%)	103.4	S/MH (C90/270)	1.20
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	2067.4	η UP, DN (C0-180)	0.0, 51.4
NOMINAL FLUX (lm)	2000	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 (%)	103.4	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 05 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	796.3	795.3	794.6	794.6	795.4	796.2	796.5	796.4	0- 10	76.91	76.91	3.72,3.85
20	739.2	738.1	736.7	736.8	738.2	740.1	740.4	740.4	10- 20	217.4	294.3	14.2,14.7
30	652.4	651.0	649.3	649.3	651.2	654.7	654.8	654.4	20- 30	321.6	615.9	29.8,30.8
40	545.3	542.3	540.1	540.5	543.9	546.4	547.1	546.5	30- 40	375.1	991.1	47.9,49.6
50	429.2	422.3	417.0	420.9	424.1	426.4	424.5	427.2	40- 50	374.1	1365	66,68.3
60	298.9	297.6	290.2	296.0	297.5	301.7	298.1	302.7	50- 60	323.3	1688	81.7,84.4
70	172.4	174.6	166.7	172.8	171.2	179.9	173.9	179.8	60- 70	232.9	1921	92.9,96.1
80	59.83	62.60	55.18	61.00	58.37	65.54	61.43	66.03	70- 80	121.7	2043	98.8,102
90	1.889	1.475	6.138	1.384	1.933	1.336	6.982	1.280	80- 90	24.29	2067	100,103
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): 1181.5 lm

%lum = 57.1%

%lamp = 59.1%

Conical surface Flux(130deg): 1817.9 lm

%lum = 87.9%

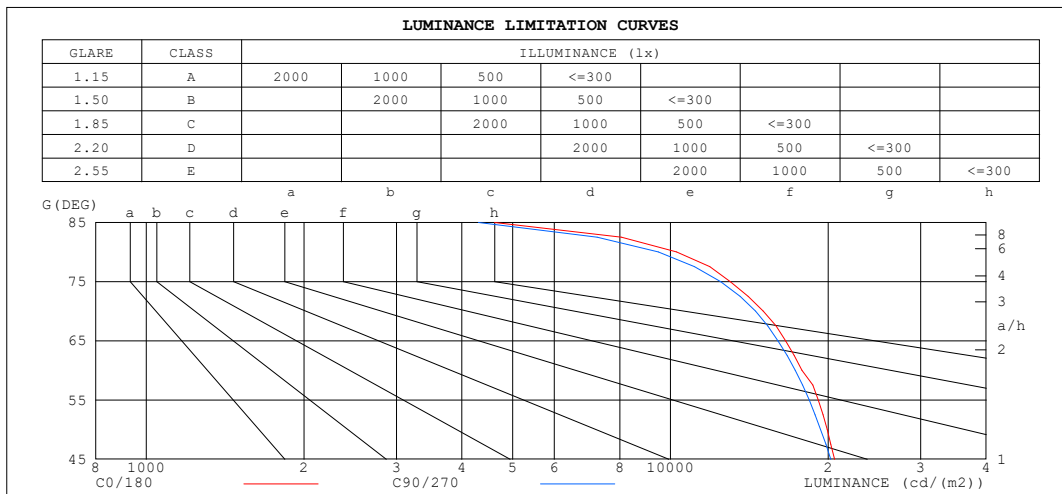
%lamp = 90.9%

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:05 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: 99POMX30/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 50 x 70 x 330	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cross	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4614	4301
80	10269	9472
75	12999	12463
70	15024	14526
65	16575	16038
60	17815	17299
55	19146	18392
50	19900	19336
45	20547	20213

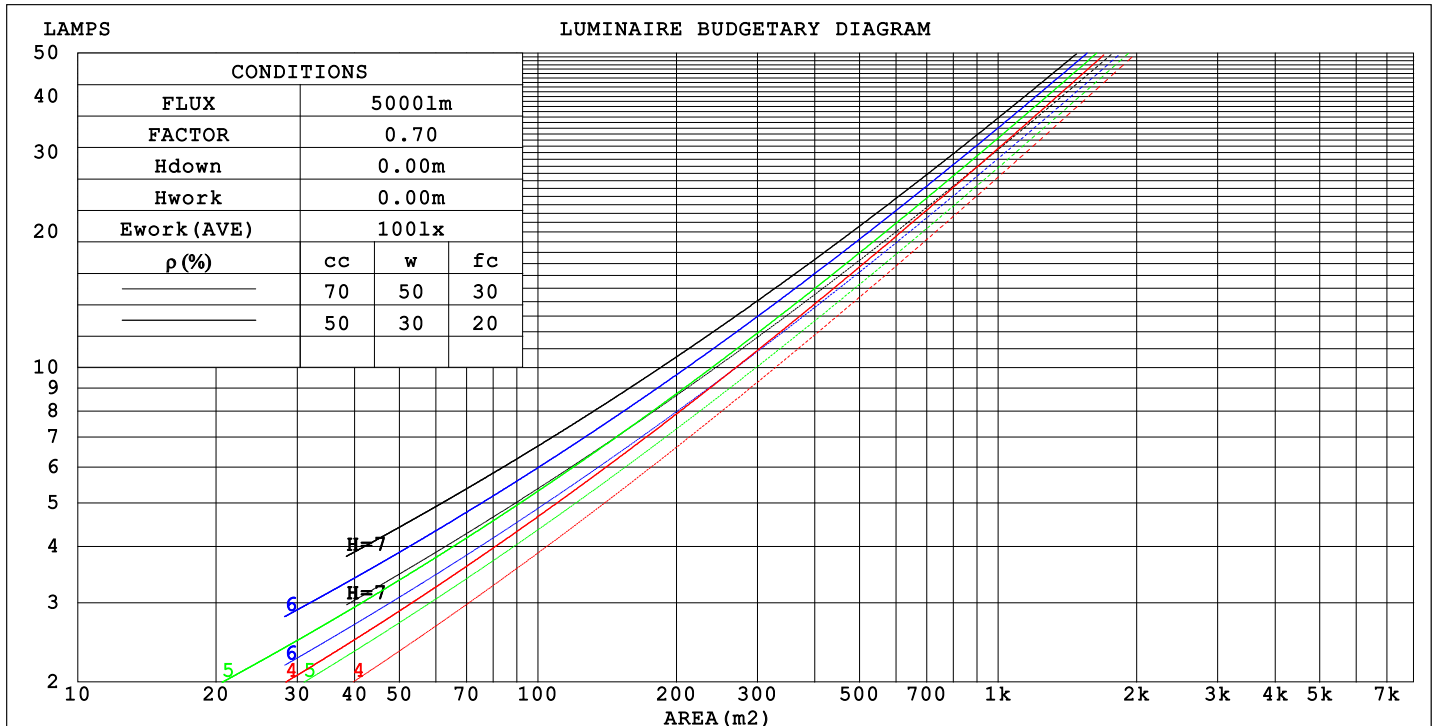
C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3°C
 Operators:
 Test Date: 05 December 2022

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: 99POMX30/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 50 x 70 x 330	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cross	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: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 05 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: 99POMX30/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 50 x 70 x 330	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cross	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	.302	.172	.054	.295	.168	.053	.281	.161	.052	.269	.155	.050	.257	.149	.048	
2.0	.288	.158	.048	.281	.155	.048	.270	.150	.047	.258	.145	.045	.248	.140	.044	
3.0	.268	.143	.043	.263	.141	.042	.252	.137	.042	.242	.133	.041	.233	.129	.040	
4.0	.249	.129	.038	.244	.128	.038	.235	.124	.037	.226	.121	.037	.218	.118	.036	
5.0	.231	.118	.034	.227	.116	.034	.218	.114	.033	.211	.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	.191	.096	.028	.184	.095	.028	.179	.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	.168	.168	.168	.115	.115	.115	.066	.066	.066	.021	.021	.021	
1.0	.185	.162	.140	.158	.139	.121	.108	.095	.084	.062	.055	.049	.020	.018	.016	
2.0	.176	.136	.103	.151	.117	.089	.103	.081	.062	.060	.047	.036	.019	.015	.012	
3.0	.168	.118	.078	.144	.102	.068	.099	.071	.048	.057	.041	.028	.018	.013	.009	
4.0	.160	.104	.062	.137	.090	.053	.094	.063	.038	.055	.037	.022	.018	.012	.007	
5.0	.152	.093	.050	.131	.081	.043	.090	.056	.031	.052	.033	.018	.017	.011	.006	
6.0	.145	.085	.041	.125	.073	.036	.086	.051	.025	.050	.030	.015	.016	.010	.005	
7.0	.138	.077	.035	.119	.067	.030	.082	.047	.022	.048	.028	.013	.015	.009	.004	
8.0	.132	.071	.030	.113	.062	.026	.078	.044	.019	.046	.026	.011	.015	.008	.004	
9.0	.125	.066	.026	.108	.058	.023	.075	.040	.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: MEDIUM
Temperature:25.3°C
Operators:
Test Date:05 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: 99POMX30/BL					TYPE:					WEIGHT: 1				
SPEC.:					DIM.: 50 x 70 x 330					SERIAL No.: 0				
MFR.: Elmark Industries JSC					SUR.: cross					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	20.6	22.0	20.8	22.2	22.4	20.4	21.9	20.7	22.1	22.3				
3H	21.9	23.2	22.2	23.5	23.7	21.7	23.1	22.0	23.3	23.5				
4H	22.3	23.6	22.7	23.9	24.1	22.1	23.4	22.4	23.7	23.9				
6H	22.6	23.8	22.9	24.1	24.4	22.4	23.6	22.7	23.9	24.1				
8H	22.7	23.8	23.0	24.1	24.4	22.4	23.6	22.7	23.9	24.1				
12H	22.6	23.8	23.0	24.1	24.4	22.4	23.5	22.7	23.8	24.1				
4H 2H	21.1	22.4	21.4	22.6	22.9	21.0	22.3	21.3	22.5	22.8				
3H	22.6	23.7	22.9	24.0	24.3	22.4	23.6	22.8	23.9	24.2				
4H	23.2	24.2	23.6	24.5	24.9	23.0	24.0	23.4	24.3	24.7				
6H	23.6	24.5	24.0	24.8	25.2	23.3	24.2	23.7	24.6	25.0				
8H	23.6	24.5	24.0	24.8	25.2	23.4	24.2	23.8	24.6	25.0				
12H	23.6	24.4	24.0	24.8	25.2	23.4	24.1	23.8	24.5	24.9				
8H 4H	23.4	24.2	23.8	24.6	25.0	23.2	24.1	23.6	24.4	24.8				
6H	23.9	24.6	24.3	25.0	25.4	23.7	24.4	24.1	24.8	25.2				
8H	24.0	24.6	24.4	25.0	25.5	23.7	24.4	24.2	24.8	25.2				
12H	24.0	24.5	24.5	25.0	25.5	23.8	24.3	24.2	24.7	25.2				
12H 4H	23.4	24.2	23.8	24.5	24.9	23.2	24.0	23.6	24.4	24.8				
6H	23.9	24.5	24.3	24.9	25.4	23.7	24.3	24.1	24.7	25.2				
8H	24.0	24.6	24.5	25.0	25.5	23.8	24.3	24.3	24.8	25.2				
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	+ 0.3 / - 0.3					+ 0.3 / - 0.4								

CIE Pub.117, 2000 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.4)
Area: 0.03355 m2

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:05 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: 99POMX30/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 50 x 70 x 330	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cross	Shielding Angle:

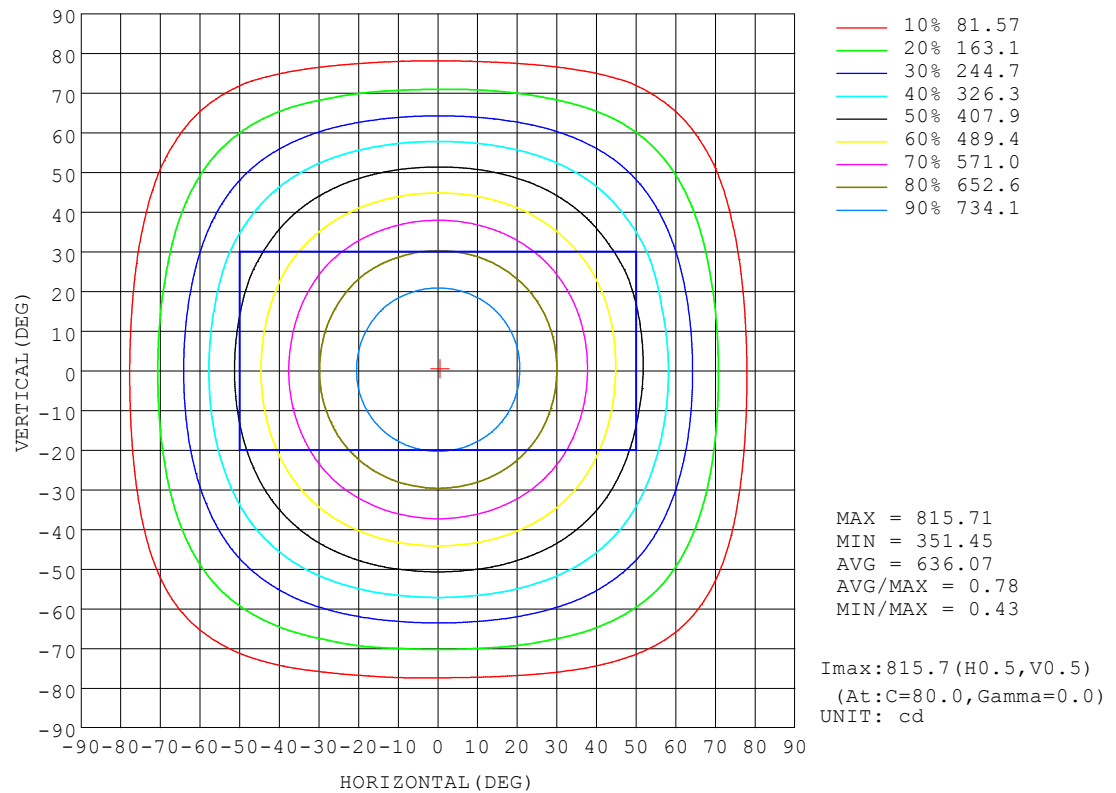
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	61	50	43	61	49	43	59	49	42	36
0.80	72	60	53	71	60	53	69	59	52	45
1.00	80	69	62	79	69	62	77	70	61	54
1.25	88	77	70	86	77	70	83	75	69	62
1.50	93	83	76	91	82	76	88	80	74	67
2.00	100	91	85	98	90	84	94	88	82	75
2.50	103	96	90	101	94	89	97	92	87	79
3.00	107	100	95	105	98	94	100	95	91	83
4.00	111	105	101	108	103	99	104	100	96	87
5.00	113	108	104	111	106	103	106	103	100	90
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: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 05 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: 99POMX30/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 50 x 70 x 330	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cross	Shielding Angle:

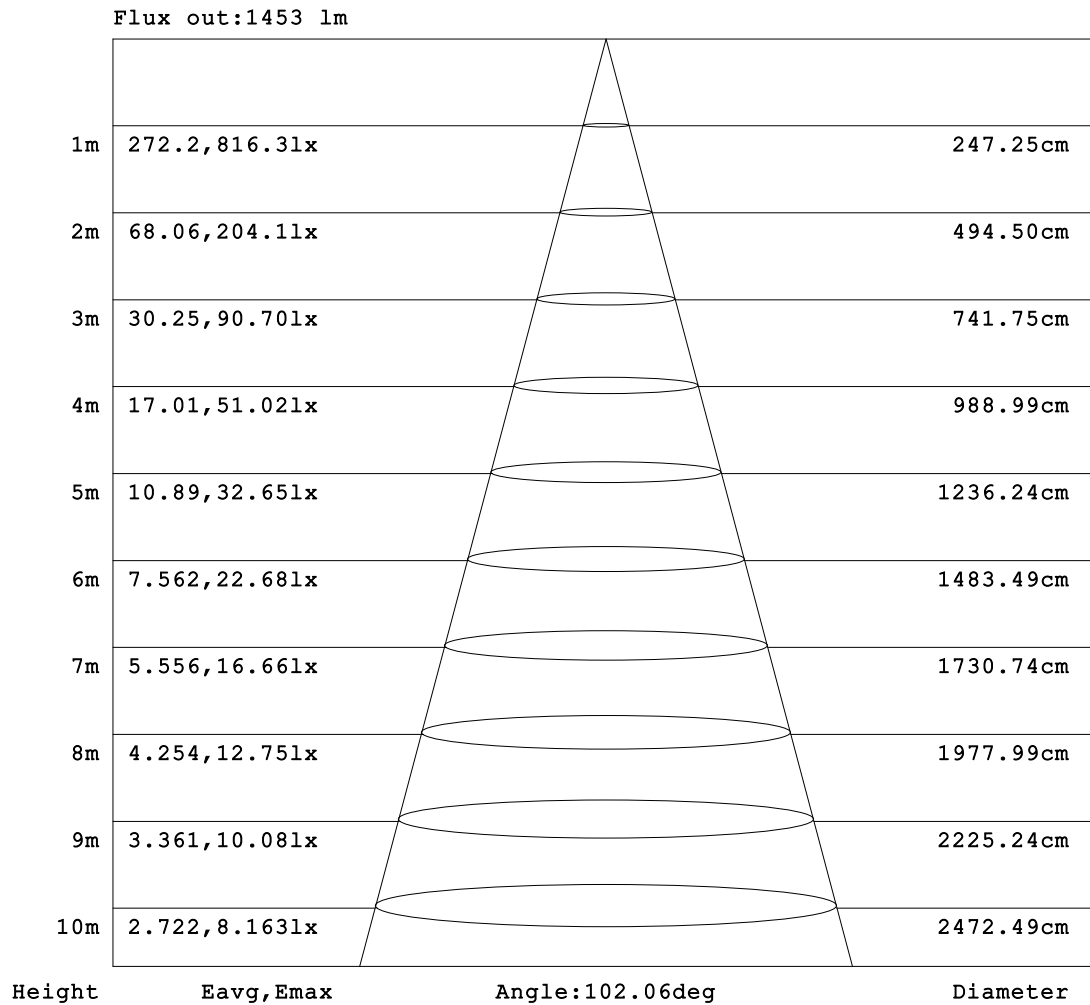


C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: MEDIUM
 Temperature:25.3°C
 Operators:
 Test Date:05 December 2022

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: 99POMX30/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 50 x 70 x 330	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cross	Shielding Angle:



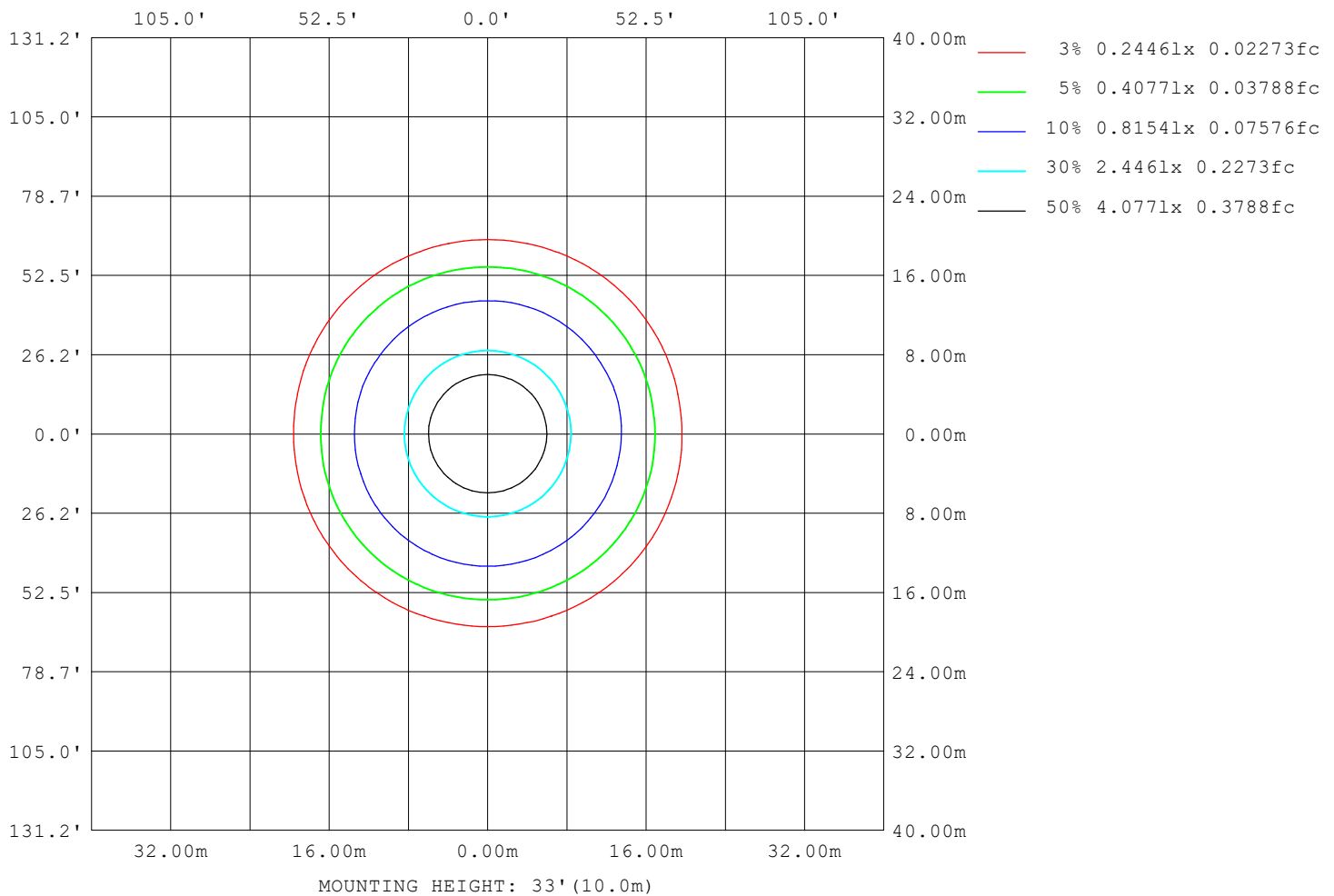
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:05 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: 99POMX30/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 50 x 70 x 330	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cross	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 05 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: 99POMX30/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 50 x 70 x 330	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cross	Shielding Angle:

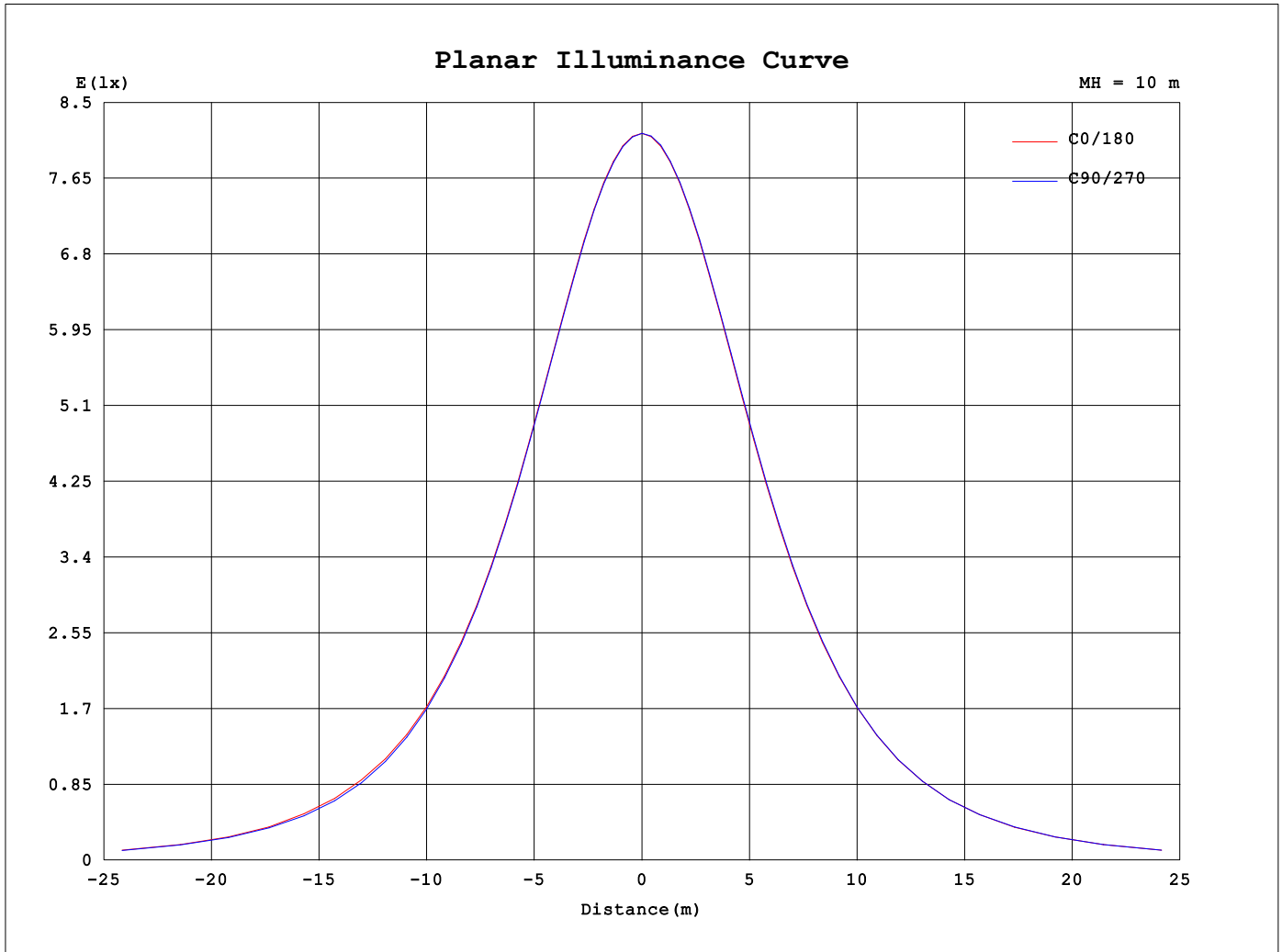
AvgL	cd/m2
L_0~180 (65) av	16531
L_0~180 (75) av	12927
L_0~180 (85) av	4484
L_90~270 (65) av	16308
L_90~270 (75) av	12856
L_90~270 (85) av	5058
L_45 (65) av	16731
L_45 (75) av	13601
L_45 (85) av	6754

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:05 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: MEDIUM
 Temperature: 25.3°C
 Operators:
 Test Date: 05 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:

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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:

```