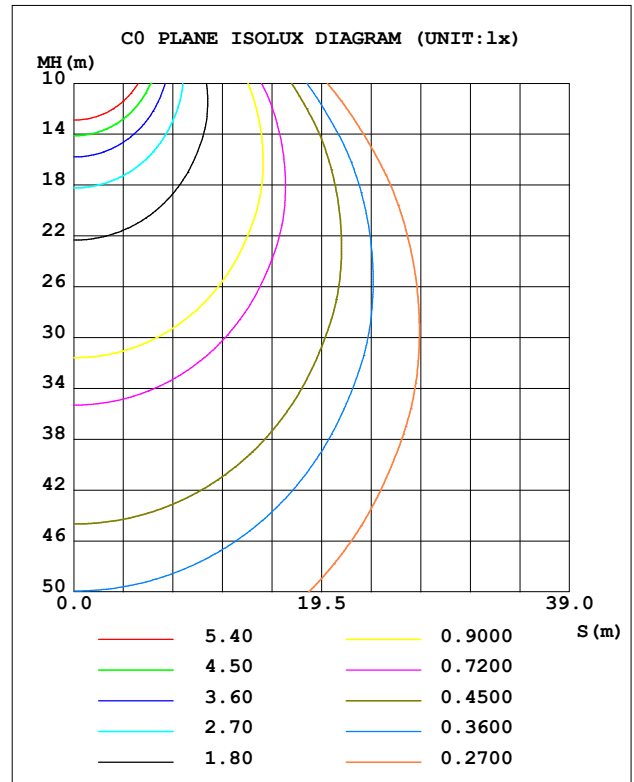
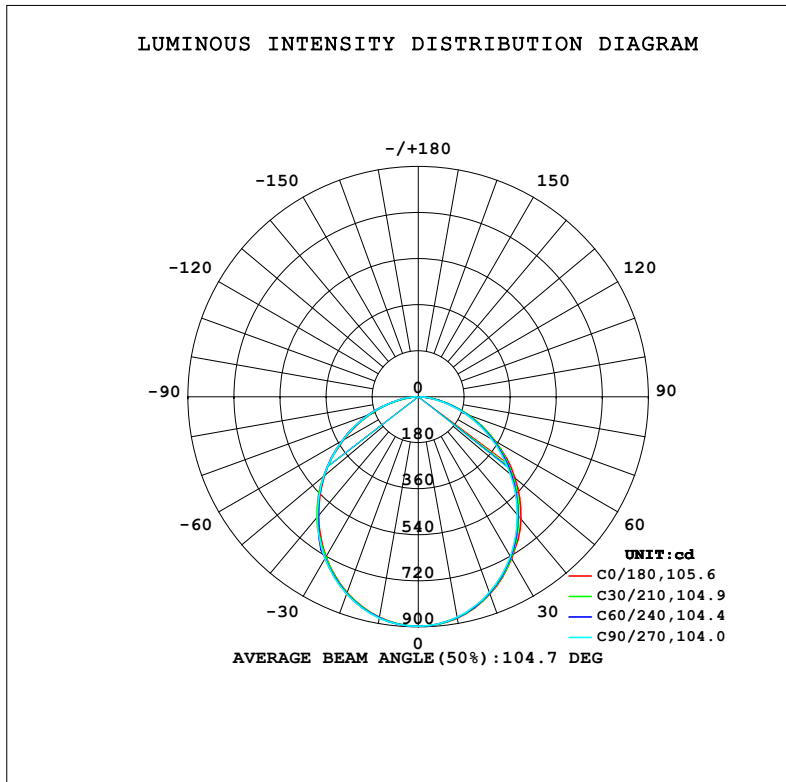


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: 99POMX30/WH	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/WH	I _{max} (cd)	897.5	S/MH (C0/180)	1.20
NOMINAL POWER (W)	20	LOR (%)	117.3	S/MH (C90/270)	1.22
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	2345.0	η UP, DN (C0-180)	0.0, 58.1
NOMINAL FLUX (lm)	2000	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 59.1
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	230	η down (%)	117.3	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	878.6	876.6	874.8	874.5	875.7	877.2	878.6	879.1	0- 10	84.69	84.69	3.61,4.23
20	820.6	817.0	813.7	812.4	815.0	817.5	820.4	821.5	10- 20	240.1	324.8	13.8,16.2
30	730.0	725.2	720.3	718.7	722.1	727.0	730.1	741.3	20- 30	357.2	681.9	29.1,34.1
40	625.3	609.0	602.8	601.3	606.6	615.0	614.4	618.4	30- 40	420.1	1102	47,55.1
50	494.0	479.0	469.8	471.0	478.7	481.1	481.7	488.5	40- 50	422.3	1524	65,76.2
60	347.3	342.2	331.8	334.3	337.9	344.3	343.5	349.1	50- 60	368.2	1892	80.7,94.6
70	207.9	205.8	196.0	198.6	199.4	208.4	207.1	212.9	60- 70	269.8	2162	92.2,108
80	82.73	80.36	73.18	74.89	74.78	81.64	82.48	87.05	70- 80	147.5	2310	98.5,115
90	3.063	1.641	7.914	1.724	3.123	1.720	8.649	1.802	80- 90	35.36	2345	100,117
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): 1316.5 lm

%lum = 56.1%

%lamp = 65.8%

Conical surface Flux(130deg): 2041.6 lm

%lum = 87.1%

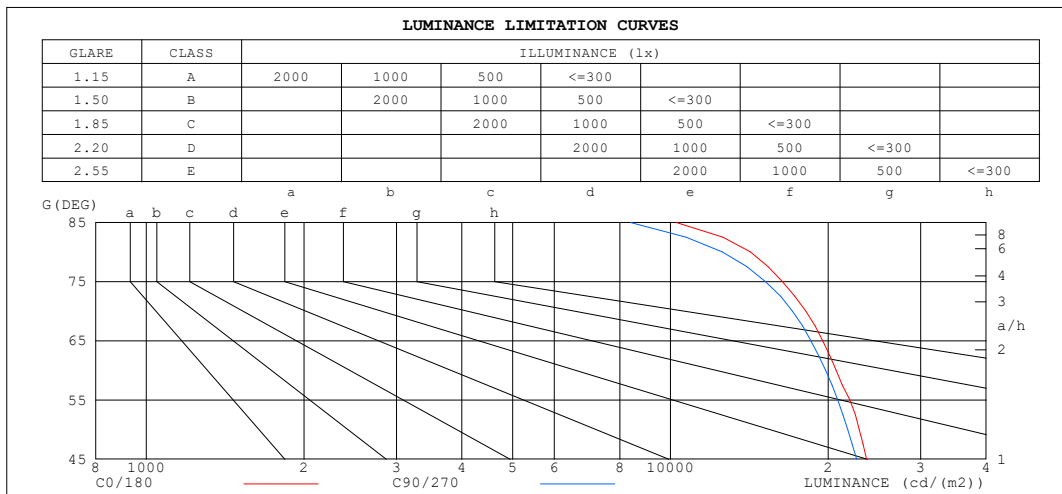
%lamp = 102.1%

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/WH	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	10250	8389
80	14198	12556
75	16346	15180
70	18119	17077
65	19528	18537
60	20701	19770
55	21994	20838
50	22903	21777
45	23646	22645

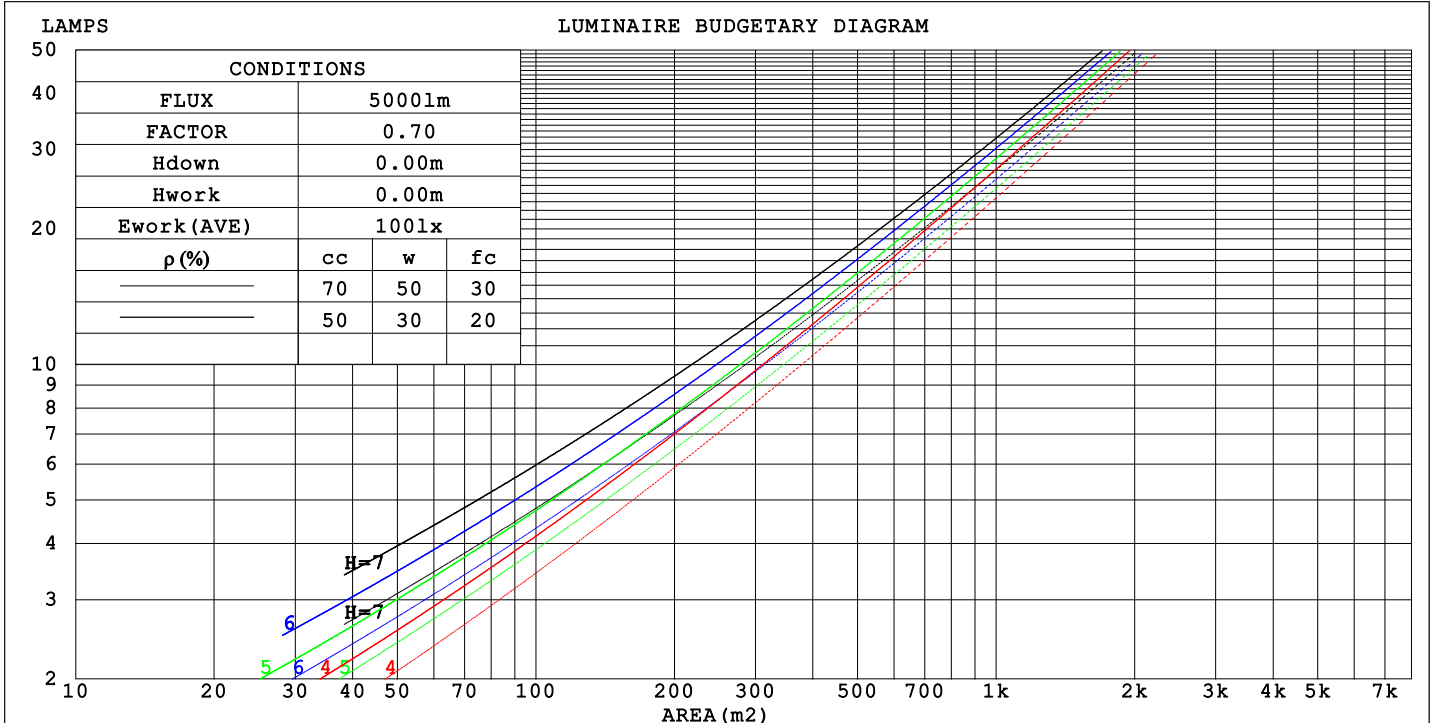
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 05 December 2022

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/WH	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/WH	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	.350	.199	.063	.342	.195	.062	.326	.187	.060	.312	.180	.058	.299	.173	.056	
2.0	.332	.182	.056	.325	.179	.055	.311	.173	.054	.298	.167	.052	.287	.162	.051	
3.0	.308	.164	.049	.302	.162	.049	.290	.157	.048	.279	.153	.047	.268	.149	.046	
4.0	.286	.148	.044	.280	.146	.043	.269	.143	.043	.259	.139	.042	.250	.136	.041	
5.0	.265	.135	.039	.260	.133	.039	.250	.130	.038	.241	.127	.038	.233	.125	.037	
6.0	.246	.123	.035	.241	.122	.035	.233	.119	.035	.225	.117	.034	.218	.115	.034	
7.0	.229	.113	.032	.225	.112	.032	.218	.110	.032	.211	.108	.031	.204	.106	.031	
8.0	.214	.105	.029	.211	.104	.029	.204	.102	.029	.198	.100	.029	.192	.099	.029	
9.0	.201	.097	.027	.198	.097	.027	.192	.095	.027	.186	.093	.027	.181	.092	.027	
10.0	.189	.091	.025	.187	.090	.025	.181	.089	.025	.176	.087	.025	.171	.086	.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	.223	.223	.223	.191	.191	.191	.130	.130	.130	.075	.075	.075	.024	.024	.024	
1.0	.211	.183	.159	.180	.157	.136	.123	.108	.094	.071	.063	.055	.023	.020	.018	
2.0	.201	.155	.116	.172	.133	.100	.118	.092	.070	.068	.054	.041	.022	.017	.013	
3.0	.191	.134	.088	.164	.116	.077	.113	.080	.054	.065	.047	.032	.021	.015	.010	
4.0	.182	.118	.069	.156	.102	.060	.108	.071	.042	.062	.042	.025	.020	.014	.008	
5.0	.174	.106	.056	.149	.092	.049	.103	.064	.034	.059	.038	.020	.019	.012	.007	
6.0	.165	.096	.047	.142	.083	.041	.098	.058	.029	.057	.034	.017	.018	.011	.006	
7.0	.157	.088	.039	.135	.076	.034	.094	.053	.024	.054	.032	.015	.018	.010	.005	
8.0	.150	.081	.034	.129	.070	.030	.089	.049	.021	.052	.029	.013	.017	.010	.004	
9.0	.143	.075	.030	.123	.065	.026	.085	.046	.019	.050	.027	.011	.016	.009	.004	
10.0	.136	.070	.027	.117	.061	.023	.081	.043	.016	.048	.025	.010	.015	.008	.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/WH					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	21.1	22.6	21.4	22.8	23.0	20.9	22.4	21.1	22.6	22.8	
	22.5	23.9	22.8	24.1	24.3	22.2	23.6	22.5	23.8	24.1	
	23.0	24.3	23.3	24.6	24.8	22.7	24.0	23.0	24.3	24.5	
	23.4	24.6	23.7	24.9	25.2	23.0	24.3	23.4	24.5	24.8	
	23.5	24.7	23.8	25.0	25.2	23.1	24.3	23.4	24.6	24.8	
12H	23.5	24.7	23.9	25.0	25.3	23.1	24.2	23.4	24.5	24.8	
4H	2H	21.7	23.0	22.0	23.2	23.5	21.5	22.8	21.8	23.0	23.3
	3H	23.2	24.4	23.6	24.7	25.0	23.0	24.1	23.3	24.4	24.7
	4H	23.9	24.9	24.3	25.3	25.6	23.6	24.6	24.0	25.0	25.3
	6H	24.4	25.3	24.8	25.6	26.0	24.0	25.0	24.4	25.3	25.7
	8H	24.5	25.4	24.9	25.7	26.1	24.1	25.0	24.5	25.4	25.7
12H	24.6	25.4	25.0	25.7	26.1	24.2	25.0	24.6	25.3	25.7	
8H	4H	24.1	25.0	24.5	25.3	25.7	23.9	24.7	24.3	25.1	25.5
	6H	24.7	25.4	25.2	25.8	26.3	24.4	25.1	24.8	25.5	25.9
	8H	24.9	25.6	25.4	26.0	26.4	24.6	25.2	25.0	25.6	26.1
	12H	25.0	25.6	25.5	26.0	26.5	24.6	25.2	25.1	25.6	26.1
12H	4H	24.1	24.9	24.5	25.3	25.7	23.9	24.7	24.3	25.0	25.4
	6H	24.8	25.4	25.2	25.8	26.3	24.4	25.1	24.9	25.5	26.0
	8H	25.0	25.5	25.5	26.0	26.5	24.6	25.2	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 / - 0.2					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.3					

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

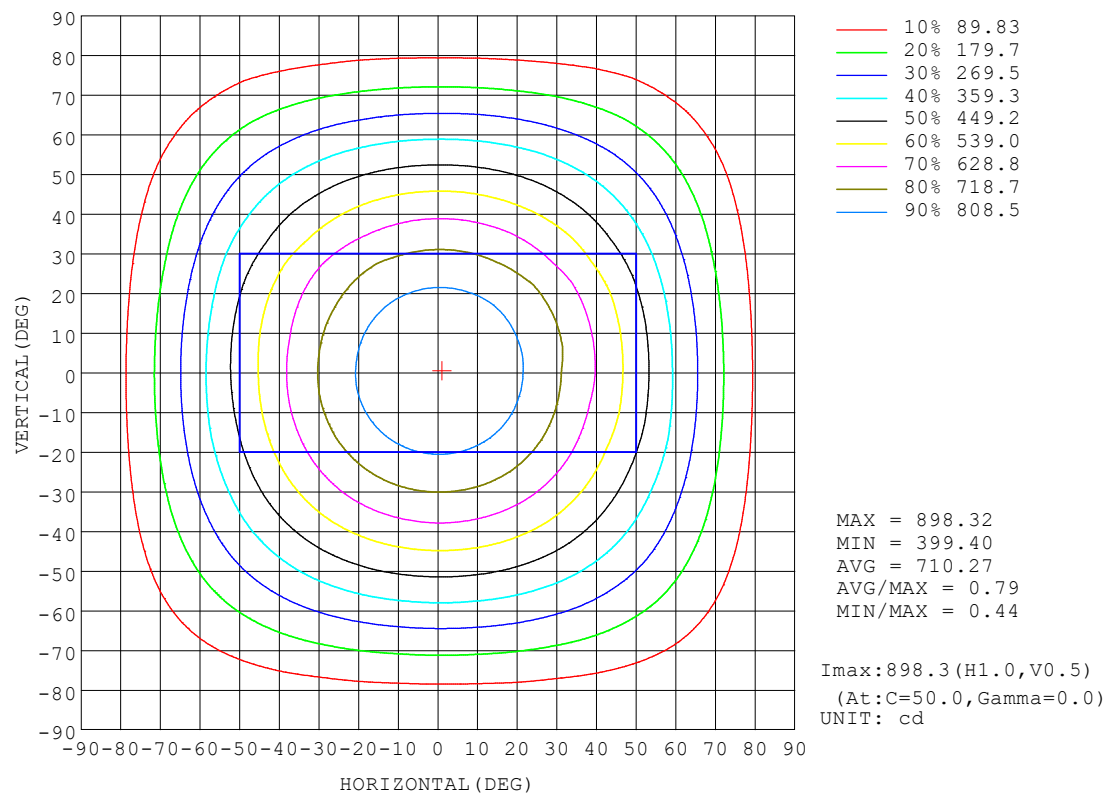
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	69	56	48	68	55	48	67	55	47	40
0.80	81	67	59	80	67	59	78	66	58	50
1.00	91	78	70	89	77	69	87	79	69	60
1.25	99	87	79	97	86	78	94	84	77	69
1.50	105	93	85	103	92	85	99	90	84	75
2.00	112	103	95	110	101	95	106	99	93	84
2.50	117	108	101	114	106	100	110	103	98	88
3.00	121	113	107	118	111	105	113	108	103	93
4.00	125	119	114	122	117	112	118	113	109	99
5.00	128	122	118	125	120	116	120	116	112	102
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/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 50 x 70 x 330	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cross	Shielding Angle:

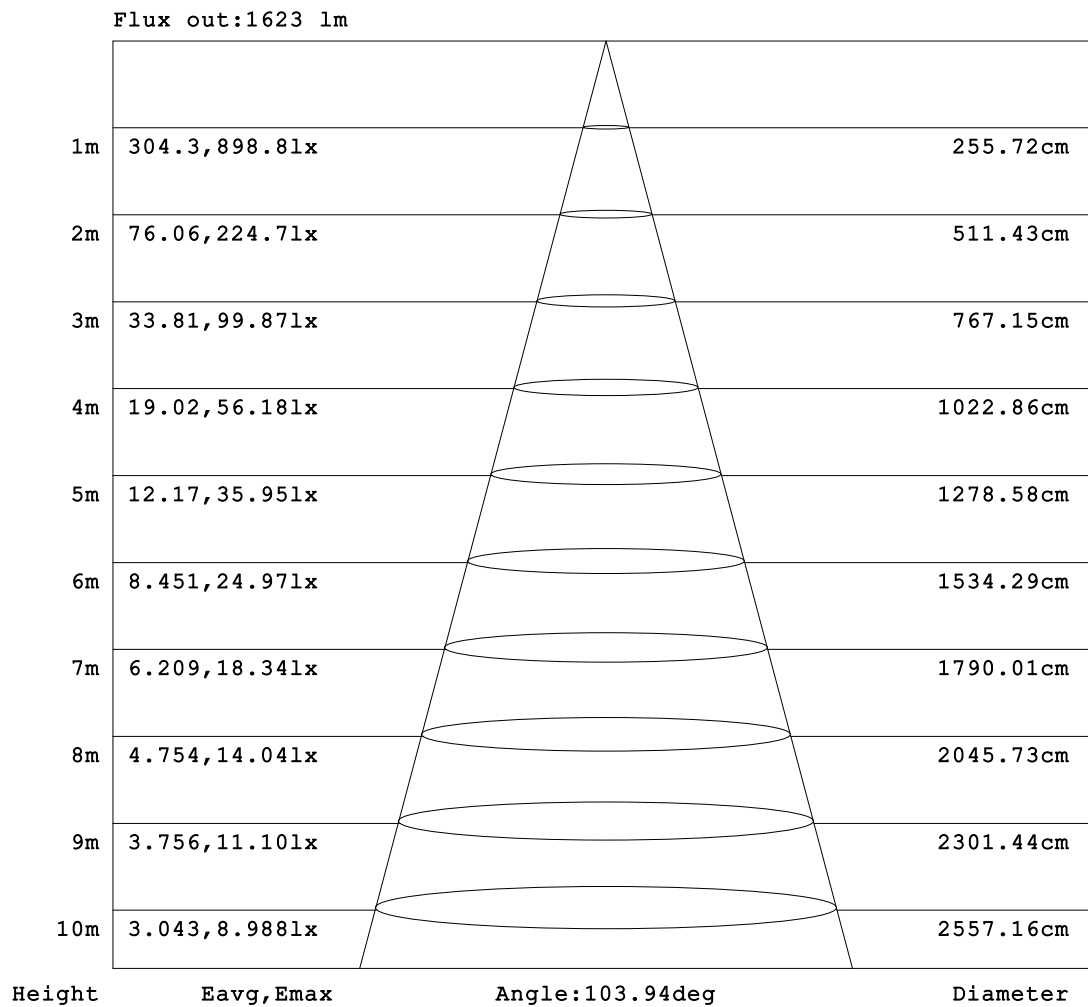


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 05 December 2022

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



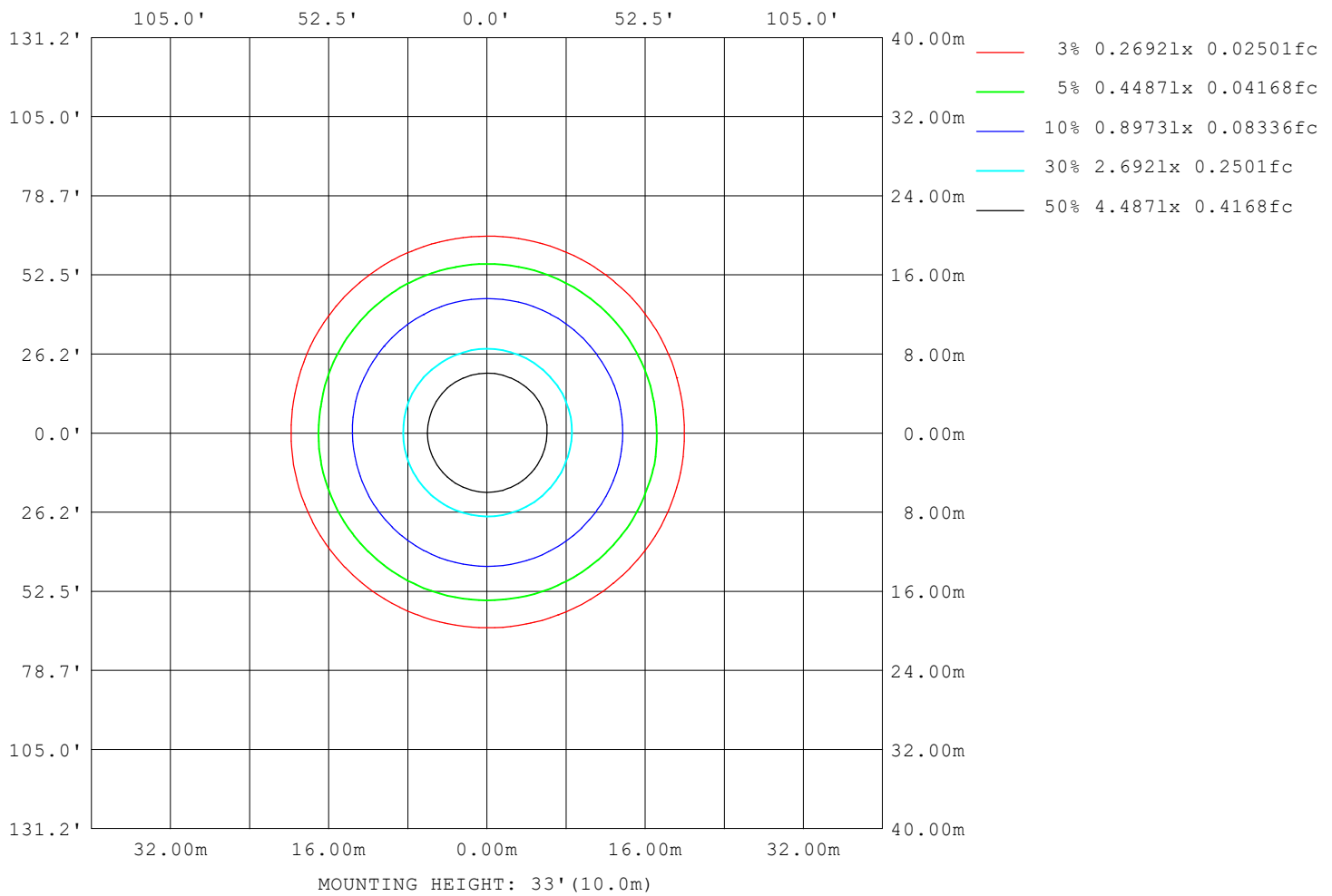
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

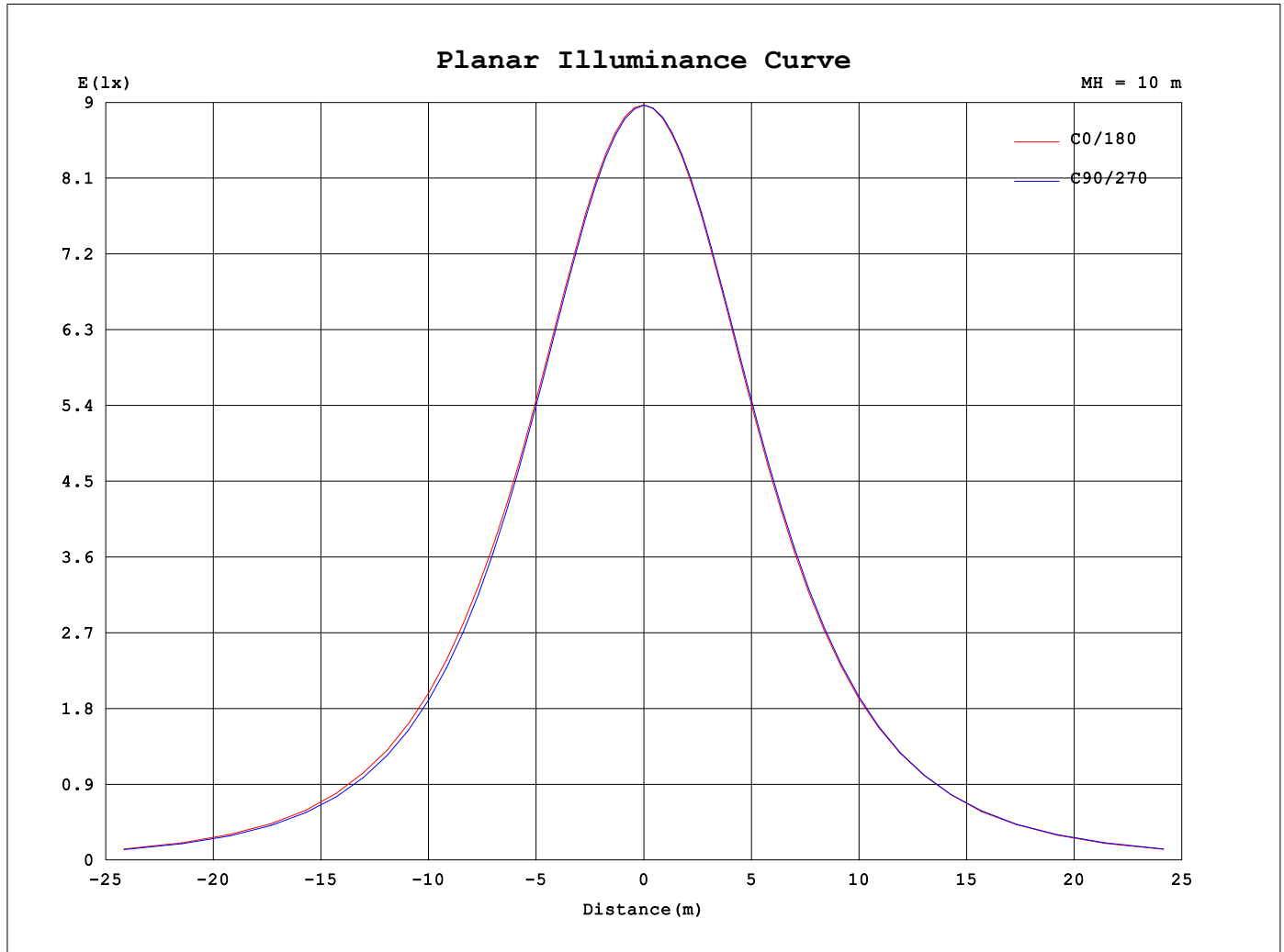
AvgL	cd/m2
L_0~180 (65) av	19217
L_0~180 (75) av	15887
L_0~180 (85) av	9227
L_90~270 (65) av	18954
L_90~270 (75) av	15756
L_90~270 (85) av	9679
L_45 (65) av	19307
L_45 (75) av	16307
L_45 (85) av	9434

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:

```