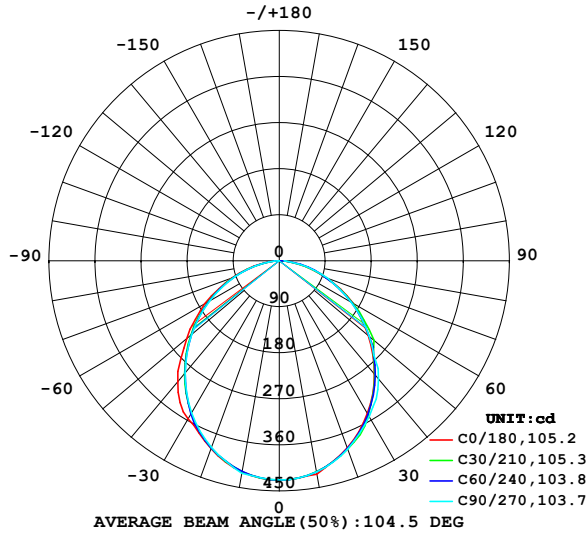


LUMINAIRE PHOTOMETRIC TEST REPORT

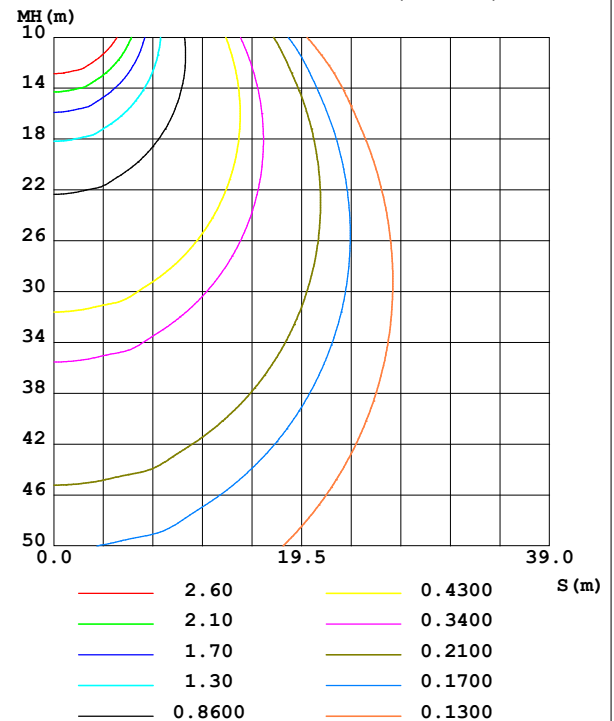
NAME: 99POML30/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 35 x 75 x 204	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: L	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	99POML30/WH	I _{max} (cd)	428.6	S/MH (C0/180)	1.25
NOMINAL POWER (W)	10	LOR (%)	112.3	S/MH (C90/270)	1.20
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	1123.2	η UP, DN (C0-180)	0.0, 57.0
NOMINAL FLUX (lm)	1000	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 55.3
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	230	η down (%)	112.3	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 28 November 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	423.7	418.8	419.4	419.5	419.1	418.2	421.6	418.5	0- 10	40.48	40.48	3.6,4.05
20	389.2	390.1	391.6	392.7	390.9	388.9	388.0	388.7	10- 20	114.7	155.2	13.8,15.5
30	344.8	346.1	352.0	368.3	356.8	343.8	342.9	344.0	20- 30	171.4	326.5	29.1,32.7
40	289.5	291.6	301.9	306.8	309.2	287.1	286.6	287.8	30- 40	202.3	528.8	47.1,52.9
50	227.1	236.6	230.1	239.4	236.6	224.5	222.9	225.7	40- 50	202.7	731.5	65.1,73.1
60	166.9	164.1	163.0	169.5	168.2	159.5	157.1	161.1	50- 60	176.5	907.9	80.8,90.8
70	96.69	98.11	101.1	100.3	97.88	94.42	92.51	96.81	60- 70	128.2	1036	92.2,104
80	37.21	39.72	40.36	42.72	37.25	33.62	33.99	37.17	70- 80	70.74	1107	98.5,111
90	1.223	1.162	9.889	1.100	1.377	0.6272	0.5367	0.6619	80- 90	16.31	1123	100,112
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): 631.92 lm

%lum = 56.3%

%lamp = 63.2%

Conical surface Flux(130deg): 978.94 lm

%lum = 87.2%

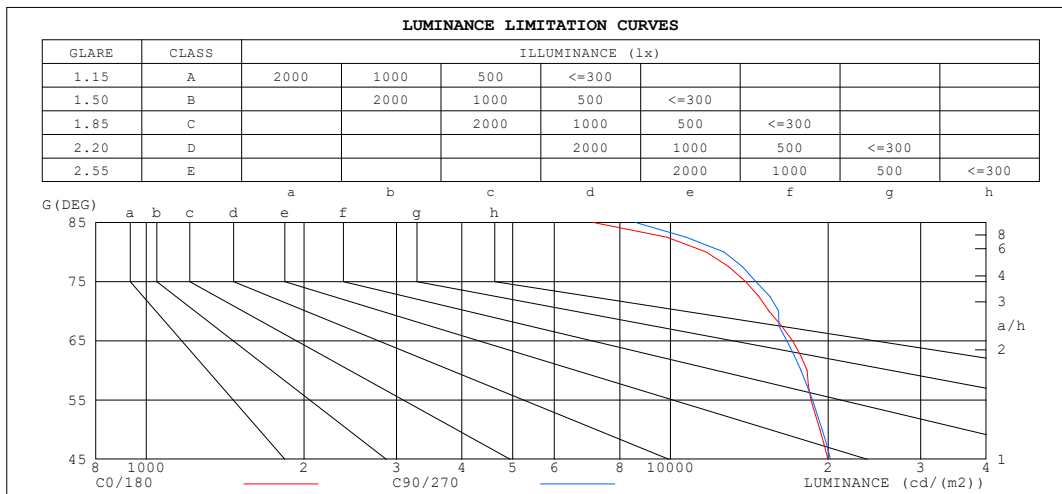
%lamp = 97.9%

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:
 Test Date:28 November 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: 99POML30/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 35 x 75 x 204	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: L	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	7122	8570
80	11686	12641
75	13908	14541
70	15419	16077
65	17107	16663
60	18206	17733
55	18518	18646
50	19271	19468
45	19964	20188

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date: 28 November 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:

```

WEC AND CCEC

NAME: 99POML30/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 35 x 75 x 204	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: L	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	.335	.190	.060	.327	.186	.059	.312	.179	.057	.298	.172	.055	.286	.166	.053	
2.0	.317	.174	.053	.310	.171	.053	.297	.165	.051	.285	.160	.050	.274	.155	.049	
3.0	.295	.157	.047	.289	.155	.047	.277	.150	.046	.267	.146	.045	.257	.142	.044	
4.0	.273	.142	.042	.268	.140	.041	.258	.137	.041	.248	.133	.040	.239	.130	.040	
5.0	.253	.129	.037	.249	.128	.037	.239	.125	.037	.231	.122	.036	.223	.119	.036	
6.0	.235	.118	.034	.231	.117	.034	.223	.114	.033	.216	.112	.033	.209	.110	.033	
7.0	.220	.109	.031	.216	.107	.031	.209	.105	.030	.202	.103	.030	.195	.102	.030	
8.0	.205	.100	.028	.202	.099	.028	.196	.098	.028	.189	.096	.028	.184	.094	.027	
9.0	.193	.093	.026	.190	.092	.026	.184	.091	.026	.178	.089	.026	.173	.088	.025	
10.0	.181	.087	.024	.179	.086	.024	.173	.085	.024	.169	.084	.024	.164	.082	.024	

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	.214	.214	.214	.183	.183	.183	.125	.125	.125	.072	.072	.072	.023	.023	.023	
1.0	.202	.175	.152	.172	.151	.131	.118	.104	.090	.068	.060	.053	.022	.019	.017	
2.0	.192	.148	.111	.165	.128	.096	.113	.088	.067	.065	.051	.039	.021	.017	.013	
3.0	.183	.128	.085	.157	.111	.073	.108	.077	.051	.062	.045	.030	.020	.015	.010	
4.0	.175	.113	.066	.150	.098	.058	.103	.068	.041	.060	.040	.024	.019	.013	.008	
5.0	.166	.102	.054	.143	.088	.047	.098	.061	.033	.057	.036	.020	.018	.012	.006	
6.0	.158	.092	.045	.136	.080	.039	.094	.056	.027	.054	.033	.016	.018	.011	.005	
7.0	.151	.084	.038	.130	.073	.033	.090	.051	.023	.052	.030	.014	.017	.010	.005	
8.0	.144	.078	.033	.124	.067	.028	.085	.047	.020	.050	.028	.012	.016	.009	.004	
9.0	.137	.072	.029	.118	.063	.025	.082	.044	.018	.048	.026	.011	.015	.009	.004	
10.0	.130	.067	.025	.112	.059	.022	.078	.041	.016	.046	.024	.009	.015	.008	.003	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:28 November 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: 99POML30/WH					TYPE:			WEIGHT: 1			
SPEC.:					DIM.: 35 x 75 x 204			SERIAL No.: 0			
MFR.: Elmark Industries JSC					SUR.: L			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	23.1	24.6	23.3	24.8	25.0	22.9	24.4	23.2	24.6	24.8
	3H	24.4	25.8	24.7	26.0	26.2	24.3	25.7	24.6	25.9	26.2
	4H	24.9	26.2	25.2	26.5	26.7	24.9	26.2	25.2	26.4	26.7
	6H	25.2	26.5	25.6	26.7	27.0	25.3	26.5	25.6	26.8	27.0
	8H	25.3	26.5	25.6	26.8	27.1	25.3	26.5	25.7	26.8	27.1
	12H	25.3	26.4	25.6	26.7	27.0	25.3	26.5	25.7	26.8	27.1
4H	2H	23.6	24.9	23.9	25.2	25.4	23.5	24.8	23.8	25.1	25.3
	3H	25.1	26.3	25.5	26.6	26.9	25.1	26.2	25.4	26.5	26.8
	4H	25.7	26.8	26.1	27.1	27.4	25.8	26.8	26.1	27.1	27.5
	6H	26.2	27.1	26.6	27.5	27.8	26.3	27.2	26.7	27.6	27.9
	8H	26.3	27.2	26.7	27.5	27.9	26.4	27.3	26.8	27.6	28.0
	12H	26.3	27.1	26.7	27.5	27.9	26.4	27.2	26.9	27.6	28.0
8H	4H	26.0	26.8	26.4	27.2	27.6	26.0	26.9	26.4	27.2	27.6
	6H	26.5	27.3	27.0	27.7	28.1	26.7	27.4	27.1	27.8	28.2
	8H	26.7	27.3	27.2	27.8	28.2	26.8	27.5	27.3	27.9	28.4
	12H	26.8	27.3	27.3	27.8	28.3	26.9	27.5	27.4	27.9	28.4
12H	4H	26.0	26.8	26.4	27.2	27.6	26.0	26.8	26.4	27.2	27.6
	6H	26.6	27.2	27.0	27.6	28.1	26.7	27.3	27.2	27.8	28.2
	8H	26.8	27.3	27.3	27.8	28.2	26.9	27.4	27.4	27.9	28.4
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H		+ 0.2 / - 0.3				+ 0.1 / - 0.2					
1.5H		+ 0.2 / - 0.3				+ 0.1 / - 0.3					
2.0H		+ 0.3 / - 0.3				+ 0.3 / - 0.3					

CIE Pub.117, 1000 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.0)
Area: 0.01837 m2

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:28 November 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: 99POML30/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 35 x 75 x 204	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: L	Shielding Angle:

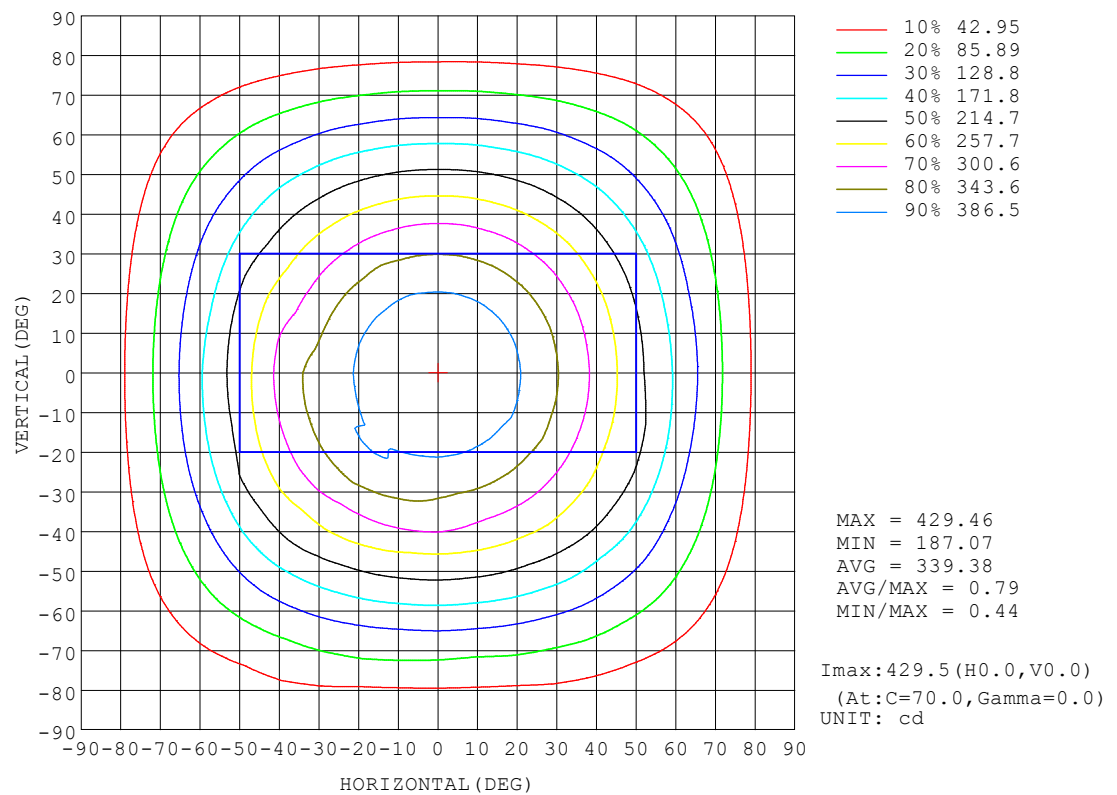
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	66	53	46	65	53	46	64	53	45	38
0.80	77	65	57	76	64	56	74	63	56	48
1.00	87	75	67	86	74	66	83	76	66	58
1.25	95	83	76	93	83	75	90	81	74	66
1.50	100	89	82	98	89	81	95	87	80	72
2.00	108	98	91	106	97	91	102	95	89	80
2.50	112	104	97	110	102	96	105	99	94	85
3.00	116	108	102	113	106	101	109	103	99	89
4.00	120	114	109	117	112	107	113	108	104	94
5.00	123	117	113	120	115	111	115	111	108	98
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: 28 November 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: 99POML30/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 35 x 75 x 204	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: L	Shielding Angle:

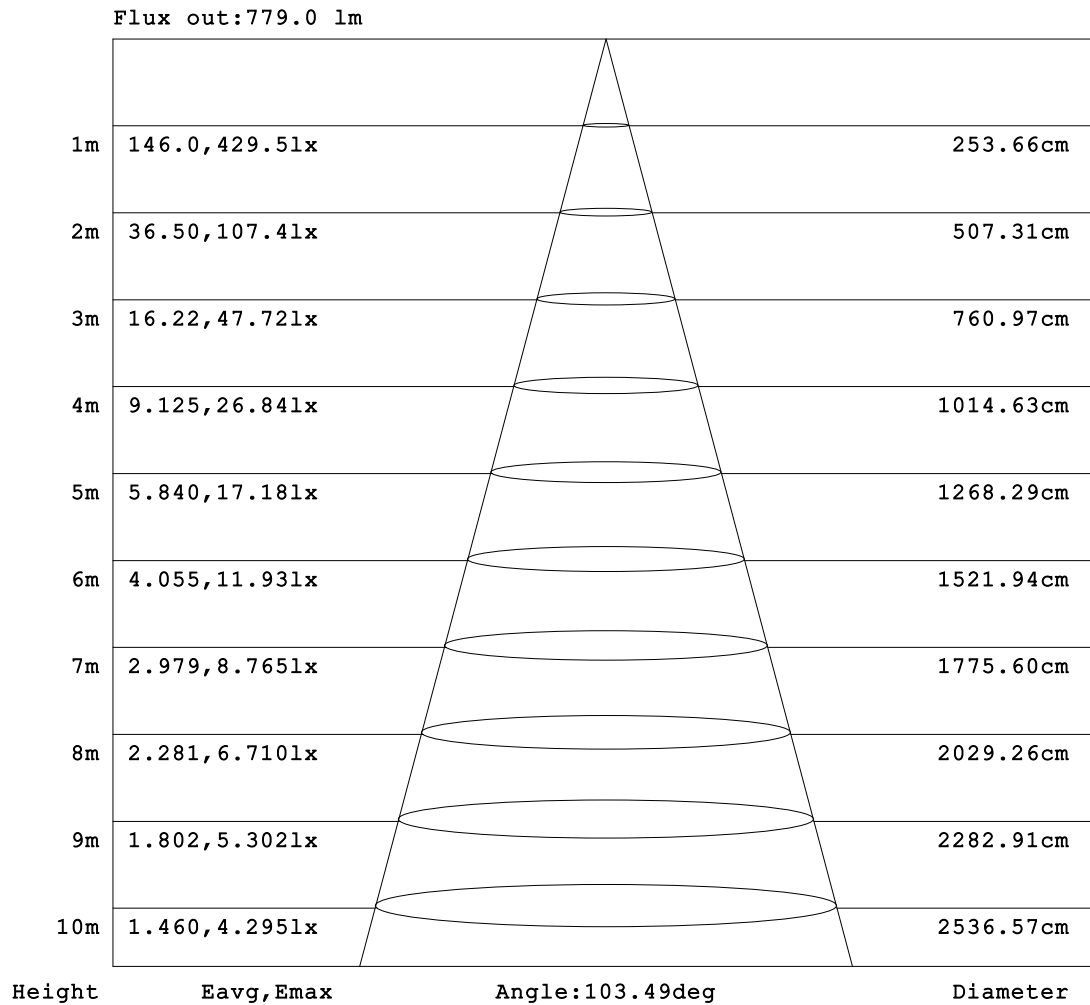


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 28 November 2022

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: 99POML30/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 35 x 75 x 204	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: L	Shielding Angle:



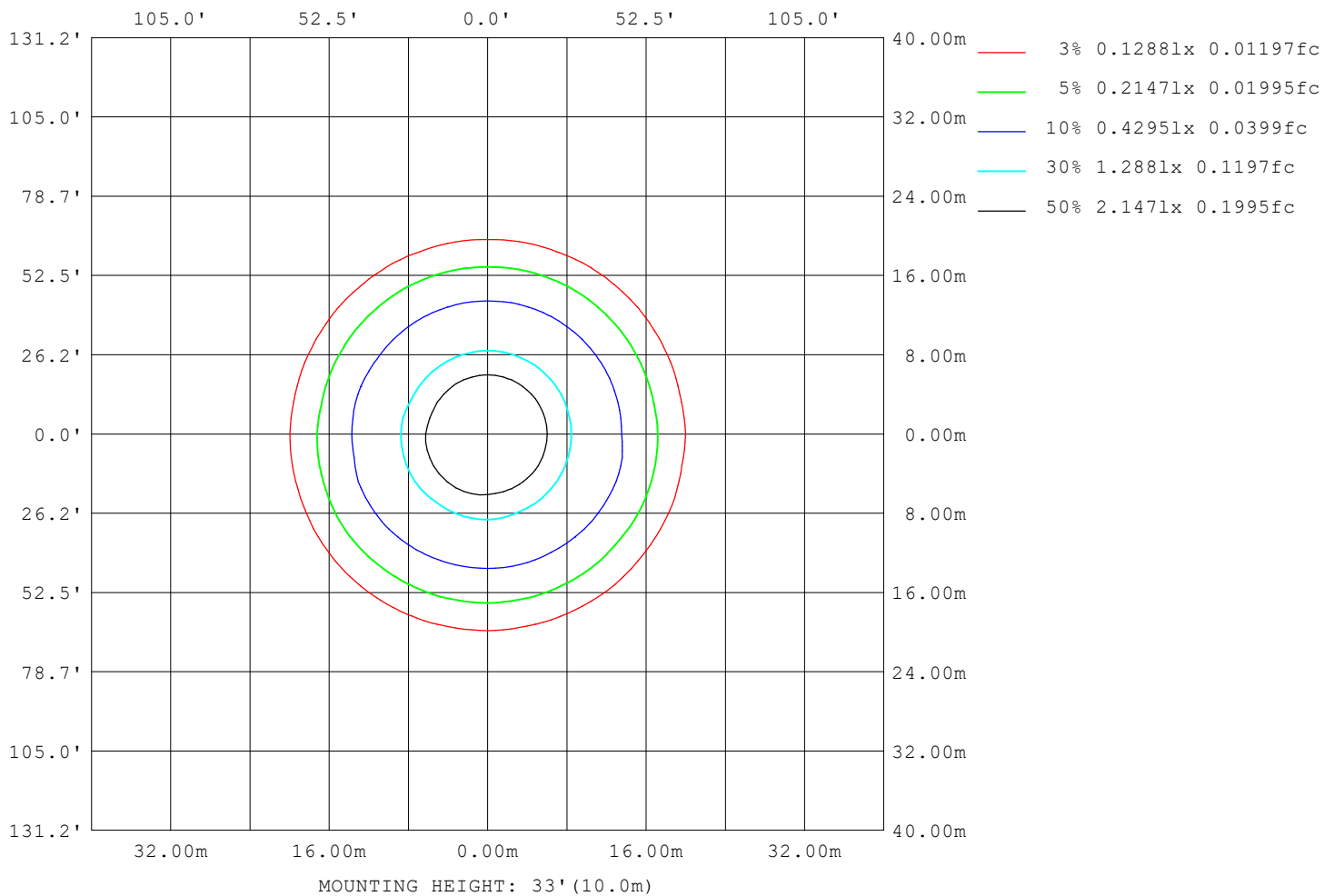
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date: 28 November 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: 99POML30/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 35 x 75 x 204	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: L	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 28 November 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: 99POML30/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 35 x 75 x 204	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: L	Shielding Angle:

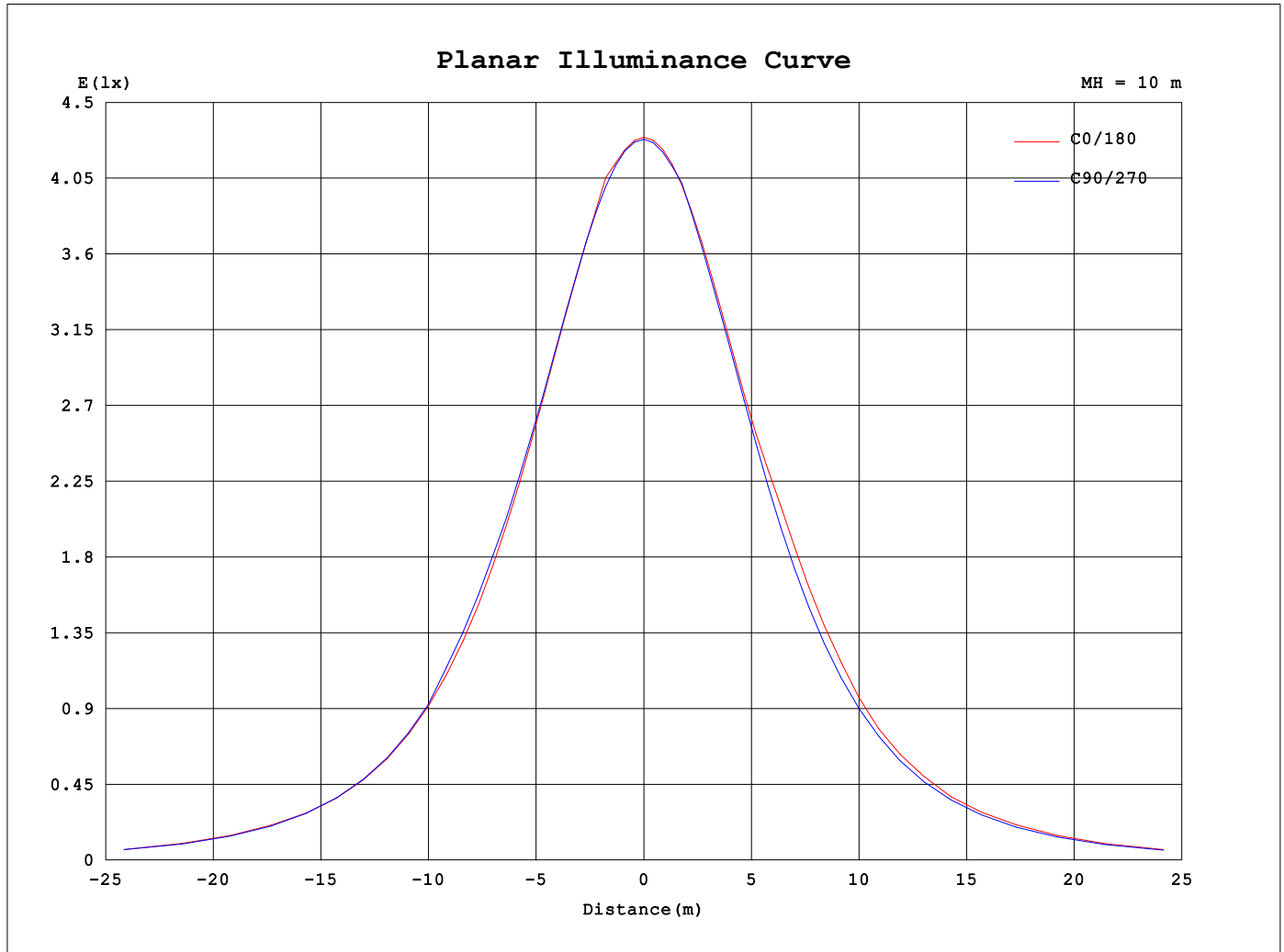
AvgL	cd/m2
L_0~180 (65) av	16946
L_0~180 (75) av	13925
L_0~180 (85) av	7061
L_90~270 (65) av	16353
L_90~270 (75) av	13827
L_90~270 (85) av	7368
L_45 (65) av	16770
L_45 (75) av	14090
L_45 (85) av	8126

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:28 November 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: 28 November 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:

```