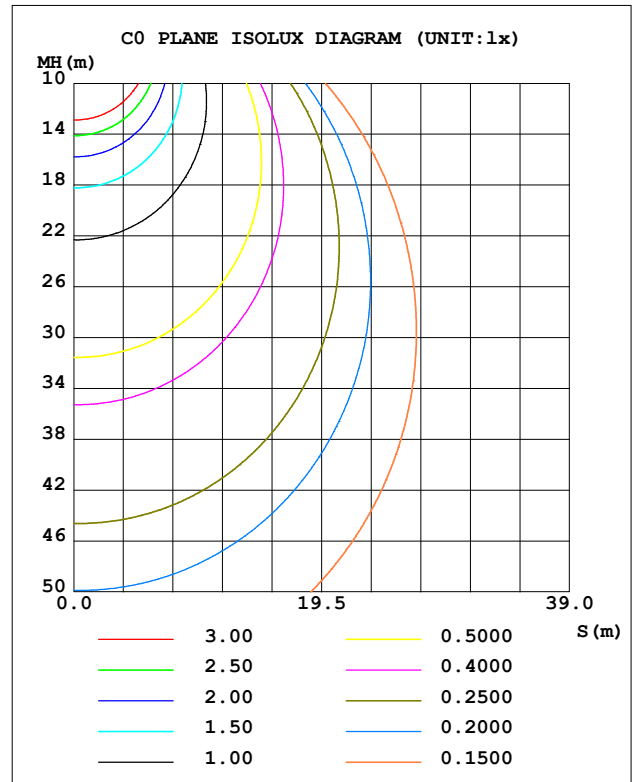
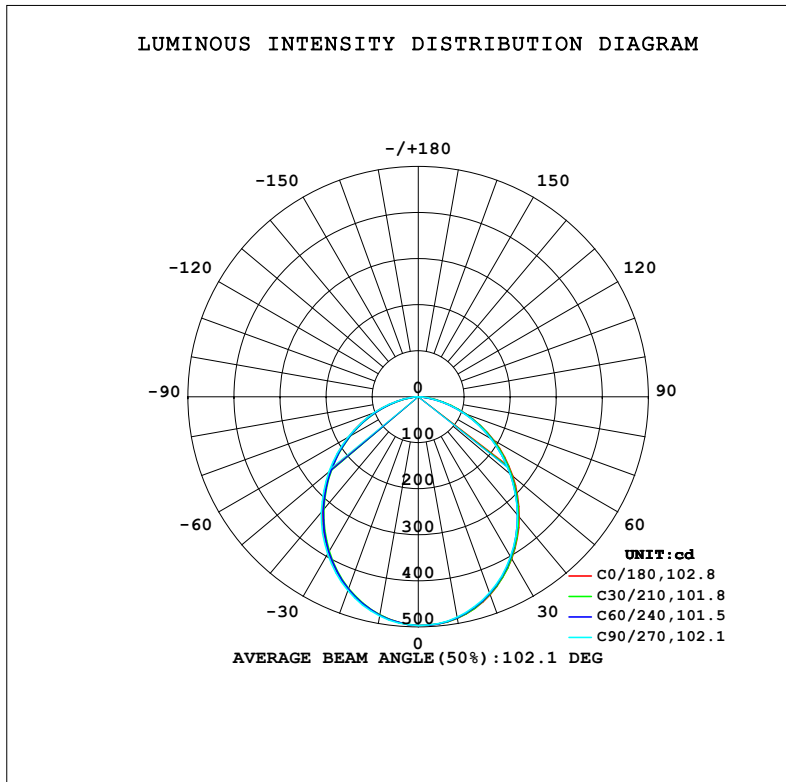


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: 99POMT30/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 35 x 75 x 334	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cross	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	99POMT30/BL	Imax (cd)	497.0	S/MH (C0/180)	1.18
NOMINAL POWER (W)	15	LOR (%)	78.8	S/MH (C90/270)	1.19
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	1260.5	η UP, DN (C0-180)	0.0, 39.8
NOMINAL FLUX (lm)	1600	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 39.0
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	230	η down (%)	78.8	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 15 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	488.4	488.0	486.2	483.5	481.4	481.2	483.5	486.7	0- 10	46.84	46.84	3.72, 2.93
20	457.0	455.7	452.9	448.8	444.5	443.3	447.7	454.1	10- 20	132.5	179.4	14.2, 11.2
30	405.9	403.9	401.2	396.7	390.3	387.6	394.1	403.0	20- 30	196.2	375.6	29.8, 23.5
40	341.2	337.5	335.2	331.9	324.2	319.3	327.5	338.6	30- 40	228.9	604.4	48, 37.8
50	267.6	263.4	260.2	260.0	250.7	245.7	253.0	266.5	40- 50	228.1	832.6	66, 52
60	189.3	186.0	182.2	184.5	175.1	170.6	176.4	190.7	50- 60	197.0	1030	81.7, 64.3
70	109.5	109.1	105.8	109.2	100.6	97.06	101.4	114.9	60- 70	142.2	1172	93, 73.2
80	38.46	38.44	36.04	40.81	32.75	31.08	34.01	44.80	70- 80	74.21	1246	98.8, 77.9
90	1.358	0.8048	4.615	0.8874	1.021	0.7831	2.574	0.6489	80- 90	14.53	1261	100, 78.8
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): 720.61 lm

%lum = 57.2%

%lamp = 45.0%

Conical surface Flux(130deg): 1108.7 lm

%lum = 88.0%

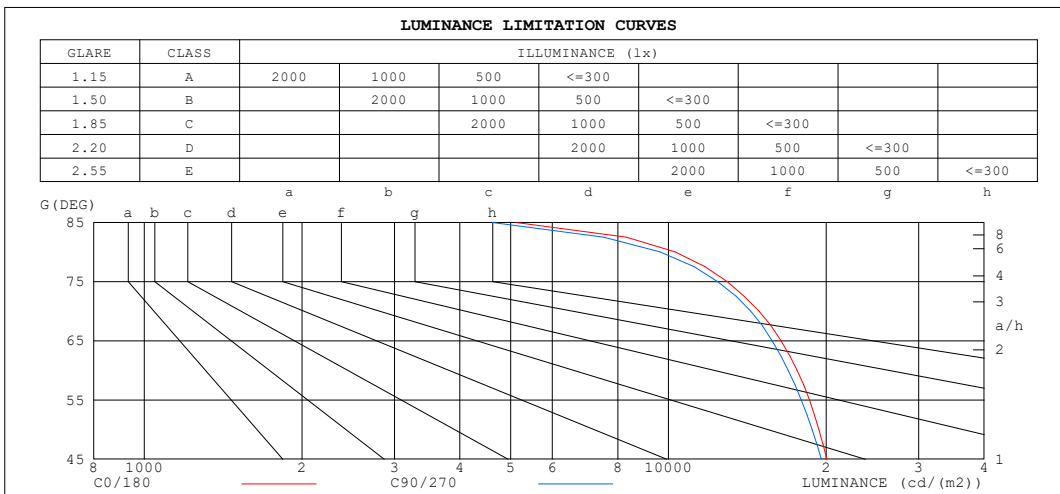
%lamp = 69.3%

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:
 Test Date:15 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: 99POMT30/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 35 x 75 x 334	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cross	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	5113	4605
80	10296	9631
75	12938	12419
70	14879	14350
65	16396	15763
60	17600	16914
55	18573	17917
50	19349	18786
45	20056	19584

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 15 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: 99POMT30/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 35 x 75 x 334	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	.230	.131	.041	.224	.128	.041	.214	.123	.039	.205	.118	.038	.196	.113	.037	
2.0	.219	.120	.037	.214	.118	.036	.205	.114	.035	.197	.110	.035	.189	.107	.034	
3.0	.205	.109	.033	.200	.107	.032	.192	.104	.032	.185	.101	.031	.178	.098	.030	
4.0	.190	.099	.029	.186	.097	.029	.179	.095	.028	.172	.092	.028	.166	.090	.027	
5.0	.176	.090	.026	.173	.089	.026	.166	.087	.026	.161	.085	.025	.155	.083	.025	
6.0	.164	.082	.024	.161	.081	.023	.155	.080	.023	.150	.078	.023	.145	.076	.023	
7.0	.153	.076	.021	.150	.075	.021	.145	.073	.021	.141	.072	.021	.136	.071	.021	
8.0	.143	.070	.020	.141	.069	.020	.136	.068	.019	.132	.067	.019	.128	.066	.019	
9.0	.134	.065	.018	.132	.064	.018	.128	.063	.018	.124	.062	.018	.121	.061	.018	
10.0	.127	.061	.017	.125	.060	.017	.121	.059	.017	.118	.058	.017	.114	.057	.016	

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	.150	.150	.150	.128	.128	.128	.088	.088	.088	.050	.050	.050	.016	.016	.016	
1.0	.141	.123	.107	.121	.106	.092	.083	.073	.064	.048	.042	.037	.015	.014	.012	
2.0	.134	.104	.078	.115	.090	.068	.079	.062	.047	.045	.036	.028	.015	.012	.009	
3.0	.128	.090	.060	.110	.078	.052	.075	.054	.036	.044	.031	.021	.014	.010	.007	
4.0	.122	.079	.047	.105	.069	.041	.072	.048	.029	.042	.028	.017	.013	.009	.006	
5.0	.116	.071	.038	.100	.062	.033	.069	.043	.023	.040	.025	.014	.013	.008	.005	
6.0	.111	.065	.031	.095	.056	.027	.066	.039	.019	.038	.023	.012	.012	.008	.004	
7.0	.105	.059	.027	.091	.051	.023	.063	.036	.016	.036	.021	.010	.012	.007	.003	
8.0	.100	.054	.023	.086	.047	.020	.060	.033	.014	.035	.020	.008	.011	.006	.003	
9.0	.096	.051	.020	.082	.044	.018	.057	.031	.012	.033	.018	.007	.011	.006	.002	
10.0	.091	.047	.018	.079	.041	.016	.055	.029	.011	.032	.017	.007	.010	.006	.002	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:15 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: 99POMT30/BL					TYPE:			WEIGHT: 1			
SPEC.:					DIM.: 35 x 75 x 334			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	21.4	22.8	21.6	23.0	23.2	21.2	22.7	21.5	22.9	23.1
	3H	22.7	24.1	23.0	24.3	24.5	22.5	23.8	22.8	24.1	24.3
	4H	23.2	24.5	23.5	24.7	25.0	22.9	24.2	23.2	24.5	24.7
	6H	23.5	24.7	23.8	24.9	25.2	23.2	24.4	23.5	24.7	25.0
	8H	23.5	24.7	23.8	25.0	25.2	23.2	24.4	23.6	24.7	25.0
	12H	23.5	24.6	23.8	24.9	25.2	23.2	24.3	23.5	24.6	24.9
4H	2H	21.9	23.2	22.2	23.4	23.7	21.8	23.1	22.1	23.3	23.6
	3H	23.4	24.5	23.8	24.8	25.1	23.2	24.4	23.6	24.6	24.9
	4H	24.0	25.0	24.4	25.4	25.7	23.8	24.8	24.2	25.1	25.5
	6H	24.4	25.3	24.8	25.7	26.0	24.1	25.0	24.5	25.4	25.8
	8H	24.5	25.3	24.9	25.7	26.1	24.2	25.0	24.6	25.4	25.8
	12H	24.5	25.2	24.9	25.6	26.0	24.2	25.0	24.6	25.3	25.7
8H	4H	24.2	25.1	24.6	25.4	25.8	24.0	24.9	24.4	25.2	25.6
	6H	24.7	25.4	25.1	25.8	26.2	24.4	25.2	24.9	25.6	26.0
	8H	24.8	25.4	25.3	25.9	26.3	24.5	25.2	25.0	25.6	26.0
	12H	24.8	25.4	25.3	25.8	26.3	24.6	25.1	25.0	25.5	26.0
12H	4H	24.2	25.0	24.6	25.4	25.8	24.0	24.8	24.4	25.2	25.6
	6H	24.7	25.3	25.2	25.8	26.2	24.5	25.1	24.9	25.5	26.0
	8H	24.8	25.4	25.3	25.8	26.3	24.6	25.1	25.1	25.6	26.0
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, 1600 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.6)
Area: 0.021555 m2

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:15 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: 99POMT30/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 35 x 75 x 334	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cross	Shielding Angle:

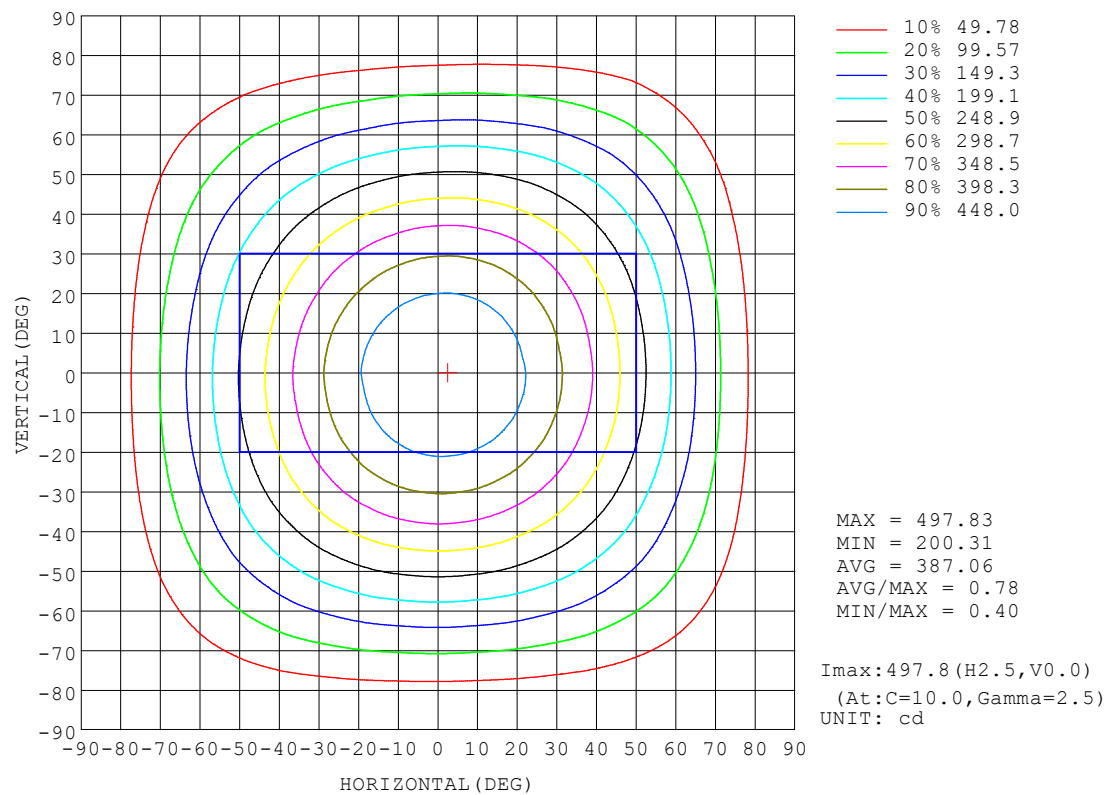
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	47	38	33	46	38	32	45	37	32	27
0.80	55	46	40	54	46	40	53	45	40	35
1.00	61	53	47	60	52	47	59	53	47	41
1.25	67	59	54	66	58	53	64	57	53	47
1.50	71	63	58	69	63	58	67	61	57	51
2.00	76	70	65	74	69	64	72	67	63	57
2.50	79	73	69	77	72	68	74	70	66	60
3.00	81	76	72	80	75	71	77	73	70	63
4.00	84	80	77	83	79	76	79	76	74	67
5.00	86	83	80	84	81	78	81	78	76	69
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: 15 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: 99POMT30/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 35 x 75 x 334	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cross	Shielding Angle:

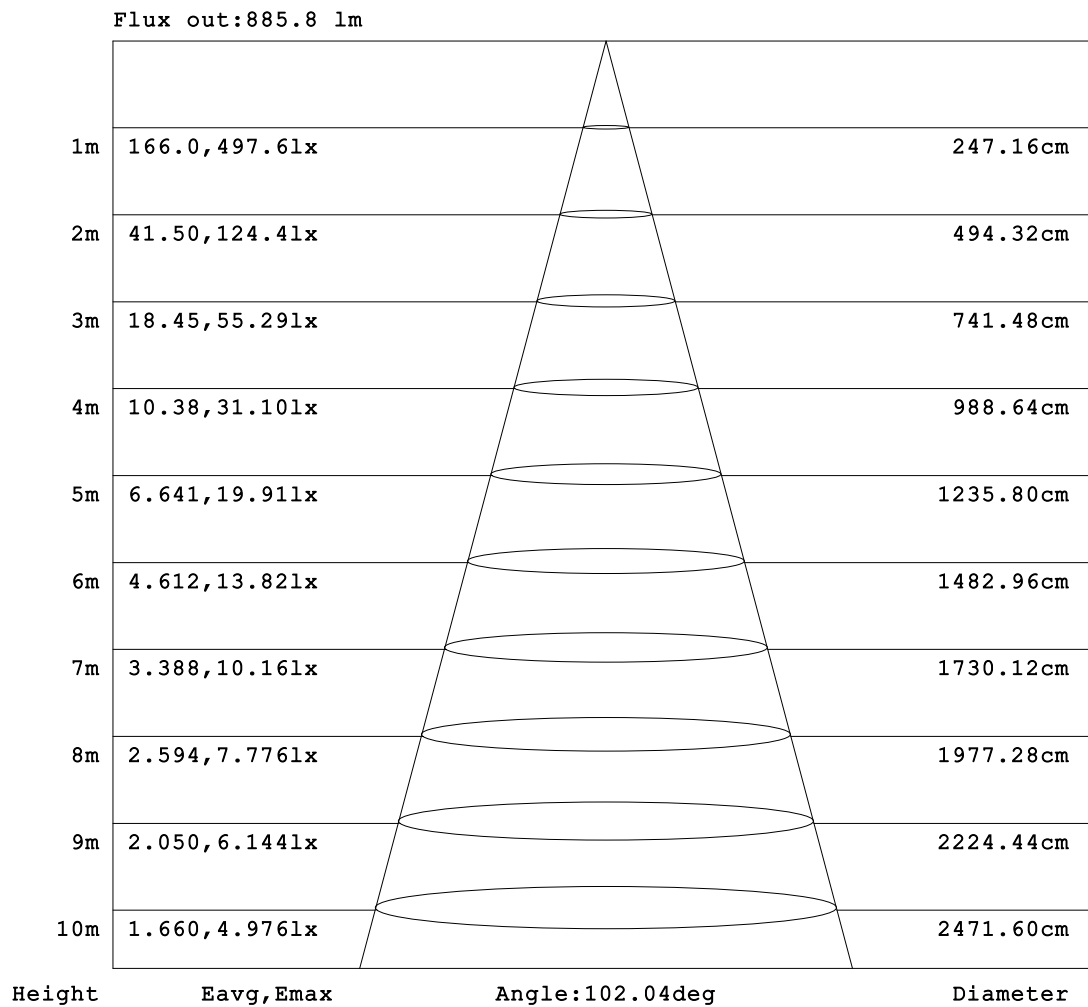


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:15 November 2022

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: 99POMT30/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 35 x 75 x 334	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cross	Shielding Angle:



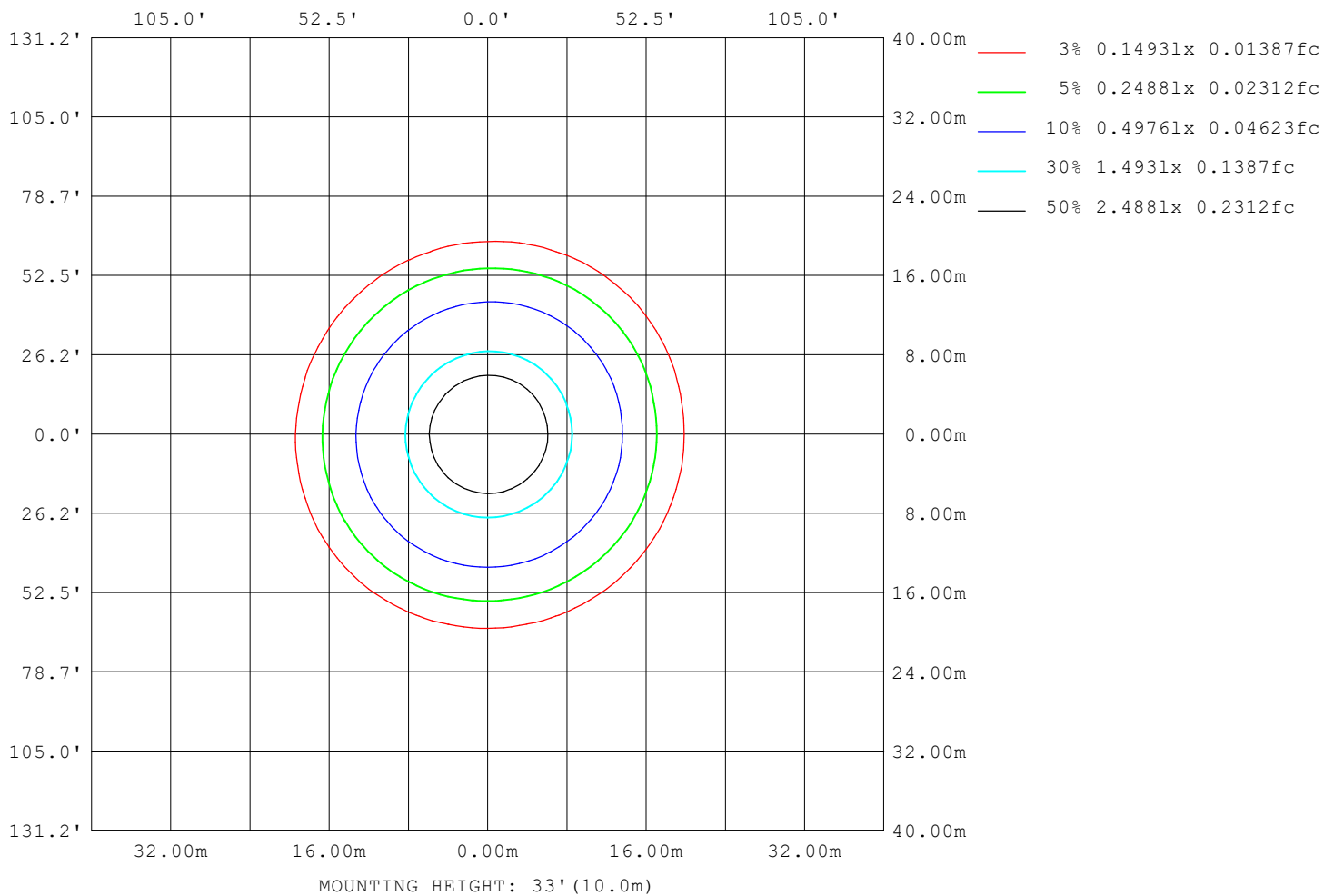
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date: 15 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: 99POMT30/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 35 x 75 x 334	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cross	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 15 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: 99POMT30/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 35 x 75 x 334	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cross	Shielding Angle:

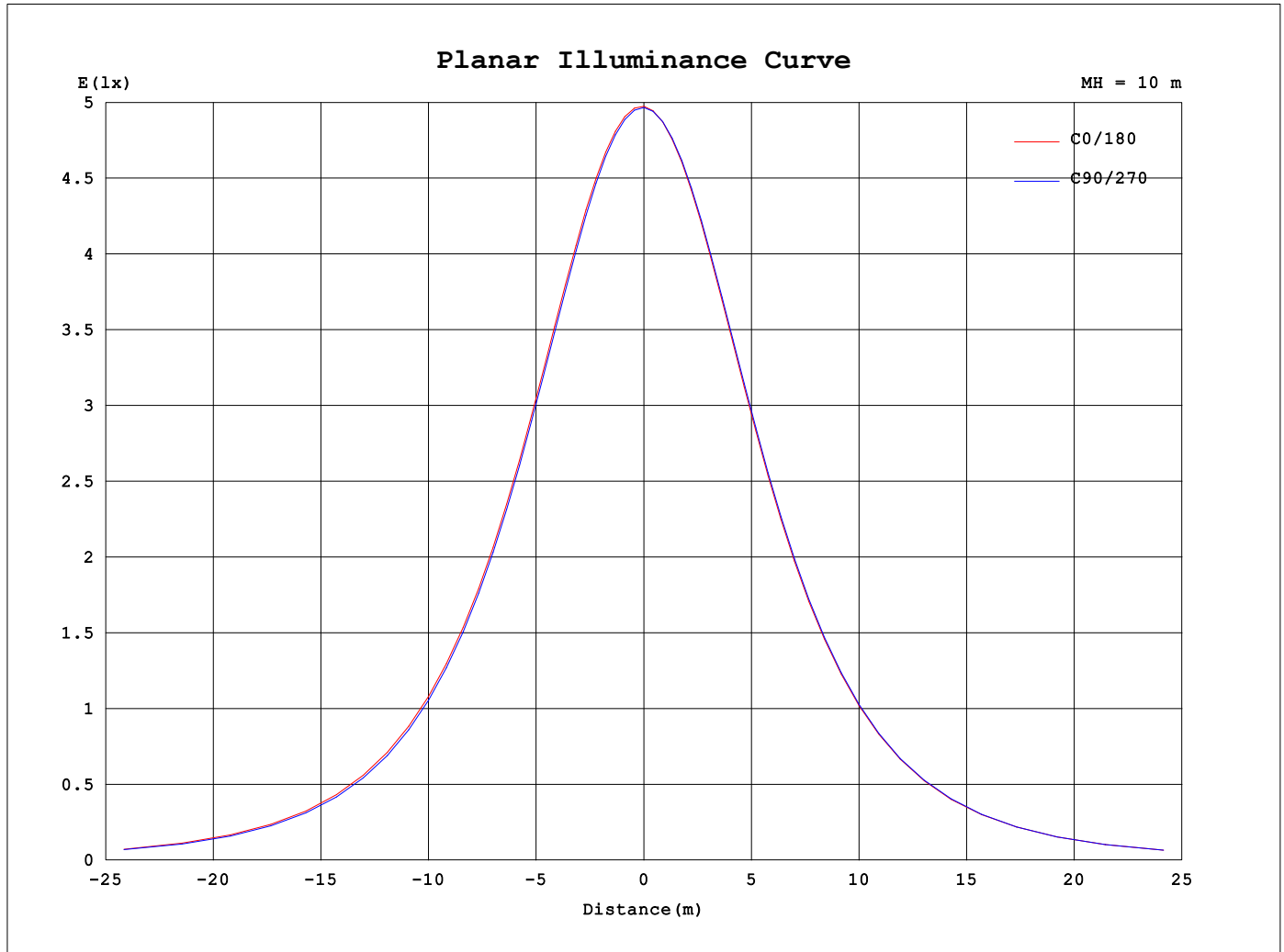
AvgL	cd/m2
L_0~180 (65) av	15731
L_0~180 (75) av	12310
L_0~180 (85) av	4059
L_90~270 (65) av	15472
L_90~270 (75) av	12158
L_90~270 (85) av	4225
L_45 (65) av	15922
L_45 (75) av	12914
L_45 (85) av	6267

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:15 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: 15 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:

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