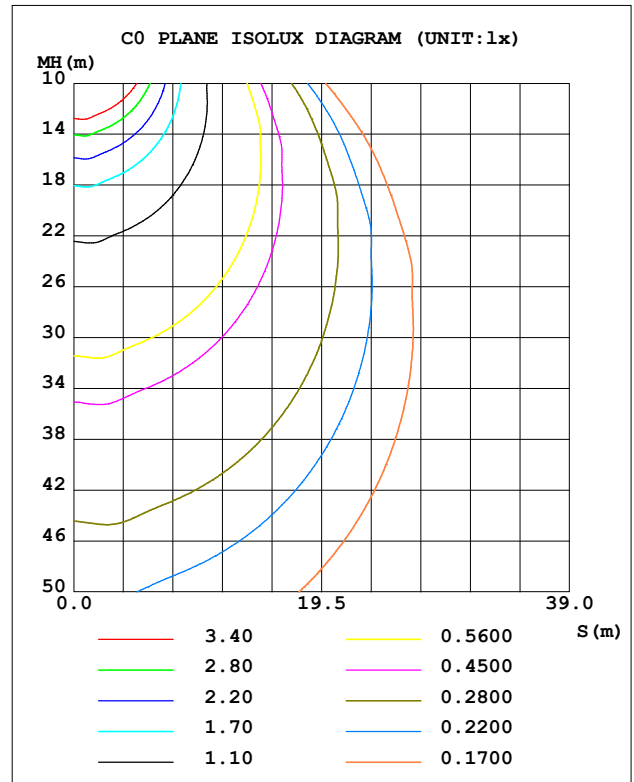
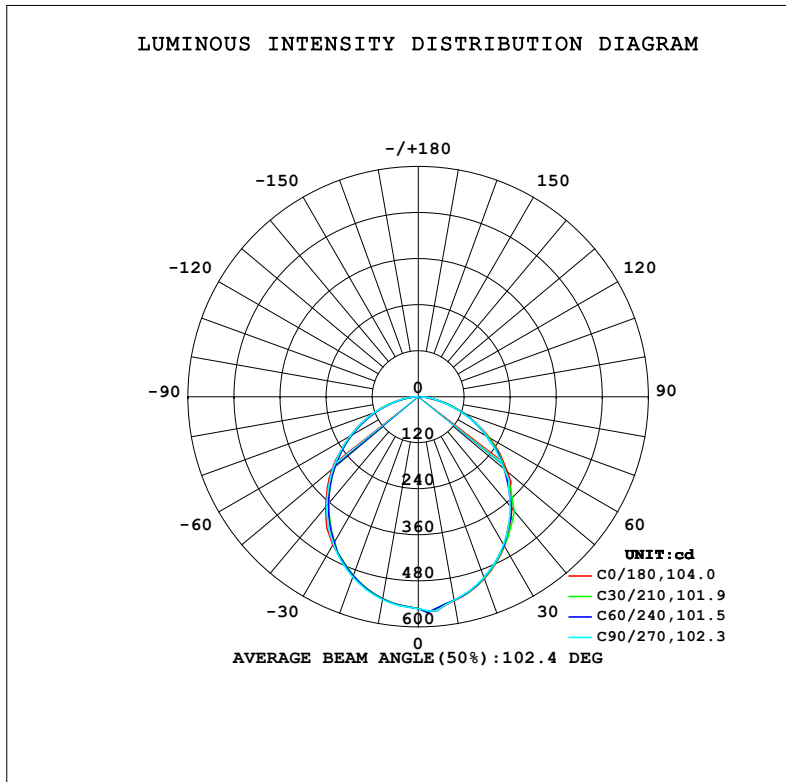


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: 99POMT30/WH	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/WH	Imax (cd)	562.6	S/MH (C0/180)	1.21
NOMINAL POWER (W)	15	LOR (%)	89.7	S/MH (C90/270)	1.20
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	1435.6	η UP, DN (C0-180)	0.0, 45.0
NOMINAL FLUX (lm)	1600	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 44.7
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	230	η down (%)	89.7	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
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	539.6	538.6	538.2	538.8	534.7	534.9	537.0	541.1	0- 10	52.17	52.17	3.63,3.26
20	504.4	502.4	501.2	504.2	496.1	495.6	499.7	507.6	10- 20	147.3	199.5	13.9,12.5
30	448.9	451.3	444.8	452.7	445.0	436.7	442.7	454.6	20- 30	218.9	418.4	29.1,26.2
40	379.0	375.8	372.8	381.0	374.8	363.0	371.0	381.8	30- 40	257.8	676.2	47.1,42.3
50	302.5	293.4	290.9	298.3	293.4	282.7	289.7	300.5	40- 50	258.6	934.8	65.1,58.4
60	215.5	208.7	205.4	208.8	205.5	200.0	205.6	216.9	50- 60	224.7	1159	80.8,72.5
70	126.9	126.6	122.1	125.3	122.4	118.8	122.9	133.0	60- 70	164.6	1324	92.2,82.8
80	49.06	47.55	46.60	49.10	45.76	44.71	47.92	55.15	70- 80	89.91	1414	98.5,88.4
90	1.983	1.252	7.948	1.066	1.573	1.006	3.258	0.8967	80- 90	21.63	1436	100,89.7
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): 807.79 lm

%lum = 56.3%

%lamp = 50.5%

Conical surface Flux(130deg): 1250.5 lm

%lum = 87.1%

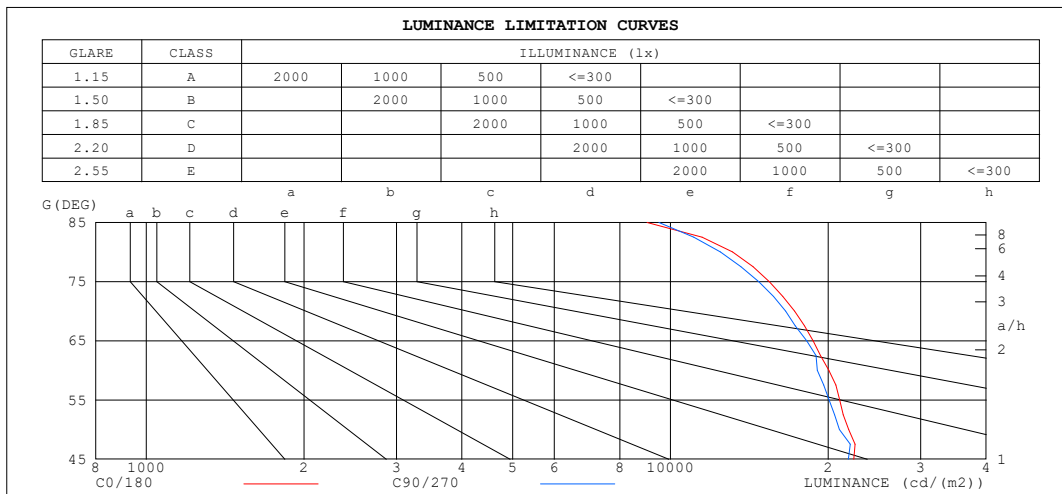
%lamp = 78.2%

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
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/WH	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	9015	9507
80	13131	12451
75	15432	14735
70	17253	16569
65	18703	18182
60	20033	19057
55	21037	20082
50	21875	20994
45	22359	21843

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
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/WH	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	.268	.152	.048	.261	.149	.047	.250	.143	.046	.239	.138	.044	.229	.132	.043	
2.0	.254	.139	.043	.248	.137	.042	.238	.132	.041	.228	.128	.040	.219	.124	.039	
3.0	.236	.125	.038	.231	.124	.037	.222	.120	.037	.213	.117	.036	.205	.114	.035	
4.0	.218	.113	.033	.214	.112	.033	.206	.109	.033	.198	.106	.032	.191	.104	.032	
5.0	.202	.103	.030	.199	.102	.030	.191	.100	.029	.185	.097	.029	.178	.095	.029	
6.0	.188	.094	.027	.185	.093	.027	.178	.091	.027	.172	.089	.026	.167	.088	.026	
7.0	.175	.087	.025	.172	.086	.024	.167	.084	.024	.161	.083	.024	.156	.081	.024	
8.0	.164	.080	.023	.161	.079	.022	.156	.078	.022	.151	.077	.022	.147	.075	.022	
9.0	.154	.074	.021	.151	.074	.021	.147	.073	.021	.142	.071	.020	.138	.070	.020	
10.0	.145	.069	.019	.143	.069	.019	.138	.068	.019	.135	.067	.019	.131	.066	.019	

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	.171	.171	.171	.146	.146	.146	.100	.100	.100	.057	.057	.057	.018	.018	.018	
1.0	.161	.140	.121	.138	.120	.104	.094	.083	.072	.054	.048	.042	.017	.015	.014	
2.0	.153	.118	.089	.131	.102	.077	.090	.071	.054	.052	.041	.031	.017	.013	.010	
3.0	.146	.103	.068	.125	.088	.059	.086	.061	.041	.050	.036	.024	.016	.012	.008	
4.0	.139	.090	.053	.120	.078	.046	.082	.054	.032	.048	.032	.019	.015	.010	.006	
5.0	.133	.081	.043	.114	.070	.037	.079	.049	.026	.046	.029	.016	.015	.009	.005	
6.0	.126	.074	.036	.109	.064	.031	.075	.045	.022	.043	.026	.013	.014	.009	.004	
7.0	.120	.067	.030	.104	.058	.026	.072	.041	.019	.042	.024	.011	.013	.008	.004	
8.0	.115	.062	.026	.099	.054	.023	.068	.038	.016	.040	.022	.010	.013	.007	.003	
9.0	.109	.058	.023	.094	.050	.020	.065	.035	.014	.038	.021	.008	.012	.007	.003	
10.0	.104	.054	.020	.090	.047	.018	.062	.033	.013	.036	.019	.008	.012	.006	.002	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
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/WH					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	21.8	23.3	22.0	23.5	23.7	21.5	23.0	21.8	23.2	23.4	
	23.1	24.5	23.4	24.7	25.0	22.9	24.3	23.2	24.5	24.7	
	23.7	25.0	24.0	25.2	25.5	23.4	24.7	23.7	24.9	25.2	
	24.0	25.2	24.3	25.5	25.8	23.7	24.9	24.0	25.2	25.5	
	24.1	25.3	24.4	25.5	25.8	23.8	25.0	24.1	25.3	25.6	
	24.1	25.2	24.4	25.5	25.8	23.8	25.0	24.2	25.2	25.6	
4H	2H	22.3	23.6	22.6	23.9	24.1	22.1	23.4	22.4	23.7	23.9
	3H	23.9	25.0	24.2	25.3	25.6	23.7	24.8	24.0	25.1	25.4
	4H	24.5	25.5	24.9	25.9	26.2	24.3	25.3	24.6	25.6	26.0
	6H	25.0	25.9	25.3	26.2	26.6	24.7	25.6	25.1	26.0	26.3
	8H	25.1	25.9	25.5	26.3	26.7	24.8	25.7	25.2	26.1	26.4
	12H	25.1	25.9	25.5	26.3	26.7	24.9	25.7	25.3	26.1	26.5
8H	4H	24.7	25.6	25.1	25.9	26.3	24.5	25.4	24.9	25.7	26.1
	6H	25.3	26.0	25.7	26.4	26.8	25.1	25.8	25.5	26.2	26.6
	8H	25.5	26.1	25.9	26.5	27.0	25.2	25.9	25.7	26.3	26.8
	12H	25.6	26.1	26.0	26.5	27.0	25.3	25.9	25.8	26.3	26.8
12H	4H	24.7	25.5	25.1	25.9	26.3	24.5	25.3	24.9	25.7	26.1
	6H	25.3	26.0	25.8	26.4	26.8	25.1	25.7	25.6	26.2	26.6
	8H	25.5	26.1	26.0	26.5	27.0	25.3	25.9	25.8	26.3	26.8
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					+ 0.1 / - 0.3					
2.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.2					

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

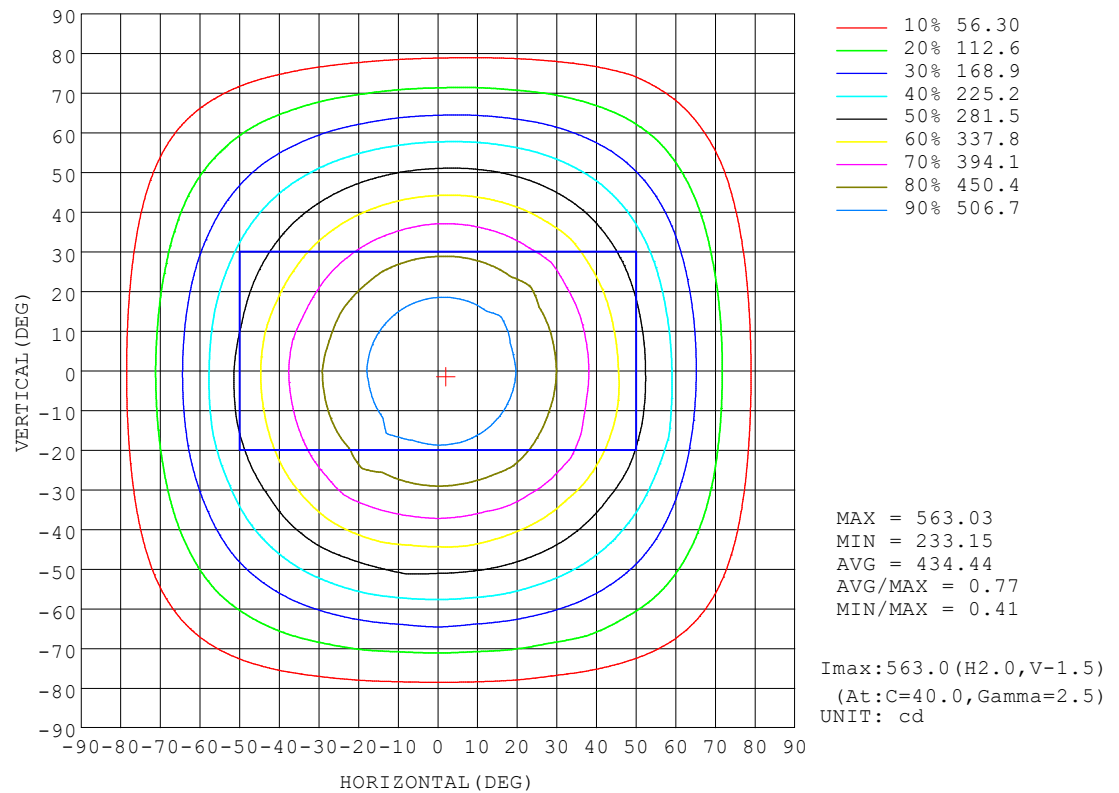
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	53	43	37	52	42	36	51	42	36	31
0.80	62	52	45	61	51	45	59	51	45	39
1.00	69	60	53	68	59	53	66	60	53	46
1.25	76	67	60	74	66	60	72	65	59	53
1.50	80	71	65	79	71	65	76	69	64	57
2.00	86	79	73	84	78	72	81	76	71	64
2.50	89	83	77	88	81	77	84	79	75	68
3.00	92	86	82	90	85	81	87	82	79	71
4.00	96	91	87	94	89	86	90	86	83	75
5.00	98	94	90	96	92	89	92	89	86	78
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: 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/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 35 x 75 x 334	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cross	Shielding Angle:

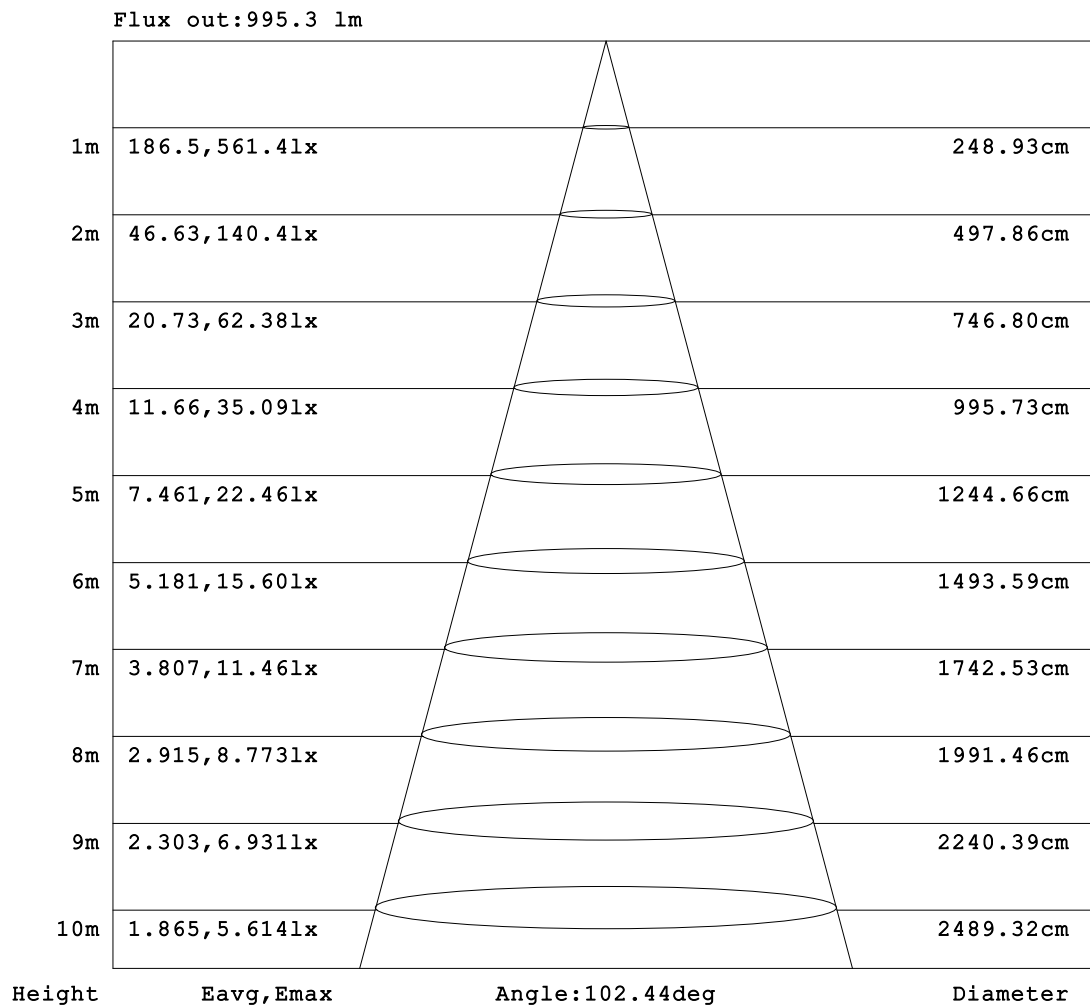


C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: MEDIUM
 Temperature:25.3°C
 Operators:
 Test Date:15 November 2022

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



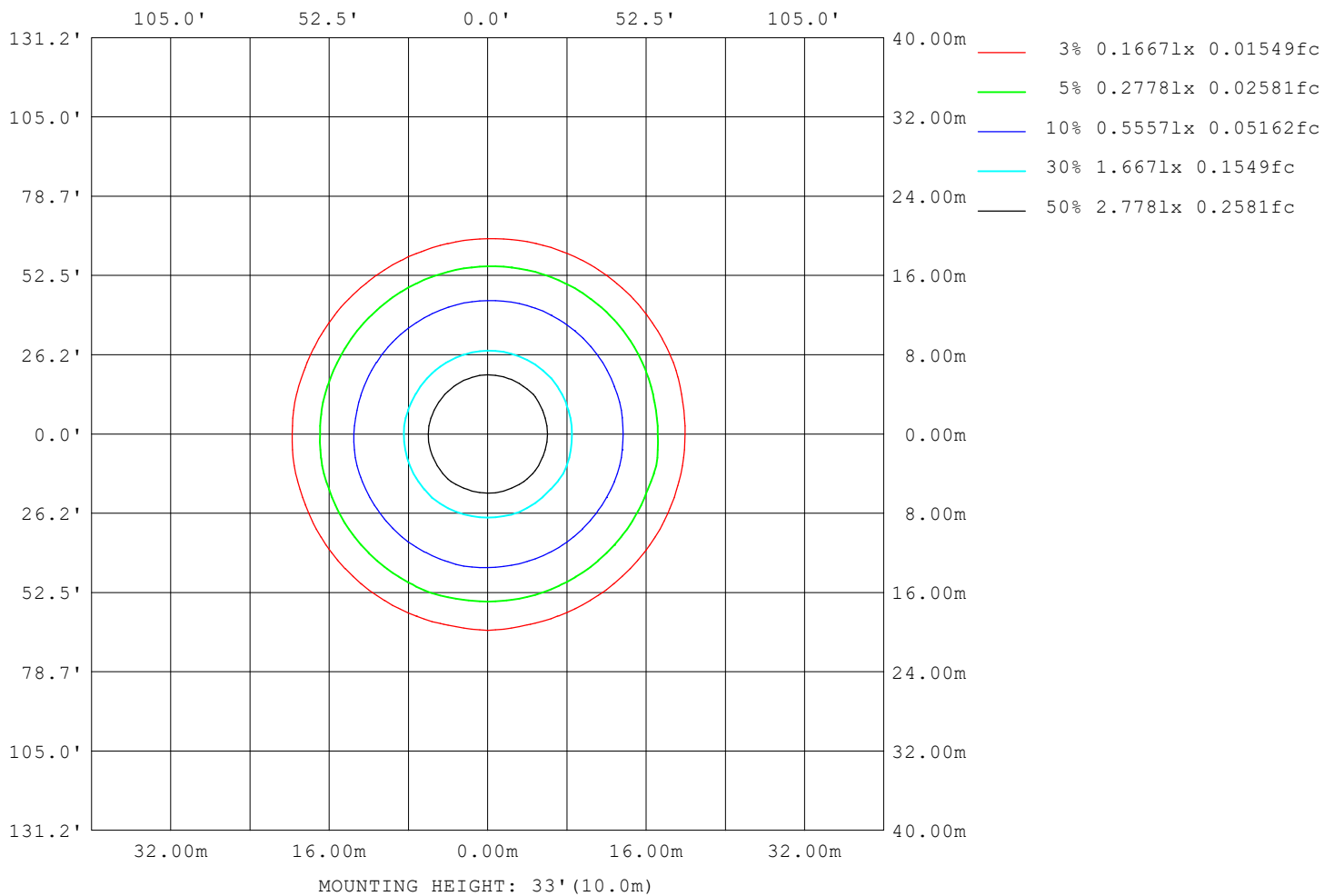
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: MEDIUM
 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/WH	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: MEDIUM
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/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 35 x 75 x 334	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cross	Shielding Angle:

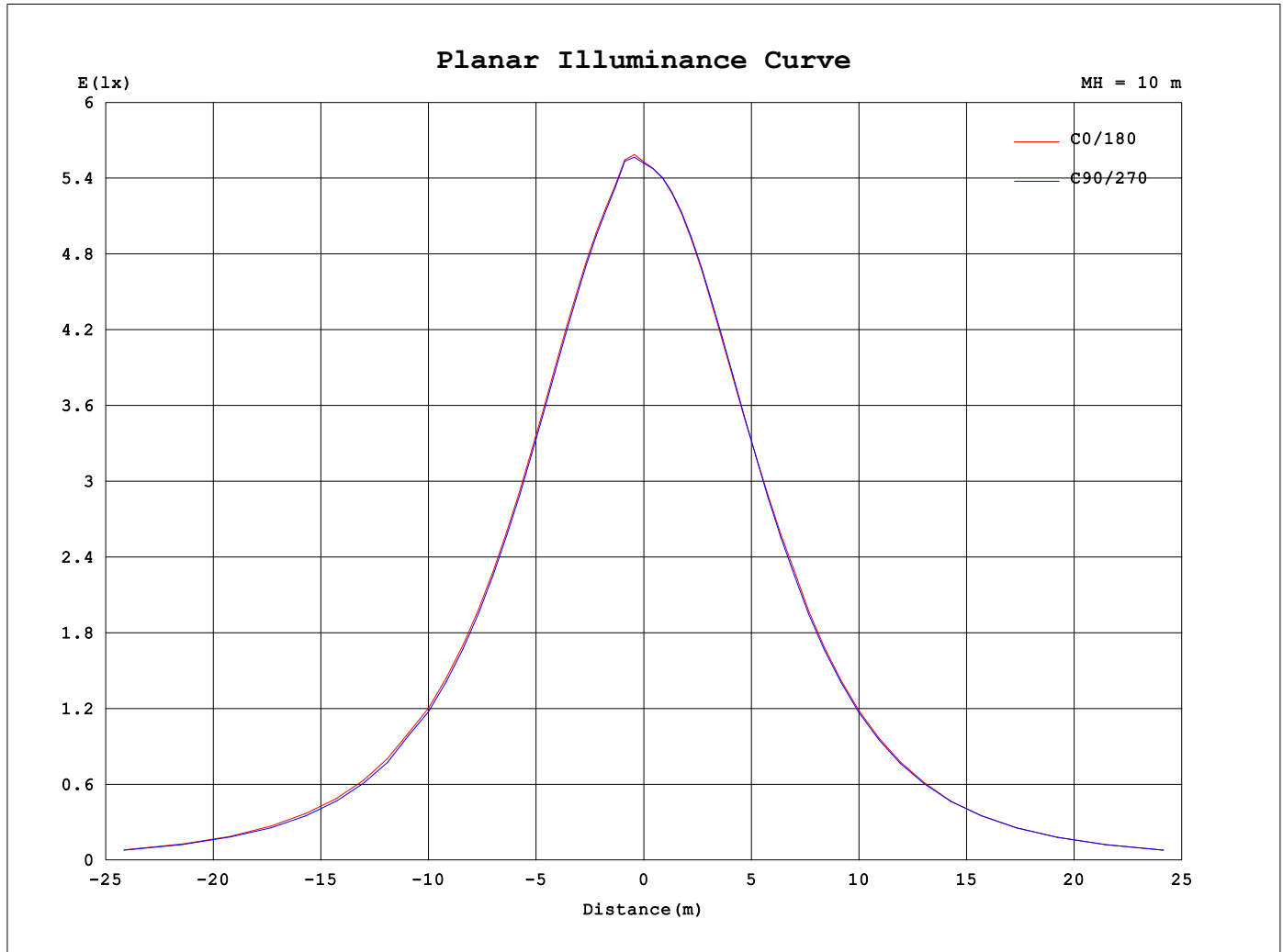
AvgL	cd/m2
L_0~180 (65) av	18320
L_0~180 (75) av	15074
L_0~180 (85) av	8337
L_90~270 (65) av	18077
L_90~270 (75) av	14904
L_90~270 (85) av	9227
L_45 (65) av	18300
L_45 (75) av	15439
L_45 (85) av	9034

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
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: MEDIUM
 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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