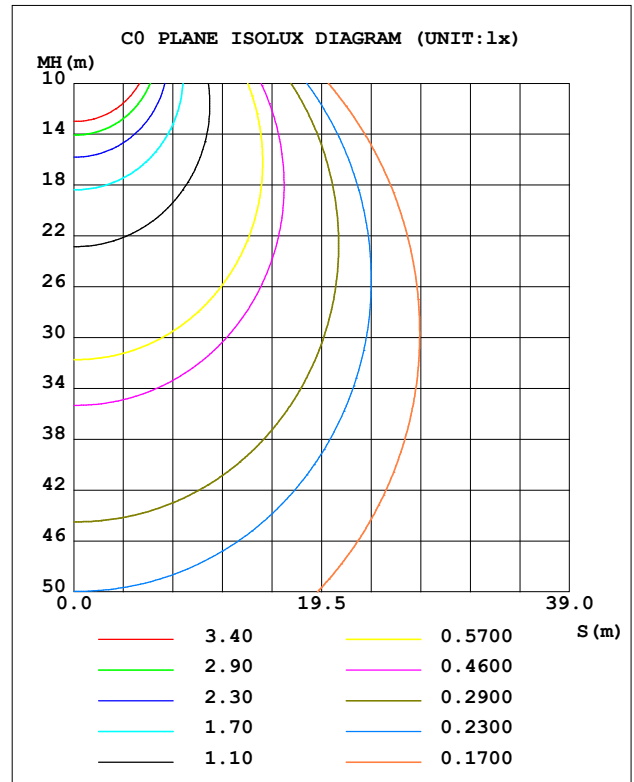
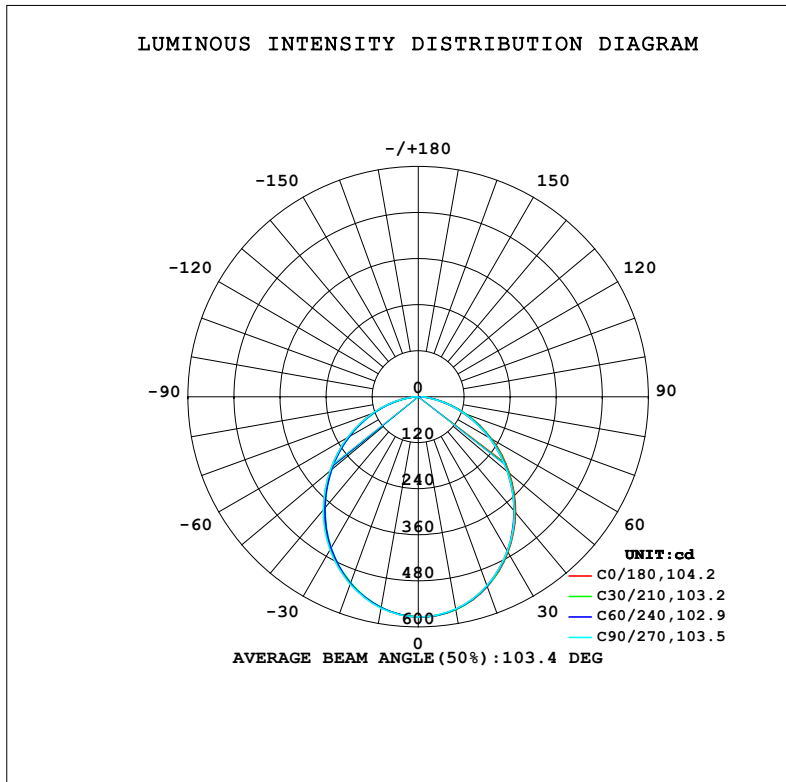


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: 99POMT40/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	99POMT40/WH	I _{max} (cd)	573.7	S/MH (C0/180)	1.19
NOMINAL POWER (W)	15	LOR (%)	93.0	S/MH (C90/270)	1.20
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	1488.3	η UP, DN (C0-180)	0.0, 46.6
NOMINAL FLUX (lm)	1600	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 46.4
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	230	η down (%)	93.0	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	563.1	562.7	561.7	559.8	558.0	557.7	559.5	561.9	0- 10	54.14	54.14	3.64, 3.38
20	526.6	524.7	523.6	521.3	517.7	516.4	520.1	525.2	10- 20	153.4	207.5	13.9, 13
30	468.1	465.2	464.4	462.6	457.6	454.7	460.3	467.8	20- 30	227.7	435.2	29.2, 27.2
40	394.4	389.5	389.1	388.5	383.4	377.8	385.3	394.6	30- 40	266.8	702.0	47.2, 43.9
50	310.5	305.1	303.2	305.4	299.6	294.1	300.9	312.3	40- 50	267.3	969.3	65.1, 60.6
60	221.7	216.6	214.2	217.6	211.8	208.1	213.7	225.4	50- 60	232.8	1202	80.8, 75.1
70	131.7	128.7	127.3	130.8	126.1	123.2	127.8	138.3	60- 70	170.6	1373	92.2, 85.8
80	50.44	48.53	49.00	51.43	47.11	45.98	49.73	57.53	70- 80	93.23	1466	98.5, 91.6
90	1.989	1.279	7.729	1.320	1.640	1.109	2.826	1.360	80- 90	22.37	1488	100, 93
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): 837.92 lm

%lum = 56.3%

%lamp = 52.4%

Conical surface Flux(130deg): 1296.4 lm

%lum = 87.1%

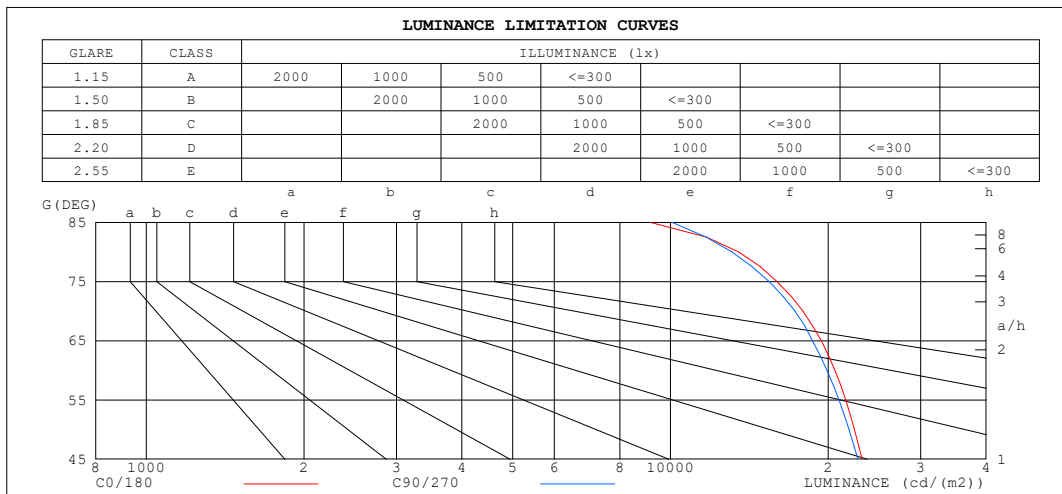
%lamp = 81.0%

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: 99POMT40/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	9170	10082
80	13486	13099
75	15957	15423
70	17879	17279
65	19404	18665
60	20584	19886
55	21587	20962
50	22428	21899
45	23194	22778

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: 99POMT40/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	.277	.158	.050	.271	.154	.049	.259	.148	.047	.247	.143	.046	.237	.137	.044	
2.0	.263	.144	.044	.257	.142	.044	.246	.137	.043	.236	.133	.041	.227	.128	.040	
3.0	.244	.130	.039	.239	.128	.039	.230	.124	.038	.221	.121	.037	.213	.118	.036	
4.0	.226	.118	.035	.222	.116	.034	.213	.113	.034	.205	.110	.033	.198	.108	.033	
5.0	.210	.107	.031	.206	.106	.031	.198	.103	.030	.191	.101	.030	.185	.099	.030	
6.0	.195	.098	.028	.191	.097	.028	.185	.095	.028	.178	.093	.027	.173	.091	.027	
7.0	.182	.090	.025	.179	.089	.025	.173	.087	.025	.167	.086	.025	.162	.084	.025	
8.0	.170	.083	.023	.167	.082	.023	.162	.081	.023	.157	.079	.023	.152	.078	.023	
9.0	.159	.077	.022	.157	.076	.021	.152	.075	.021	.148	.074	.021	.143	.073	.021	
10.0	.150	.072	.020	.148	.071	.020	.144	.070	.020	.139	.069	.020	.136	.068	.020	

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	.177	.177	.177	.151	.151	.151	.103	.103	.103	.059	.059	.059	.019	.019	.019	
1.0	.167	.145	.126	.143	.125	.108	.098	.086	.075	.056	.050	.044	.018	.016	.014	
2.0	.159	.123	.092	.136	.106	.080	.093	.073	.056	.054	.043	.033	.017	.014	.011	
3.0	.152	.106	.070	.130	.092	.061	.089	.064	.043	.052	.037	.025	.017	.012	.008	
4.0	.145	.094	.055	.124	.081	.048	.085	.056	.034	.049	.033	.020	.016	.011	.007	
5.0	.138	.084	.045	.118	.073	.039	.081	.051	.027	.047	.030	.016	.015	.010	.005	
6.0	.131	.076	.037	.113	.066	.032	.078	.046	.023	.045	.027	.014	.015	.009	.004	
7.0	.125	.070	.031	.107	.061	.027	.074	.042	.019	.043	.025	.012	.014	.008	.004	
8.0	.119	.064	.027	.102	.056	.024	.071	.039	.017	.041	.023	.010	.013	.008	.003	
9.0	.113	.060	.024	.098	.052	.021	.068	.036	.015	.039	.022	.009	.013	.007	.003	
10.0	.108	.056	.021	.093	.048	.018	.065	.034	.013	.038	.020	.008	.012	.007	.003	

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: 99POMT40/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	22.1	23.5	23.7	21.7	23.2	21.9	23.4	23.6				
3H	23.2	24.6	23.5	24.8	25.1	23.0	24.4	23.3	24.6	24.9				
4H	23.7	25.0	24.0	25.3	25.5	23.5	24.8	23.8	25.1	25.3				
6H	24.1	25.3	24.4	25.6	25.8	23.8	25.1	24.2	25.3	25.6				
8H	24.1	25.3	24.5	25.6	25.9	23.9	25.1	24.3	25.4	25.7				
12H	24.2	25.3	24.5	25.6	25.9	24.0	25.1	24.3	25.4	25.7				
4H 2H	22.4	23.7	22.7	23.9	24.2	22.2	23.6	22.6	23.8	24.1				
3H	23.9	25.1	24.3	25.4	25.7	23.8	24.9	24.1	25.2	25.5				
4H	24.6	25.6	24.9	25.9	26.3	24.4	25.4	24.8	25.7	26.1				
6H	25.0	25.9	25.4	26.3	26.7	24.8	25.7	25.2	26.1	26.5				
8H	25.1	26.0	25.6	26.4	26.8	24.9	25.8	25.4	26.2	26.6				
12H	25.2	26.0	25.6	26.4	26.8	25.0	25.8	25.4	26.2	26.6				
8H 4H	24.8	25.6	25.2	26.0	26.4	24.6	25.5	25.0	25.8	26.2				
6H	25.3	26.1	25.8	26.5	26.9	25.2	25.9	25.6	26.3	26.7				
8H	25.5	26.2	26.0	26.6	27.0	25.3	26.0	25.8	26.4	26.9				
12H	25.6	26.1	26.1	26.6	27.1	25.4	26.0	25.9	26.4	26.9				
12H 4H	24.8	25.6	25.2	26.0	26.4	24.6	25.4	25.0	25.8	26.2				
6H	25.4	26.0	25.8	26.4	26.9	25.2	25.8	25.7	26.3	26.7				
8H	25.6	26.1	26.0	26.6	27.0	25.4	25.9	25.9	26.4	26.9				
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 / - 0.3								

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: 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: 99POMT40/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 35 x 75 x 334	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cross	Shielding Angle:

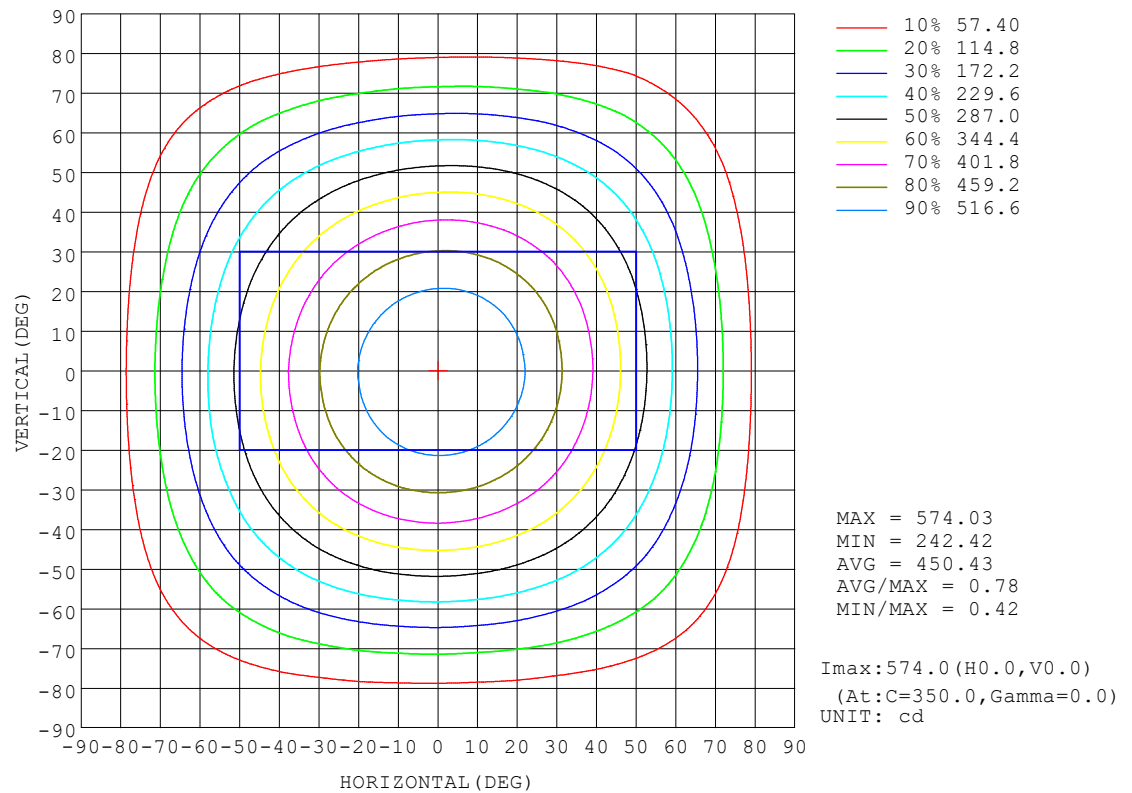
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	55	44	38	54	44	38	53	44	38	32
0.80	64	54	47	63	53	47	62	53	46	40
1.00	72	62	55	71	61	55	69	63	55	48
1.25	78	69	63	77	68	62	75	67	61	55
1.50	83	74	68	81	73	67	79	72	66	60
2.00	89	82	76	88	80	75	84	78	74	67
2.50	93	86	80	91	84	80	87	82	78	70
3.00	96	90	85	94	88	84	90	85	82	74
4.00	99	94	90	97	93	89	93	90	86	78
5.00	102	97	94	99	95	92	95	92	89	81
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: 99POMT40/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 35 x 75 x 334	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cross	Shielding Angle:

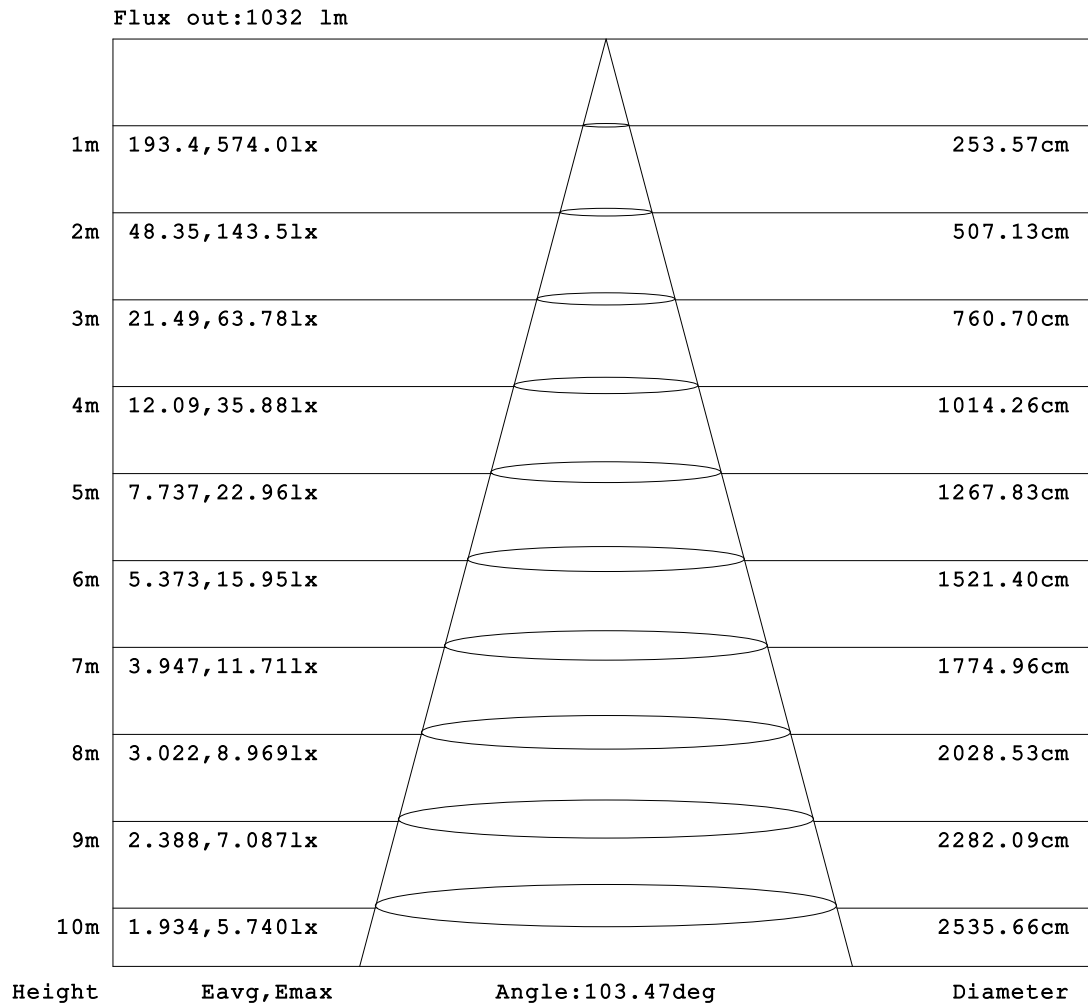


C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: MEDIUM
 Temperature:25.3°C
 Operators:
 Test Date:15 November 2022

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: 99POMT40/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 35 x 75 x 334	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cross	Shielding Angle:



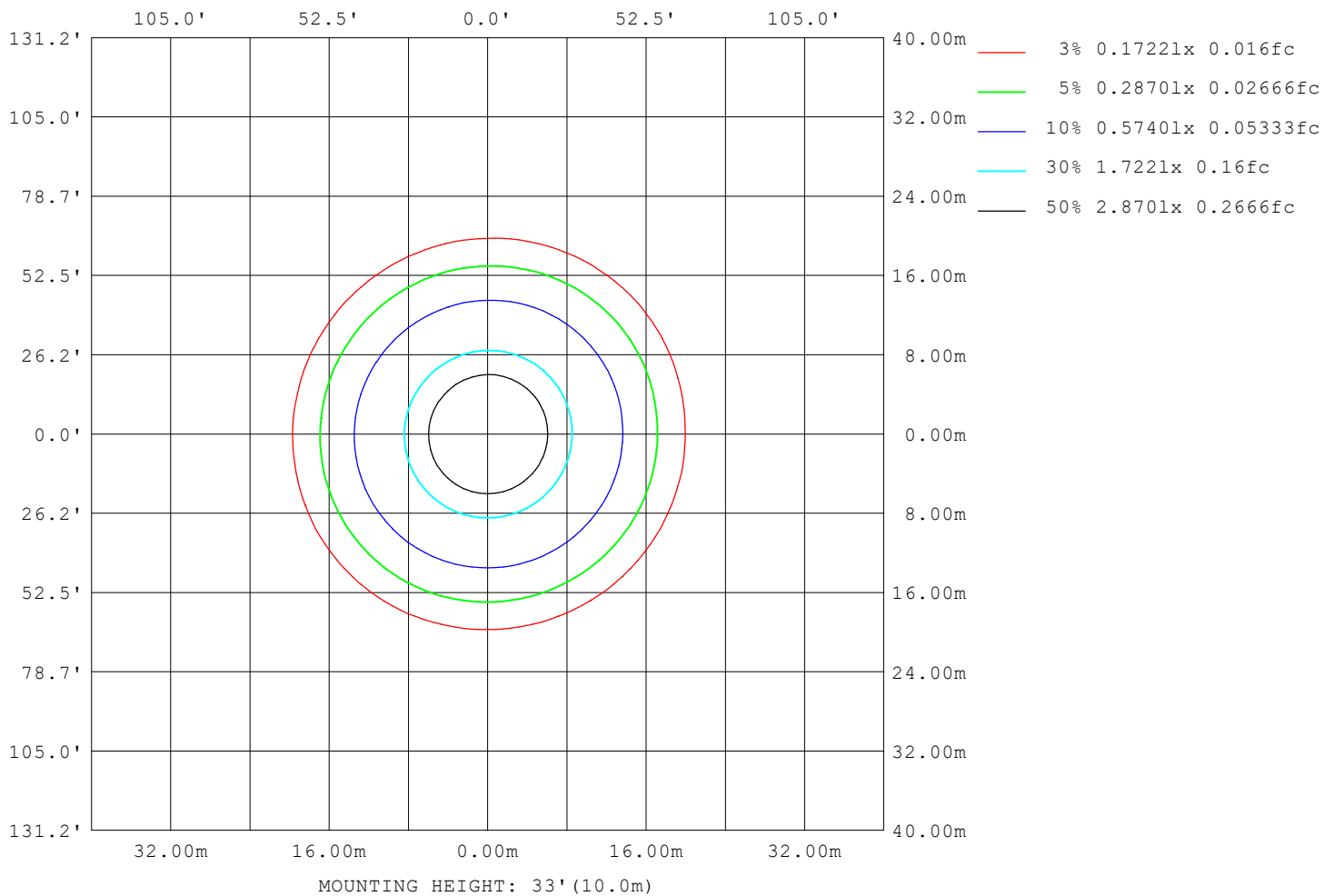
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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: 99POMT40/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: 99POMT40/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 35 x 75 x 334	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cross	Shielding Angle:

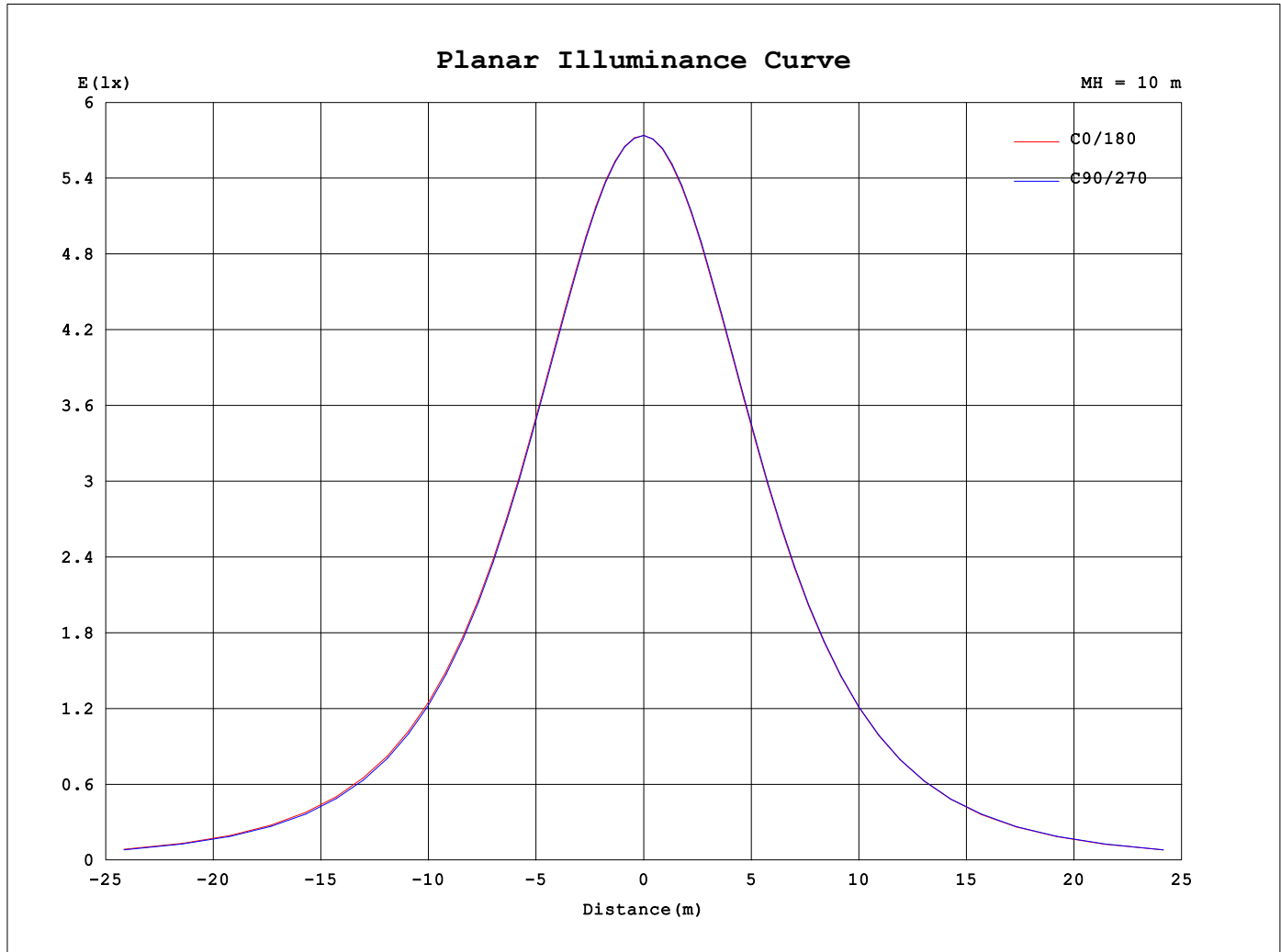
AvgL	cd/m2
L_0~180 (65) av	18931
L_0~180 (75) av	15612
L_0~180 (85) av	8489
L_90~270 (65) av	18665
L_90~270 (75) av	15559
L_90~270 (85) av	9596
L_45 (65) av	19006
L_45 (75) av	15989
L_45 (85) av	9386

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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