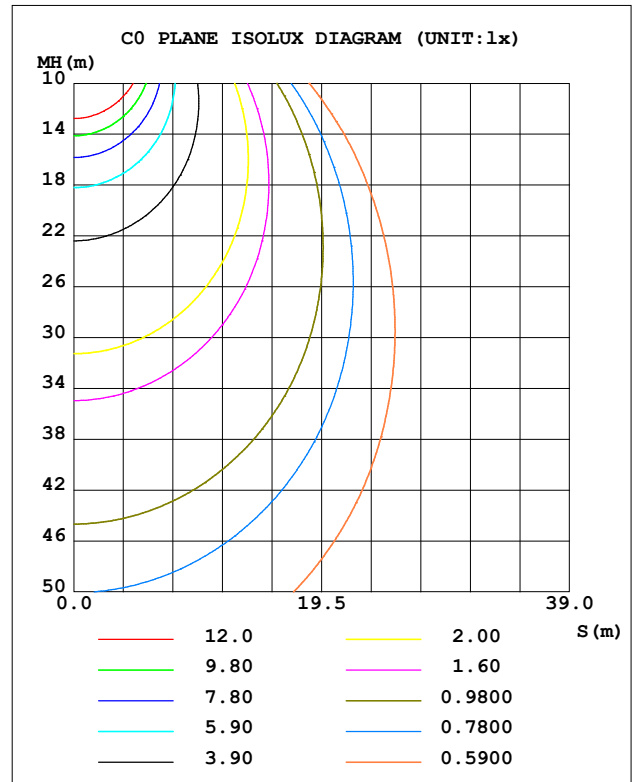
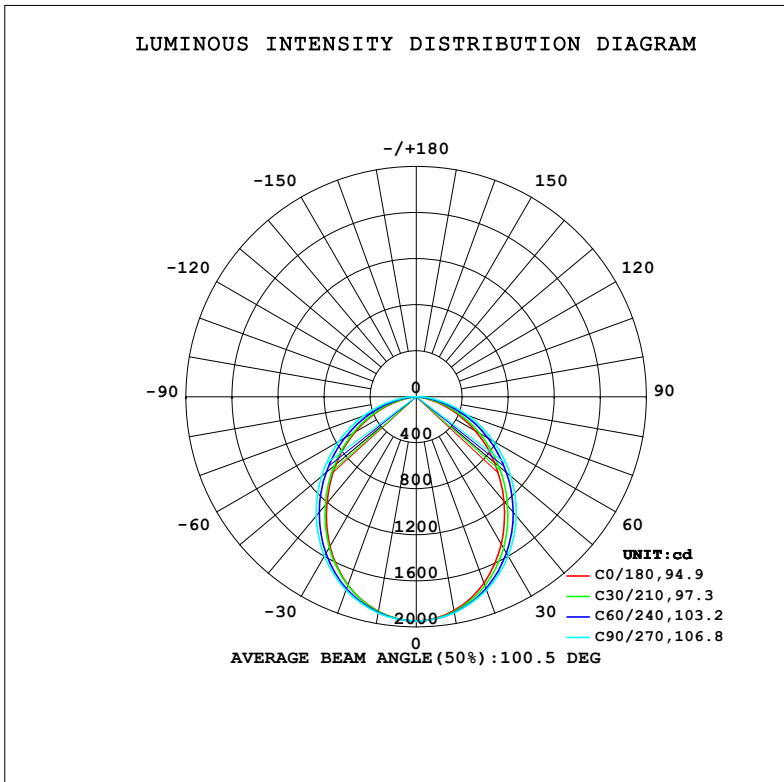


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: 99POM1505040/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 1500 x 50 x 70	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	99POM1505040/BL	I _{max} (cd)	1948	S/MH (C0/180)	1.16
NOMINAL POWER (W)	50	LOR (%)	107.2	S/MH (C90/270)	1.23
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	4823.0	η UP, DN (C0-180)	0.0, 53.4
NOMINAL FLUX (lm)	4500	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 53.7
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	230	η down (%)	107.2	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 01 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	1886	1899	1905	1897	1894	1898	1907	1901	0- 10	183.6	183.6	3.81,4.08
20	1722	1759	1788	1756	1740	1758	1788	1764	10- 20	518.3	701.8	14.6,15.6
30	1478	1543	1598	1538	1500	1541	1598	1549	20- 30	763.8	1466	30.4,32.6
40	1186	1274	1352	1268	1209	1271	1354	1282	30- 40	883.5	2349	48.7,52.2
50	885.8	975.7	1072	970.9	908.6	972.5	1075	984.7	40- 50	870.8	3220	66.8,71.6
60	595.1	676.1	775.8	672.0	613.7	673.8	781.7	685.0	50- 60	744.1	3964	82.2,88.1
70	317.6	386.2	480.8	383.3	334.2	384.3	486.0	394.2	60- 70	532.3	4496	93.2,99.9
80	75.06	125.6	209.2	124.1	88.09	124.2	213.3	132.0	70- 80	275.6	4772	98.9,106
90	1.895	2.369	3.212	2.461	1.559	2.101	2.917	2.060	80- 90	51.04	4823	100,107
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): 2794 lm

%lum = 57.9%

%lamp = 62.1%

Conical surface Flux(130deg): 4260.7 lm

%lum = 88.3%

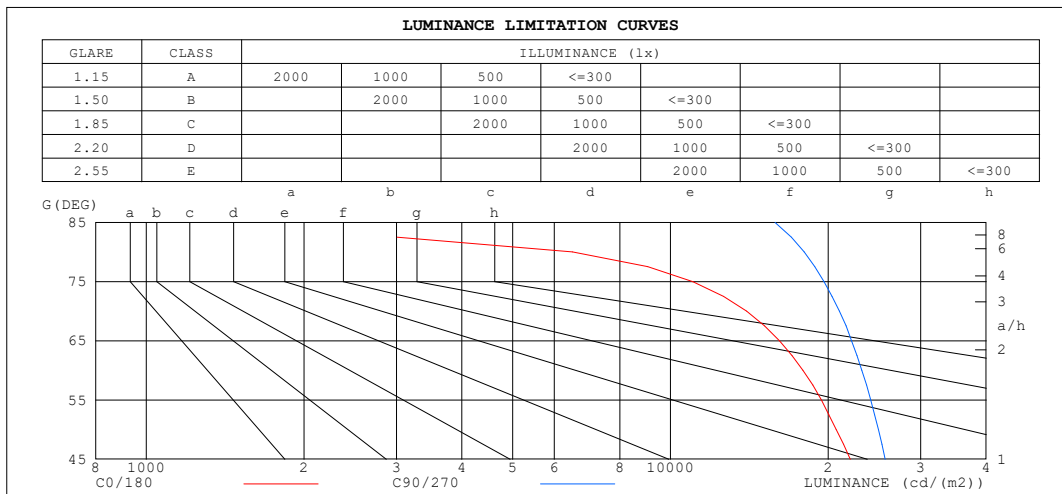
%lamp = 94.7%

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:01 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: 99POM1505040/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 1500 x 50 x 70	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	435	15822
80	6498	18000
75	11024	19630
70	13958	21000
65	16134	22157
60	17893	23177
55	19415	24088
50	20716	24913
45	22020	25674

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 01 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:

```

WEC AND CCEC

NAME: 99POM1505040/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 1500 x 50 x 70	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.:	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	.310	.176	.056	.302	.172	.055	.288	.165	.053	.275	.159	.051	.263	.153	.049	
2.0	.296	.162	.050	.289	.159	.049	.277	.154	.048	.265	.149	.047	.255	.144	.045	
3.0	.276	.147	.044	.270	.145	.044	.259	.141	.043	.249	.137	.042	.240	.133	.041	
4.0	.256	.133	.039	.251	.131	.039	.242	.128	.038	.233	.125	.038	.224	.122	.037	
5.0	.238	.121	.035	.234	.120	.035	.225	.117	.034	.217	.115	.034	.210	.112	.034	
6.0	.222	.111	.032	.218	.110	.032	.210	.108	.031	.203	.105	.031	.196	.103	.031	
7.0	.207	.102	.029	.203	.101	.029	.197	.099	.029	.190	.097	.028	.184	.096	.028	
8.0	.194	.095	.027	.191	.094	.027	.185	.092	.026	.179	.091	.026	.173	.089	.026	
9.0	.182	.088	.025	.179	.087	.025	.174	.086	.024	.168	.084	.024	.164	.083	.024	
10.0	.171	.082	.023	.169	.082	.023	.164	.080	.023	.159	.079	.022	.155	.078	.022	

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	.204	.204	.204	.174	.174	.174	.119	.119	.119	.068	.068	.068	.022	.022	.022	
1.0	.192	.168	.146	.164	.144	.125	.112	.099	.087	.065	.057	.050	.021	.018	.016	
2.0	.182	.141	.107	.156	.122	.093	.107	.084	.065	.062	.049	.038	.020	.016	.012	
3.0	.174	.122	.082	.149	.106	.071	.102	.073	.050	.059	.043	.029	.019	.014	.010	
4.0	.165	.108	.064	.142	.093	.056	.098	.065	.039	.056	.038	.023	.018	.012	.008	
5.0	.158	.097	.052	.135	.084	.045	.093	.058	.032	.054	.034	.019	.017	.011	.006	
6.0	.150	.088	.043	.129	.076	.037	.089	.053	.026	.052	.031	.016	.017	.010	.005	
7.0	.143	.080	.036	.123	.070	.032	.085	.049	.022	.049	.029	.013	.016	.009	.004	
8.0	.136	.074	.031	.117	.064	.027	.081	.045	.019	.047	.027	.012	.015	.009	.004	
9.0	.130	.069	.028	.112	.060	.024	.077	.042	.017	.045	.025	.010	.015	.008	.003	
10.0	.124	.064	.024	.107	.056	.021	.074	.039	.015	.043	.023	.009	.014	.008	.003	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:01 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: 99POM1505040/BL					TYPE:					WEIGHT: 1				
SPEC.:					DIM.: 1500 x 50 x 70					SERIAL No.: 0				
MFR.: Elmark Industries JSC					SUR.:					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	17.6	19.1	17.9	19.3	19.5	18.7	20.2	19.0	20.4	20.6				
3H	18.7	20.1	19.0	20.3	20.5	20.2	21.6	20.5	21.8	22.0				
4H	19.0	20.3	19.3	20.6	20.8	20.8	22.1	21.1	22.3	22.6				
6H	19.1	20.3	19.5	20.6	20.9	21.3	22.5	21.6	22.7	23.0				
8H	19.1	20.3	19.4	20.5	20.8	21.4	22.6	21.7	22.8	23.1				
12H	19.0	20.2	19.4	20.5	20.8	21.5	22.6	21.8	22.9	23.2				
4H 2H	18.3	19.6	18.6	19.8	20.1	19.1	20.4	19.4	20.7	20.9				
3H	19.5	20.6	19.9	20.9	21.2	20.8	21.9	21.2	22.2	22.5				
4H	19.9	21.0	20.3	21.3	21.6	21.5	22.6	21.9	22.9	23.2				
6H	20.1	21.0	20.5	21.3	21.7	22.1	23.0	22.5	23.4	23.7				
8H	20.1	20.9	20.5	21.3	21.7	22.3	23.1	22.7	23.5	23.9				
12H	20.0	20.8	20.4	21.2	21.6	22.4	23.2	22.8	23.6	24.0				
8H 4H	20.2	21.0	20.6	21.4	21.8	21.6	22.5	22.1	22.8	23.2				
6H	20.4	21.1	20.9	21.5	21.9	22.3	23.0	22.8	23.4	23.8				
8H	20.4	21.0	20.9	21.5	21.9	22.6	23.2	23.0	23.6	24.1				
12H	20.4	20.9	20.9	21.3	21.8	22.8	23.3	23.2	23.7	24.2				
12H 4H	20.2	21.0	20.6	21.4	21.8	21.6	22.4	22.0	22.8	23.2				
6H	20.5	21.1	20.9	21.5	21.9	22.3	22.9	22.8	23.3	23.8				
8H	20.5	21.0	20.9	21.4	21.9	22.6	23.1	23.1	23.6	24.0				
Variations with the observer position at spacings(CIE Pub.117):														
S = 1.0H	+ 0.3 / - 0.3					+ 0.2 / - 0.2								
1.5H	+ 0.2 / - 0.4					+ 0.2 / - 0.3								
2.0H	+ 0.3 / - 0.5					+ 0.3 / - 0.3								

CIE Pub.117, 4500 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 5.2)
Area: 0.06678 m2

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:01 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: 99POM1505040/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 1500 x 50 x 70	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.:	Shielding Angle:

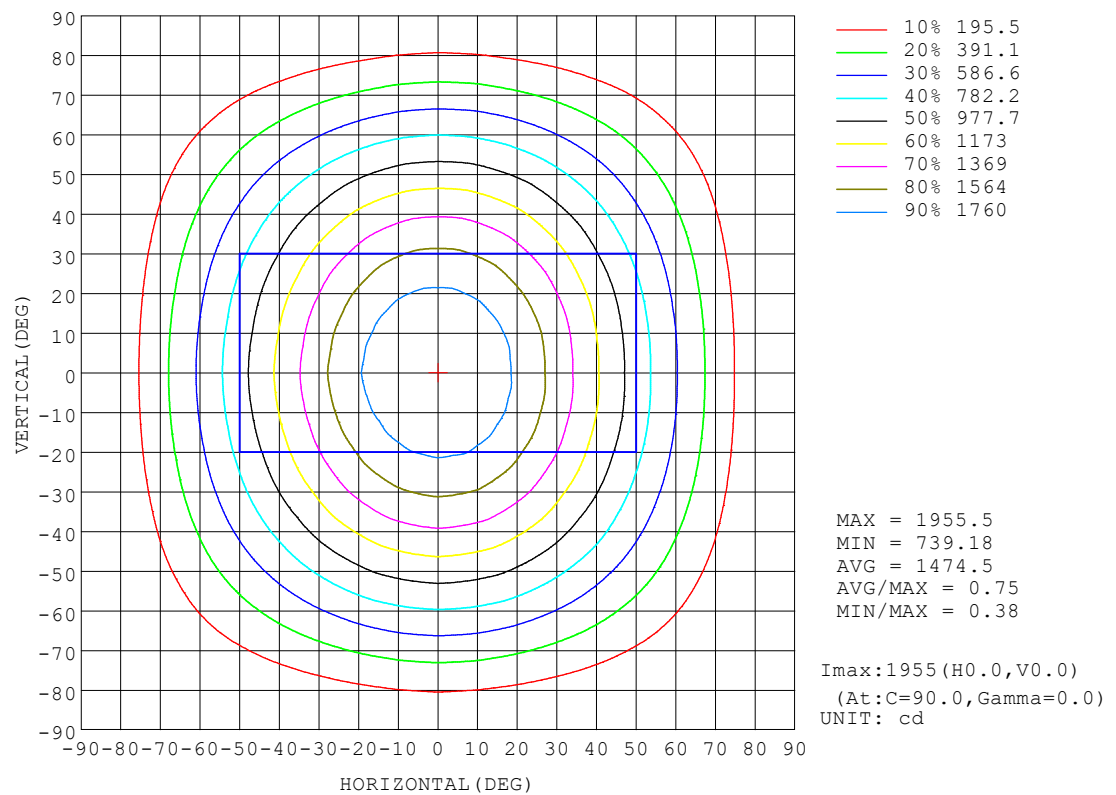
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	64	52	45	63	52	45	62	51	45	38
0.80	75	63	55	74	63	55	72	62	55	48
1.00	84	72	65	83	72	65	80	73	64	57
1.25	91	81	73	90	80	73	87	78	72	65
1.50	96	86	79	95	86	79	92	84	78	70
2.00	104	95	88	102	94	88	98	91	86	78
2.50	107	100	94	105	98	93	101	95	91	82
3.00	111	104	99	109	102	97	104	99	95	86
4.00	115	109	105	112	107	103	108	104	100	91
5.00	117	113	109	115	111	107	110	107	104	94
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: 01 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: 99POM1505040/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 1500 x 50 x 70	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.:	Shielding Angle:

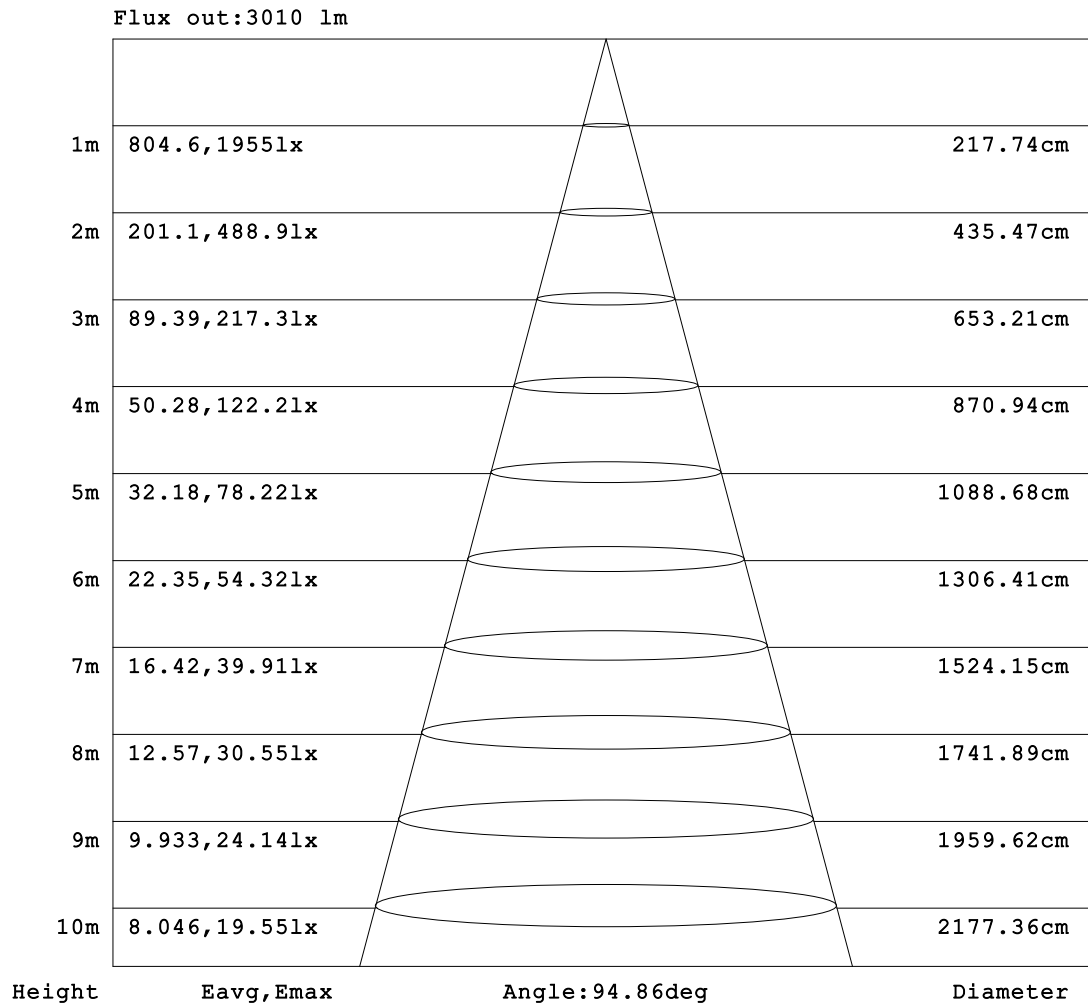


C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: MEDIUM
 Temperature:25.3°C
 Operators:
 Test Date:01 December 2022

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: 99POM1505040/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 1500 x 50 x 70	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.:	Shielding Angle:



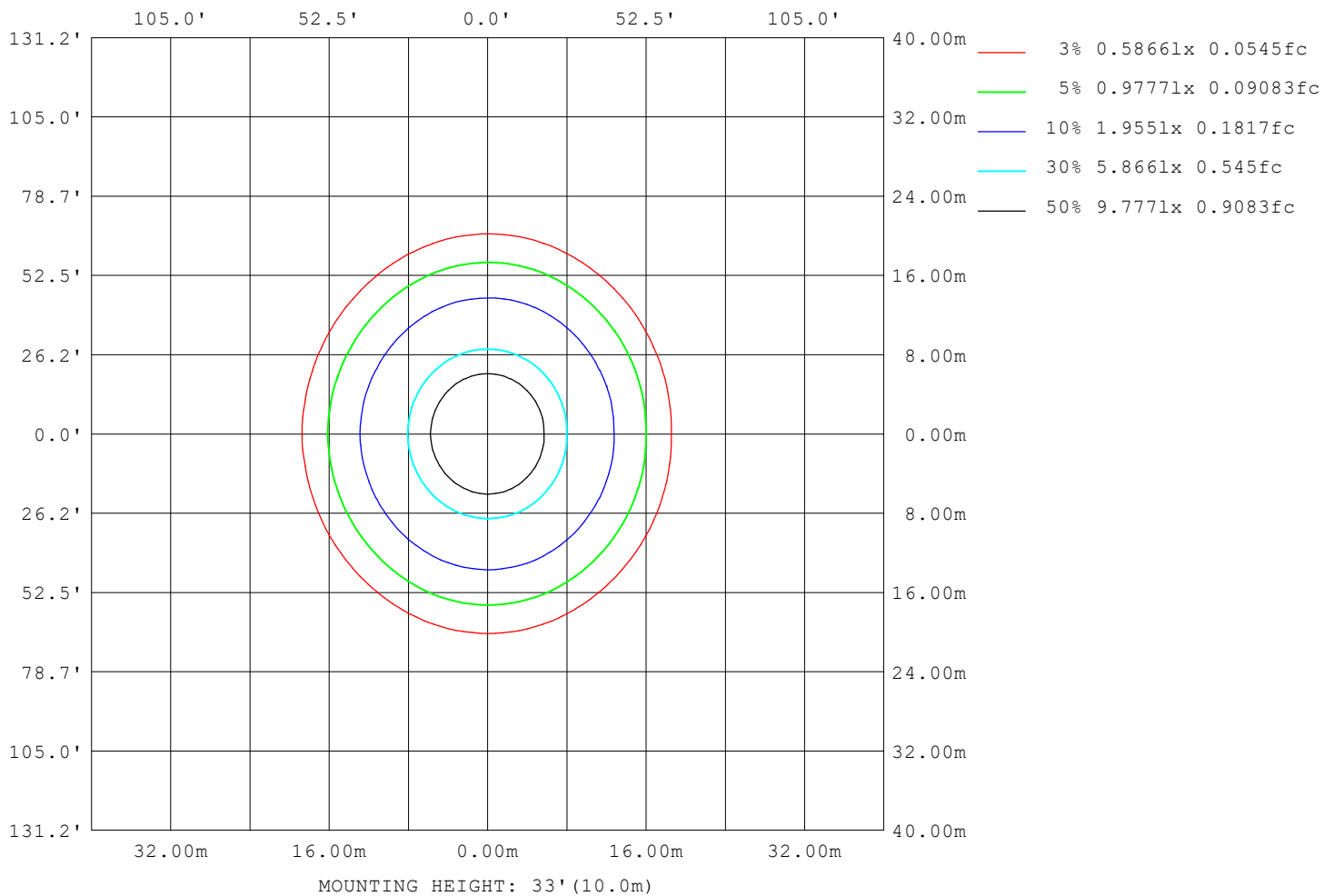
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:01 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: 99POM1505040/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 1500 x 50 x 70	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 01 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: 99POM1505040/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 1500 x 50 x 70	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.:	Shielding Angle:

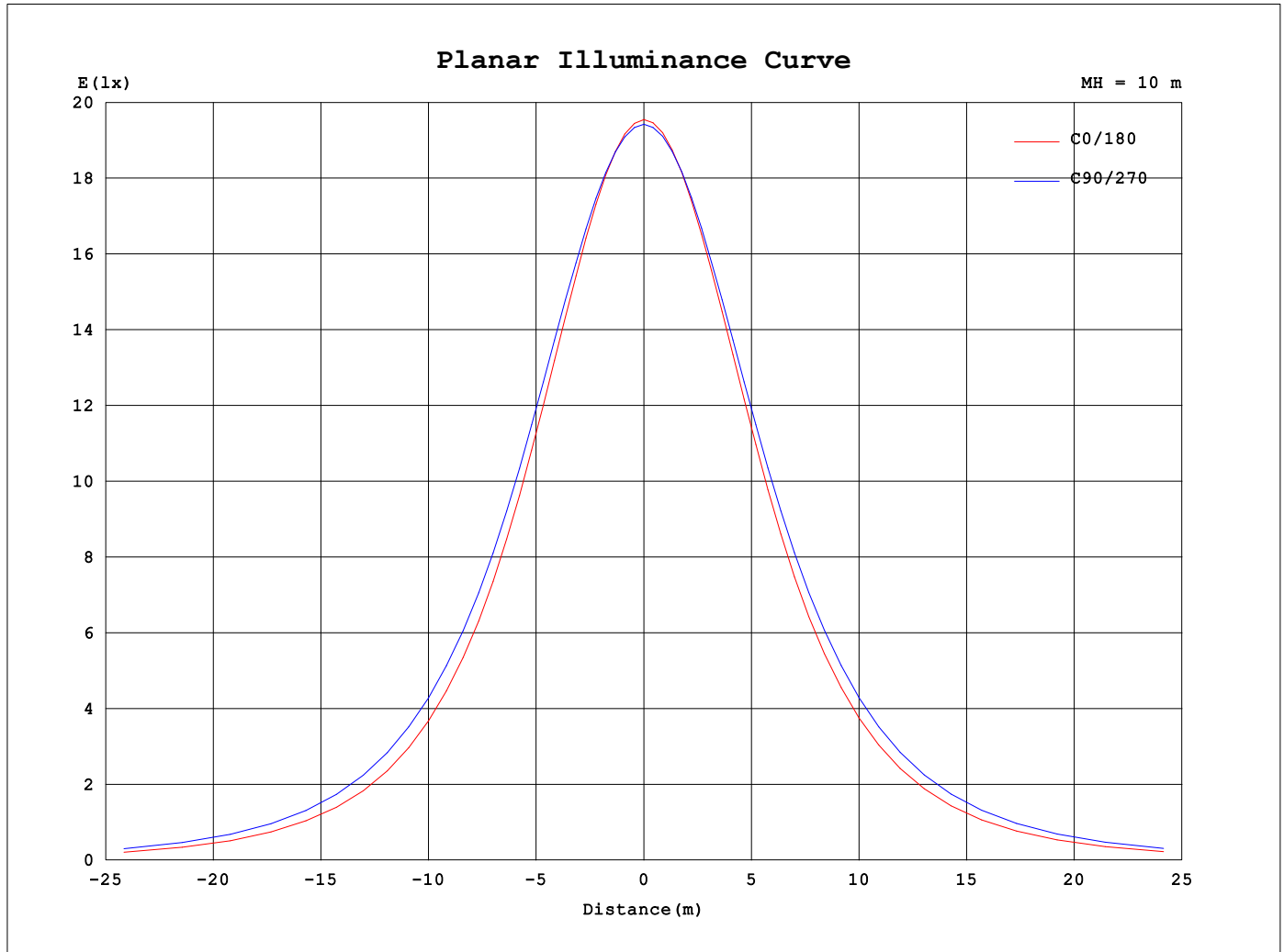
AvgL	cd/m2
L_0~180 (65) av	16382
L_0~180 (75) av	11422
L_0~180 (85) av	523
L_90~270 (65) av	22314
L_90~270 (75) av	19822
L_90~270 (85) av	16143
L_45 (65) av	18750
L_45 (75) av	14531
L_45 (85) av	3319

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:01 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: 01 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:

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