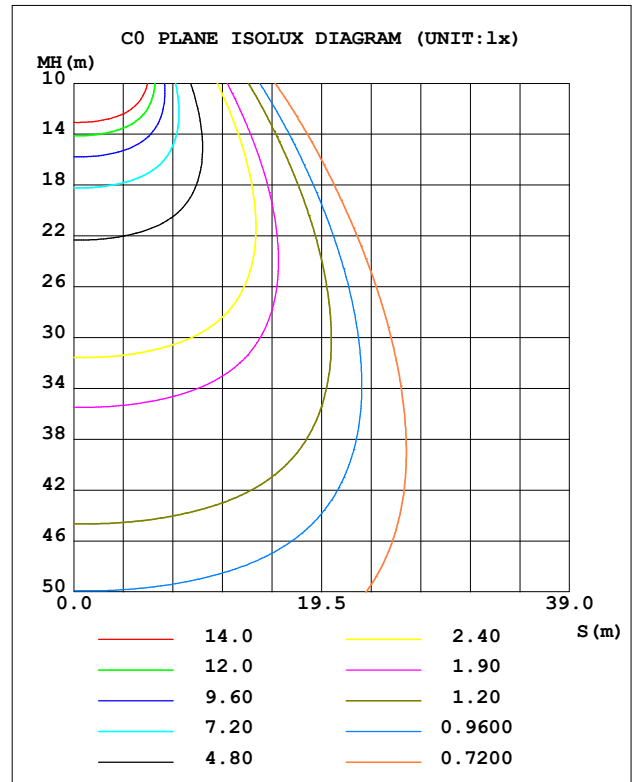
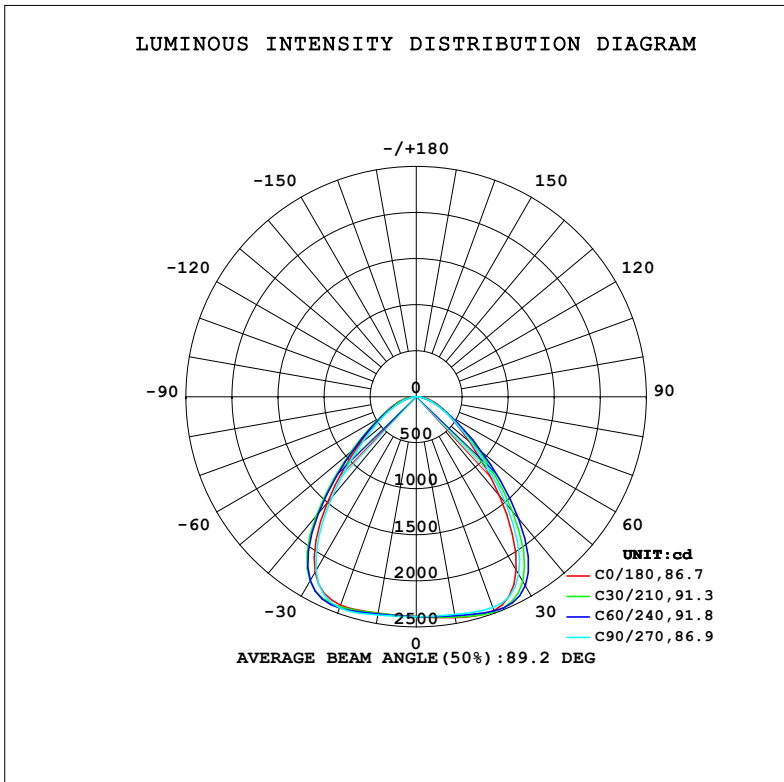


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: 93TL206750WW/BL	TYPE: 93TL206750WW/BL	WEIGHT: 1
SPEC.:	DIM.: 4 x 0.285 x 0.06	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangular	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	93TL206750WW/BL	I _{max} (cd)	2501	S/MH (C0/180)	1.24
NOMINAL POWER (W)	50	LOR (%)	86.3	S/MH (C90/270)	1.22
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	5265.3	η UP, DN (C0-180)	0.0, 43.4
NOMINAL FLUX (lm)	6100	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 43.0
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	230	η down (%)	86.3	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 09 August 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	2434	2421	2399	2388	2386	2391	2406	2424	0- 10	228.8	228.8	4.35, 3.75
20	2470	2487	2435	2434	2407	2438	2439	2493	10- 20	689.6	918.3	17.4, 15.1
30	2173	2397	2228	2370	2197	2354	2179	2393	20- 30	1109	2027	38.5, 33.2
40	1407	1782	1513	1816	1505	1767	1431	1769	30- 40	1237	3265	62, 53.5
50	748.3	955.0	801.8	997.5	818.7	956.5	755.6	940.2	40- 50	934.9	4200	79.8, 68.8
60	417.3	454.3	415.4	472.9	451.8	459.0	395.0	443.5	50- 60	557.9	4757	90.4, 78
70	240.4	214.8	206.4	220.3	254.7	217.0	196.1	208.2	60- 70	313.5	5071	96.3, 83.1
80	108.0	79.31	76.33	79.84	114.3	77.70	68.97	75.43	70- 80	155.8	5227	99.3, 85.7
90	1.757	1.680	1.487	1.605	1.618	1.394	1.269	1.430	80- 90	38.56	5265	100, 86.3
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): 3784.8 lm

%lum = 71.9%

%lamp = 62.0%

Conical surface Flux(130deg): 4937.7 lm

%lum = 93.8%

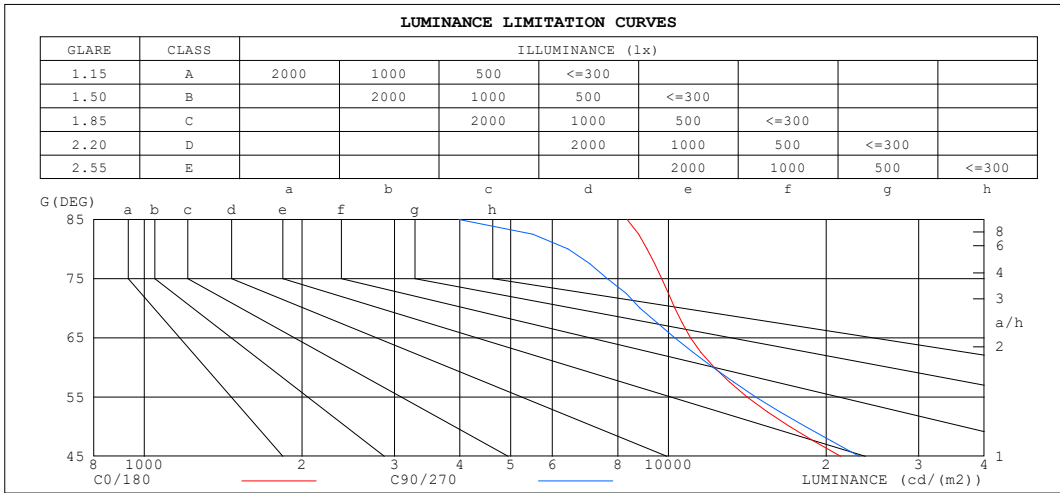
%lamp = 80.9%

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:
 Test Date:09 August 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: 93TL206750WW/BL	TYPE: 93TL206750WW/BL	WEIGHT: 1
SPEC.:	DIM.: 4 x 0.285 x 0.06	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangular	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	8341	3983
80	9099	6425
75	9709	7638
70	10285	8821
65	11014	10276
60	12214	12144
55	14121	14680
50	17036	18231
45	21299	23091

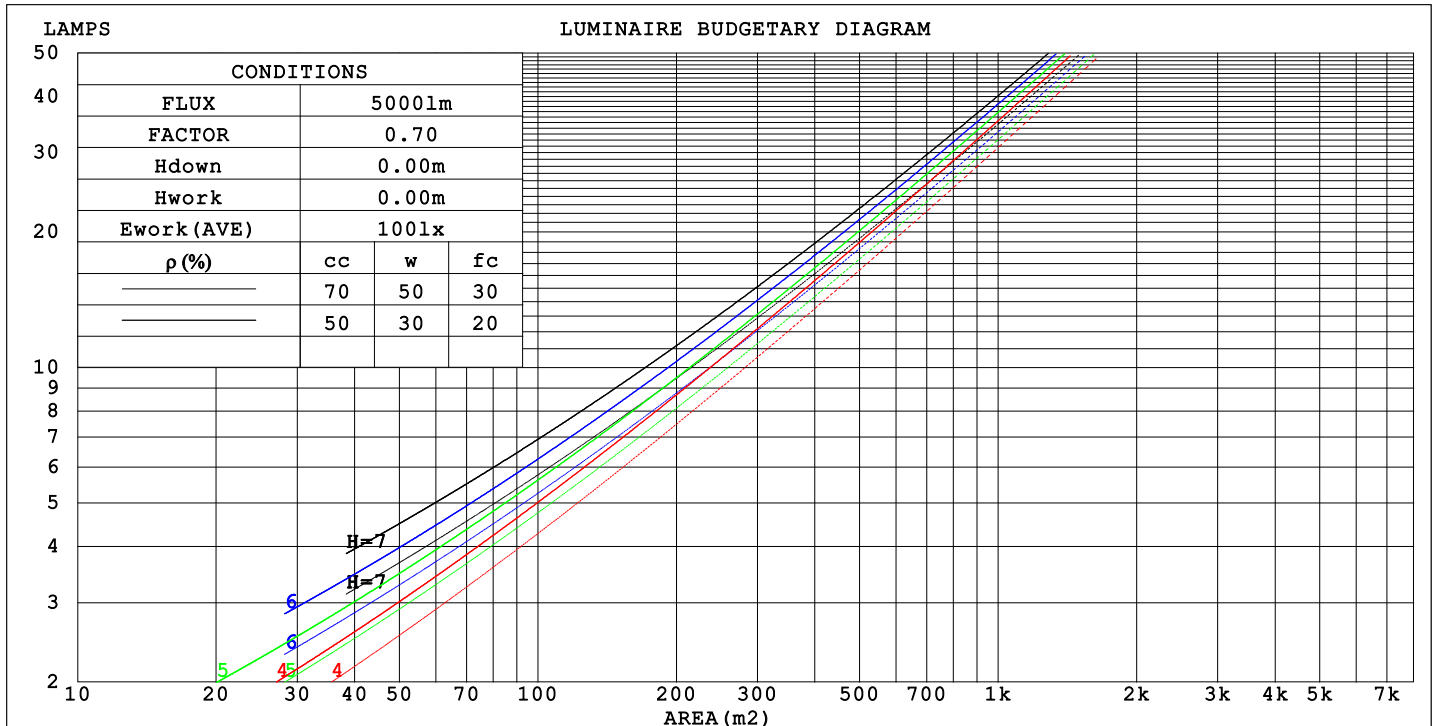
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 09 August 2022

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: 93TL206750WW/BL	TYPE: 93TL206750WW/BL	WEIGHT: 1
SPEC.:	DIM.: 4 x 0.285 x 0.06	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangular	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															



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:09 August 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:

WEC AND CCEC

NAME: 93TL206750WW/BL	TYPE: 93TL206750WW/BL	WEIGHT: 1
SPEC.:	DIM.: 4 x 0.285 x 0.06	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: regtangular	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	.216	.123	.039	.210	.120	.038	.199	.114	.036	.189	.109	.035	.179	.104	.033	
2.0	.208	.114	.035	.203	.112	.034	.193	.107	.033	.184	.103	.032	.176	.099	.031	
3.0	.196	.104	.031	.192	.103	.031	.183	.099	.030	.175	.096	.029	.168	.093	.029	
4.0	.184	.096	.028	.180	.094	.028	.173	.092	.027	.166	.089	.027	.160	.087	.026	
5.0	.173	.088	.026	.170	.087	.025	.163	.085	.025	.157	.083	.025	.151	.081	.024	
6.0	.163	.082	.023	.160	.081	.023	.154	.079	.023	.149	.077	.023	.143	.075	.022	
7.0	.154	.076	.022	.151	.075	.021	.146	.074	.021	.141	.072	.021	.136	.071	.021	
8.0	.145	.071	.020	.143	.070	.020	.138	.069	.020	.133	.068	.019	.129	.066	.019	
9.0	.137	.066	.019	.135	.066	.018	.131	.065	.018	.127	.063	.018	.123	.062	.018	
10.0	.130	.062	.017	.128	.062	.017	.124	.061	.017	.121	.060	.017	.117	.059	.017	

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	.164	.164	.164	.141	.141	.141	.096	.096	.096	.055	.055	.055	.018	.018	.018	
1.0	.152	.135	.120	.130	.116	.103	.089	.080	.071	.051	.046	.042	.016	.015	.013	
2.0	.143	.114	.090	.122	.098	.078	.084	.068	.054	.048	.040	.032	.016	.013	.010	
3.0	.135	.098	.069	.116	.085	.060	.079	.059	.042	.046	.034	.025	.015	.011	.008	
4.0	.128	.086	.055	.110	.075	.048	.075	.052	.034	.044	.031	.020	.014	.010	.007	
5.0	.121	.077	.045	.104	.067	.039	.072	.047	.027	.042	.027	.016	.013	.009	.005	
6.0	.116	.070	.037	.099	.060	.032	.069	.042	.023	.040	.025	.013	.013	.008	.004	
7.0	.110	.064	.031	.095	.055	.027	.065	.039	.019	.038	.023	.011	.012	.007	.004	
8.0	.105	.059	.027	.090	.051	.023	.063	.036	.017	.036	.021	.010	.012	.007	.003	
9.0	.100	.054	.023	.086	.047	.020	.060	.033	.014	.035	.020	.009	.011	.006	.003	
10.0	.096	.051	.021	.083	.044	.018	.057	.031	.013	.033	.018	.008	.011	.006	.003	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:09 August 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: 93TL206750WW/BL						TYPE: 93TL206750WW/BL			WEIGHT: 1		
SPEC.:						DIM.: 4 x 0.285 x 0.06			SERIAL No.: 0		
MFR.: Elmark Industries JSC						SUR.: regtangular			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	15.2	16.5	15.5	16.7	16.9	15.5	16.8	15.7	17.0	17.2
	3H	15.9	17.1	16.2	17.4	17.6	16.0	17.2	16.3	17.4	17.6
	4H	16.3	17.4	16.6	17.6	17.9	16.2	17.3	16.5	17.5	17.8
	6H	16.5	17.6	16.9	17.9	18.1	16.3	17.3	16.6	17.6	17.9
	8H	16.6	17.7	17.0	17.9	18.2	16.3	17.3	16.6	17.6	17.9
	12H	16.7	17.7	17.0	18.0	18.3	16.3	17.3	16.6	17.6	17.8
4H	2H	15.5	16.6	15.8	16.8	17.1	15.7	16.8	16.0	17.1	17.3
	3H	16.3	17.3	16.7	17.6	17.9	16.3	17.3	16.7	17.6	17.9
	4H	16.8	17.7	17.1	18.0	18.3	16.6	17.5	17.0	17.8	18.1
	6H	17.2	18.0	17.6	18.3	18.7	16.8	17.6	17.2	17.9	18.3
	8H	17.3	18.1	17.7	18.4	18.8	16.9	17.6	17.3	18.0	18.3
	12H	17.4	18.1	17.9	18.5	18.9	16.9	17.5	17.3	17.9	18.3
8H	4H	16.8	17.6	17.2	17.9	18.3	16.7	17.4	17.1	17.8	18.2
	6H	17.3	18.0	17.8	18.4	18.8	17.0	17.6	17.4	18.0	18.4
	8H	17.6	18.1	18.0	18.5	19.0	17.1	17.6	17.5	18.0	18.5
	12H	17.7	18.2	18.2	18.6	19.1	17.1	17.6	17.6	18.0	18.5
12H	4H	16.8	17.5	17.2	17.9	18.3	16.7	17.3	17.1	17.7	18.1
	6H	17.3	17.9	17.8	18.3	18.8	17.0	17.5	17.4	17.9	18.4
	8H	17.6	18.0	18.1	18.5	19.0	17.1	17.6	17.6	18.0	18.5
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H		+ 0.7 / - 0.8					+ 0.9 / - 1.0				
1.5H		+ 0.4 / - 0.7					+ 0.6 / - 0.8				
2.0H		+ 0.9 / - 0.8					+ 1.3 / - 1.1				

CIE Pub.117, 6100 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 6.3)
Area: 0.0684 m2

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:09 August 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: 93TL206750WW/BL	TYPE: 93TL206750WW/BL	WEIGHT: 1
SPEC.:	DIM.: 4 x 0.285 x 0.06	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: regtangular	Shielding Angle:

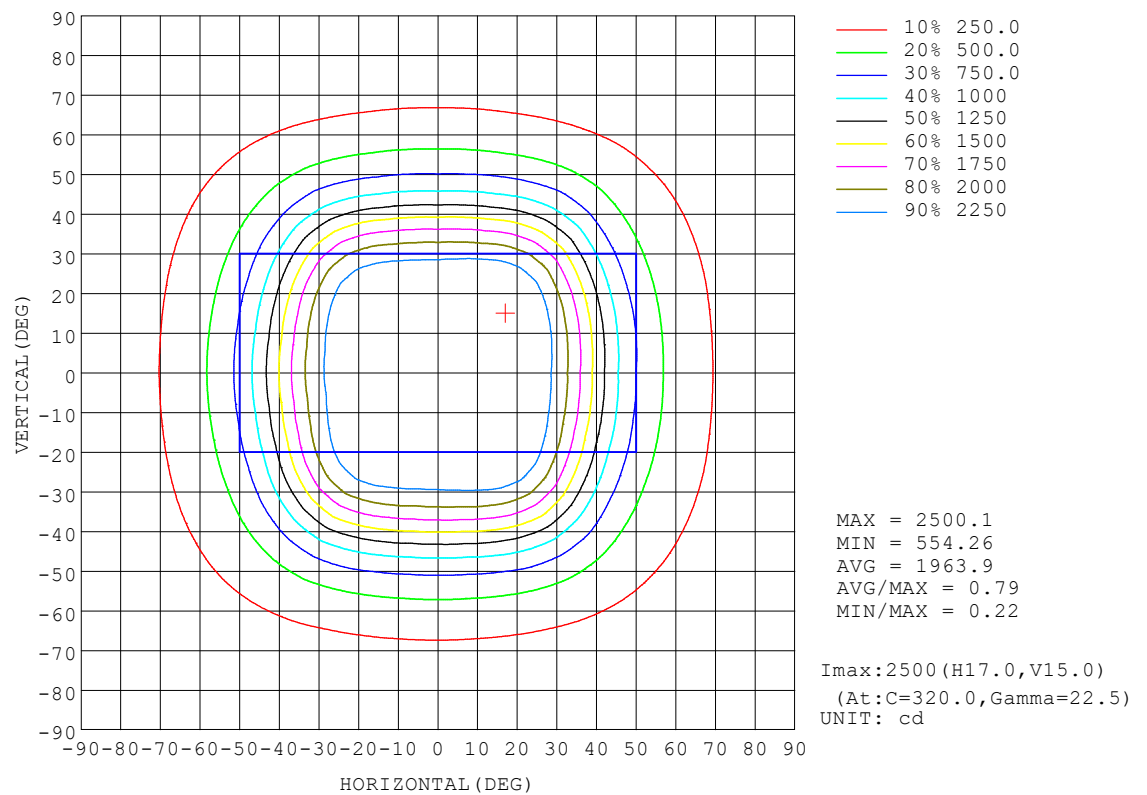
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	50	45	58	50	45	57	49	45	40
0.80	67	59	53	66	58	53	65	58	53	48
1.00	73	66	61	73	65	60	71	66	60	55
1.25	79	72	67	78	71	66	76	70	66	60
1.50	82	76	71	81	75	71	79	74	70	64
2.00	87	81	77	86	80	76	83	79	75	69
2.50	90	84	80	88	83	80	85	81	78	72
3.00	92	87	84	90	86	83	87	84	81	74
4.00	94	91	88	93	89	86	89	86	84	77
5.00	96	93	90	94	91	89	90	88	86	79
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:09 August 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: 93TL206750WW/BL	TYPE: 93TL206750WW/BL	WEIGHT: 1
SPEC.:	DIM.: 4 x 0.285 x 0.06	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangular	Shielding Angle:

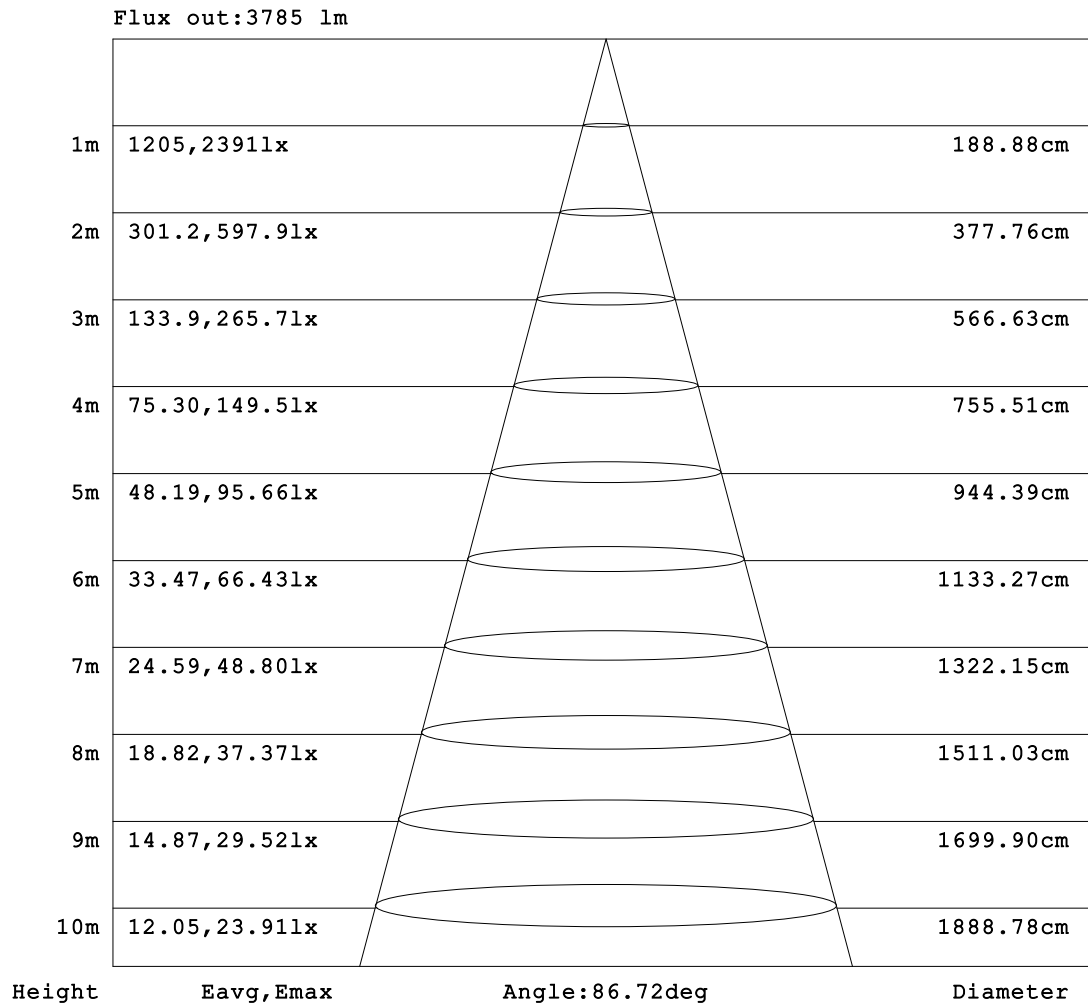


C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:
 Test Date:09 August 2022

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: 93TL206750WW/BL	TYPE: 93TL206750WW/BL	WEIGHT: 1
SPEC.:	DIM.: 4 x 0.285 x 0.06	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangular	Shielding Angle:



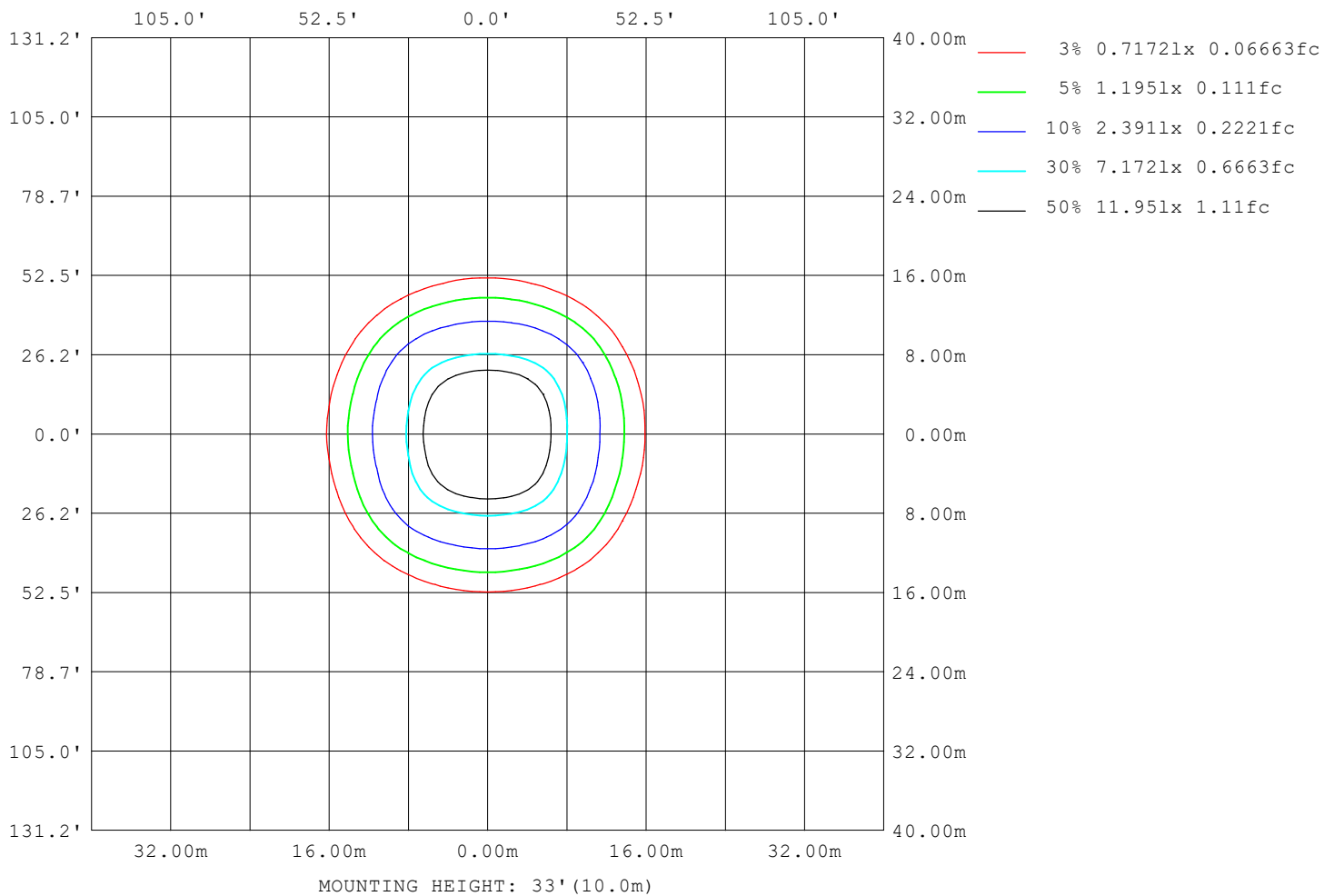
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:09 August 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: 93TL206750WW/BL	TYPE: 93TL206750WW/BL	WEIGHT: 1
SPEC.:	DIM.: 4 x 0.285 x 0.06	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangular	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 09 August 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: 93TL206750WW/BL	TYPE: 93TL206750WW/BL	WEIGHT: 1
SPEC.:	DIM.: 4 x 0.285 x 0.06	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: regtangular	Shielding Angle:

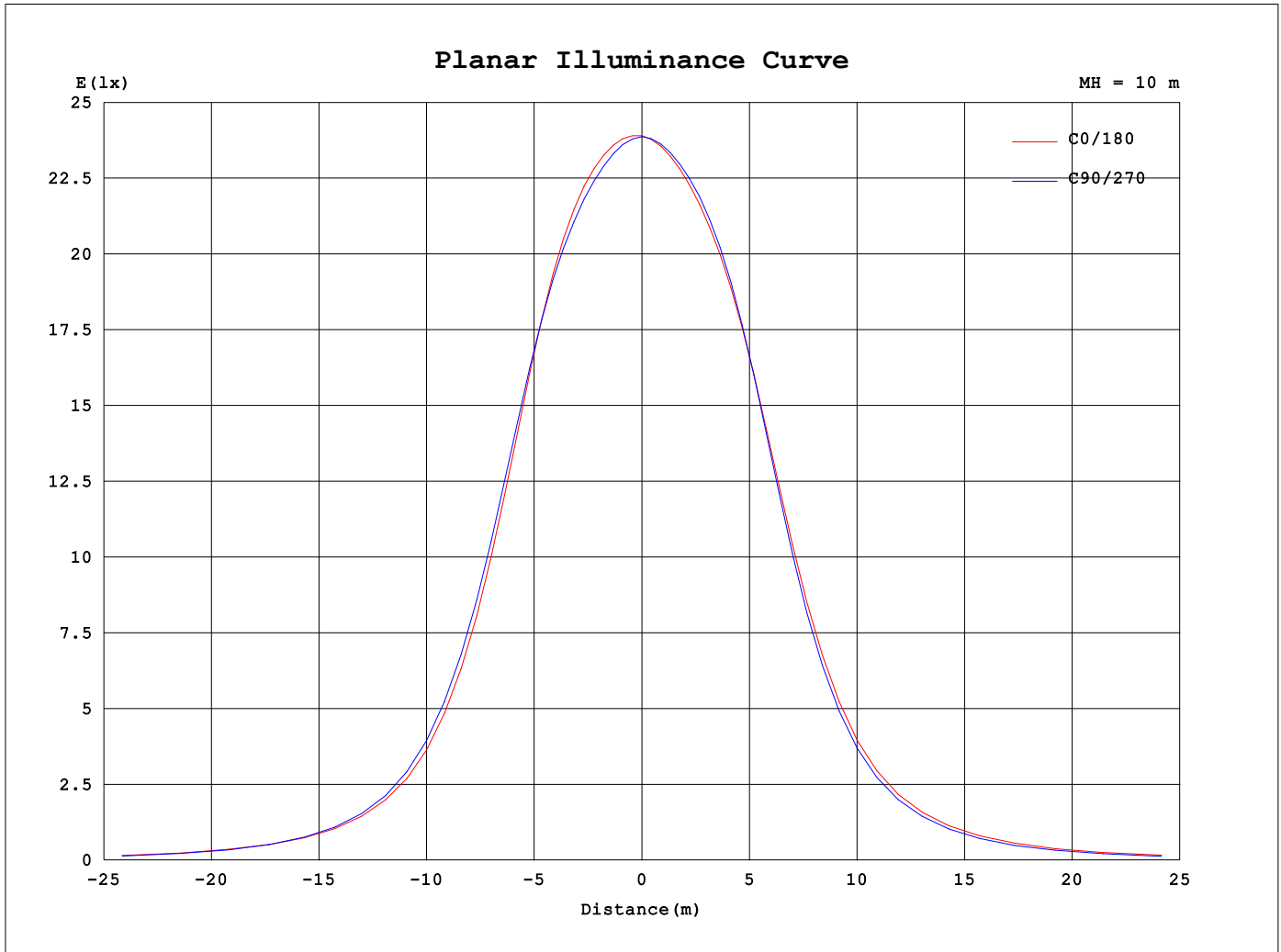
AvgL	cd/m2
L_0~180 (65) av	11392
L_0~180 (75) av	9964
L_0~180 (85) av	8677
L_90~270 (65) av	10035
L_90~270 (75) av	7391
L_90~270 (85) av	3371
L_45 (65) av	10947
L_45 (75) av	7807
L_45 (85) av	4776

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:09 August 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: 09 August 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:

```