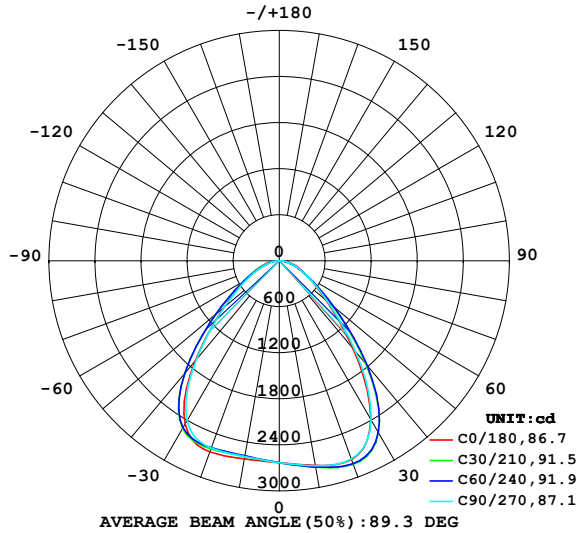


LUMINAIRE PHOTOMETRIC TEST REPORT

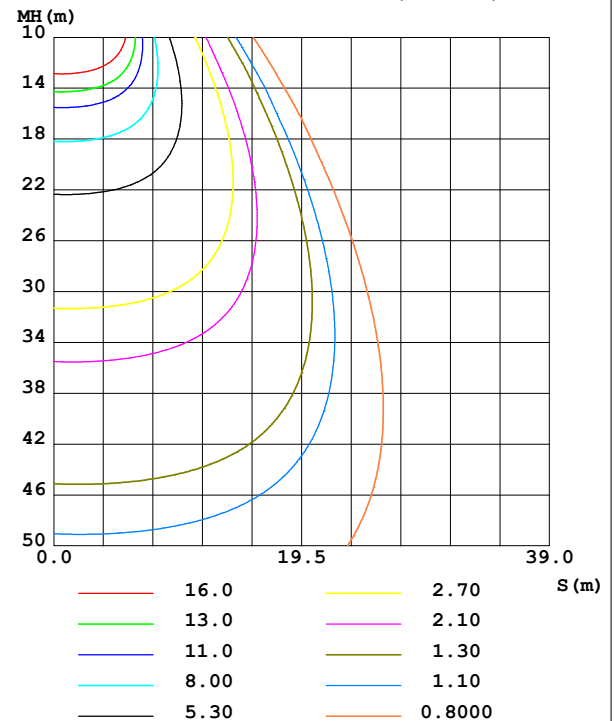
NAME: 92TL206750W/BL	TYPE: 92TL206750W/BL	WEIGHT: 1
SPEC.:	DIM.: 4 x 0.285 x 0.06	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangular	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	92TL206750W/BL	I _{max} (cd)	2835	S/MH (C0/180)	1.26
NOMINAL POWER (W)	50	LOR (%)	95.7	S/MH (C90/270)	1.25
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	5839.0	η UP, DN (C0-180)	0.0, 47.4
NOMINAL FLUX (lm)	6100	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 48.3
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	230	η down (%)	95.7	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



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

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
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	2707	2732	2712	2674	2621	2584	2591	2645	0- 10	252.5	252.5	4.32,4.14
20	2756	2833	2748	2747	2649	2600	2597	2705	10- 20	762.0	1014	17.4,16.6
30	2384	2649	2398	2633	2457	2555	2404	2606	20- 30	1222	2236	38.3,36.7
40	1502	1874	1549	1960	1710	2021	1683	1957	30- 40	1359	3596	61.6,58.9
50	798.0	967.4	817.3	1057	935.1	1143	924.7	1060	40- 50	1029	4625	79.2,75.8
60	448.2	465.5	447.4	510.7	515.5	561.0	489.8	511.1	50- 60	621.2	5246	89.8,86
70	264.4	231.4	240.1	250.6	293.4	269.8	245.1	246.5	60- 70	358.0	5604	96,91.9
80	122.5	90.78	94.90	98.95	137.4	103.0	90.03	93.37	70- 80	184.4	5789	99.1,94.9
90	2.126	2.110	1.989	2.097	7.706	2.075	1.576	1.757	80- 90	50.44	5839	100,95.7
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): 4268.4 lm

%lum = 73.1%
%lamp = 70.0%

Conical surface Flux(130deg): 5485 lm

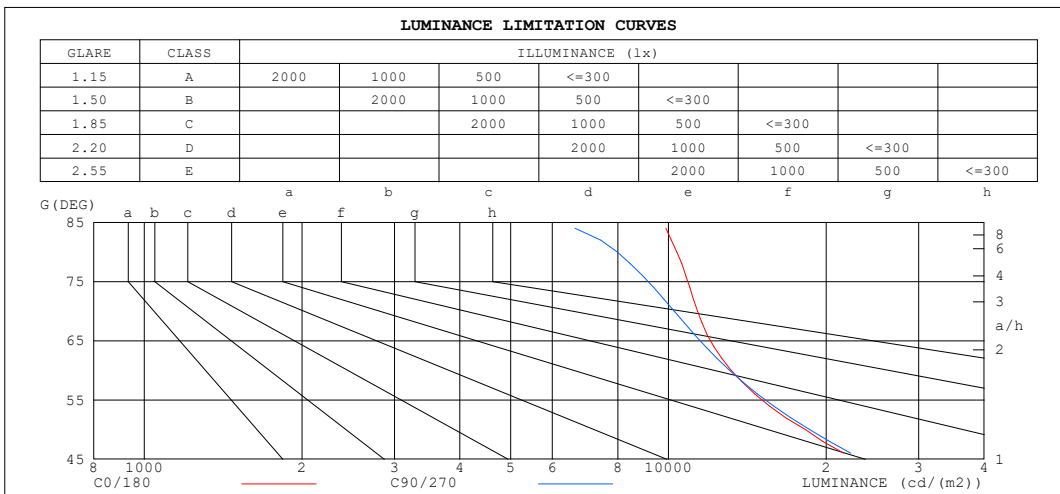
%lum = 93.9%
%lamp = 89.9%

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

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
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: 92TL206750W/BL	TYPE: 92TL206750W/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	11847	7951
80	10366	7981
75	11692	9973
70	11362	10251
65	12662	12207
60	13175	13067
55	15948	16238
50	18246	18568
45	24187	24917

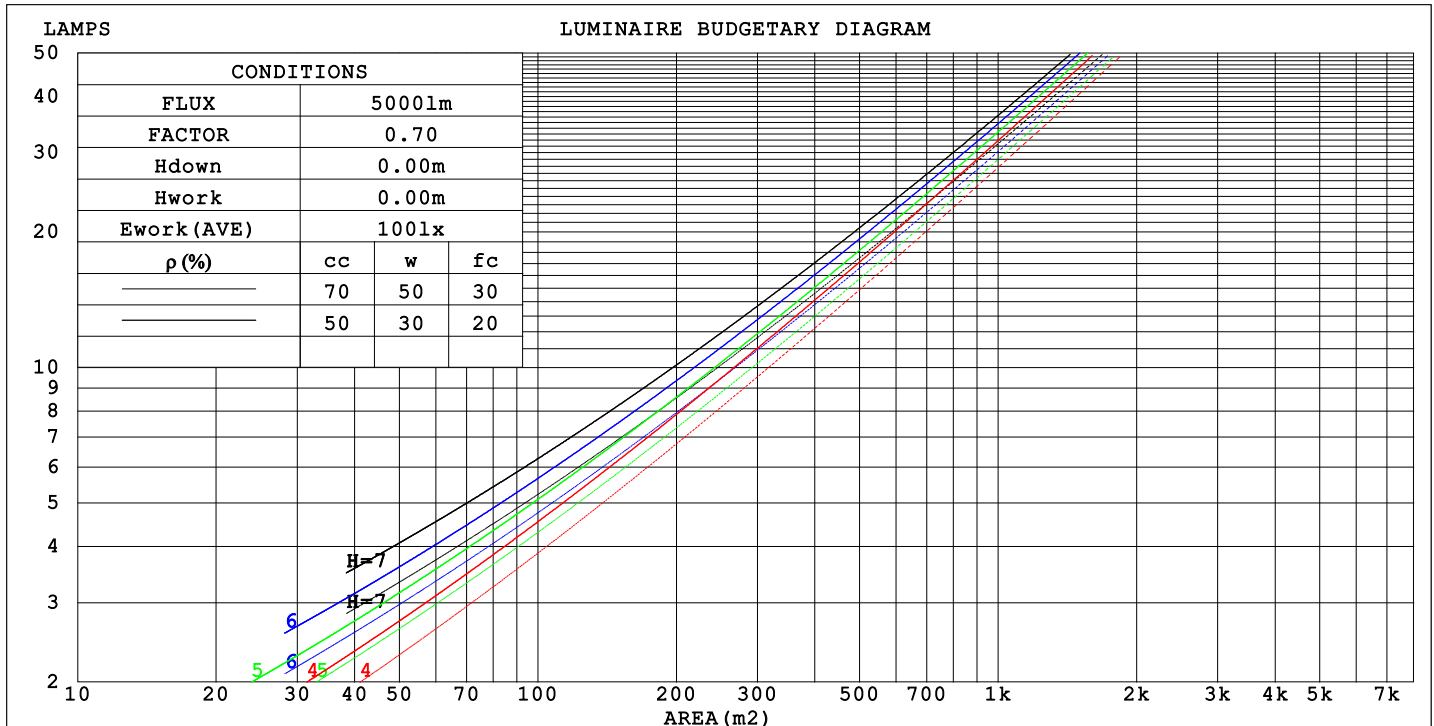
C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3°C
 Operators:
 Test Date: 09 August 2022

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 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: 92TL206750W/BL	TYPE: 92TL206750W/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: MEDIUM
Temperature:25.3°C
Operators:
Test Date:09 August 2022

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
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: 92TL206750W/BL	TYPE: 92TL206750W/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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.242	.138	.044	.236	.135	.043	.223	.128	.041	.212	.122	.039	.201	.117	.038	
2.0	.232	.127	.039	.227	.125	.038	.216	.120	.037	.206	.116	.036	.197	.111	.035	
3.0	.219	.117	.035	.214	.115	.035	.205	.111	.034	.196	.107	.033	.188	.104	.032	
4.0	.206	.107	.031	.201	.105	.031	.193	.102	.031	.185	.099	.030	.178	.097	.029	
5.0	.193	.098	.028	.189	.097	.028	.182	.095	.028	.175	.092	.027	.169	.090	.027	
6.0	.181	.091	.026	.178	.090	.026	.171	.088	.026	.165	.086	.025	.160	.084	.025	
7.0	.171	.084	.024	.168	.084	.024	.162	.082	.024	.156	.080	.023	.151	.079	.023	
8.0	.161	.079	.022	.158	.078	.022	.153	.077	.022	.148	.075	.022	.144	.074	.021	
9.0	.152	.074	.021	.150	.073	.021	.145	.072	.020	.141	.071	.020	.137	.069	.020	
10.0	.144	.069	.019	.142	.069	.019	.138	.068	.019	.134	.067	.019	.130	.065	.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	.182	.182	.182	.156	.156	.156	.106	.106	.106	.061	.061	.061	.020	.020	.020	
1.0	.169	.150	.133	.144	.129	.114	.099	.089	.079	.057	.051	.046	.018	.016	.015	
2.0	.159	.126	.099	.136	.109	.086	.093	.075	.060	.054	.044	.035	.017	.014	.011	
3.0	.150	.109	.077	.128	.094	.066	.088	.065	.047	.051	.038	.027	.016	.012	.009	
4.0	.142	.096	.061	.122	.083	.053	.084	.058	.037	.048	.034	.022	.016	.011	.007	
5.0	.135	.086	.049	.116	.074	.043	.080	.052	.030	.046	.030	.018	.015	.010	.006	
6.0	.128	.077	.041	.110	.067	.036	.076	.047	.025	.044	.028	.015	.014	.009	.005	
7.0	.122	.071	.034	.105	.061	.030	.073	.043	.021	.042	.025	.013	.014	.008	.004	
8.0	.117	.065	.030	.100	.056	.026	.069	.040	.018	.040	.023	.011	.013	.008	.004	
9.0	.111	.060	.026	.096	.052	.022	.066	.037	.016	.039	.022	.010	.013	.007	.003	
10.0	.106	.056	.023	.092	.049	.020	.064	.034	.014	.037	.020	.008	.012	.007	.003	

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

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
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: 92TL206750W/BL					TYPE: 92TL206750W/BL					WEIGHT: 1				
SPEC.:					DIM.: 4 x 0.285 x 0.06					SERIAL No.: 0				
MFR.: Elmark Industries JSC					SUR.: rectangular					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	15.3	16.6	15.5	16.8	17.0	15.3	16.7	15.6	16.9	17.1				
3H	16.0	17.2	16.3	17.5	17.7	16.0	17.2	16.2	17.4	17.6				
4H	16.4	17.6	16.7	17.8	18.0	16.2	17.4	16.5	17.6	17.9				
6H	16.7	17.8	17.0	18.1	18.3	16.4	17.5	16.7	17.7	18.0				
8H	16.8	17.9	17.2	18.2	18.4	16.5	17.5	16.8	17.8	18.1				
12H	16.9	17.9	17.3	18.2	18.5	16.5	17.5	16.8	17.8	18.0				
4H 2H	15.5	16.7	15.8	16.9	17.1	15.5	16.7	15.9	16.9	17.2				
3H	16.4	17.4	16.8	17.7	18.0	16.3	17.3	16.7	17.6	17.9				
4H	16.9	17.8	17.3	18.1	18.5	16.7	17.6	17.1	17.9	18.3				
6H	17.4	18.2	17.8	18.5	18.9	17.0	17.8	17.4	18.1	18.5				
8H	17.5	18.3	18.0	18.6	19.0	17.1	17.8	17.5	18.2	18.6				
12H	17.7	18.4	18.1	18.7	19.1	17.1	17.8	17.6	18.2	18.6				
8H 4H	17.0	17.7	17.4	18.1	18.5	16.8	17.6	17.2	17.9	18.3				
6H	17.6	18.2	18.0	18.6	19.0	17.2	17.8	17.6	18.2	18.6				
8H	17.8	18.4	18.3	18.8	19.2	17.4	17.9	17.8	18.3	18.8				
12H	18.0	18.5	18.5	18.9	19.4	17.4	17.9	17.9	18.3	18.8				
12H 4H	17.0	17.7	17.4	18.0	18.4	16.8	17.5	17.2	17.9	18.3				
6H	17.6	18.1	18.0	18.5	19.0	17.2	17.8	17.7	18.2	18.6				
8H	17.8	18.3	18.3	18.8	19.2	17.4	17.9	17.9	18.3	18.8				
Variations with the observer position at spacings(CIE Pub.117):														
S = 1.0H	+ 0.7 / - 0.7					+ 0.8 / - 0.8								
1.5H	+ 0.5 / - 0.6					+ 0.6 / - 0.7								
2.0H	+ 1.0 / - 0.7					+ 1.1 / - 0.8								

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: MEDIUM
Temperature:25.3°C
Operators:
Test Date:09 August 2022

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
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: 92TL206750W/BL	TYPE: 92TL206750W/BL	WEIGHT: 1
SPEC.:	DIM.: 4 x 0.285 x 0.06	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: regtangular	Shielding Angle:

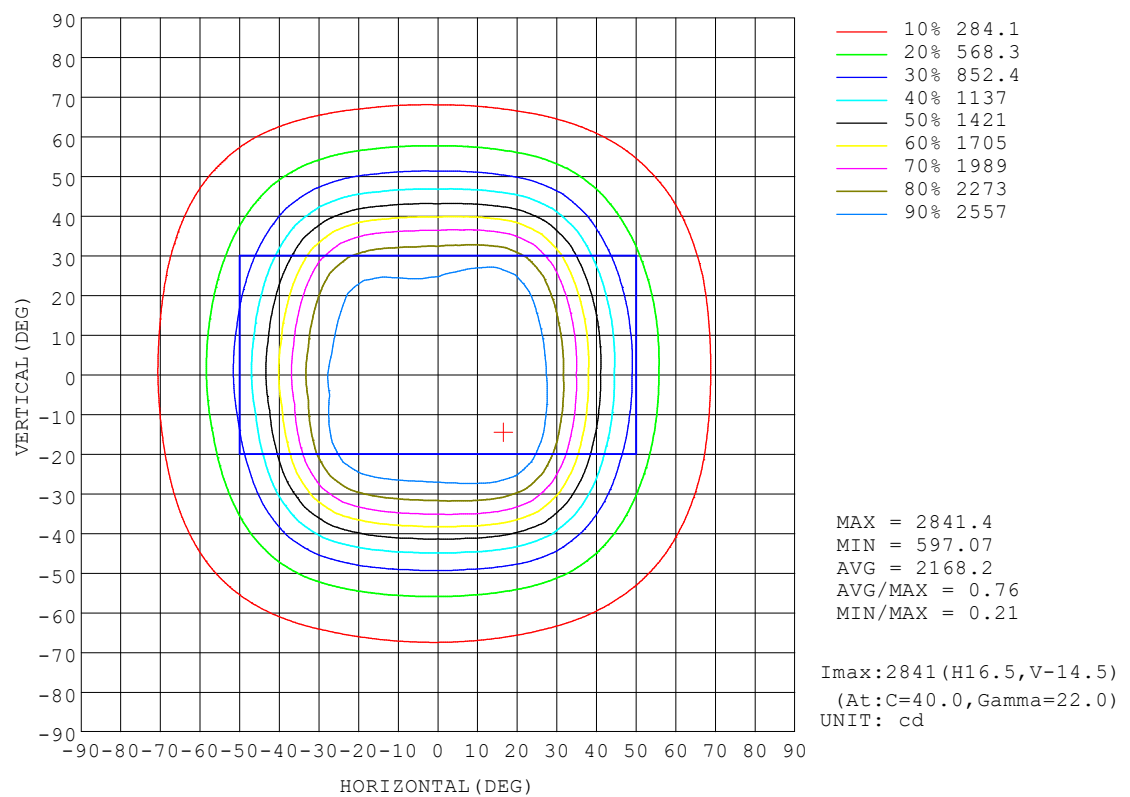
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	65	55	50	64	55	49	63	55	49	44
0.80	74	65	59	73	64	59	72	64	58	53
1.00	81	73	67	80	72	67	78	73	66	60
1.25	87	79	74	86	78	73	84	77	73	67
1.50	91	84	78	90	83	78	87	81	77	71
2.00	96	90	85	95	89	84	92	87	83	76
2.50	99	93	89	97	92	88	94	90	86	79
3.00	102	97	92	100	95	91	96	92	89	82
4.00	105	100	97	103	99	96	99	96	93	85
5.00	106	103	100	104	101	98	100	98	95	87
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:09 August 2022

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: 92TL206750W/BL	TYPE: 92TL206750W/BL	WEIGHT: 1
SPEC.:	DIM.: 4 x 0.285 x 0.06	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: regtangular	Shielding Angle:

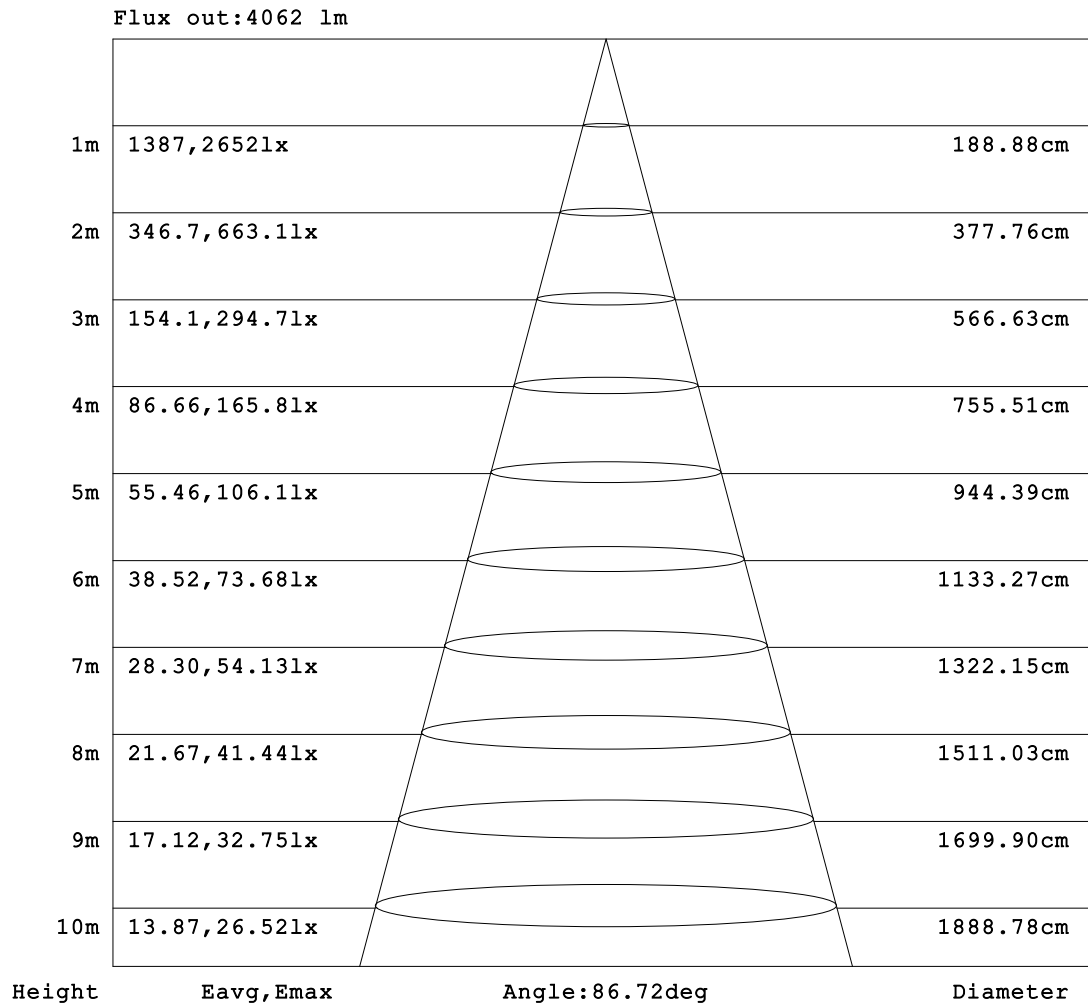


C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: MEDIUM
 Temperature:25.3°C
 Operators:
 Test Date:09 August 2022

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
 Humidity:65.0%
 Test Distance:6.265m [K=1.0000]
 Remarks:

AAI Figure

NAME: 92TL206750W/BL	TYPE: 92TL206750W/BL	WEIGHT: 1
SPEC.:	DIM.: 4 x 0.285 x 0.06	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangular	Shielding Angle:



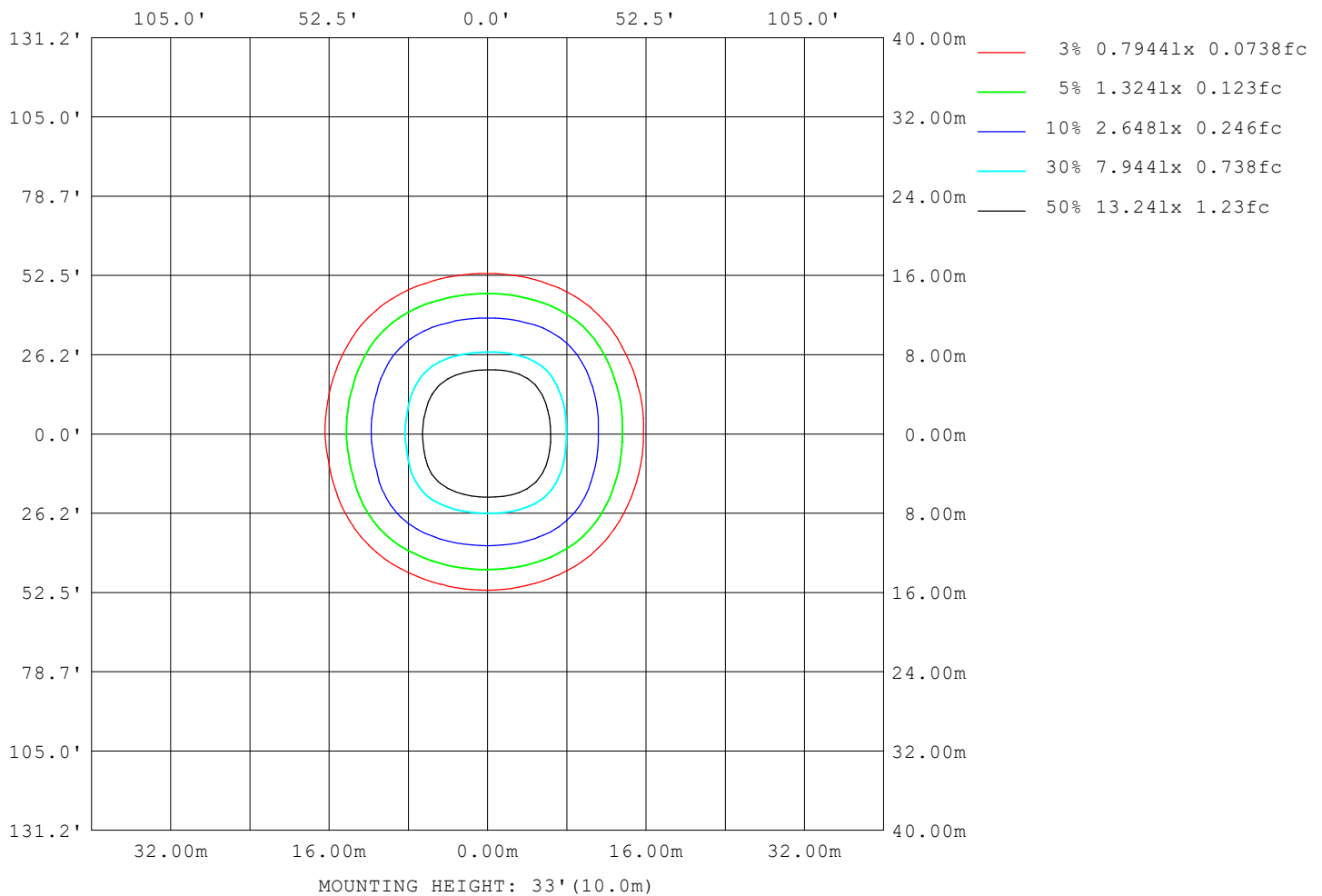
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
 Humidity:65.0%
 Test Distance:6.265m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

NAME: 92TL206750W/BL	TYPE: 92TL206750W/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: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 09 August 2022

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
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: 92TL206750W/BL	TYPE: 92TL206750W/BL	WEIGHT: 1
SPEC.:	DIM.: 4 x 0.285 x 0.06	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: regtangular	Shielding Angle:

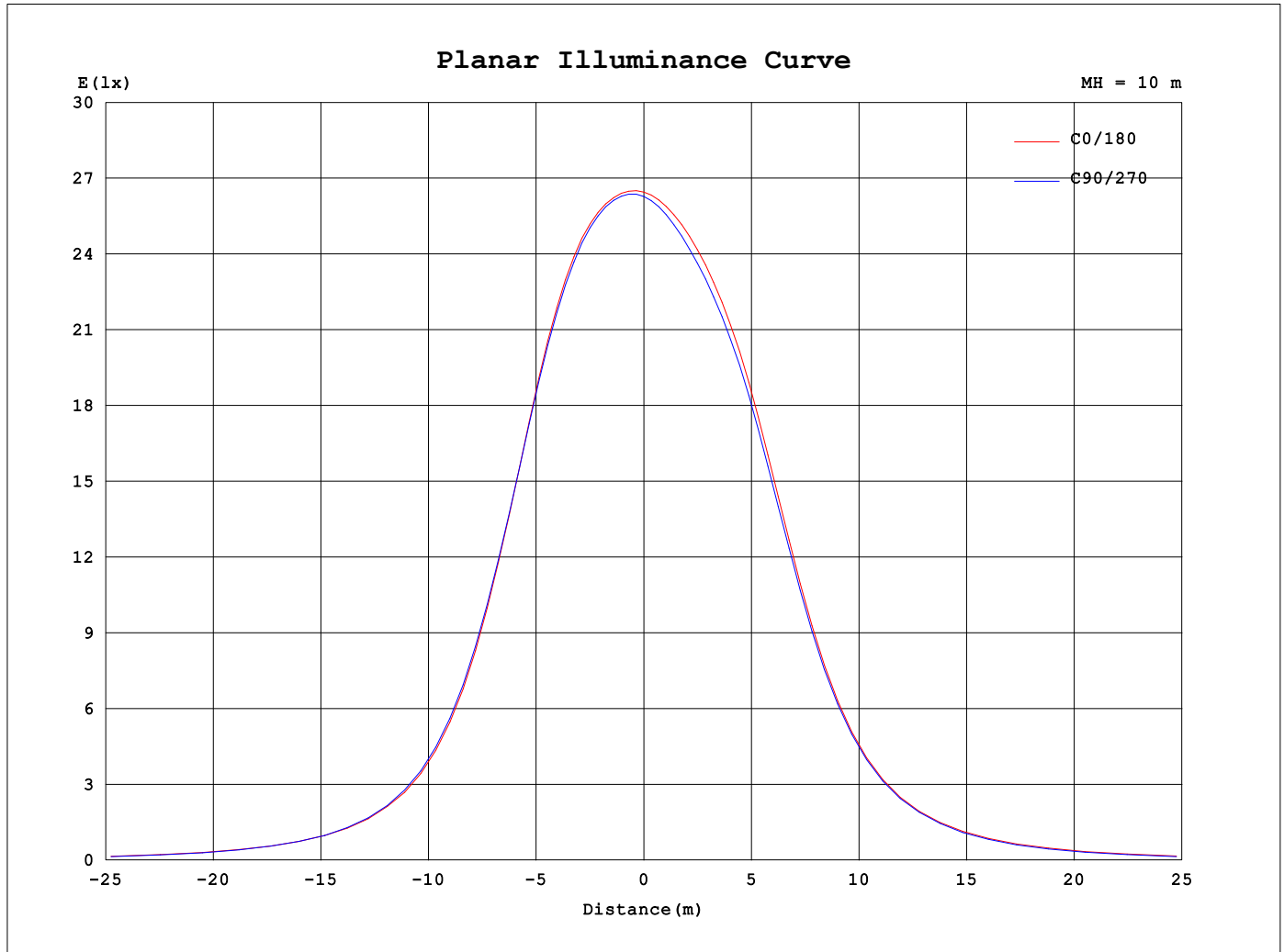
AvgL	cd/m2
L_0~180 (65) av	12712
L_0~180 (75) av	11396
L_0~180 (85) av	10611
L_90~270 (65) av	11841
L_90~270 (75) av	9055
L_90~270 (85) av	5539
L_45 (65) av	12439
L_45 (75) av	9336
L_45 (85) av	6608

Standard: GB/T 29293-2012

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

γ Range: 0 - 90DEG
γ Interval: 2.0DEG
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: 09 August 2022

γ Range: 0 - 90DEG
 γ Interval: 2.0DEG
 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: 2.0DEG
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: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

```