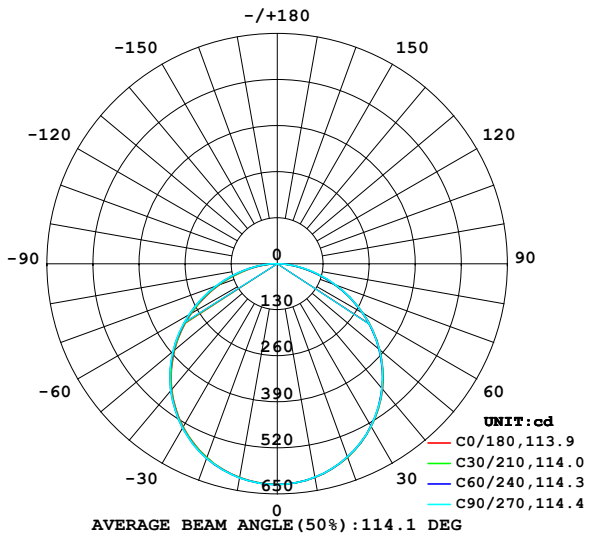
LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: 99XLED642W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: square 300 x 300	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: square	Shielding Angle:

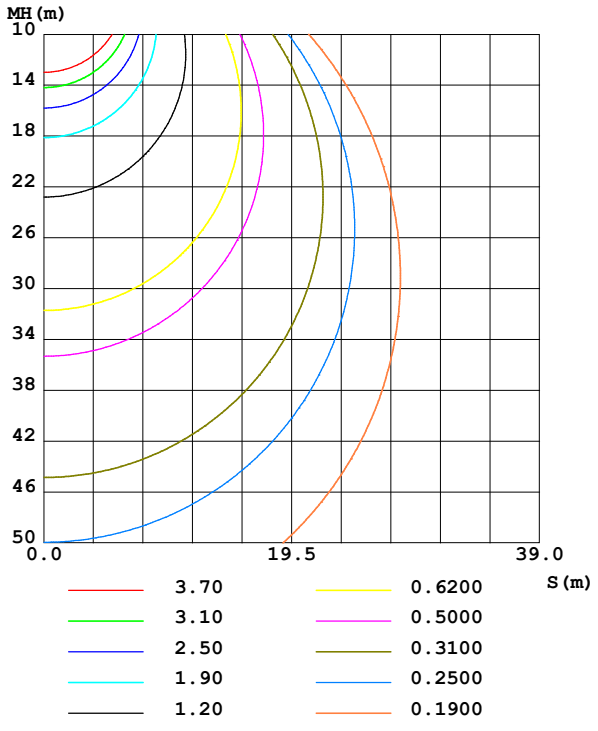
DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	99XLED642W	Imax(cd)	623.1	S/MH(C0/180)	1.27
NOMINAL POWER(W)	24	LOR(%)	91.0	S/MH(C90/270)	1.28
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	1820.6	η UP,DN(C0-180)	0.0,45.1
NOMINAL FLUX(lm)	2000	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,45.9
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	230	η down(%)	91.0	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):114.1 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:26 October 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	612.5	611.9	611.8	612.1	612.9	613.6	613.8	613.4	0- 10	58.98	58.98	3.24,2.95
20	581.4	580.4	580.2	580.7	582.1	583.7	584.3	583.3	10- 20	169.3	228.3	12.5,11.4
30	530.8	529.4	529.3	529.9	531.8	534.2	535.1	533.7	20- 30	257.8	486.1	26.7,24.3
40	462.3	460.6	460.6	461.2	463.5	466.6	467.8	465.9	30- 40	312.7	798.7	43.9,39.9
50	377.8	375.8	376.0	376.4	379.0	382.6	384.4	381.9	40- 50	326.4	1125	61.8,56.3
60	280.1	278.2	278.9	278.7	281.1	285.4	288.0	284.9	50- 60	296.5	1422	78.1,71.1
70	174.7	174.1	175.5	174.5	175.2	181.0	184.2	180.6	60- 70	227.6	1649	90.6,82.5
80	73.64	73.89	75.50	74.38	74.45	79.74	83.47	79.36	70- 80	133.1	1782	97.9,89.1
90	1.038	1.053	1.067	1.055	0.9053	0.9267	0.9883	0.9218	80- 90	38.27	1821	100,91
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): 962.96 lm

%lum = 52.9%
%lamp = 48.1%

Conical surface Flux(130deg): 1546.1 lm

%lum = 84.9%
%lamp = 77.3%

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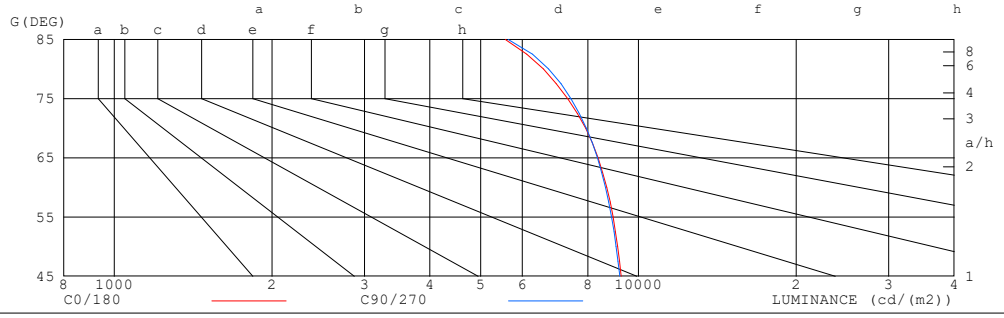
γ Range: 0 - 90DEG
γ Interval: 2.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

NAME: 99XLED642W	**TYPE:**	**WEIGHT: 1**
SPEC.:	**DIM.: square 300 x 300**	**SERIAL No.: 0**
MFR.: Elmark Industries JSC	**SUR.: square**	**Shielding Angle:**

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	5572	5643
80	6582	6738
75	7324	7432
70	7928	7954
65	8369	8345
60	8696	8645
55	8941	8884
50	9123	9065
45	9261	9207

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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:

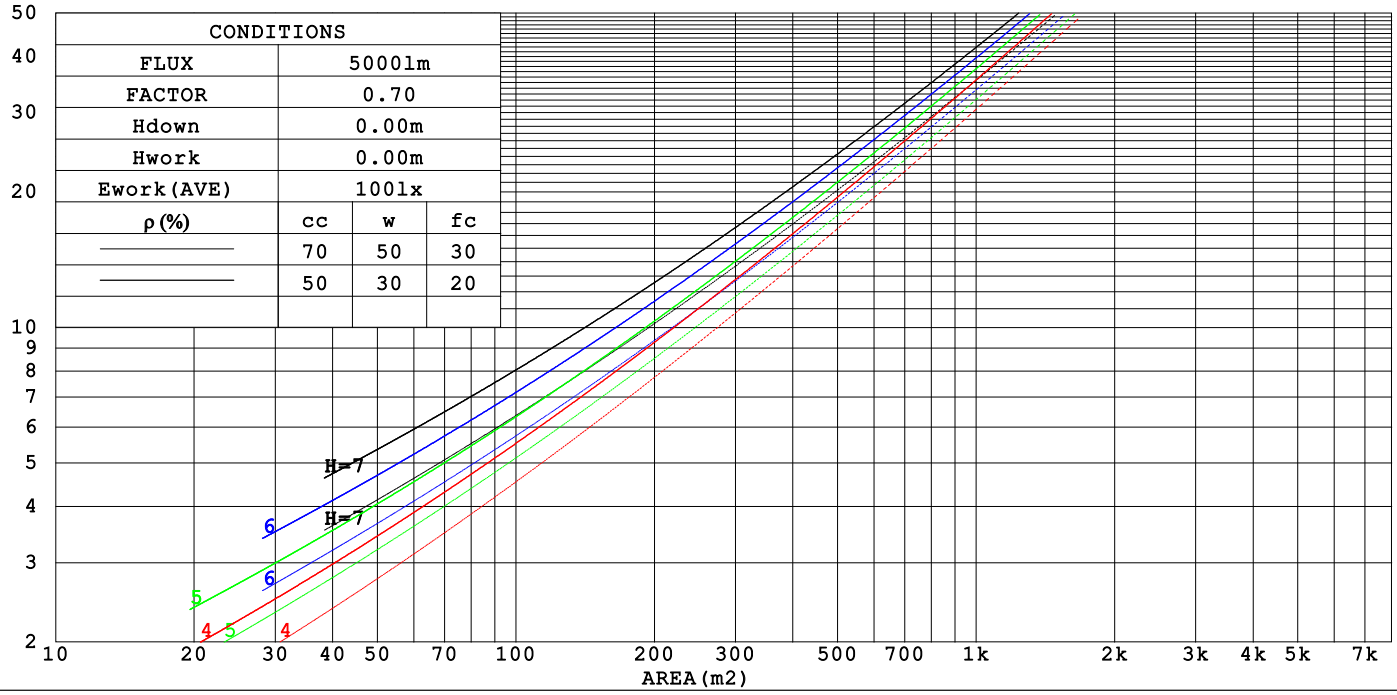
CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: 99XLED642W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: square 300 x 300	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: square	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.08	1.08	1.08	1.06	1.06	1.06	1.01	1.01	1.01	.97	.97	.97	.93	.93	.93	.91
1.0	.94	.90	.87	.92	.89	.85	.88	.85	.83	.85	.82	.80	.82	.80	.78	.76
2.0	.82	.76	.70	.80	.74	.70	.77	.72	.68	.74	.70	.66	.71	.68	.65	.63
3.0	.72	.64	.58	.70	.63	.58	.68	.62	.57	.65	.60	.56	.63	.58	.55	.53
4.0	.64	.55	.49	.62	.55	.49	.60	.53	.48	.58	.52	.48	.56	.51	.47	.45
5.0	.57	.48	.42	.56	.48	.42	.54	.47	.42	.52	.46	.41	.50	.45	.41	.39
6.0	.51	.43	.37	.50	.42	.37	.48	.42	.36	.47	.41	.36	.45	.40	.36	.34
7.0	.46	.38	.33	.45	.38	.32	.44	.37	.32	.43	.37	.32	.41	.36	.32	.30
8.0	.42	.34	.29	.42	.34	.29	.40	.34	.29	.39	.33	.28	.38	.32	.28	.27
9.0	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.26	.35	.30	.26	.24
10.0	.36	.28	.24	.35	.28	.24	.34	.28	.23	.33	.27	.23	.33	.27	.23	.22

LAMPS

LUMINAIRE BUDGETARY DIAGRAM



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C Interval: 10.0DEG
Test Speed: HIGH
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γ Range: 0 - 90DEG
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Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

WEC AND CCEC

NAME: 99XLED642W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: square 300 x 300	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: square	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coeffcients(WEC)									
0.0																
1.0	.286	.163	.052	.280	.160	.051	.268	.154	.049	.257	.148	.047	.246	.143	.046	
2.0	.269	.147	.045	.263	.145	.045	.252	.140	.044	.242	.136	.043	.233	.132	.042	
3.0	.248	.132	.040	.243	.130	.039	.234	.127	.038	.225	.123	.038	.217	.120	.037	
4.0	.229	.119	.035	.224	.117	.035	.216	.114	.034	.208	.112	.034	.201	.109	.033	
5.0	.211	.108	.031	.207	.106	.031	.200	.104	.031	.193	.102	.030	.186	.100	.030	
6.0	.196	.098	.028	.192	.097	.028	.186	.095	.028	.179	.093	.027	.174	.091	.027	
7.0	.182	.090	.026	.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	.021	.157	.076	.021	.152	.075	.021	.147	.074	.021	.143	.073	.021	
10.0	.150	.072	.020	.147	.071	.020	.143	.070	.020	.139	.069	.020	.135	.068	.020	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.173	.173	.173	.148	.148	.148	.101	.101	.101	.058	.058	.058	.019	.019	.019	
1.0	.164	.142	.122	.141	.122	.105	.096	.084	.073	.055	.049	.042	.018	.016	.014	
2.0	.157	.120	.089	.135	.103	.077	.092	.072	.054	.053	.042	.031	.017	.013	.010	
3.0	.150	.104	.067	.129	.090	.058	.088	.062	.041	.051	.036	.024	.016	.012	.008	
4.0	.143	.092	.053	.123	.079	.046	.085	.055	.032	.049	.032	.019	.016	.011	.006	
5.0	.136	.083	.043	.117	.071	.037	.081	.050	.026	.047	.029	.016	.015	.010	.005	
6.0	.130	.075	.035	.112	.065	.031	.077	.045	.022	.045	.027	.013	.014	.009	.004	
7.0	.124	.069	.030	.106	.059	.026	.073	.042	.019	.043	.025	.011	.014	.008	.004	
8.0	.118	.063	.026	.101	.055	.023	.070	.039	.016	.041	.023	.010	.013	.007	.003	
9.0	.112	.059	.023	.097	.051	.020	.067	.036	.014	.039	.021	.008	.013	.007	.003	
10.0	.107	.055	.020	.092	.048	.018	.064	.034	.013	.037	.020	.008	.012	.007	.002	

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

UGR(Unified Glare Rating) Table

NAME: 99XLED642W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: square 300 x 300	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: square	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	18.1	19.6	18.3	19.8	20.0	18.0	19.6	18.3	19.8	20.0
	3H	19.6	21.0	19.9	21.2	21.5	19.6	21.0	19.9	21.2	21.5
	4H	20.2	21.5	20.5	21.8	22.0	20.2	21.5	20.5	21.8	22.0
	6H	20.6	21.9	20.9	22.2	22.4	20.6	21.9	21.0	22.2	22.5
	8H	20.7	22.0	21.1	22.3	22.6	20.8	22.0	21.1	22.3	22.6
	12H	20.8	22.0	21.2	22.3	22.6	20.8	22.0	21.2	22.3	22.6
4H	2H	18.7	20.0	19.0	20.3	20.5	18.6	20.0	19.0	20.2	20.5
	3H	20.4	21.6	20.7	21.9	22.2	20.4	21.6	20.7	21.8	22.2
	4H	21.1	22.2	21.5	22.5	22.8	21.1	22.2	21.5	22.5	22.8
	6H	21.6	22.6	22.0	23.0	23.3	21.7	22.6	22.1	23.0	23.4
	8H	21.8	22.7	22.2	23.1	23.5	21.9	22.8	22.3	23.1	23.5
	12H	21.9	22.8	22.4	23.2	23.6	22.0	22.8	22.4	23.2	23.6
8H	4H	21.4	22.3	21.8	22.6	23.0	21.4	22.3	21.8	22.6	23.0
	6H	22.1	22.8	22.5	23.2	23.6	22.1	22.8	22.5	23.2	23.7
	8H	22.3	23.0	22.8	23.4	23.9	22.4	23.0	22.8	23.5	23.9
	12H	22.5	23.1	23.0	23.5	24.0	22.6	23.1	23.0	23.6	24.1
12H	4H	21.4	22.2	21.8	22.6	23.0	21.4	22.2	21.8	22.6	23.0
	6H	22.1	22.8	22.6	23.2	23.7	22.2	22.8	22.6	23.2	23.7
	8H	22.4	23.0	22.9	23.4	23.9	22.5	23.0	22.9	23.5	24.0
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H		+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H		+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H		+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 2000 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.4)
Area: 0.064516 m2

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:26 October 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: 99XLED642W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: square 300 x 300	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: square	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) x RCR = 5									
k = 0.60	52	41	35	51	41	35	50	41	35	29
0.80	61	50	44	60	50	44	59	49	43	37
1.00	69	59	52	68	58	52	66	59	51	45
1.25	75	66	59	74	65	59	71	64	58	51
1.50	80	71	64	78	70	64	76	68	63	56
2.00	86	78	72	84	77	72	81	75	70	63
2.50	90	83	77	88	81	76	84	79	74	67
3.00	93	86	81	91	85	80	87	82	78	71
4.00	97	91	87	94	90	86	90	87	83	75
5.00	99	94	91	97	93	89	92	89	86	78
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended					SHRNOM = 1.25	

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Remarks:

ISOCANDELA DIAGRAM

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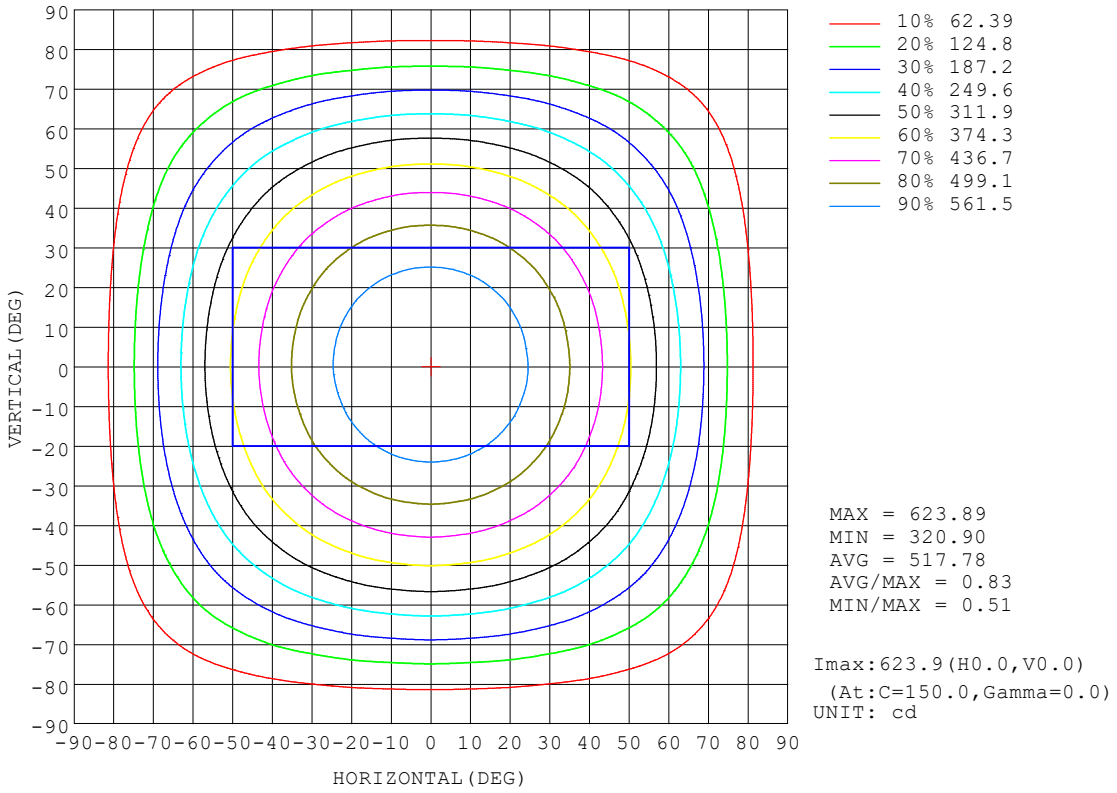

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:26 October 2022

γ Range: 0 - 90DEG
γ Interval: 2.5DEG
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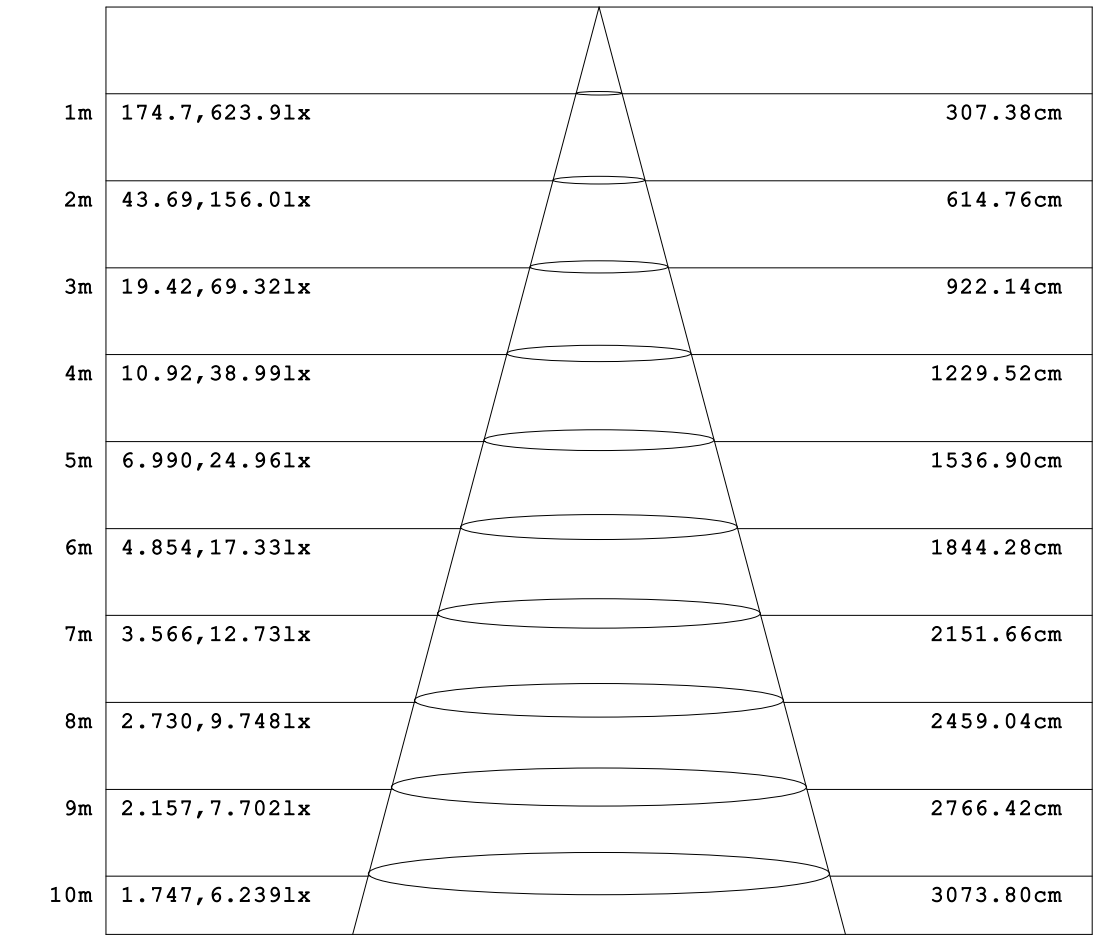
Remarks:

AAI Figure

NAME: 99XLED642W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: square 300 x 300	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: square	Shielding Angle:

Flux out:1353 lm



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

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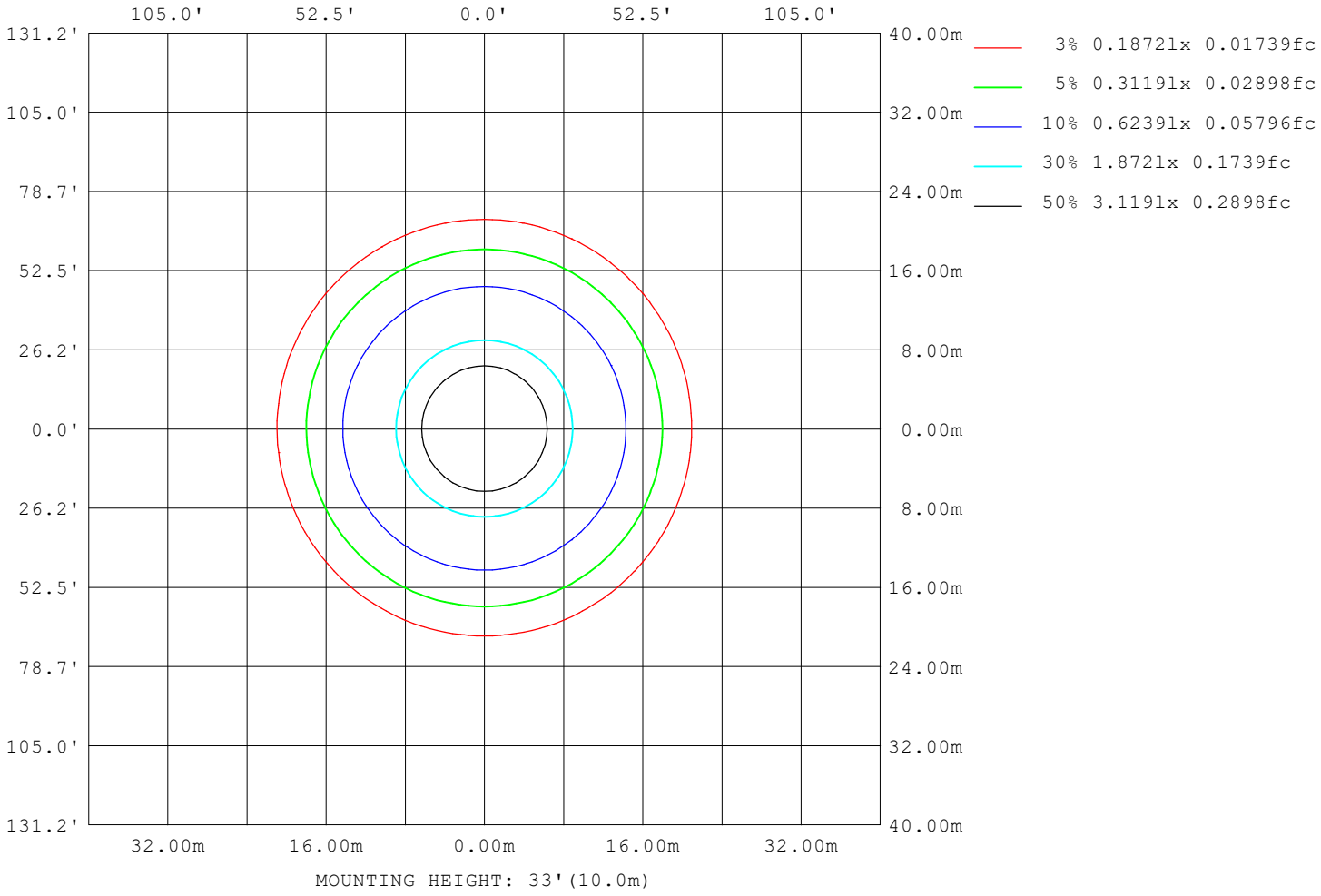
γ Range: 0 - 90DEG
γ Interval: 2.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

NAME: 99XLED642W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: square 300 x 300	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: square	Shielding Angle:



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Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

LED Avg.L Report

NAME: 99XLED642W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: square 300 x 300	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: square	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	8371
L_0~180(75)av	7337
L_0~180(85)av	5658
L_90~270(65)av	8511
L_90~270(75)av	7674
L_90~270(85)av	6233
L_45(65)av	8435
L_45(75)av	7550
L_45(85)av	5893

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
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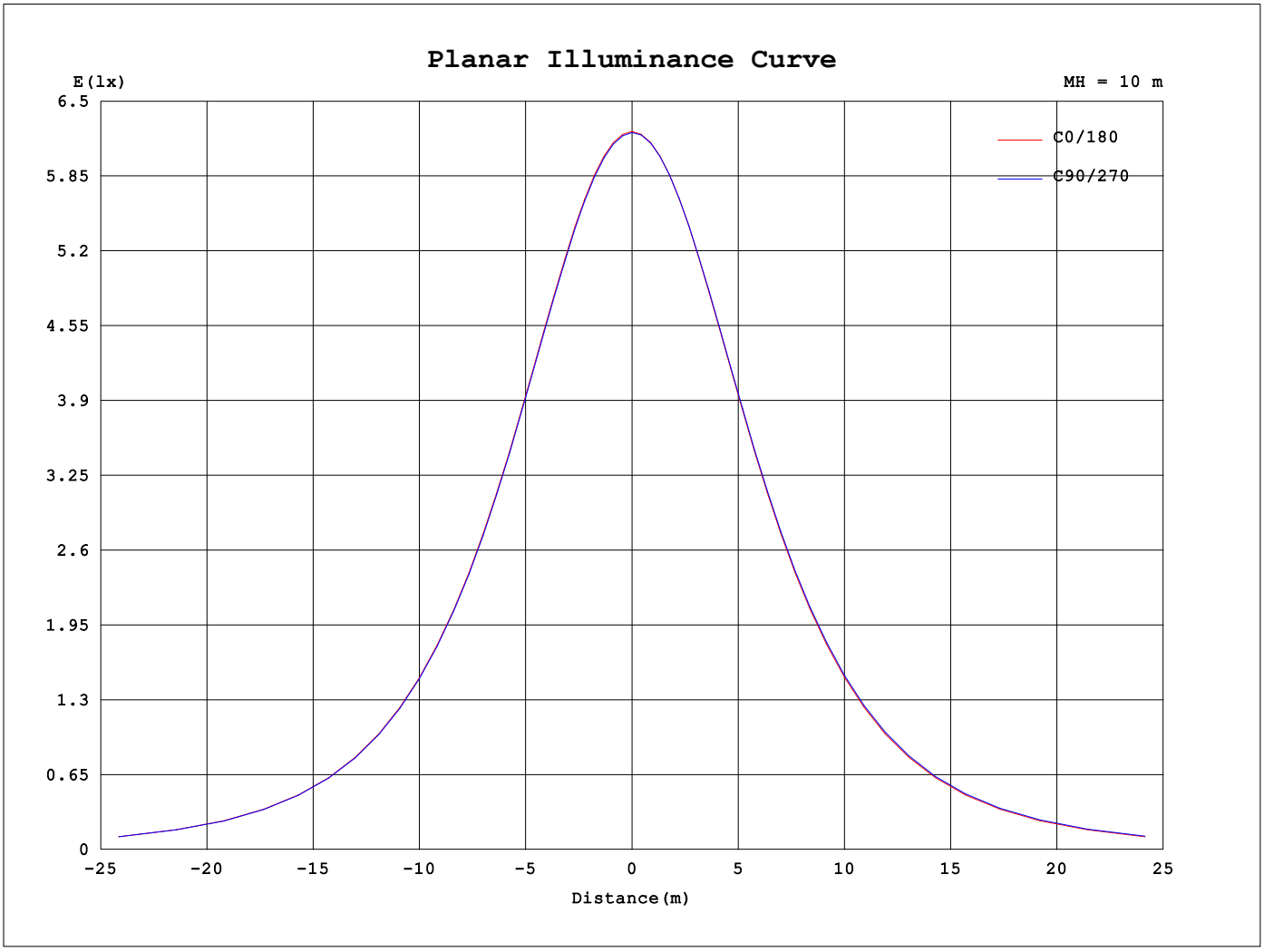
γ Range: 0 - 90DEG
γ Interval: 2.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:26 October 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:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 99XLED642W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: square 300 x 300	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: square	Shielding Angle:

Table--1 UNIT: cd

γ (DEG) \ C(DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	623	623	623	623	623	623	623	623	623	623	623	623	623	623	623	623	623	623	623
5	620	620	620	620	620	620	620	620	620	620	620	620	620	620	620	620	620	621	621
10	612	612	612	612	612	612	612	612	612	612	612	612	612	612	612	612	613	613	613
15	599	599	599	599	599	599	598	598	598	598	598	599	599	599	599	599	599	600	600
20	581	581	581	581	580	580	580	580	580	580	580	580	580	581	581	581	581	582	582
25	558	558	558	558	557	557	557	557	557	557	557	557	557	558	558	558	558	559	559
30	531	531	530	530	529	530	529	529	529	529	529	529	529	530	530	531	531	531	532
35	499	499	498	498	497	497	497	497	497	497	497	497	497	498	498	498	498	499	500
40	462	462	461	461	460	461	460	461	460	461	460	461	460	461	461	462	462	463	464
45	422	422	421	421	420	420	420	420	420	420	420	420	420	421	420	422	422	423	423
50	378	378	376	377	376	376	375	376	375	376	376	376	376	377	376	377	377	378	379
55	330	330	329	329	328	329	328	329	328	329	328	329	328	329	329	330	330	331	332
60	280	280	279	279	278	279	278	279	278	279	278	279	278	279	278	279	279	280	281
65	228	228	227	227	226	227	226	227	227	228	227	227	227	227	227	227	227	228	229
70	175	175	174	174	174	175	174	175	175	176	175	175	175	175	174	175	174	175	175
75	122	123	121	123	122	123	123	124	123	124	123	124	123	124	122	123	122	123	123
80	73.6	73.6	73.0	73.8	73.4	74.4	74.4	75.2	74.9	75.5	75.0	75.5	74.7	74.8	74.0	74.3	73.6	74.2	74.5
85	31.3	31.1	30.5	30.7	30.3	30.8	30.7	31.4	31.4	31.7	31.5	31.6	31.1	31.3	31.0	31.4	31.3	32.1	32.3
90	1.04	1.04	1.04	1.04	1.05	1.05	1.06	1.06	1.07	1.07	1.07	1.07	1.06	1.06	1.05	1.05	1.04	1.04	0.91

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:26 October 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:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 99XLED642W	TYPE:	WEIGHT: 1
SPEC.:	DIM.: square 300 x 300	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: square	Shielding Angle:

Table--2 UNIT: cd

γ (DEG) \ C(DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	623	623	623	623	623	623	623	623	623	623	623	623	623	623	623	623	623		
5	621	621	621	621	621	621	621	621	621	621	621	621	621	621	621	621	620		
10	613	613	613	614	614	614	614	614	614	614	614	614	613	613	613	613	613		
15	600	601	601	601	601	602	602	602	602	602	601	601	601	601	600	600	600		
20	582	583	583	584	584	584	584	584	584	584	584	584	583	583	583	583	582		
25	559	560	561	561	561	562	562	562	562	562	562	562	561	561	560	560	559		
30	532	533	533	534	534	535	535	536	535	535	535	535	534	533	533	532	531		
35	500	501	501	502	503	504	503	504	504	504	503	503	502	502	501	500	499		
40	464	465	465	466	467	468	468	468	468	468	467	467	466	466	464	464	463		
45	423	425	425	426	427	428	428	429	428	428	427	427	426	426	424	424	423		
50	379	381	381	382	383	384	384	385	384	385	384	384	382	382	380	380	379		
55	332	333	334	335	336	337	337	338	338	338	337	337	335	335	333	333	331		
60	281	283	283	285	286	287	287	289	288	288	287	287	285	285	283	282	281		
65	229	231	231	233	234	236	236	237	237	237	236	235	233	233	231	230	229		
70	175	178	178	181	181	183	184	185	184	185	183	183	181	180	178	178	176		
75	123	125	126	129	130	132	131	133	132	133	131	131	129	129	126	125	123		
80	74.8	76.5	77.5	79.4	80.1	82.1	82.8	83.4	83.5	83.3	82.7	81.8	79.8	78.9	77.0	76.1	74.4		
85	32.7	33.7	34.1	35.3	35.9	37.2	37.7	38.6	38.4	38.5	37.5	37.0	35.6	34.9	33.5	32.9	31.8		
90	0.91	0.90	0.91	0.91	0.94	0.94	0.98	0.97	0.99	0.97	0.96	0.94	0.93	0.91	0.92	0.91	0.91		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:26 October 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: