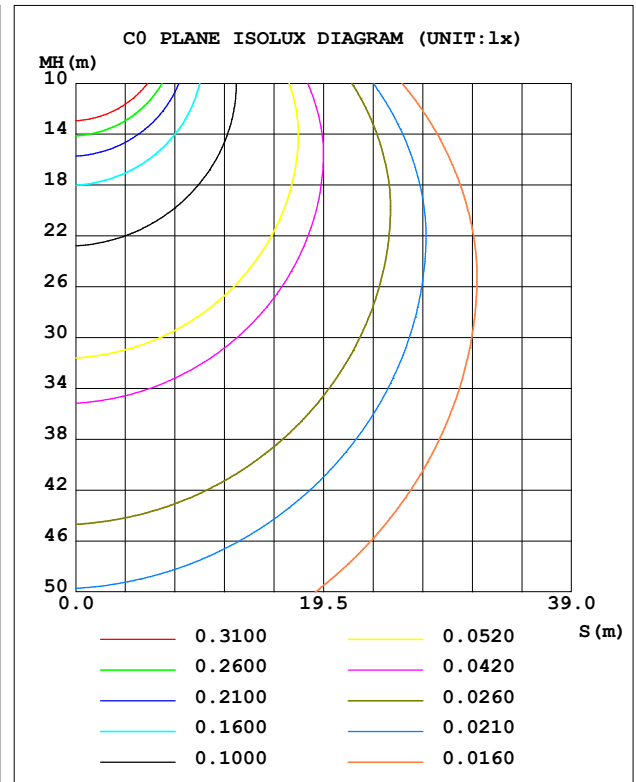
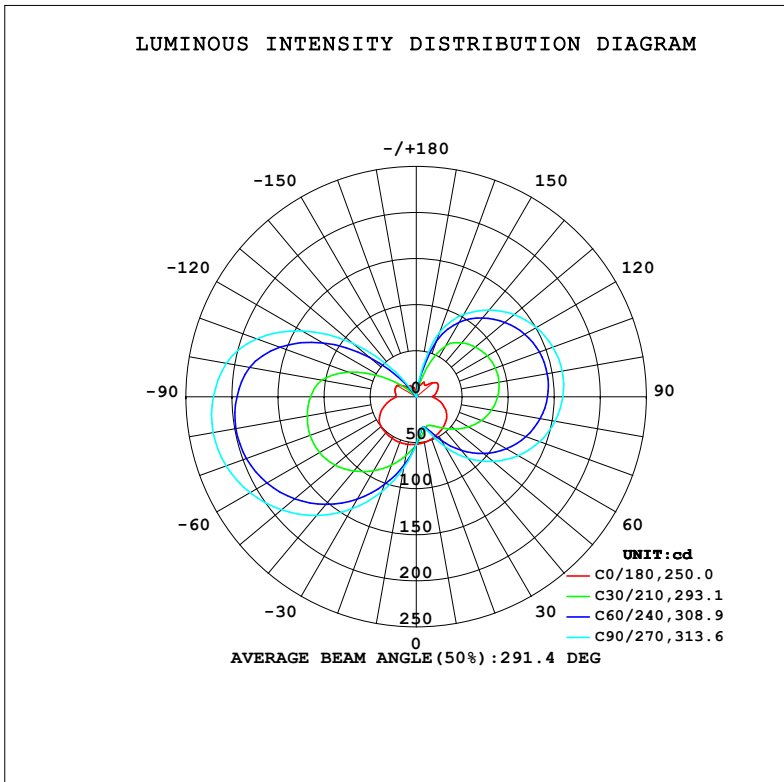


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: 95MALIA24LED/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 270 x 120 x 110	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 4 circler	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	95MALIA24LED/BL	Imax(cd)	223.9	S/MH(C0/180)	1.53
NOMINAL POWER(W)	24	LOR(%)	88.9	S/MH(C90/270)	3.33
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	1173.7	$\eta$ UP,DN(C0-180)	21.9,18.7
NOMINAL FLUX(lm)	1320	CIE CLASS	DIFFUSE	$\eta$ UP,DN(C180-360)	17.3,31.1
LAMPS INSIDE	1	$\eta$ up (%)	39.1	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	230	$\eta$ down (%)	49.8	CIBSE SHR MAX	1.55



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: MEDIUM  
Temperature:25.3°C  
Operators:  
Test Date:04 January 2023

$\gamma$  Range: 0 - 170DEG  
 $\gamma$  Interval: 2.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:6.340m [K=1.0000]  
Remarks:

### ZONAL FLUX DIAGRAM

#### ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	50.55	37.61	34.28	38.73	52.62	70.40	78.21	68.54	0- 10	5.042	5.042	0.43,0.38
20	48.85	35.19	41.21	34.65	52.83	91.59	109.6	87.41	10- 20	16.47	21.51	1.83,1.63
30	46.78	45.27	62.69	42.22	52.46	112.8	140.6	106.3	20- 30	32.12	53.63	4.57,4.06
40	44.51	60.96	87.20	55.49	51.54	131.9	168.2	123.3	30- 40	52.33	106.0	9.03,8.03
50	42.09	77.65	109.3	70.54	50.11	147.5	191.0	137.0	40- 50	75.02	181.0	15.4,13.7
60	38.34	92.42	128.0	84.38	46.43	158.3	208.4	146.4	50- 60	97.22	278.2	23.7,21.1
70	32.51	104.5	142.7	95.84	39.44	163.7	219.8	150.6	60- 70	115.8	394.0	33.6,29.8
80	25.13	113.5	153.1	104.5	30.49	163.9	223.9	150.3	70- 80	128.7	522.7	44.5,39.6
90	17.53	119.2	159.3	110.2	21.74	158.9	220.2	145.0	80- 90	134.3	657.0	56,49.8
100	21.62	121.5	161.0	112.6	23.25	148.2	209.5	134.4	90-100	132.4	789.4	67.3,59.8
110	25.07	120.3	157.8	111.9	24.63	121.8	184.4	109.5	100-110	120.6	910.0	77.5,68.9
120	27.64	115.7	150.5	107.9	24.53	82.85	143.2	73.43	110-120	98.69	1009	85.9,76.4
130	23.93	107.6	138.9	100.8	18.75	38.72	90.76	33.41	120-130	72.12	1081	92.1,81.9
140	16.55	96.51	123.0	90.66	14.01	6.473	34.52	5.090	130-140	46.04	1127	96,85.4
150	17.49	81.37	103.2	77.58	14.02	2.189	0.7623	1.774	140-150	26.76	1154	98.3,87.4
160	13.53	49.51	74.78	50.92	10.32	4.276	0.6895	4.286	150-160	15.01	1169	99.6,88.5
170	7.741	6.057	18.24	8.291	7.507	2.808	0.7283	2.927	160-170	4.963	1174	100,88.9
180	0	0	0	0	0	0	0	0	170-180	0.1407	1174	100,88.9
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 140.59 lm

%lum = 12.0%

%lamp = 10.7%

Conical surface Flux(130deg): 334.09 lm

%lum = 28.5%

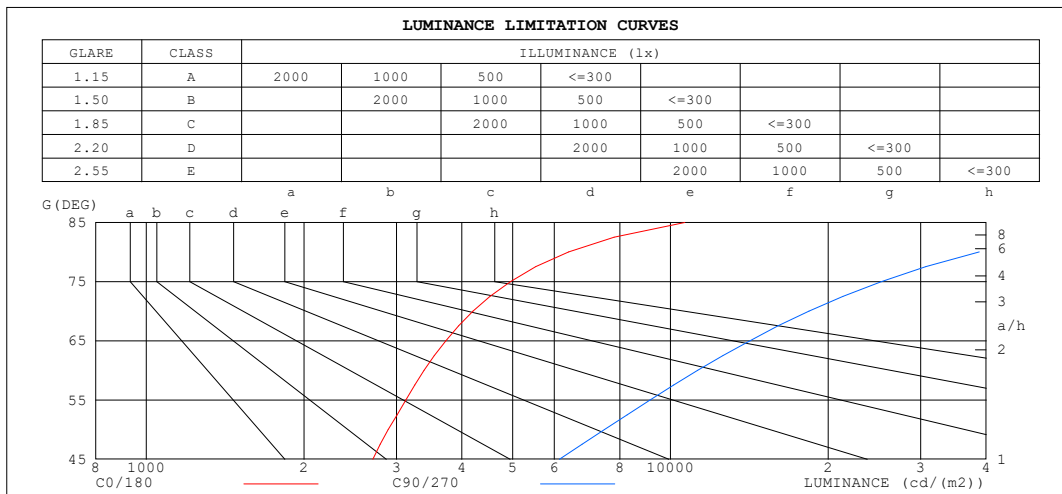
%lamp = 25.3%

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: MEDIUM  
Temperature:25.3°C  
Operators:  
Test Date:04 January 2023

$\gamma$  Range: 0 - 170DEG  
 $\gamma$  Interval: 2.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:6.340m [K=1.0000]  
Remarks:

### LUMINANCE LIMITATION CURVES

NAME: 95MALIA24LED/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 270 x 120 x 110	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 4 circler	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	10649	79140
80	6394	38811
75	4950	25250
70	4199	18369
65	3725	14156
60	3388	11270
55	3127	9141
50	2893	7485
45	2706	6141

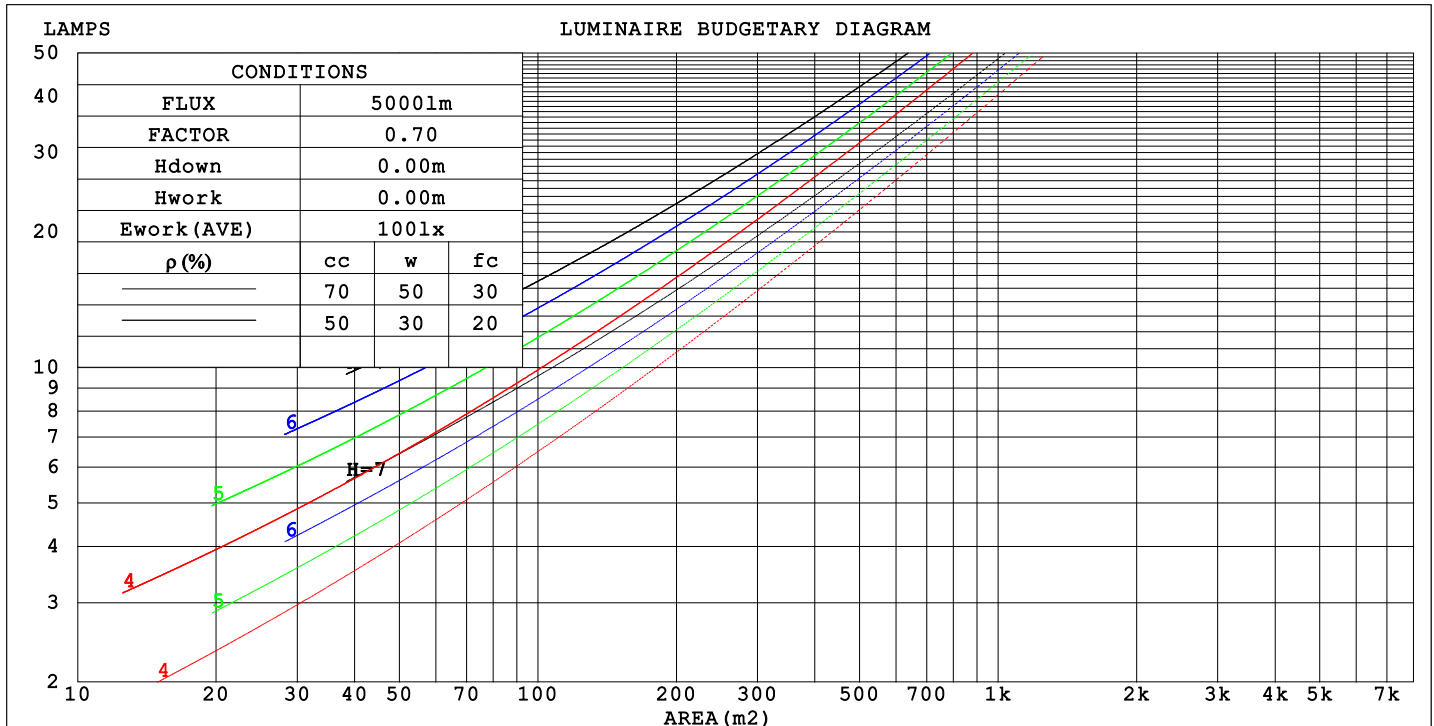
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3°C  
Operators:  
Test Date: 04 January 2023

γ Range: 0 - 170DEG  
γ Interval: 2.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity: 65.0%  
Test Distance: 6.340m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: 95MALIA24LED/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 270 x 120 x 110	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 4 circler	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:04 January 2023

γ Range: 0 - 170DEG  
γ Interval: 2.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:6.340m [K=1.0000]  
Remarks:

## WEC AND CCEC

NAME: 95MALIA24LED/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 270 x 120 x 110	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 4 circler	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	.392	.223	.071	.374	.213	.068	.339	.195	.062	.308	.178	.057	.279	.161	.052	
2.0	.323	.177	.054	.306	.169	.052	.275	.153	.047	.246	.138	.043	.219	.124	.039	
3.0	.280	.149	.045	.264	.142	.043	.235	.128	.039	.209	.114	.035	.184	.102	.032	
4.0	.247	.129	.038	.233	.122	.036	.207	.110	.033	.182	.098	.030	.160	.087	.026	
5.0	.222	.113	.033	.209	.107	.031	.185	.096	.028	.162	.086	.025	.141	.075	.023	
6.0	.202	.101	.029	.190	.096	.028	.167	.086	.025	.147	.076	.022	.127	.067	.020	
7.0	.185	.091	.026	.174	.087	.025	.153	.077	.022	.134	.069	.020	.116	.060	.018	
8.0	.170	.083	.023	.160	.079	.022	.141	.070	.020	.123	.062	.018	.106	.054	.016	
9.0	.158	.076	.021	.149	.072	.020	.131	.065	.018	.114	.057	.016	.098	.050	.014	
10.0	.147	.071	.020	.138	.067	.019	.122	.060	.017	.106	.053	.015	.091	.046	.013	

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	.468	.468	.468	.400	.400	.400	.273	.273	.273	.157	.157	.157	.050	.050	.050	
1.0	.469	.439	.411	.401	.376	.354	.275	.259	.245	.158	.150	.142	.051	.048	.046	
2.0	.464	.420	.382	.398	.361	.330	.273	.250	.230	.157	.145	.135	.050	.047	.044	
3.0	.458	.406	.365	.393	.350	.316	.270	.243	.222	.156	.142	.131	.050	.046	.043	
4.0	.452	.396	.354	.387	.342	.307	.266	.239	.216	.154	.140	.128	.050	.045	.042	
5.0	.445	.388	.346	.382	.336	.301	.263	.235	.213	.152	.138	.126	.049	.045	.042	
6.0	.438	.381	.341	.377	.330	.297	.260	.231	.210	.151	.136	.125	.049	.044	.041	
7.0	.432	.376	.337	.371	.326	.294	.257	.229	.208	.149	.135	.124	.048	.044	.041	
8.0	.426	.371	.334	.367	.322	.291	.254	.226	.207	.148	.133	.123	.048	.044	.041	
9.0	.420	.367	.332	.362	.319	.289	.251	.224	.205	.146	.132	.122	.047	.043	.041	
10.0	.415	.364	.330	.358	.316	.288	.248	.222	.204	.145	.131	.122	.047	.043	.040	

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: MEDIUM  
Temperature:25.3°C  
Operators:  
Test Date:04 January 2023

γ Range: 0 - 170DEG  
γ Interval: 2.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:6.340m [K=1.0000]  
Remarks:

## UGR(Unified Glare Rating) Table

NAME: 95MALIA24LED/BL					TYPE:			WEIGHT: 1		
SPEC.:					DIM.: 270 x 120    x 110			SERIAL No.: 0		
MFR.: Elmark Industries JSC					SUR.: 4 circler			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	11.0	12.2	11.8	13.1	14.1	17.1	18.3	17.9	19.1	20.2
3H	13.5	14.5	14.3	15.4	16.5	21.0	22.1	21.9	23.0	24.1
4H	14.7	15.7	15.6	16.6	17.7	23.2	24.2	24.0	25.1	26.2
6H	16.1	17.0	16.9	17.9	19.1	25.5	26.5	26.4	27.4	28.5
8H	16.8	17.7	17.7	18.6	19.8	26.8	27.7	27.7	28.6	29.8
12H	17.6	18.5	18.5	19.4	20.5	28.2	29.1	29.1	30.0	31.2
4H        2H	14.4	15.4	15.2	16.3	17.4	17.7	18.8	18.6	19.6	20.7
3H	16.9	17.8	17.8	18.7	19.9	21.9	22.8	22.8	23.7	24.9
4H	18.2	19.1	19.1	20.0	21.2	24.3	25.1	25.2	26.0	27.2
6H	19.6	20.3	20.5	21.2	22.5	26.8	27.6	27.7	28.5	29.7
8H	20.2	20.9	21.1	21.9	23.1	28.2	28.9	29.1	29.9	31.1
12H	20.9	21.5	21.8	22.5	23.7	29.8	30.4	30.7	31.4	32.6
8H        4H	20.7	21.4	21.6	22.4	23.6	24.7	25.4	25.6	26.4	27.6
6H	22.5	23.1	23.4	24.1	25.3	27.6	28.2	28.5	29.2	30.4
8H	23.4	23.9	24.3	24.9	26.2	29.2	29.8	30.2	30.7	32.0
12H	24.2	24.7	25.2	25.7	27.0	31.1	31.5	32.0	32.5	33.8
12H        4H	21.5	22.2	22.4	23.1	24.3	24.8	25.4	25.7	26.4	27.6
6H	23.6	24.1	24.6	25.1	26.4	27.8	28.3	28.7	29.3	30.5
8H	24.7	25.2	25.7	26.2	27.4	29.5	30.0	30.5	31.0	32.3
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.1 / - 0.1					+ 0.2 / - 0.3				
2.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.4				

CIE Pub.117, 1320 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.0)  
Area: 0.0226865 m2

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: MEDIUM  
Temperature:25.3°C  
Operators:  
Test Date:04 January 2023

γ Range: 0 - 170DEG  
γ Interval: 2.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:6.340m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

NAME: 95MALIA24LED/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 270 x 120 x 110	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 4 circler	Shielding Angle:

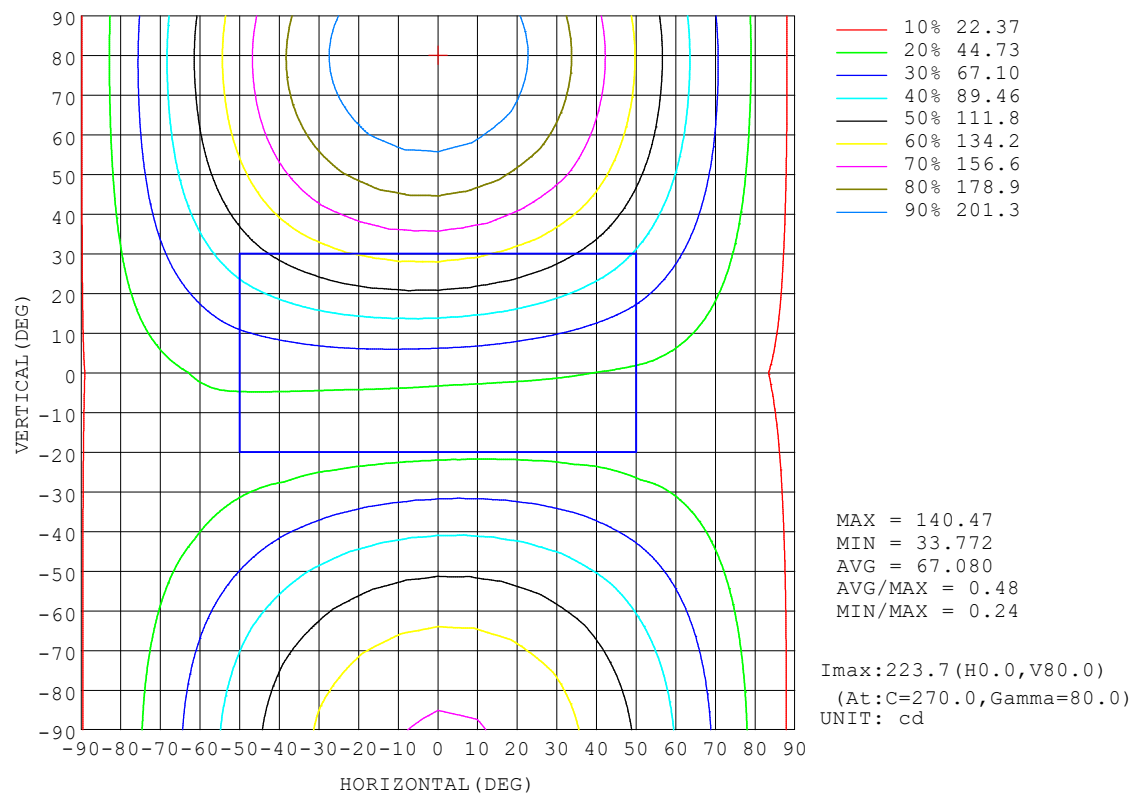
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	32	20	13	30	19	13	27	18	12	6
0.80	39	26	18	37	25	18	33	23	16	8
1.00	45	32	24	43	31	23	38	30	21	11
1.25	51	38	29	48	36	28	42	32	25	14
1.50	56	43	34	52	41	32	46	36	29	16
2.00	63	51	42	59	48	40	51	42	35	20
2.50	68	57	48	63	53	45	54	46	40	23
3.00	72	61	53	66	57	50	57	50	44	26
4.00	76	67	60	71	63	56	61	55	49	29
5.00	80	72	65	74	67	61	63	58	53	32
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: 04 January 2023

$\gamma$  Range: 0 - 170DEG  
 $\gamma$  Interval: 2.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity: 65.0%  
Test Distance: 6.340m [K=1.0000]  
Remarks:

ISOCANDELA DIAGRAM

NAME: 95MALIA24LED/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 270 x 120 x 110	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 4 circler	Shielding Angle:



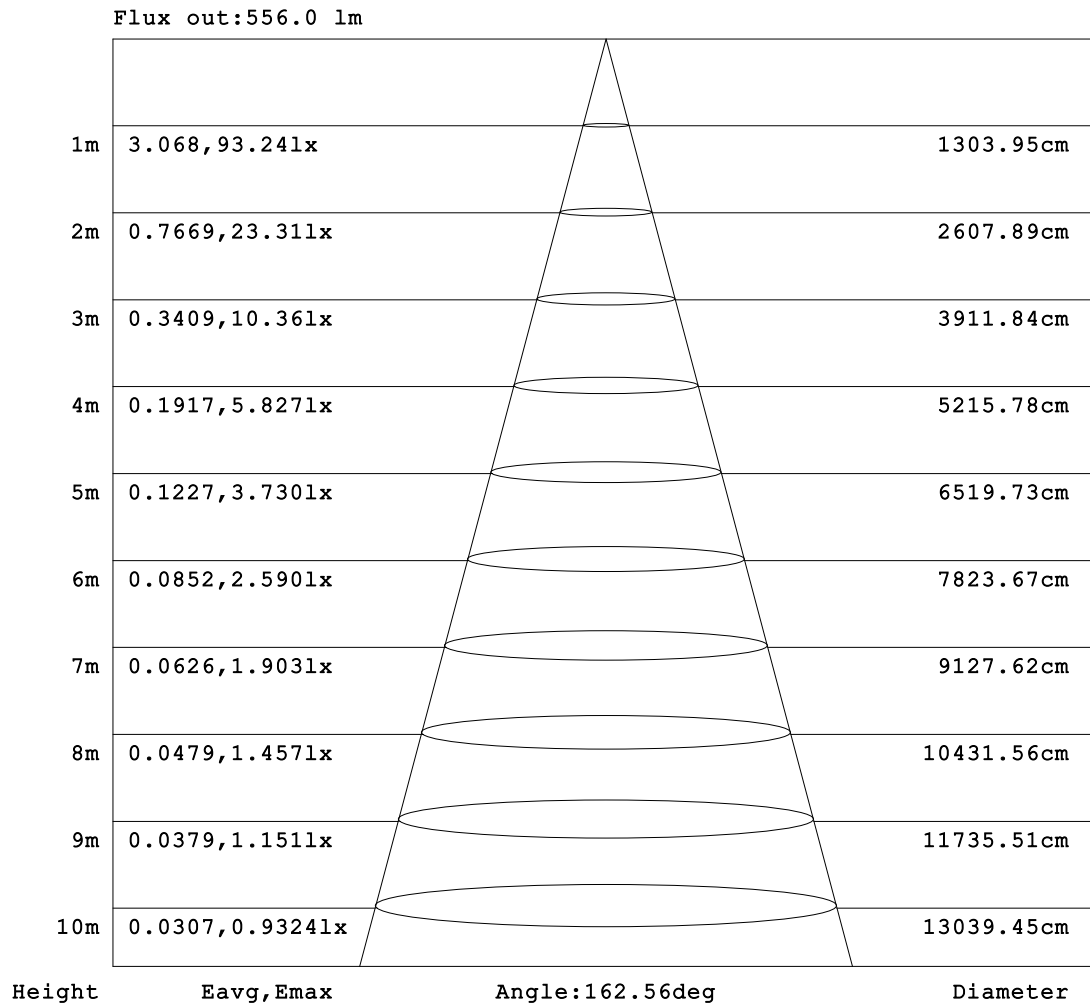
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3°C  
Operators:  
Test Date: 04 January 2023

γ Range: 0 - 170DEG  
γ Interval: 2.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity: 65.0%  
Test Distance: 6.340m [K=1.0000]  
Remarks:



**AAI Figure**

NAME: 95MALIA24LED/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 270 x 120 x 110	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 4 circler	Shielding Angle:



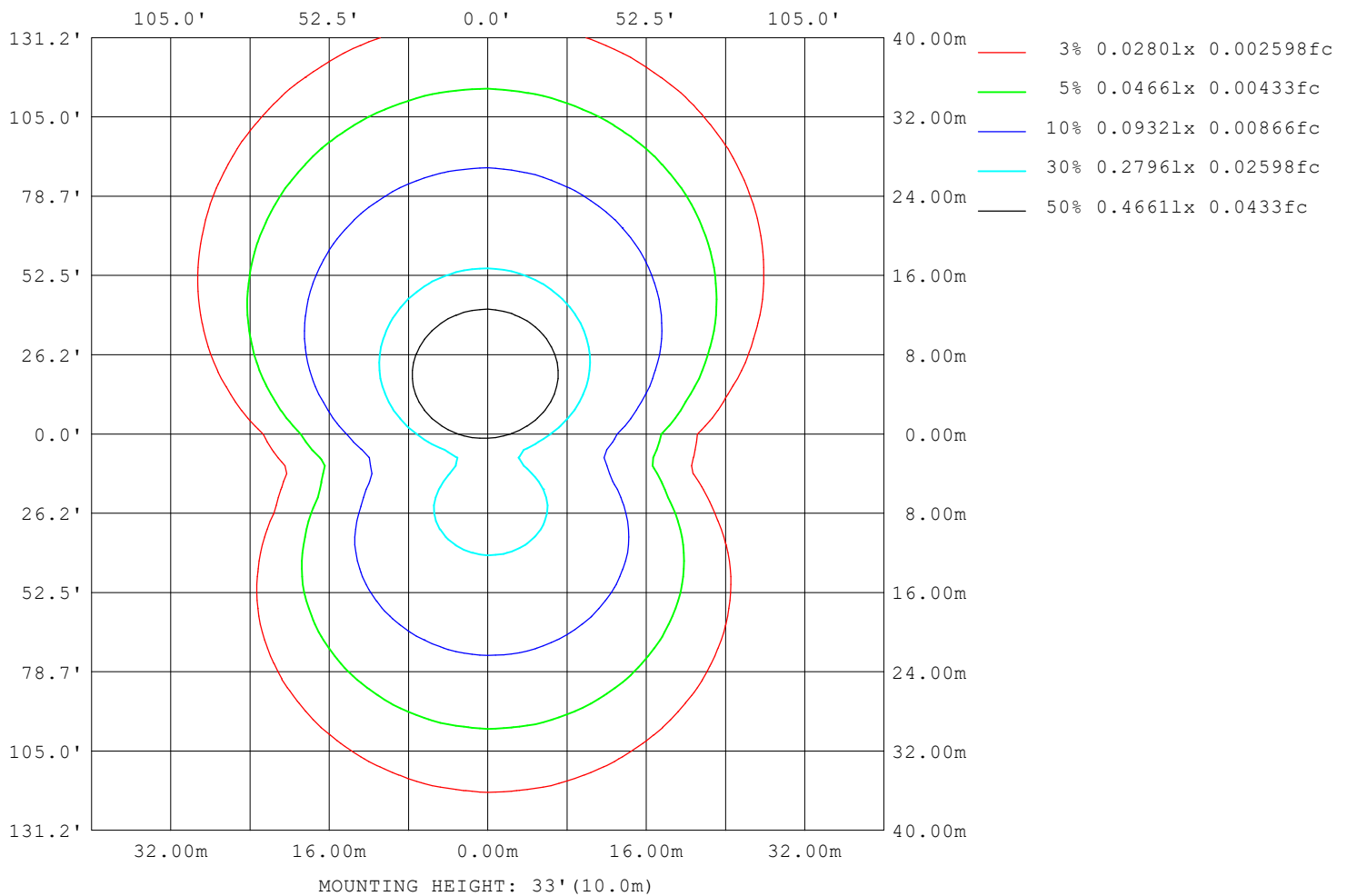
**Note:** The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: MEDIUM  
 Temperature: 25.3°C  
 Operators:  
 Test Date: 04 January 2023

γ Range: 0 - 170DEG  
 γ Interval: 2.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
 Humidity: 65.0%  
 Test Distance: 6.340m [K=1.0000]  
 Remarks:

**ISOLUX DIAGRAM**

NAME: 95MALIA24LED/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 270 x 120 x 110	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 4 circler	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: MEDIUM  
Temperature: 25.3°C  
Operators:  
Test Date: 04 January 2023

γ Range: 0 - 170DEG  
γ Interval: 2.5DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity: 65.0%  
Test Distance: 6.340m [K=1.0000]  
Remarks:

### LED Avg.L Report

NAME: 95MALIA24LED/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 270 x 120 x 110	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 4 circler	Shielding Angle:

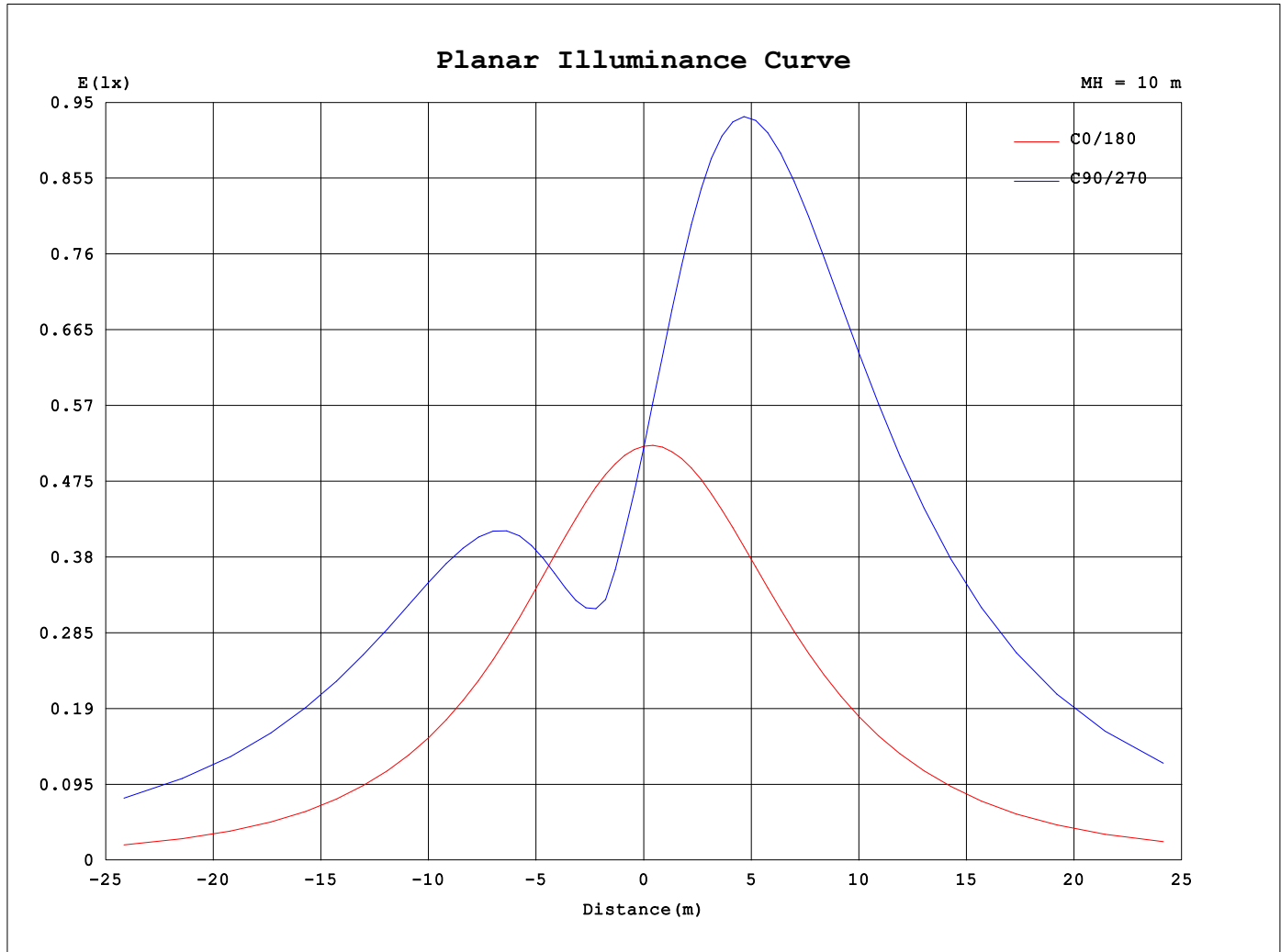
AvgL	cd/m2
L_0~180 (65) av	4113
L_0~180 (75) av	5464
L_0~180 (85) av	11794
L_90~270 (65) av	18291
L_90~270 (75) av	31612
L_90~270 (85) av	96035
L_45 (65) av	13080
L_45 (75) av	22446
L_45 (85) av	67873

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: MEDIUM  
Temperature:25.3°C  
Operators:  
Test Date:04 January 2023

γ Range: 0 - 170DEG  
γ Interval: 2.5DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
Humidity:65.0%  
Test Distance:6.340m [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: 04 January 2023

$\gamma$  Range: 0 - 170DEG  
 $\gamma$  Interval: 2.5DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.456  
 Humidity: 65.0%  
 Test Distance: 6.340m [K=1.0000]  
 Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 95MALIA24LED/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 270 x 120 x 110	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 4 circler	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8
5	51.2	49.3	47.6	46.0	44.6	43.5	42.6	42.0	41.7	41.6	41.9	42.3	43.1	44.1	45.3	46.8	48.5	50.3	52.3
10	50.6	46.9	43.6	40.8	38.5	36.7	35.4	34.6	34.4	34.3	34.5	35.0	36.1	37.7	39.8	42.3	45.3	48.8	52.6
15	49.7	44.5	40.0	36.3	34.2	33.9	34.2	34.7	35.1	35.2	35.0	34.5	34.1	33.9	35.1	38.3	42.3	47.2	52.8
20	48.8	42.2	36.8	33.9	34.4	36.0	38.1	39.8	41.0	41.2	40.6	39.0	37.1	35.2	34.1	34.9	39.6	45.6	52.8
25	47.9	39.9	34.4	34.5	37.2	41.1	45.3	48.5	50.6	50.9	49.8	46.9	43.2	39.1	35.8	34.2	37.0	43.9	52.7
30	46.8	37.9	34.0	36.5	42.0	48.5	54.7	59.3	62.3	62.7	61.1	57.2	51.7	45.2	39.2	35.1	34.9	42.4	52.5
35	45.7	35.9	34.7	39.9	48.3	57.2	65.3	71.1	74.7	75.2	73.3	68.5	61.5	52.7	44.0	37.1	34.4	40.8	52.1
40	44.5	34.7	36.2	44.3	55.3	66.6	76.1	82.7	86.6	87.2	85.1	79.7	71.7	61.2	49.8	40.0	34.8	39.3	51.5
45	43.3	34.2	38.4	49.3	63.0	75.9	86.4	93.6	98.0	98.6	96.3	90.3	81.6	69.8	56.2	43.6	35.7	37.9	50.9
50	42.1	34.3	41.0	54.6	70.6	84.7	96.0	104	109	109	107	100	90.9	78.1	63.0	47.6	37.0	36.3	50.1
55	40.6	34.5	44.0	60.2	77.8	92.9	105	113	118	119	116	110	99.5	85.9	69.6	51.9	38.7	34.8	48.9
60	38.3	34.3	47.2	65.7	84.5	100	113	122	127	128	125	118	107	93.0	75.8	56.4	40.6	33.4	46.4
65	35.6	34.2	50.4	70.8	90.5	107	120	130	135	136	133	126	114	99.4	81.4	60.8	42.7	32.4	43.2
70	32.5	34.4	53.6	75.5	95.9	113	127	136	142	143	140	132	121	105	86.5	65.0	44.8	31.8	39.4
75	29.0	35.1	56.7	79.6	101	118	132	142	148	148	145	138	126	110	91.0	68.9	47.0	31.7	35.2
80	25.1	36.3	59.6	83.2	105	122	137	146	152	153	150	142	130	114	94.8	72.2	49.2	32.2	30.5
85	21.0	37.9	62.2	86.1	108	126	140	150	156	157	154	146	134	118	97.9	75.1	51.4	33.1	25.6
90	17.5	39.8	64.4	88.5	110	128	143	152	158	159	156	148	136	120	100	77.4	53.3	34.2	21.7
95	19.5	41.7	66.2	90.2	112	130	144	154	160	161	157	150	138	122	102	79.2	55.0	35.2	22.4
100	21.6	43.4	67.6	91.3	113	130	145	154	160	161	158	150	138	122	103	80.4	56.4	36.2	23.2
105	23.4	44.9	68.4	91.7	113	130	144	153	159	160	157	149	138	122	103	81.1	57.4	37.1	24.0
110	25.1	46.0	68.8	91.5	112	129	142	151	157	158	155	148	136	121	103	81.1	58.1	37.7	24.6
115	26.5	46.5	68.8	90.6	110	127	140	149	154	155	152	145	134	119	101	80.6	58.3	38.1	24.7
120	27.6	46.5	68.2	89.0	108	124	136	145	150	151	148	141	131	116	99.4	79.5	58.2	38.1	24.5
125	26.8	42.8	66.4	86.9	105	120	131	140	144	145	143	136	126	113	96.6	77.8	57.6	35.6	22.1
130	23.9	36.0	62.8	84.0	101	115	126	134	138	139	136	130	121	108	93.2	75.6	56.5	31.0	18.8
135	20.0	29.8	59.7	80.6	96.0	109	119	126	131	131	129	123	115	103	89.1	72.8	54.3	25.4	15.5
140	16.6	25.6	55.2	76.6	90.6	102	112	118	122	123	121	116	108	97.1	84.2	69.4	49.6	20.4	14.0
145	15.9	23.9	50.5	72.0	84.5	95.1	104	109	113	114	112	107	99.9	90.3	78.8	65.4	43.8	18.8	14.2
150	17.5	21.8	43.6	63.9	76.7	86.0	93.8	99.4	103	103	102	97.4	91.2	82.8	72.4	57.5	36.7	18.3	14.0
155	16.8	20.5	32.3	49.9	63.6	73.8	81.0	86.2	89.6	90.7	89.9	86.8	81.2	73.1	61.3	45.8	27.8	17.3	12.6
160	13.5	16.9	20.0	32.9	43.9	55.1	64.4	70.7	73.9	74.8	74.0	71.5	66.1	57.5	44.3	30.3	19.5	15.5	10.3
165	12.9	13.0	12.4	14.3	23.0	30.6	37.7	43.4	47.0	48.7	48.3	46.4	41.9	34.0	24.1	15.3	14.3	13.4	10.7
170	7.74	7.95	6.76	5.63	5.19	6.92	11.2	14.3	16.7	18.2	18.4	17.1	14.1	8.54	8.04	8.91	9.32	6.54	7.51
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: MEDIUM

Temperature:25.3°C

Operators:

Test Date:04 January 2023

γ Range: 0 - 170DEG

γ Interval: 2.5DEG

Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456

Humidity:65.0%

Test Distance:6.340m [K=1.0000]

Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 95MALIA24LED/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 270 x 120 x 110	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: 4 circler	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8	51.8		
5	54.3	56.2	58.1	59.9	61.4	62.6	63.5	64.0	64.1	63.8	63.1	62.0	60.6	59.0	57.1	55.2	53.2		
10	56.7	60.8	64.9	68.7	72.1	74.9	76.9	78.0	78.2	77.6	75.9	73.5	70.4	66.7	62.7	58.6	54.5		
15	58.9	65.4	71.9	78.1	83.6	88.1	91.4	93.0	93.6	92.2	89.8	85.8	80.8	74.9	68.5	61.9	55.6		
20	61.1	70.0	79.0	87.7	95.5	102	106	109	110	108	104	98.4	91.6	83.3	74.2	65.2	56.6		
25	63.0	74.4	86.0	97.3	107	115	121	125	125	123	119	111	102	91.6	79.9	68.3	57.4		
30	64.7	78.6	92.9	107	119	128	136	140	141	138	133	124	113	99.8	85.4	71.2	58.0		
35	66.2	82.4	99.4	116	130	141	150	154	155	152	146	135	123	107	90.6	73.8	58.4		
40	67.4	85.9	105	124	140	153	162	167	168	165	158	146	132	115	95.3	76.1	58.7		
45	68.3	89.0	111	131	149	163	173	179	180	177	169	156	140	121	99.5	78.0	58.7		
50	69.0	91.6	115	138	157	173	184	190	191	187	178	165	148	127	103	79.5	58.5		
55	69.0	93.4	119	143	164	181	192	199	200	196	187	173	154	131	106	80.1	57.6		
60	68.1	94.0	121	147	170	187	200	207	208	204	194	179	159	134	107	79.9	56.1		
65	66.6	93.9	123	150	173	193	206	214	215	210	199	184	162	136	107	79.1	54.2		
70	64.8	93.0	123	151	176	196	210	218	220	215	204	187	164	137	107	77.6	52.1		
75	62.4	91.3	122	152	177	198	213	221	223	218	206	189	165	137	106	75.6	49.6		
80	59.6	88.8	120	151	177	199	213	223	224	219	207	189	165	136	104	73.0	46.8		
85	56.4	86.0	118	149	175	198	212	222	223	218	206	188	163	134	102	70.3	43.8		
90	53.3	82.6	115	145	172	195	209	219	220	215	203	185	160	130	98.3	67.2	41.3		
95	50.4	79.4	111	142	168	190	205	214	216	211	198	181	156	126	94.8	64.3	39.1		
100	44.1	72.2	104	135	162	184	199	208	210	204	192	174	149	120	88.5	58.0	34.4		
105	35.5	61.2	92.9	124	150	173	188	198	199	194	181	163	138	109	78.4	48.9	28.1		
110	27.0	47.8	78.3	109	135	158	173	183	184	179	166	148	124	95.5	65.7	38.1	21.8		
115	21.2	34.1	61.5	90.6	117	139	154	164	166	161	148	130	106	79.1	51.2	27.2	17.4		
120	18.5	23.2	43.8	70.4	95.3	117	132	142	143	139	126	109	86.0	60.8	36.4	19.1	15.2		
125	15.8	18.2	27.3	49.2	72.5	93.0	107	117	118	114	102	86.0	64.4	42.0	22.7	15.2	13.3		
130	13.4	13.7	15.6	28.7	48.8	67.4	81.0	89.4	90.8	87.2	76.8	61.7	42.6	24.2	13.1	11.9	11.6		
135	11.3	10.4	9.95	12.2	26.0	41.5	53.4	60.9	62.5	59.2	50.2	37.3	22.1	10.1	8.24	9.49	10.2		
140	9.75	8.33	6.31	4.93	8.02	17.7	26.9	33.1	34.5	31.9	24.8	15.4	6.35	3.83	5.13	8.02	9.59		
145	8.79	7.35	5.19	2.25	1.43	2.11	5.77	9.55	10.6	9.00	4.95	1.48	1.26	1.65	4.81	7.53	9.79		
150	9.34	7.32	5.43	3.14	1.24	0.77	0.77	0.73	0.76	0.72	0.72	0.76	1.27	2.28	5.73	7.56	11.3		
155	9.01	7.51	5.79	4.30	2.73	1.48	0.80	0.73	0.75	0.72	0.76	1.74	2.58	4.10	5.97	7.65	11.0		
160	9.75	7.36	6.02	4.79	3.76	2.96	1.69	0.76	0.69	0.89	1.97	3.02	3.77	4.80	5.99	7.53	11.7		
165	6.55	5.84	5.51	4.80	3.88	2.39	0.92	1.31	1.58	1.02	1.27	2.49	3.85	4.63	5.39	6.95	8.86		
170	4.00	3.46	3.67	3.35	2.26	1.12	0.74	0.74	0.73	0.73	0.72	1.28	2.35	3.50	4.37	4.99	5.85		
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00		

C Range: 0 - 360DEG

C Interval: 10.0DEG

Test Speed: MEDIUM

Temperature:25.3°C

Operators:

Test Date:04 January 2023

γ Range: 0 - 170DEG

γ Interval: 2.5DEG

Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.456

Humidity:65.0%

Test Distance:6.340m [K=1.0000]

Remarks: