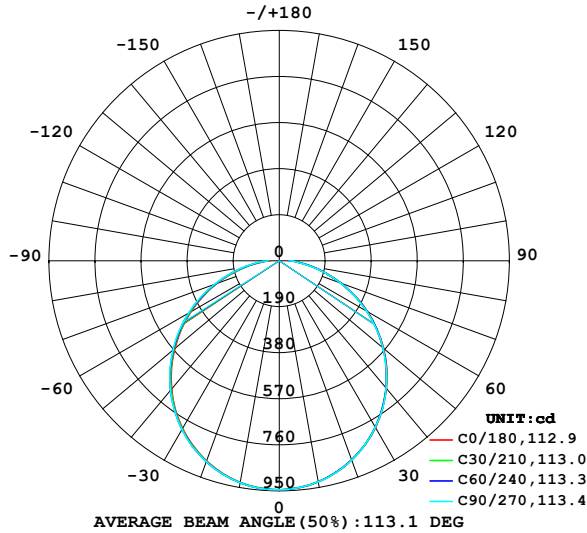


LUMINAIRE PHOTOMETRIC TEST REPORT

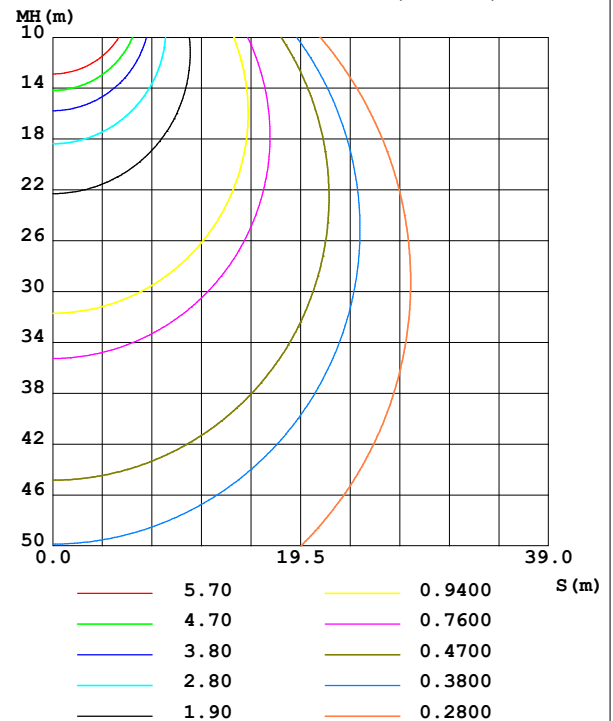
NAME: 95EL401536W/GR	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F380 x 55	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	95EL401536W/GR	I _{max} (cd)	945.0	S/MH (C0/180)	1.26
NOMINAL POWER (W)	36	LOR (%)	96.6	S/MH (C90/270)	1.26
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	2781.9	η UP, DN (C0-180)	0.0, 47.9
NOMINAL FLUX (lm)	2880	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 48.7
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	230	η down (%)	96.6	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 01 February 2023

γ Range: 0 - 90DEG
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:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	926.7	926.2	926.4	927.6	929.0	929.8	930.0	928.5	0- 10	89.40	89.40	3.21,3.1
20	875.4	874.8	875.1	877.1	879.3	881.1	882.1	879.0	10- 20	256.0	345.4	12.4,12
30	794.3	793.5	793.7	795.6	798.5	801.7	803.9	799.7	20- 30	387.7	733.1	26.4,25.5
40	688.1	686.8	686.6	688.1	691.2	695.5	699.2	694.6	30- 40	467.5	1201	43.2,41.7
50	561.7	559.9	558.9	559.9	563.1	568.3	573.2	568.8	40- 50	485.9	1686	60.6,58.6
60	421.2	418.8	416.9	417.6	421.2	426.8	432.5	428.4	50- 60	442.4	2129	76.5,73.9
70	274.1	271.5	268.9	269.5	273.1	278.6	284.3	280.7	60- 70	345.7	2474	88.9,85.9
80	136.5	134.9	132.0	131.7	134.1	138.5	144.1	141.7	70- 80	215.2	2690	96.7,93.4
90	41.79	40.82	39.61	38.23	39.19	42.62	45.53	44.35	80- 90	92.26	2782	100,96.6
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): 1445.2 lm

%lum = 51.9%

%lamp = 50.2%

Conical surface Flux(130deg): 2316.5 lm

%lum = 83.3%

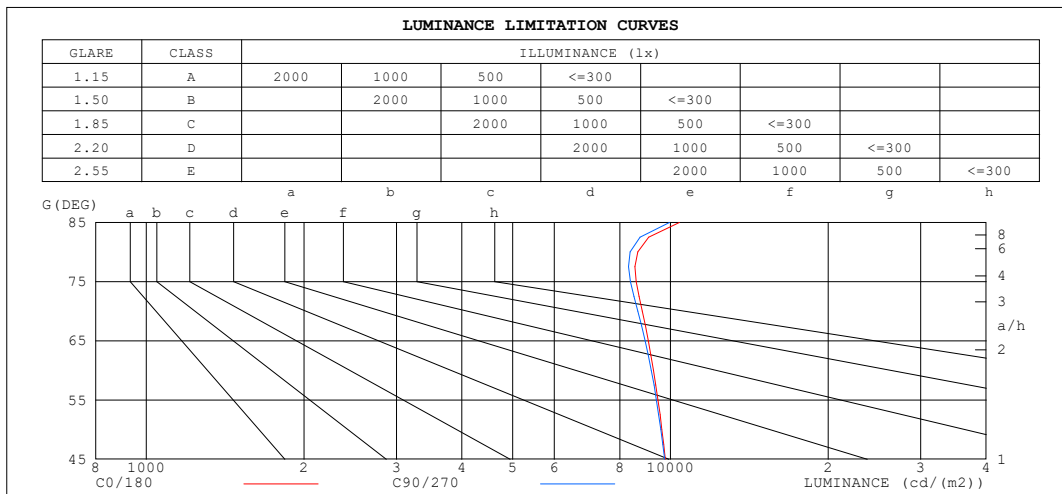
%lamp = 80.4%

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:01 February 2023

γ Range: 0 - 90DEG
 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:

LUMINANCE LIMITATION CURVES

NAME: 95EL401536W/GR	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F380 x 55	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	10402	9955
80	8658	8378
75	8599	8381
70	8831	8666
65	9070	8948
60	9281	9189
55	9467	9400
50	9628	9582
45	9771	9739

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date: 01 February 2023

γ Range: 0 - 90DEG
 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:

```

γ Range: 0 - 90DEG
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: 95EL401536W/GR	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F380 x 55	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	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	.317	.181	.057	.311	.177	.056	.298	.171	.055	.286	.165	.053	.275	.159	.051	
2.0	.292	.160	.049	.286	.158	.049	.275	.153	.047	.264	.148	.046	.255	.144	.045	
3.0	.268	.143	.043	.262	.141	.042	.252	.137	.042	.243	.133	.041	.234	.130	.040	
4.0	.246	.128	.038	.241	.126	.037	.232	.123	.037	.224	.120	.036	.216	.117	.036	
5.0	.226	.115	.033	.222	.114	.033	.214	.111	.033	.207	.109	.032	.200	.107	.032	
6.0	.209	.105	.030	.206	.104	.030	.198	.102	.030	.192	.100	.029	.186	.098	.029	
7.0	.194	.096	.027	.191	.095	.027	.185	.093	.027	.179	.092	.027	.173	.090	.026	
8.0	.181	.089	.025	.178	.088	.025	.173	.086	.025	.167	.085	.024	.162	.083	.024	
9.0	.170	.082	.023	.167	.081	.023	.162	.080	.023	.157	.079	.023	.153	.078	.022	
10.0	.159	.076	.021	.157	.076	.021	.152	.075	.021	.148	.074	.021	.144	.072	.021	

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	.184	.184	.184	.157	.157	.157	.107	.107	.107	.062	.062	.062	.020	.020	.020	
1.0	.175	.151	.128	.150	.129	.110	.103	.089	.076	.059	.051	.044	.019	.017	.014	
2.0	.168	.127	.093	.144	.110	.081	.098	.076	.056	.057	.044	.033	.018	.014	.011	
3.0	.160	.110	.071	.137	.095	.061	.094	.066	.043	.054	.039	.025	.018	.013	.008	
4.0	.153	.098	.056	.131	.084	.048	.090	.059	.034	.052	.034	.020	.017	.011	.007	
5.0	.145	.088	.045	.125	.076	.039	.086	.053	.028	.050	.031	.016	.016	.010	.005	
6.0	.138	.080	.037	.119	.069	.033	.082	.048	.023	.048	.028	.014	.015	.009	.005	
7.0	.132	.073	.032	.113	.063	.028	.078	.044	.020	.045	.026	.012	.015	.009	.004	
8.0	.125	.067	.027	.108	.058	.024	.075	.041	.017	.043	.024	.010	.014	.008	.003	
9.0	.119	.063	.024	.103	.054	.021	.071	.038	.015	.042	.023	.009	.013	.007	.003	
10.0	.114	.058	.022	.098	.051	.019	.068	.036	.013	.040	.021	.008	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:01 February 2023

γ Range: 0 - 90DEG
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: 95EL401536W/GR					TYPE:			WEIGHT: 1			
SPEC.:					DIM.: F380 x 55			SERIAL No.: 0			
MFR.: Elmark Industries JSC					SUR.: round			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	16.9	18.5	17.2	18.7	18.9	16.9	18.5	17.2	18.7	18.9
	3H	18.6	20.0	18.9	20.2	20.5	18.5	19.9	18.8	20.2	20.4
	4H	19.3	20.6	19.6	20.9	21.1	19.2	20.5	19.5	20.8	21.1
	6H	19.8	21.1	20.2	21.4	21.7	19.7	21.0	20.1	21.3	21.6
	8H	20.1	21.3	20.4	21.6	21.9	20.0	21.2	20.3	21.5	21.8
	12H	20.3	21.5	20.7	21.8	22.1	20.2	21.4	20.5	21.7	22.0
4H	2H	17.6	18.9	17.9	19.2	19.4	17.5	18.9	17.9	19.2	19.4
	3H	19.4	20.6	19.7	20.9	21.2	19.3	20.5	19.7	20.8	21.1
	4H	20.2	21.3	20.6	21.6	22.0	20.1	21.2	20.5	21.6	21.9
	6H	20.9	21.9	21.3	22.3	22.6	20.9	21.8	21.3	22.2	22.6
	8H	21.3	22.2	21.7	22.5	22.9	21.2	22.1	21.6	22.4	22.8
	12H	21.6	22.4	22.0	22.8	23.2	21.4	22.3	21.9	22.7	23.1
8H	4H	20.5	21.4	20.9	21.8	22.2	20.5	21.4	20.9	21.8	22.1
	6H	21.4	22.2	21.9	22.6	23.0	21.4	22.1	21.8	22.5	23.0
	8H	21.9	22.6	22.3	23.0	23.4	21.8	22.5	22.2	22.9	23.3
	12H	22.3	22.9	22.8	23.3	23.8	22.2	22.8	22.7	23.2	23.7
12H	4H	20.5	21.4	21.0	21.8	22.2	20.5	21.3	20.9	21.7	22.1
	6H	21.5	22.2	22.0	22.6	23.1	21.5	22.1	21.9	22.6	23.0
	8H	22.0	22.6	22.5	23.1	23.5	21.9	22.5	22.4	23.0	23.5
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		+ 0.1 / - 0.3					+ 0.1 / - 0.3				

CIE Pub.117, 2880 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.7)
Area: 0.090746 m2

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:01 February 2023

γ Range: 0 - 90DEG
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: 95EL401536W/GR	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F380 x 55	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:

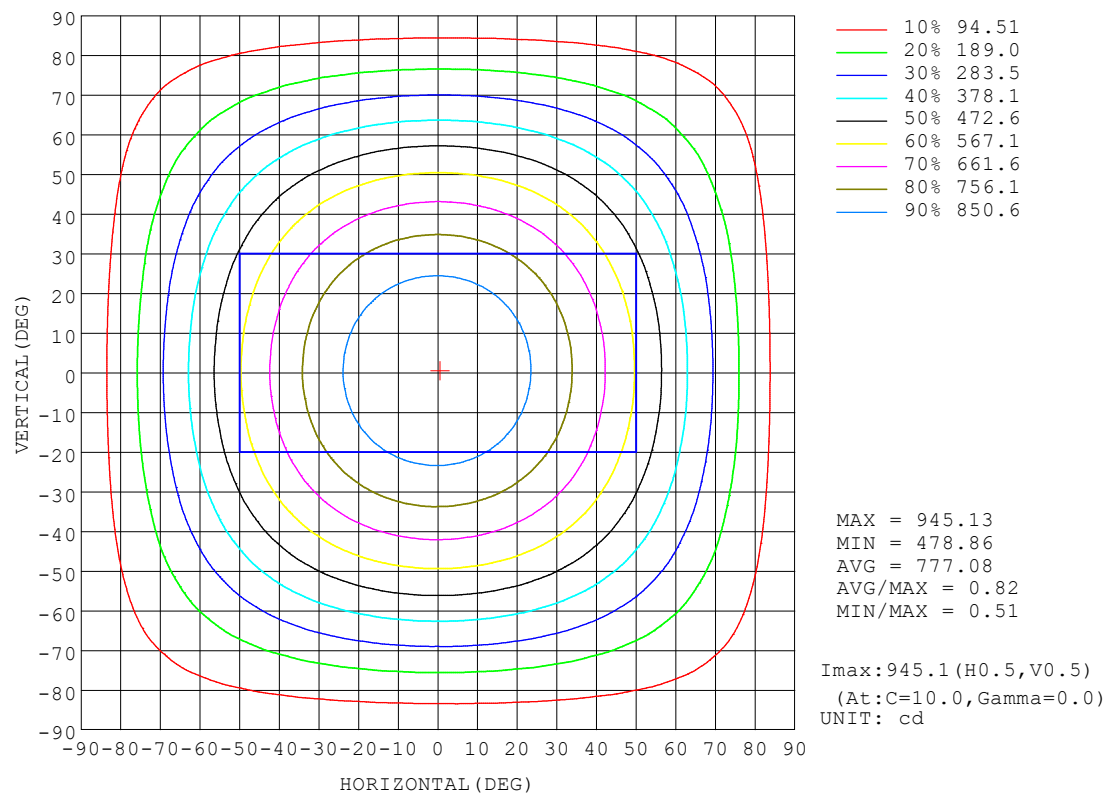
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	55	43	37	54	43	37	53	43	36	30
0.80	64	53	46	63	53	46	62	52	45	38
1.00	72	61	54	71	61	54	69	62	53	46
1.25	79	69	62	78	68	61	75	67	61	53
1.50	84	74	67	82	73	67	79	72	66	58
2.00	91	82	76	89	81	75	85	79	73	66
2.50	95	87	81	93	85	80	89	83	78	70
3.00	98	91	85	96	89	84	92	87	82	74
4.00	102	96	91	100	94	90	95	91	87	79
5.00	104	99	95	102	97	94	97	94	91	82
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:01 February 2023

γ Range: 0 - 90DEG
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:

ISOCANDELA DIAGRAM

NAME: 95EL401536W/GR	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F380 x 55	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:

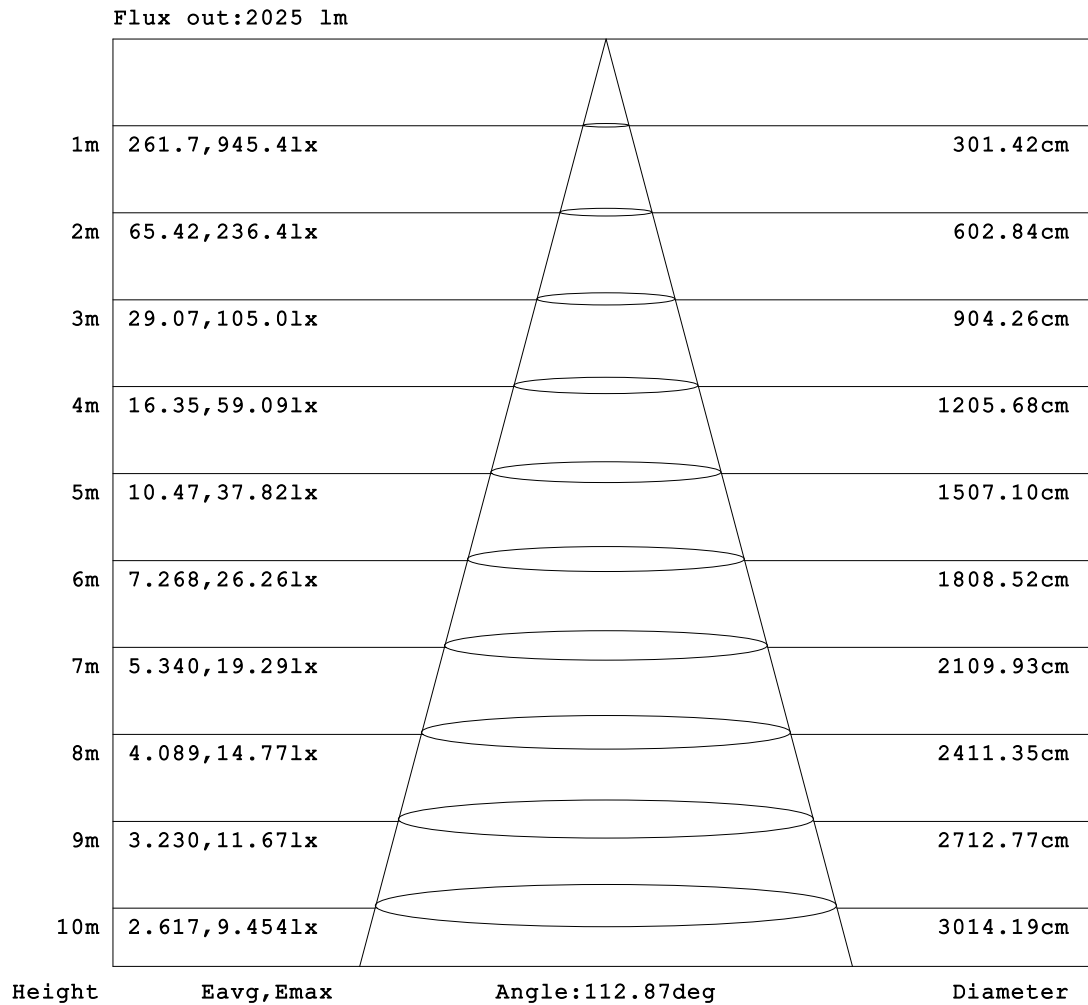


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:01 February 2023

γ Range: 0 - 90DEG
 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: 95EL401536W/GR	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F380 x 55	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:



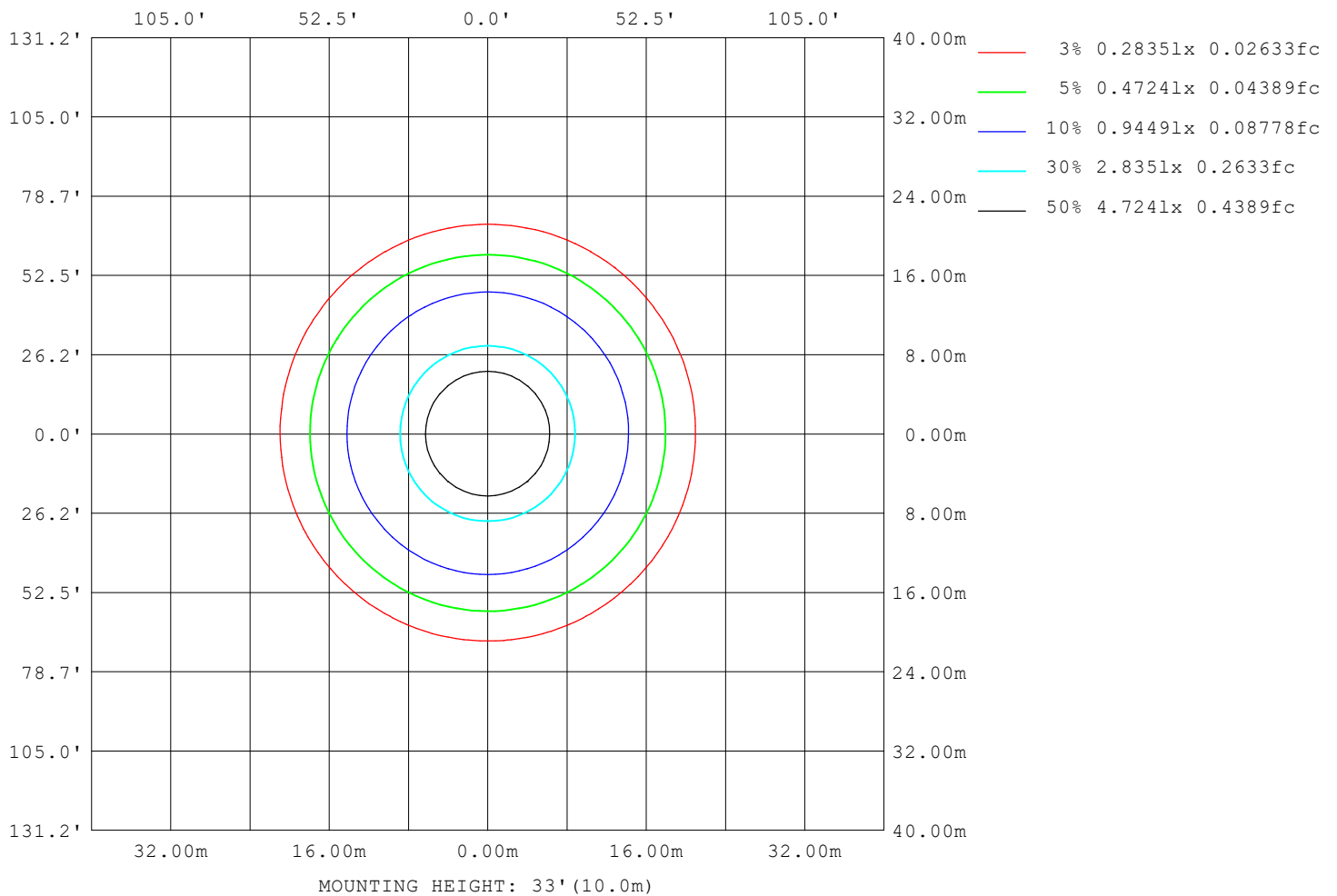
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 01 February 2023

γ Range: 0 - 90DEG
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: 95EL401536W/GR	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F380 x 55	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 01 February 2023

γ Range: 0 - 90DEG
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: 95EL401536W/GR	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F380 x 55	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:

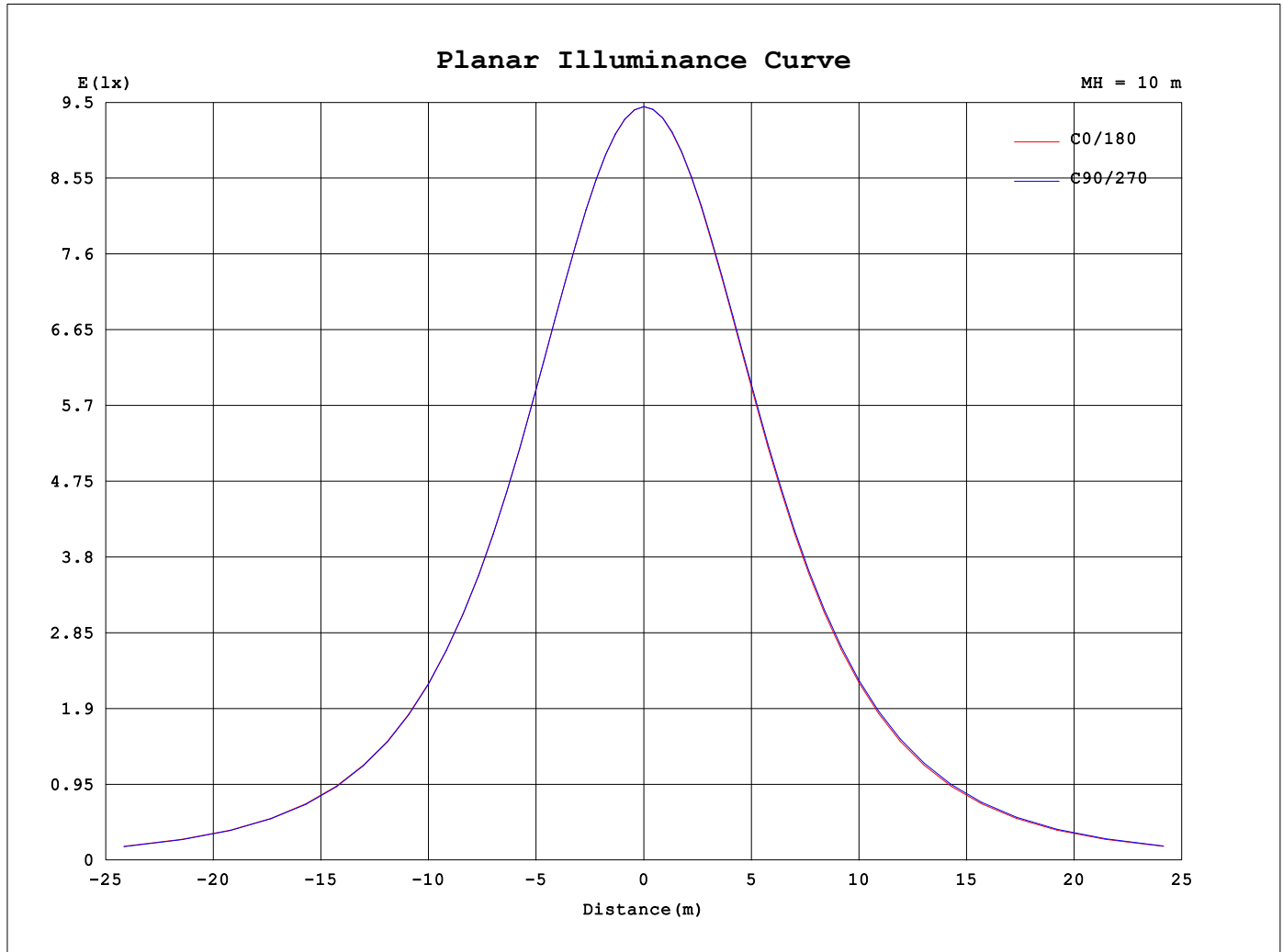
AvgL	cd/m2
L_0~180 (65) av	9065
L_0~180 (75) av	8561
L_0~180 (85) av	10208
L_90~270 (65) av	9152
L_90~270 (75) av	8682
L_90~270 (85) av	10525
L_45 (65) av	9107
L_45 (75) av	8620
L_45 (85) av	10412

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:01 February 2023

γ Range: 0 - 90DEG
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: 5.0DEG
Test Speed: HIGH
Temperature: 25.3°C
Operators:
Test Date: 01 February 2023

γ Range: 0 - 90DEG
 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:

```

γ Range: 0 - 90DEG
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:

```

```

γ Range: 0 - 90DEG
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:

```

```

γ Range: 0 - 90DEG
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:

```

```

γ Range: 0 - 90DEG
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:

```