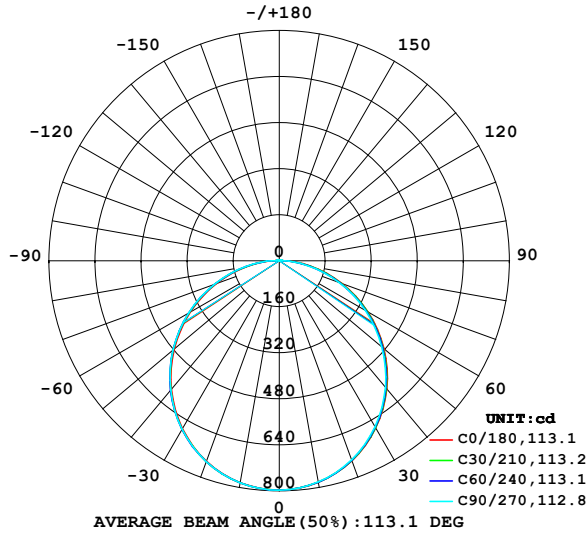


## LUMINAIRE PHOTOMETRIC TEST REPORT

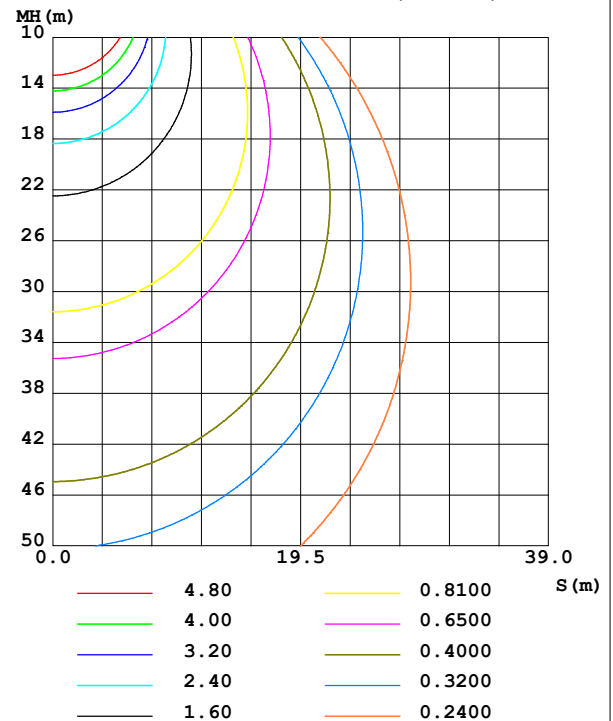
NAME: 95EL218130W/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F300 x 50	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	95EL218130W/WH	Imax (cd)	797.0	S/MH (C0/180)	1.26
NOMINAL POWER (W)	30	LOR (%)	98.6	S/MH (C90/270)	1.26
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	2365.5	$\eta$ UP, DN (C0-180)	0.7, 47.7
NOMINAL FLUX (lm)	2400	CIE CLASS	DIRECT	$\eta$ UP, DN (C180-360)	0.7, 49.4
LAMPS INSIDE	1	$\eta$ up (%)	1.4	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	230	$\eta$ down (%)	97.1	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: 03 February 2023

$\gamma$  Range: 0 - 130DEG  
 $\gamma$  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	781.8	781.4	780.4	780.6	783.0	783.6	783.6	783.6	0- 10	75.36	75.36	3.19,3.14
20	739.3	738.3	736.4	736.2	741.2	742.5	742.8	742.8	10- 20	215.8	291.1	12.3,12.1
30	671.0	669.5	666.1	665.7	673.4	675.6	676.1	676.4	20- 30	326.7	617.8	26.1,25.7
40	581.4	578.8	574.0	573.1	583.5	586.9	587.4	588.2	30- 40	393.6	1011	42.8,42.1
50	474.8	471.2	465.4	463.8	476.3	480.8	481.7	483.4	40- 50	408.8	1420	60,59.2
60	356.1	351.8	345.7	343.2	357.1	362.1	364.1	366.8	50- 60	372.2	1792	75.8,74.7
70	231.8	227.4	221.6	218.2	232.4	237.4	239.9	243.7	60- 70	290.9	2083	88.1,86.8
80	111.2	107.5	102.4	98.68	111.9	116.1	119.0	123.2	70- 80	180.1	2263	95.7,94.3
90	23.39	21.06	19.87	18.34	23.35	25.66	27.70	30.76	80- 90	68.01	2331	98.6,97.1
100	9.895	8.250	9.489	10.73	10.73	10.37	10.32	8.609	90-100	13.86	2345	99.1,97.7
110	5.214	3.651	7.654	8.861	9.739	6.815	8.190	4.060	100-110	8.516	2354	99.5,98.1
120	5.405	4.659	5.449	7.338	7.268	4.769	5.824	5.466	110-120	6.041	2360	99.8,98.3
130	5.990	4.989	5.707	6.223	6.293	5.160	5.696	5.969	120-130	5.082	2365	100,98.5
140	0	0	0	0	0	0	0	0	130-140	0.5907	2365	100,98.6
150	0	0	0	0	0	0	0	0	140-150	0	2365	100,98.6
160	0	0	0	0	0	0	0	0	150-160	0	2365	100,98.6
170	0	0	0	0	0	0	0	0	160-170	0	2365	100,98.6
180	0	0	0	0	0	0	0	0	170-180	0	2365	100,98.6
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 1217.2 lm

%lum = 51.5%

%lamp = 50.7%

Conical surface Flux(130deg): 1950.3 lm

%lum = 82.4%

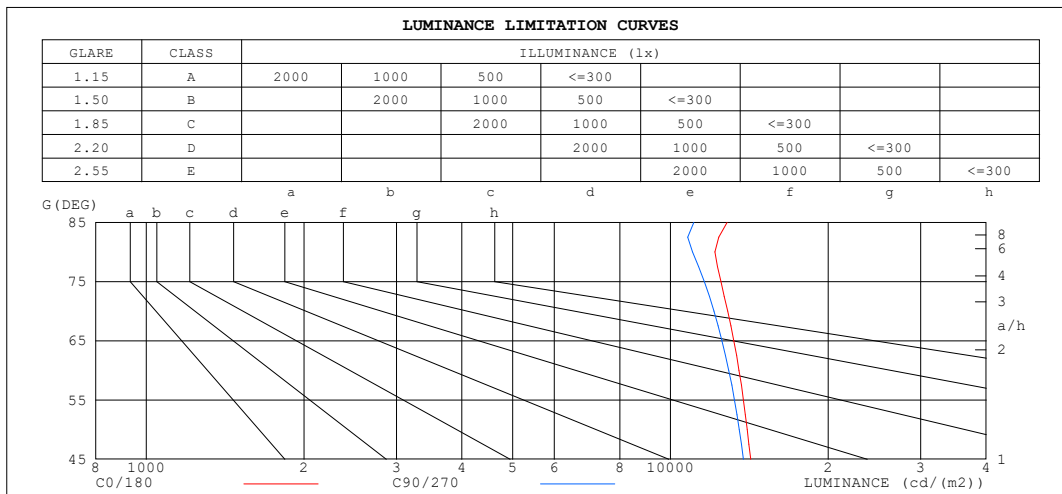
%lamp = 81.3%

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:  
 Test Date:03 February 2023

$\gamma$  Range: 0 - 130DEG  
 $\gamma$  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: 95EL218130W/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F300 x 50	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	12822	11080
80	12152	11018
75	12479	11605
70	12857	12104
65	13207	12539
60	13510	12914
55	13777	13242
50	14013	13523
45	14216	13773

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3°C  
 Operators:  
 Test Date: 03 February 2023

γ Range: 0 - 130DEG  
 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 - 130DEG
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: 95EL218130W/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F300 x 50	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	.319	.181	.057	.311	.178	.056	.298	.171	.055	.285	.164	.053	.273	.158	.051	
2.0	.295	.162	.050	.289	.159	.049	.276	.154	.048	.265	.149	.047	.255	.144	.045	
3.0	.271	.144	.043	.265	.142	.043	.254	.138	.042	.244	.134	.041	.235	.130	.040	
4.0	.249	.129	.038	.244	.128	.038	.234	.124	.037	.225	.121	.036	.217	.118	.036	
5.0	.230	.117	.034	.225	.116	.034	.216	.113	.033	.208	.110	.033	.201	.107	.032	
6.0	.212	.107	.030	.208	.105	.030	.201	.103	.030	.193	.100	.030	.187	.098	.029	
7.0	.197	.098	.028	.194	.097	.028	.187	.094	.027	.180	.092	.027	.174	.090	.027	
8.0	.184	.090	.025	.181	.089	.025	.175	.087	.025	.169	.085	.025	.163	.084	.024	
9.0	.172	.083	.023	.169	.083	.023	.164	.081	.023	.159	.079	.023	.154	.078	.023	
10.0	.162	.078	.022	.159	.077	.021	.154	.076	.021	.149	.074	.021	.145	.073	.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	.199	.199	.199	.170	.170	.170	.116	.116	.116	.067	.067	.067	.021	.021	.021	
1.0	.190	.165	.142	.162	.141	.122	.111	.097	.085	.064	.056	.049	.020	.018	.016	
2.0	.182	.141	.107	.156	.121	.092	.107	.084	.064	.062	.049	.038	.020	.016	.012	
3.0	.174	.124	.084	.149	.107	.072	.102	.074	.051	.059	.043	.030	.019	.014	.010	
4.0	.167	.111	.068	.143	.096	.059	.098	.067	.042	.057	.039	.025	.018	.013	.008	
5.0	.159	.101	.057	.137	.087	.050	.094	.061	.035	.055	.036	.021	.018	.012	.007	
6.0	.152	.092	.049	.131	.080	.043	.090	.056	.030	.052	.033	.018	.017	.011	.006	
7.0	.145	.086	.044	.125	.074	.038	.086	.052	.027	.050	.031	.016	.016	.010	.005	
8.0	.139	.080	.039	.119	.069	.034	.083	.049	.024	.048	.029	.015	.016	.009	.005	
9.0	.133	.075	.036	.114	.065	.031	.079	.046	.022	.046	.027	.013	.015	.009	.004	
10.0	.127	.071	.033	.110	.061	.029	.076	.043	.021	.044	.026	.012	.014	.008	.004	

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:  
Test Date:03 February 2023

γ Range: 0 - 130DEG  
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: 95EL218130W/WH					TYPE:			WEIGHT: 1			
SPEC.:					DIM.: F300 x 50			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	18.8	20.3	19.1	20.5	20.8	18.7	20.2	18.9	20.4	20.6
	3H	20.4	21.8	20.7	22.1	22.4	20.2	21.6	20.5	21.9	22.2
	4H	21.1	22.5	21.5	22.7	23.0	20.9	22.2	21.2	22.5	22.8
	6H	21.7	22.9	22.0	23.2	23.6	21.4	22.7	21.8	23.0	23.3
	8H	21.9	23.1	22.3	23.4	23.7	21.6	22.8	21.9	23.1	23.4
	12H	22.1	23.2	22.4	23.6	23.9	21.7	22.9	22.1	23.2	23.5
4H	2H	19.4	20.7	19.7	21.0	21.3	19.3	20.6	19.6	20.9	21.2
	3H	21.2	22.4	21.6	22.7	23.1	21.1	22.2	21.4	22.6	22.9
	4H	22.1	23.1	22.4	23.5	23.8	21.9	22.9	22.3	23.3	23.6
	6H	22.7	23.7	23.2	24.1	24.5	22.5	23.5	22.9	23.8	24.2
	8H	23.0	23.9	23.5	24.3	24.7	22.7	23.6	23.2	24.0	24.4
	12H	23.2	24.1	23.7	24.5	24.9	22.9	23.7	23.4	24.2	24.6
8H	4H	22.3	23.2	22.8	23.6	24.0	22.2	23.1	22.6	23.5	23.9
	6H	23.2	23.9	23.7	24.4	24.8	23.0	23.7	23.4	24.2	24.6
	8H	23.6	24.2	24.1	24.7	25.2	23.3	24.0	23.8	24.4	24.9
	12H	23.9	24.5	24.4	25.0	25.5	23.6	24.2	24.1	24.6	25.2
12H	4H	22.4	23.2	22.8	23.6	24.0	22.2	23.0	22.6	23.4	23.9
	6H	23.3	23.9	23.8	24.4	24.9	23.1	23.7	23.5	24.2	24.7
	8H	23.7	24.3	24.2	24.7	25.3	23.4	24.0	23.9	24.5	25.0
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 / - 0.2					+ 0.1 / - 0.3				

CIE Pub.117, 2400 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.0)  
Area: 0.05345 m2

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:  
Test Date:03 February 2023

γ Range: 0 - 130DEG  
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: 95EL218130W/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F300 x 50	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:

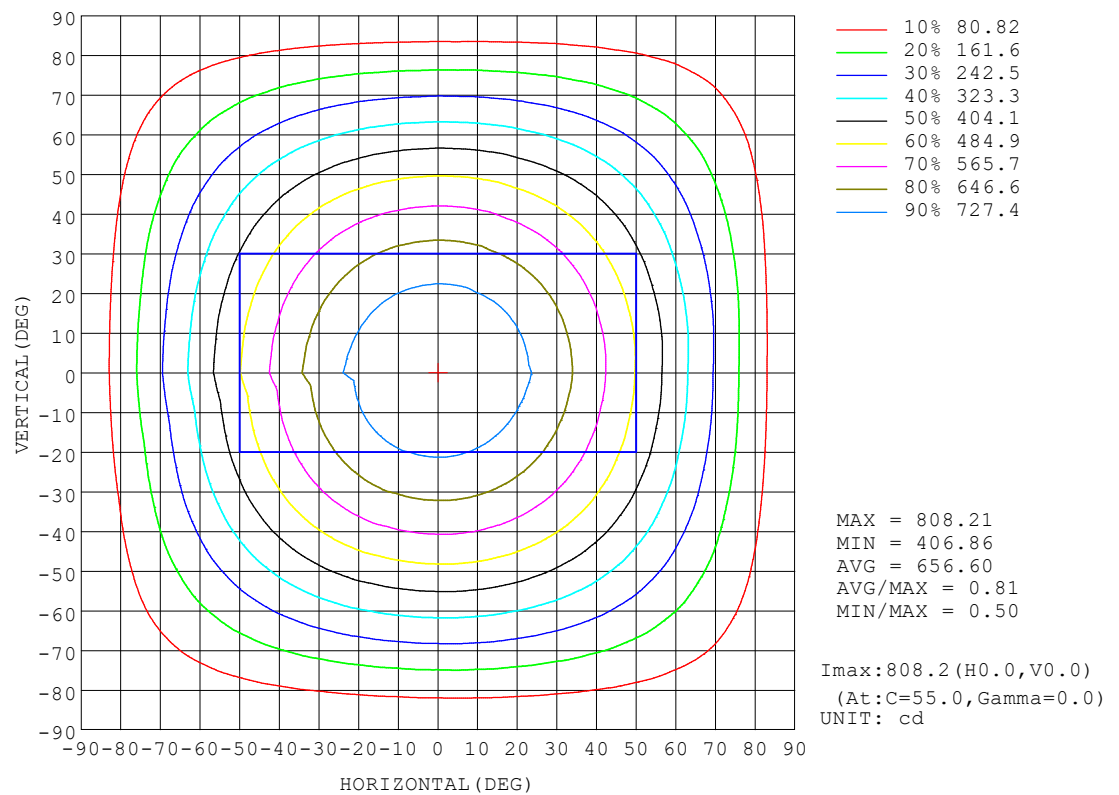
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	56	44	37	55	44	37	54	43	37	30
0.80	65	54	46	64	53	46	62	52	46	39
1.00	74	62	55	72	62	55	70	63	54	47
1.25	81	70	63	79	69	62	76	68	61	54
1.50	85	75	68	84	74	68	81	73	67	59
2.00	92	83	77	90	82	76	87	80	74	66
2.50	96	88	82	94	87	81	90	84	79	70
3.00	100	92	87	97	91	86	93	88	83	75
4.00	104	98	93	101	96	91	97	92	89	79
5.00	106	101	97	104	99	95	99	95	92	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: 03 February 2023

γ Range: 0 - 130DEG  
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: 95EL218130W/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F300 x 50	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:



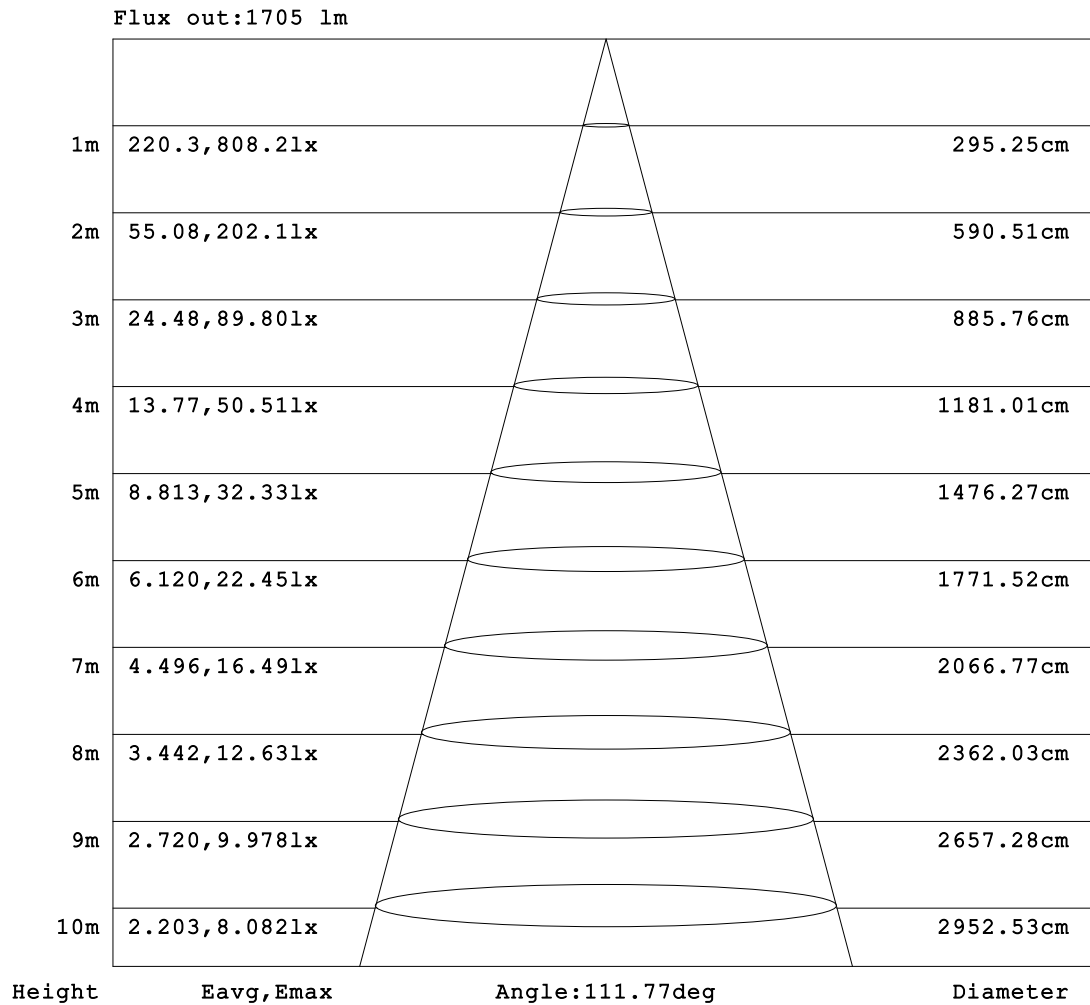
C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:  
 Test Date:03 February 2023

γ Range: 0 - 130DEG  
 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: 95EL218130W/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F300 x 50	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:



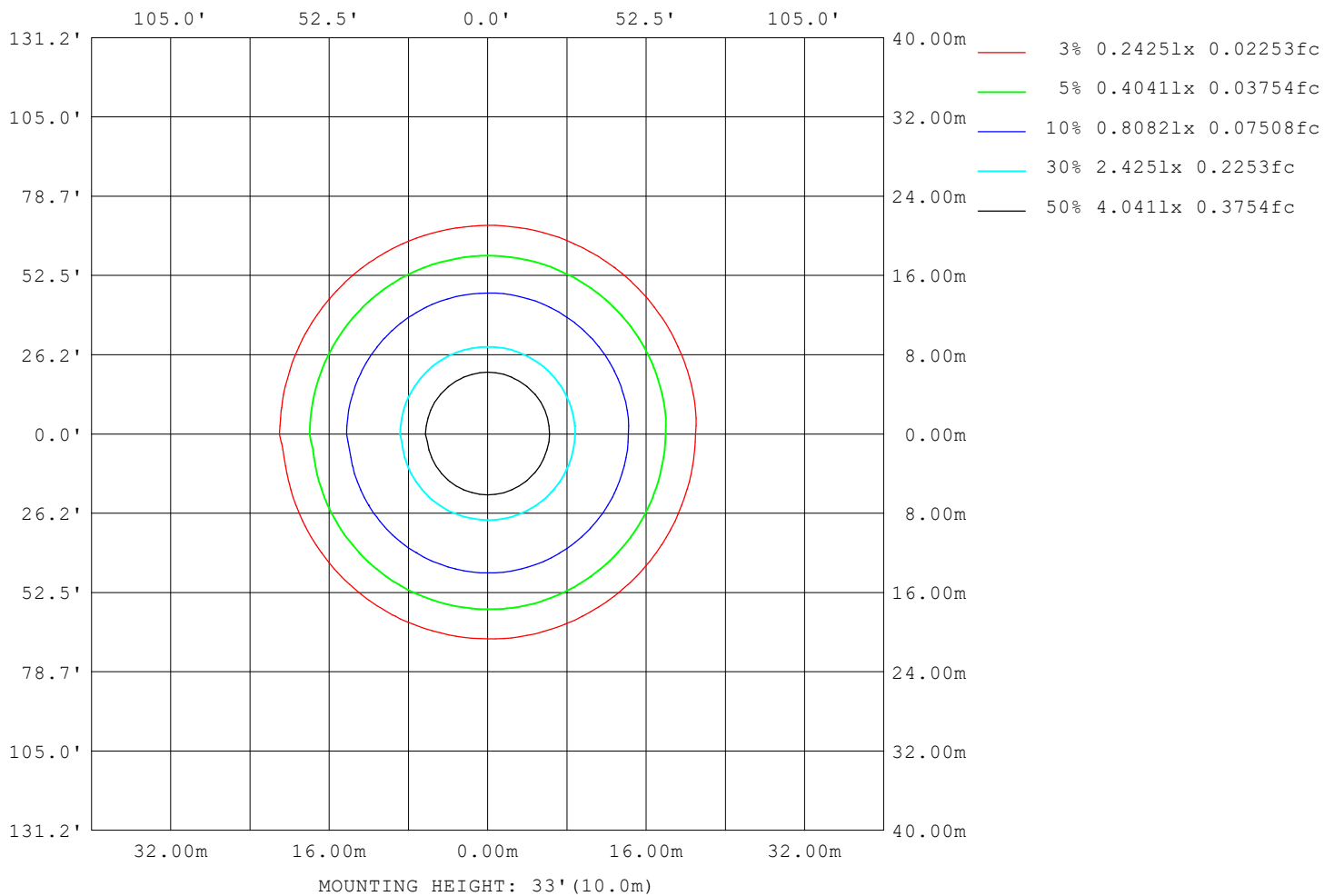
**Note:**The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 5.0DEG  
 Test Speed: HIGH  
 Temperature:25.3°C  
 Operators:  
 Test Date:03 February 2023

γ Range: 0 - 130DEG  
 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: 95EL218130W/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F300 x 50	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: 03 February 2023

γ Range: 0 - 130DEG  
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: 95EL218130W/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F300 x 50	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:

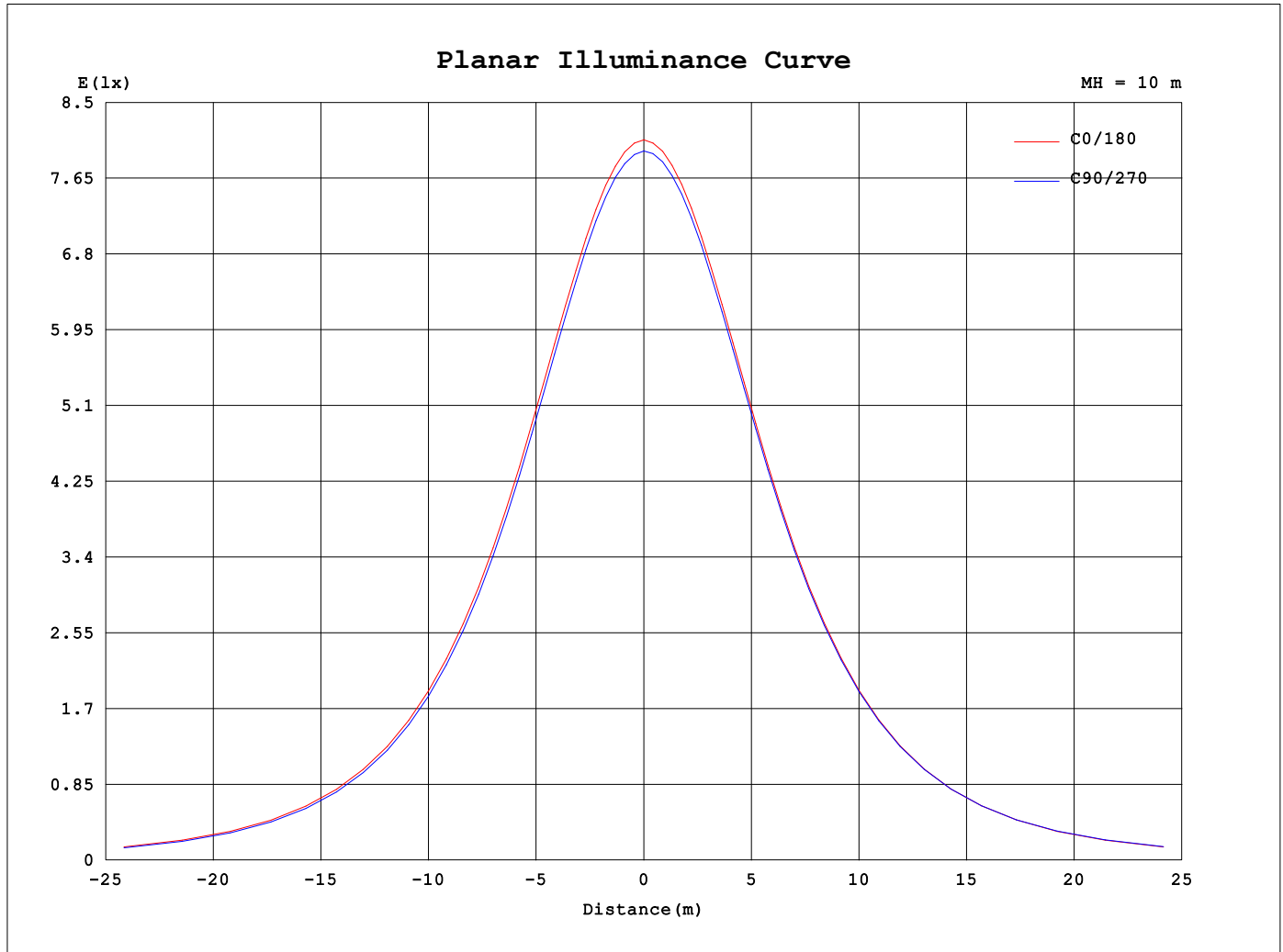
AvgL	cd/m2
L_0~180 (65) av	13041
L_0~180 (75) av	12341
L_0~180 (85) av	12600
L_90~270 (65) av	12970
L_90~270 (75) av	12258
L_90~270 (85) av	12596
L_45 (65) av	13015
L_45 (75) av	12321
L_45 (85) av	12713

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 5.0DEG  
Test Speed: HIGH  
Temperature:25.3°C  
Operators:  
Test Date:03 February 2023

γ Range: 0 - 130DEG  
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: 03 February 2023

$\gamma$  Range: 0 - 130DEG  
 $\gamma$  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: 95EL218130W/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F300 x 50	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90
0	797	797	797	797	797	797	797	797	797	797	797	797	797	797	797	797	797	797	797
5	793	793	793	793	792	793	793	792	792	792	792	792	792	792	792	792	792	792	792
10	782	782	782	782	781	782	781	781	781	781	781	781	781	781	781	781	781	781	780
15	764	764	764	764	763	764	763	763	763	763	763	763	763	763	763	762	762	763	762
20	739	740	739	739	739	739	739	739	738	738	738	738	738	738	737	737	737	737	736
25	708	709	708	708	708	708	707	707	707	707	706	707	706	706	706	706	705	705	704
30	671	672	671	671	670	671	670	670	669	670	669	669	668	668	668	668	667	667	666
35	629	629	628	629	628	628	627	627	626	627	626	626	625	625	624	625	624	624	622
40	581	582	581	582	580	581	580	580	579	579	578	578	577	577	576	576	576	576	574
45	530	531	529	530	528	529	527	528	526	527	526	526	525	525	524	524	523	523	521
50	475	476	474	475	473	474	472	472	471	471	470	470	469	469	468	468	467	467	465
55	417	418	416	416	415	415	414	414	412	413	411	411	410	410	409	410	408	408	407
60	356	357	355	356	354	354	353	353	352	352	350	351	349	349	348	349	348	347	346
65	294	295	293	294	292	292	291	291	290	290	288	289	287	287	286	287	286	285	284
70	232	233	231	231	230	230	228	229	227	227	226	226	225	225	224	225	223	223	222
75	170	171	169	170	168	169	167	168	166	167	165	165	164	165	163	164	162	163	161
80	111	112	110	111	109	110	108	109	107	108	106	106	105	106	104	105	104	104	102
85	58.9	59.1	58.0	58.1	57.2	57.3	56.3	56.3	55.4	55.5	54.5	54.6	53.8	53.9	53.2	53.5	52.8	52.7	51.7
90	23.4	23.4	22.8	22.7	22.1	22.1	21.5	21.5	21.0	21.1	20.6	20.7	20.3	20.5	20.3	20.5	20.3	20.3	19.9
95	10.1	9.95	9.83	9.70	9.63	9.54	9.50	9.44	9.45	9.43	9.47	9.45	9.51	9.48	9.56	9.59	9.70	9.76	9.91
100	9.90	9.80	9.55	9.04	8.35	7.99	7.97	8.35	8.37	8.25	8.24	8.30	8.20	8.08	8.39	8.74	8.98	9.31	9.49
105	7.71	7.59	7.23	6.80	6.31	6.09	5.87	5.79	5.69	5.88	5.95	6.08	6.30	6.76	7.22	7.56	7.96	8.46	8.60
110	5.21	5.15	5.10	4.77	4.52	4.23	3.88	3.49	3.42	3.65	4.17	4.87	5.67	6.23	6.44	6.71	7.12	7.55	7.65
115	4.80	4.79	4.74	4.51	4.09	3.83	3.76	3.88	4.04	4.26	4.47	4.63	4.67	4.74	5.03	5.50	5.82	6.30	6.40
120	5.40	5.39	5.30	5.14	4.94	4.92	4.79	4.81	4.69	4.66	4.55	4.52	4.51	4.66	4.85	5.12	5.20	5.37	5.45
125	5.88	5.83	5.64	5.57	5.50	5.40	5.25	5.03	4.92	4.97	4.88	4.97	5.05	5.10	5.16	5.28	5.44	5.48	5.48
130	5.99	5.96	5.87	5.80	5.61	5.43	5.24	5.12	4.98	4.99	5.05	5.01	5.01	5.09	5.24	5.54	5.65	5.69	5.71
135	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
140	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
145	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
150	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
155	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
160	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
165	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
170	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
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: 5.0DEG

Test Speed: HIGH

Temperature:25.3°C

Operators:

Test Date:03 February 2023

γ Range: 0 - 130DEG

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: 95EL218130W/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F300 x 50	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	95	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	175	180	185
0	797	797	797	797	797	797	797	797	797	797	797	797	797	797	797	797	797	797	797
5	792	792	792	792	793	793	792	792	792	792	792	792	792	792	792	792	792	793	793
10	781	780	780	780	781	781	781	781	781	780	780	780	780	780	780	780	780	783	783
15	762	762	762	761	763	762	762	762	762	762	762	761	762	761	761	761	762	765	765
20	737	736	736	735	737	737	737	736	736	736	736	736	736	735	736	735	736	741	741
25	704	704	704	703	705	704	705	704	704	704	704	703	704	703	704	703	704	710	710
30	666	665	665	664	667	666	666	665	666	665	666	665	666	665	666	665	666	673	673
35	622	622	622	620	623	622	622	621	622	621	622	621	622	621	622	622	622	631	630
40	574	573	573	572	574	573	574	573	573	573	573	573	573	573	574	573	574	584	583
45	521	520	520	519	521	520	521	520	520	520	520	520	521	520	521	521	522	532	531
50	465	464	464	463	465	464	464	463	464	463	464	463	464	464	465	465	466	476	476
55	406	405	405	404	405	404	405	404	405	404	405	404	405	405	406	406	407	418	417
60	346	344	344	343	344	343	343	343	343	342	343	343	344	344	345	344	346	357	357
65	284	282	282	281	281	280	281	280	281	280	281	281	282	281	282	282	284	295	295
70	222	220	220	219	219	218	218	217	218	218	218	218	219	219	220	220	221	232	232
75	161	159	159	158	158	157	157	156	157	156	158	157	158	157	159	159	160	171	170
80	103	101	101	99.4	99.3	98.0	98.8	97.7	98.7	97.8	99.0	98.4	99.7	99.2	101	100	102	112	111
85	51.6	50.4	50.4	49.6	49.1	48.5	48.9	48.5	48.9	48.7	49.3	49.2	49.9	49.9	50.8	50.8	51.8	58.5	58.5
90	19.9	19.3	19.3	18.9	18.6	18.3	18.4	18.1	18.3	18.2	18.5	18.4	18.7	18.7	19.1	19.1	19.6	23.4	23.4
95	9.96	10.1	10.2	10.3	10.6	10.7	10.7	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.7
100	9.59	9.77	9.71	9.93	10.5	10.6	10.7	10.7	10.7	10.8	10.8	10.8	10.8	10.8	10.7	10.7	10.5	10.7	10.7
105	8.60	8.63	8.46	8.55	9.52	9.68	9.84	9.97	10.1	10.1	10.1	10.0	9.91	9.78	9.77	9.89	10.2	10.4	10.3
110	7.69	7.93	7.62	7.53	8.69	8.79	8.84	8.85	8.86	8.94	9.09	9.10	8.97	8.90	8.82	9.02	9.42	9.74	9.69
115	6.45	7.17	6.78	6.57	8.12	8.13	8.10	8.10	8.01	7.99	8.04	8.15	8.17	8.08	7.92	7.97	8.24	8.72	8.63
120	5.46	6.08	5.83	5.43	7.42	7.53	7.51	7.46	7.34	7.22	7.07	6.98	6.87	6.78	6.89	7.19	7.39	7.27	7.13
125	5.53	5.38	5.26	5.18	7.12	6.79	6.68	6.66	6.56	6.48	6.31	6.27	6.15	6.18	6.41	6.73	6.69	6.54	6.41
130	5.74	5.52	5.35	5.16	6.84	6.66	6.45	6.33	6.22	6.17	6.03	5.94	5.85	5.94	6.01	6.27	6.49	6.29	6.23
135	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
140	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
145	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
150	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
155	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
160	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
165	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
170	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
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: 5.0DEG

Test Speed: HIGH

Temperature:25.3°C

Operators:

Test Date:03 February 2023

γ Range: 0 - 130DEG

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: 95EL218130W/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F300 x 50	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:

Table--3

UNIT: cd

C (DEG) γ (DEG)	190	195	200	205	210	215	220	225	230	235	240	245	250	255	260	265	270	275	280
0	797	797	797	797	797	797	797	797	797	797	797	797	797	797	797	797	797	797	797
5	793	793	793	793	794	794	794	794	794	794	794	794	794	794	794	794	794	794	794
10	783	783	783	783	784	783	783	784	784	784	784	784	784	783	784	784	784	784	784
15	766	766	766	766	767	766	766	766	767	766	767	766	767	766	766	767	767	767	767
20	742	742	742	742	743	742	743	743	743	743	743	743	743	742	742	742	743	743	743
25	711	711	712	711	712	712	712	712	713	712	713	712	712	712	712	712	712	712	712
30	674	674	675	675	676	675	676	676	676	676	676	676	676	675	676	675	676	676	676
35	632	632	633	632	634	633	634	634	634	634	634	634	634	633	633	633	634	634	634
40	585	584	586	585	587	586	587	587	588	587	588	587	588	586	587	587	587	587	587
45	533	533	534	534	535	535	536	536	537	536	537	536	537	535	536	535	537	536	536
50	478	477	479	479	480	480	481	481	482	481	482	481	482	481	481	481	482	481	482
55	420	419	421	420	422	422	423	423	424	423	424	423	424	423	423	423	424	424	424
60	359	358	360	360	361	361	362	362	363	363	364	363	364	362	363	363	364	364	365
65	297	296	298	298	299	299	300	300	301	301	302	301	302	301	302	301	302	302	303
70	234	234	235	235	237	236	238	237	239	238	239	238	239	238	239	238	240	240	241
75	173	172	174	173	175	175	176	176	177	176	177	177	178	176	177	177	178	178	180
80	113	113	115	114	116	115	117	116	117	117	118	117	118	117	118	117	119	119	120
85	59.7	59.7	60.9	61.0	62.1	62.1	63.1	63.1	64.0	63.8	64.6	64.2	64.9	64.3	65.0	64.6	65.7	65.7	67.1
90	24.0	24.0	24.7	24.6	25.2	25.2	25.7	25.7	26.2	26.1	26.5	26.4	26.8	26.5	27.1	26.9	27.7	27.8	28.7
95	10.7	10.7	10.6	10.6	10.6	10.6	10.6	10.7	10.6	10.7	10.6	10.7	10.6	10.7	10.6	10.7	10.6	10.7	10.6
100	10.6	10.1	9.88	10.1	10.2	10.3	10.3	10.4	10.4	10.3	10.3	10.1	9.98	9.83	10.1	10.3	10.3	10.2	9.95
105	10.2	9.90	9.38	8.77	8.42	8.47	8.66	8.72	8.74	8.59	8.50	8.41	8.32	8.28	8.60	9.15	9.21	9.12	8.60
110	9.60	9.11	8.68	8.12	7.56	7.16	6.95	6.82	6.70	6.68	6.81	6.91	7.07	7.29	7.65	8.16	8.19	8.05	7.60
115	8.56	8.06	7.44	6.84	6.45	6.13	5.76	5.33	5.16	5.23	5.35	5.44	5.58	5.97	6.43	7.01	7.04	6.80	6.17
120	7.02	6.85	6.52	6.14	5.73	5.34	4.99	4.77	4.62	4.52	4.48	4.60	4.89	5.25	5.48	5.81	5.82	5.66	5.30
125	6.10	5.86	5.94	5.84	5.76	5.60	5.36	5.13	4.95	4.86	4.89	4.94	5.15	5.20	5.36	5.41	5.42	5.43	5.60
130	6.09	5.74	5.54	5.48	5.27	5.10	5.07	5.16	5.17	5.09	5.03	5.09	5.27	5.51	5.74	5.70	5.70	5.78	6.01
135	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
140	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
145	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
150	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
155	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
160	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
165	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
170	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
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: 5.0DEG

Test Speed: HIGH

Temperature:25.3°C

Operators:

Test Date:03 February 2023

γ Range: 0 - 130DEG

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: 95EL218130W/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: F300 x 50	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: round	Shielding Angle:

Table--4

UNIT: cd

C (DEG) γ (DEG)	285	290	295	300	305	310	315	320	325	330	335	340	345	350	355				
0	797	797	797	797	797	797	797	797	797	797	797	797	797	797	797				
5	794	794	793	794	794	794	794	794	794	794	794	794	794	794	794				
10	784	784	783	783	783	784	784	784	784	784	784	785	785	785	785				
15	767	767	765	766	766	767	767	767	767	768	768	768	768	768	768				
20	743	743	741	742	742	743	743	744	743	744	744	745	744	745	745				
25	712	713	711	712	712	713	712	713	713	714	714	715	715	715	715				
30	676	677	674	675	675	676	676	677	677	678	678	679	679	680	679				
35	634	635	632	634	634	635	635	636	636	637	636	637	637	638	638				
40	587	588	586	587	587	588	588	589	589	590	590	591	591	592	591				
45	536	537	535	536	537	538	538	539	539	540	540	541	540	541	540				
50	482	483	481	482	482	484	483	485	484	486	485	486	486	486	486				
55	424	426	424	425	425	426	426	427	427	428	428	429	428	429	428				
60	365	366	364	366	366	367	367	368	367	369	368	369	368	369	368				
65	303	305	303	305	305	306	306	307	306	307	306	307	306	307	306				
70	241	242	242	243	243	244	244	245	244	245	244	245	244	244	243				
75	179	181	181	182	182	183	182	183	183	184	182	183	182	182	181				
80	120	122	122	123	123	124	123	124	123	124	123	124	122	123	121				
85	67.1	68.1	68.7	69.7	69.3	70.0	69.5	70.1	69.4	69.8	68.9	69.1	68.0	68.1	67.0				
90	28.7	29.4	30.1	30.7	30.6	31.0	30.8	31.1	30.7	30.8	30.3	30.3	29.6	29.5	28.7				
95	10.7	10.7	10.7	10.8	10.7	10.7	10.6	10.5	10.3	10.3	10.1	10.0	9.90	9.82	9.75				
100	9.67	9.36	8.50	8.54	8.50	8.58	8.61	8.51	8.20	8.22	8.53	9.11	9.47	9.58	9.60				
105	8.16	7.74	5.30	4.72	4.30	4.15	4.29	4.78	5.38	6.13	6.48	6.96	7.37	7.61	7.66				
110	7.16	6.80	4.44	4.24	3.94	3.70	4.06	4.23	3.93	3.82	4.26	4.70	5.04	5.22	5.39				
115	5.77	5.23	4.99	4.91	5.02	4.88	4.38	4.09	4.39	4.92	4.79	4.70	4.81	4.85	4.90				
120	5.19	4.88	5.57	5.31	5.07	5.15	5.47	5.93	6.03	5.38	5.12	4.91	4.88	5.01	4.84				
125	5.34	5.28	5.73	5.85	6.00	6.22	6.21	5.77	5.30	4.94	4.90	5.18	5.55	5.59	5.51				
130	5.75	5.50	7.10	7.08	6.84	6.42	5.97	5.64	5.38	5.30	5.64	5.83	5.96	6.08	6.17				
135	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				
140	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				
145	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				
150	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				
155	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				
160	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				
165	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				
170	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				
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				
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				

C Range: 0 - 360DEG

C Interval: 5.0DEG

Test Speed: HIGH

Temperature:25.3°C

Operators:

Test Date:03 February 2023

γ Range: 0 - 130DEG

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: