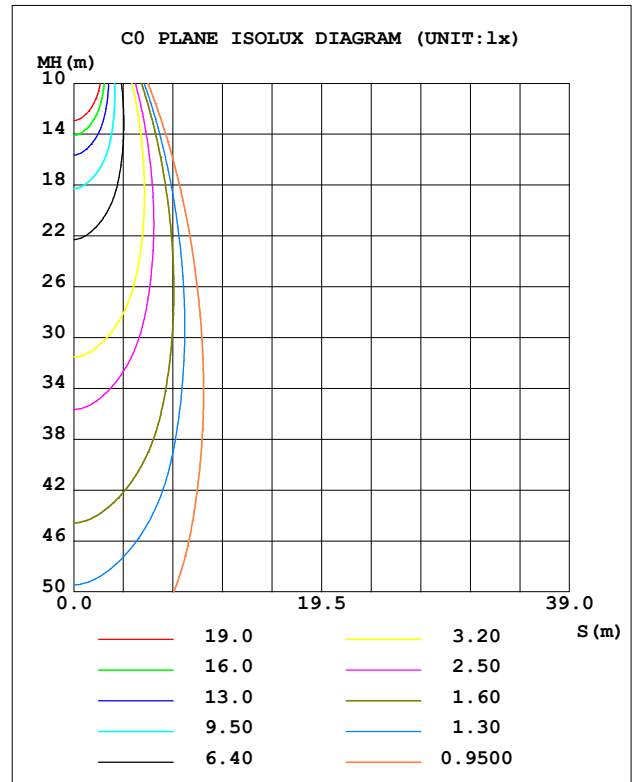
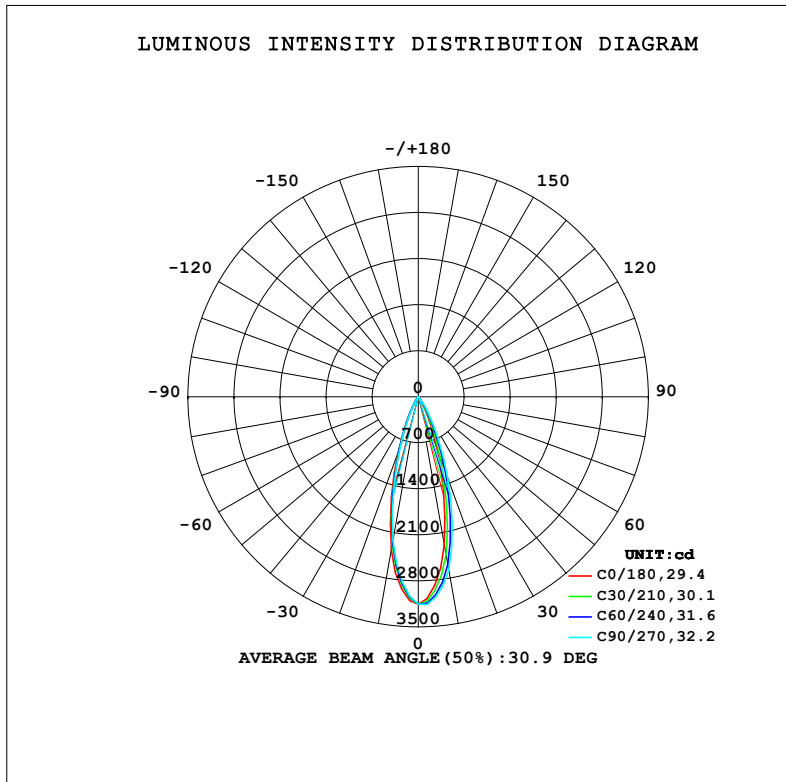


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: 92EL141040/WHBK	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 135 x 35 x 68	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangular	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	92EL141040/WHBK	I _{max} (cd)	3161	S/MH (C0/180)	0.50
NOMINAL POWER (W)	10	LOR (%)	111.4	S/MH (C90/270)	0.47
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	1002.8	η UP, DN (C0-180)	0.0, 61.8
NOMINAL FLUX (lm)	900	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 49.7
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	230	η down (%)	111.4	CIBSE SHR MAX	0.50



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 09 December 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	2291	2519	2677	2568	2372	2266	2224	2216	0- 10	262.3	262.3	26.2,29.1
20	827.2	1087	1320	1126	894.3	847.0	808.4	813.1	10- 20	447.6	709.9	70.8,78.9
30	154.1	256.1	365.3	270.2	170.9	169.8	146.3	141.8	20- 30	233.7	943.6	94.1,105
40	15.21	20.10	26.89	20.82	15.84	15.69	15.98	14.50	30- 40	54.22	997.8	99.5,111
50	1.048	0.9970	1.111	0.9359	0.7474	0.5205	0.5446	0.4040	40- 50	4.657	1002	100,111
60	0.2323	0.1711	0.2097	0.1762	0.1160	0.0285	0.0572	0.0287	50- 60	0.2354	1003	100,111
70	0.0837	0.0339	0.0463	0.0342	0.0648	0.0258	0.0436	0.0246	60- 70	0.0661	1003	100,111
80	0.0243	0.0068	0.0027	0.0041	0.0270	0.0258	0.0354	0.0246	70- 80	0.0241	1003	100,111
90	0.0054	0.0027	0.0027	0	0.0270	0.0258	0.0300	0.0246	80- 90	0.0171	1003	100,111
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): 1001.5 lm

%lum = 99.9%

%lamp = 111.3%

Conical surface Flux(130deg): 1002.8 lm

%lum = 100.0%

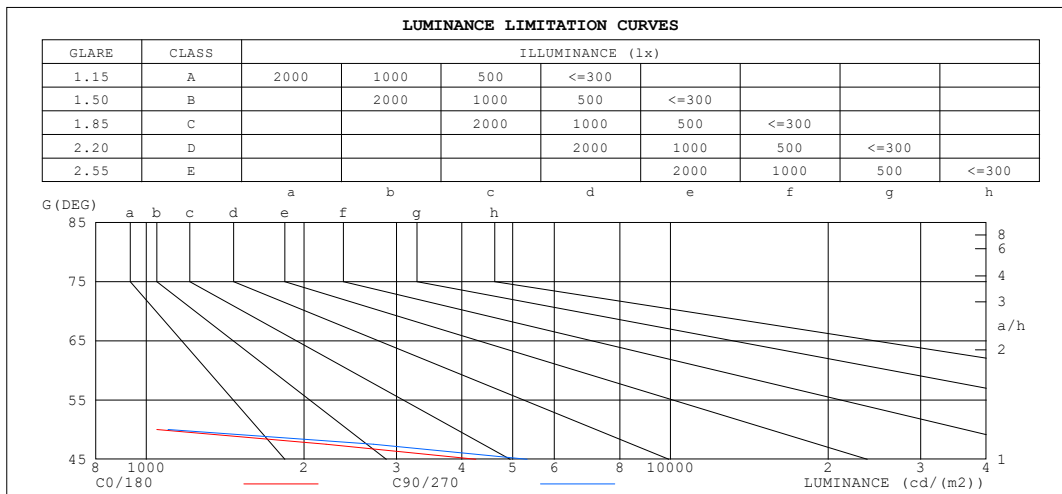
%lamp = 111.4%

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

LUMINANCE LIMITATION CURVES

NAME: 92EL141040/WHBK	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 135 x 35 x 68	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangular	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	99	20
80	90	10
75	114	20
70	157	86
65	213	168
60	298	267
55	414	393
50	1047	1100
45	4255	5325

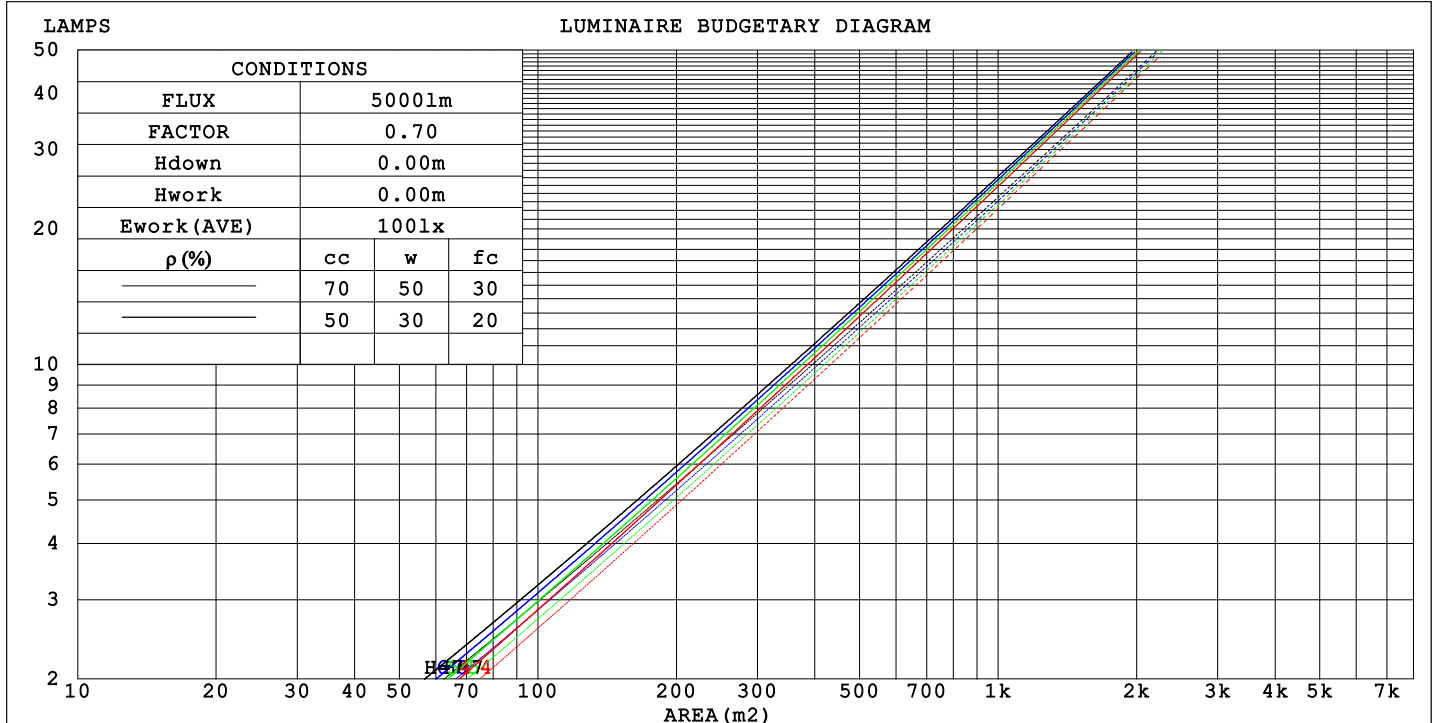
C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3°C
 Operators:
 Test Date: 09 December 2022

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: 92EL141040/WHBK	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 135 x 35 x 68	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 December 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:

WEC AND CCEC

NAME: 92EL141040/WHBK	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 135 x 35 x 68	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	.161	.091	.029	.153	.087	.028	.140	.080	.026	.127	.073	.023	.115	.067	.022	
2.0	.150	.082	.025	.144	.079	.024	.132	.074	.023	.122	.068	.021	.112	.063	.020	
3.0	.141	.075	.022	.136	.073	.022	.126	.068	.021	.117	.064	.020	.109	.060	.019	
4.0	.133	.069	.020	.128	.067	.020	.120	.064	.019	.113	.061	.018	.106	.057	.017	
5.0	.126	.064	.019	.122	.063	.018	.115	.060	.018	.109	.057	.017	.102	.055	.016	
6.0	.120	.060	.017	.116	.059	.017	.110	.057	.016	.105	.054	.016	.099	.052	.016	
7.0	.114	.056	.016	.111	.055	.016	.106	.054	.015	.101	.052	.015	.096	.050	.015	
8.0	.109	.053	.015	.107	.052	.015	.102	.051	.015	.098	.049	.014	.093	.048	.014	
9.0	.105	.051	.014	.102	.050	.014	.098	.049	.014	.094	.047	.014	.091	.046	.013	
10.0	.100	.048	.013	.099	.048	.013	.095	.046	.013	.091	.045	.013	.088	.044	.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	.212	.212	.212	.181	.181	.181	.124	.124	.124	.071	.071	.071	.023	.023	.023	
1.0	.188	.176	.164	.161	.151	.141	.110	.104	.098	.063	.060	.057	.020	.019	.018	
2.0	.169	.148	.130	.144	.127	.113	.099	.088	.079	.057	.051	.046	.018	.017	.015	
3.0	.152	.126	.105	.131	.109	.091	.090	.076	.064	.052	.044	.038	.017	.014	.012	
4.0	.139	.109	.087	.119	.094	.075	.082	.066	.053	.047	.039	.031	.015	.013	.010	
5.0	.128	.096	.072	.110	.083	.063	.076	.058	.044	.044	.034	.026	.014	.011	.009	
6.0	.118	.085	.061	.102	.073	.053	.070	.051	.037	.041	.030	.022	.013	.010	.007	
7.0	.110	.076	.052	.095	.066	.045	.066	.046	.032	.038	.027	.019	.012	.009	.006	
8.0	.103	.068	.044	.089	.059	.039	.062	.042	.027	.036	.025	.016	.012	.008	.005	
9.0	.097	.062	.039	.084	.054	.034	.058	.038	.024	.034	.022	.014	.011	.007	.005	
10.0	.092	.057	.034	.079	.050	.030	.055	.035	.021	.032	.021	.013	.010	.007	.004	

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

UGR(Unified Glare Rating) Table

NAME: 92EL141040/WHBK						TYPE:			WEIGHT: 1		
SPEC.:						DIM.: 135 x 35 x 68			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	10.8	11.5	11.0	11.7	11.8	16.8	17.5	17.0	17.6	17.8
	3H	10.6	11.3	10.9	11.5	11.7	16.6	17.3	16.9	17.5	17.7
	4H	10.6	11.2	10.8	11.4	11.6	16.5	17.2	16.8	17.4	17.6
	6H	10.5	11.1	10.8	11.3	11.5	16.5	17.0	16.7	17.3	17.5
	8H	10.4	11.0	10.7	11.3	11.5	16.4	17.0	16.7	17.2	17.5
	12H	10.4	10.9	10.7	11.2	11.5	16.4	16.9	16.7	17.2	17.4
4H	2H	10.6	11.2	10.8	11.4	11.6	16.5	17.2	16.8	17.4	17.6
	3H	10.4	10.9	10.7	11.2	11.5	16.4	16.9	16.7	17.2	17.4
	4H	10.3	10.8	10.6	11.1	11.4	16.3	16.8	16.6	17.1	17.4
	6H	10.2	10.6	10.6	11.0	11.3	16.2	16.6	16.5	16.9	17.3
	8H	10.1	10.6	10.5	10.9	11.3	16.1	16.5	16.5	16.9	17.2
	12H	10.1	10.5	10.5	10.8	11.2	16.1	16.4	16.5	16.8	17.2
8H	4H	10.1	10.6	10.5	10.9	11.3	16.1	16.5	16.5	16.9	17.2
	6H	10.0	10.4	10.5	10.8	11.2	16.0	16.3	16.4	16.7	17.1
	8H	10.0	10.3	10.4	10.7	11.1	15.9	16.2	16.4	16.7	17.1
	12H	9.9	10.2	10.4	10.6	11.1	15.9	16.1	16.4	16.6	17.1
12H	4H	10.1	10.5	10.5	10.8	11.2	16.1	16.4	16.5	16.8	17.2
	6H	10.0	10.3	10.4	10.7	11.1	15.9	16.2	16.4	16.7	17.1
	8H	9.9	10.2	10.4	10.6	11.1	15.9	16.1	16.4	16.6	17.1
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H		+ 4.2 / -21.6					+ 5.9 / -25.5				
1.5H		+ 6.9 / -19.7					+ 8.6 / -23.1				
2.0H		+ 8.9 / -13.6					+ 9.1 / -12.1				

CIE Pub.117, 900.0 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.4)
Area: 0.00157 m2

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:09 December 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: 92EL141040/WHBK	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 135 x 35 x 68	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangular	Shielding Angle:

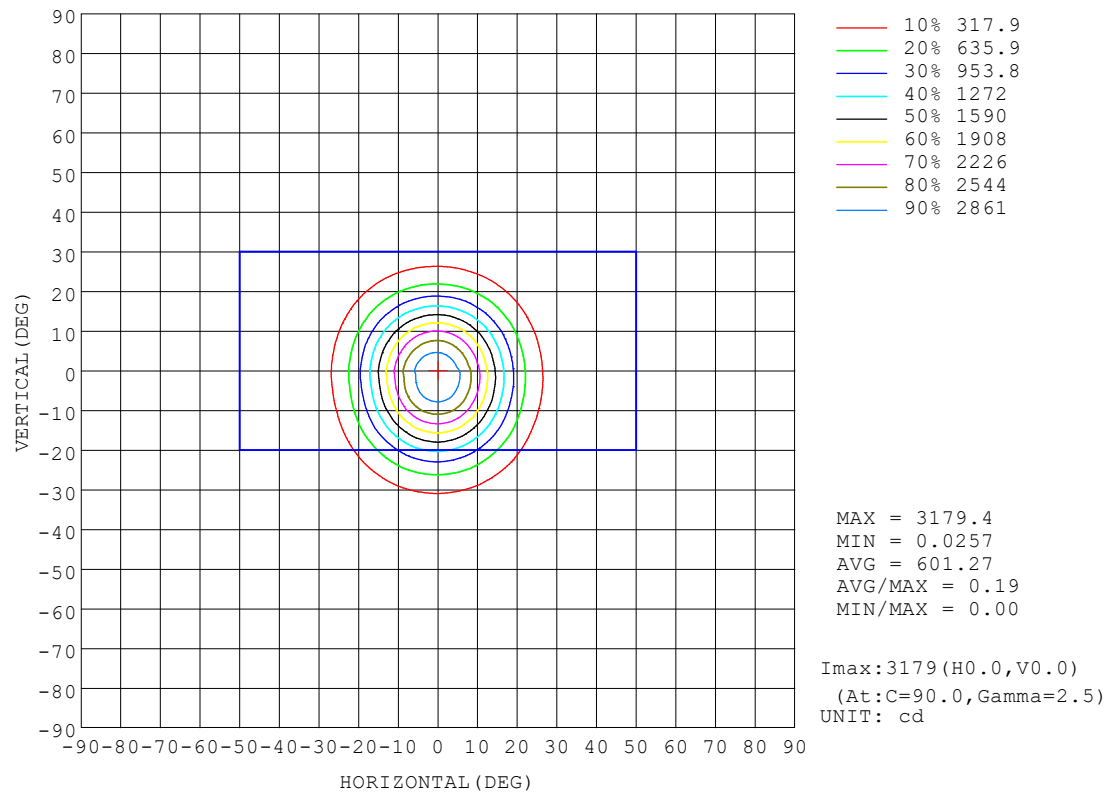
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	102	95	92	101	95	92	100	95	91	88
0.80	109	104	100	109	103	100	107	103	99	96
1.00	114	108	104	113	108	104	111	107	104	100
1.25	117	112	109	116	112	108	114	110	108	103
1.50	120	115	112	119	115	112	116	113	110	106
2.00	122	118	115	121	117	114	118	115	113	107
2.50	124	120	117	122	119	116	119	116	114	108
3.00	126	122	119	124	121	118	120	118	116	109
4.00	128	125	123	125	123	121	121	120	118	111
5.00	129	127	125	127	125	123	122	121	120	112
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 December 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:

ISOCANDELA DIAGRAM

NAME: 92EL141040/WHBK	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 135 x 35 x 68	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangular	Shielding Angle:

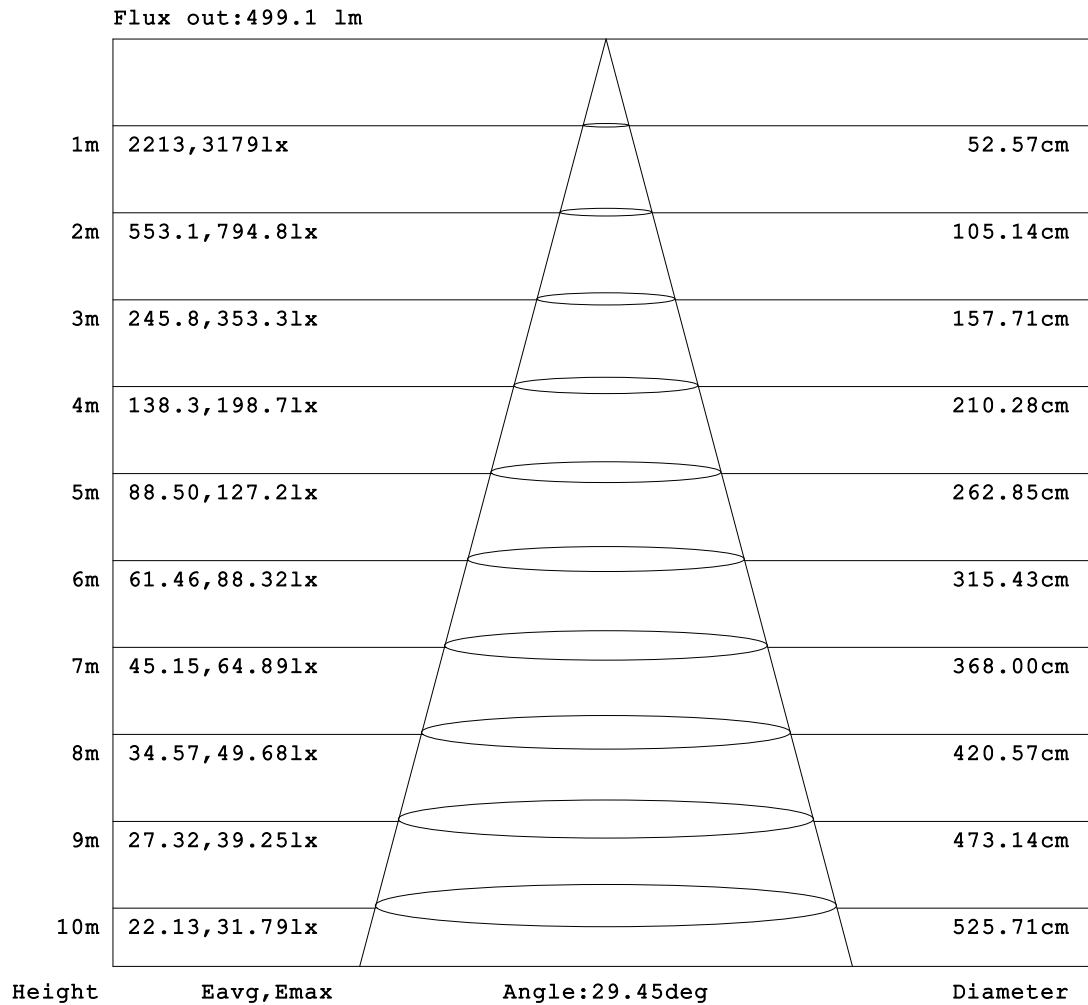


C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3°C
 Operators:
 Test Date: 09 December 2022

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:

AAI Figure

NAME: 92EL141040/WHBK	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 135 x 35 x 68	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangular	Shielding Angle:



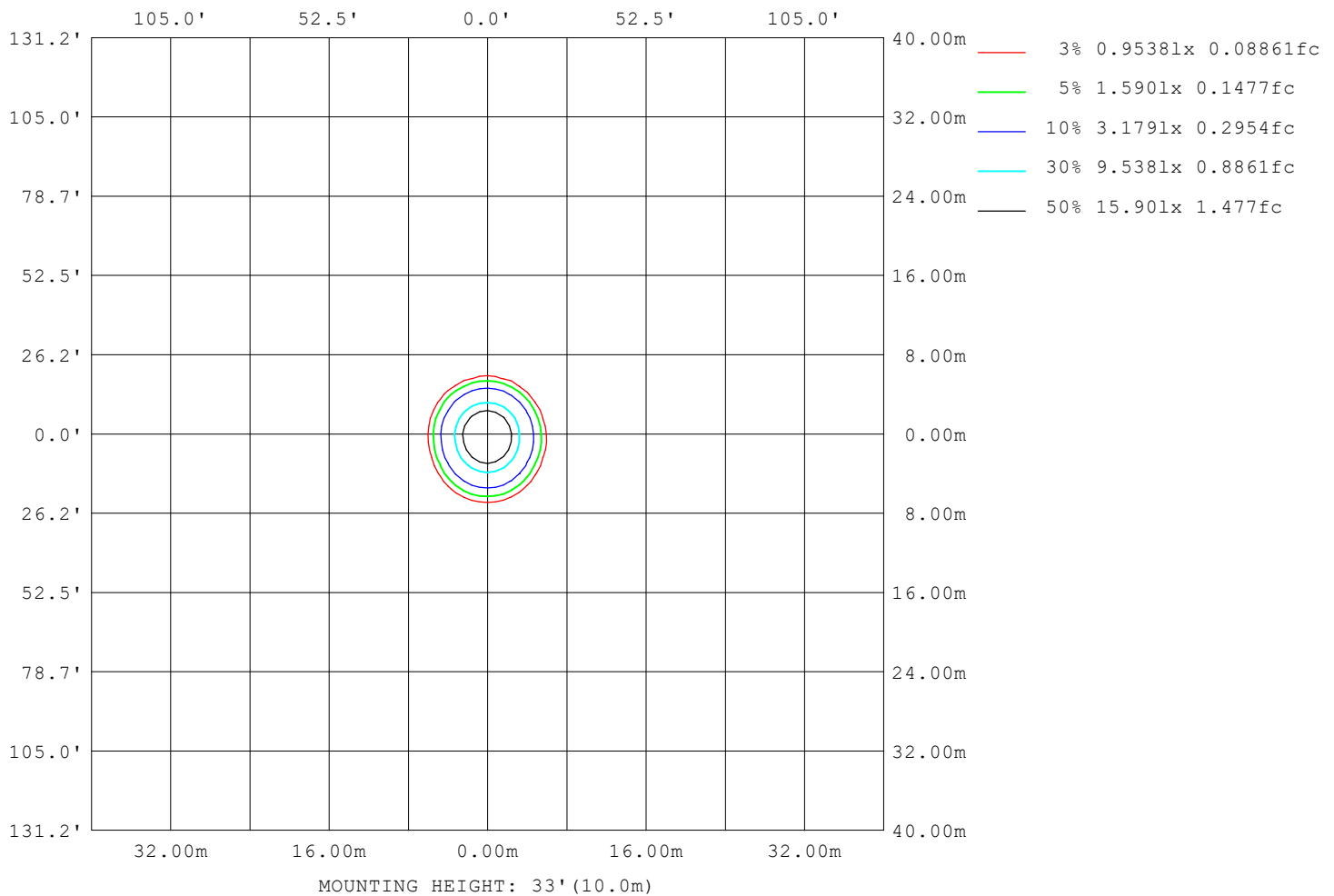
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

ISOLUX DIAGRAM

NAME: 92EL141040/WHBK	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 135 x 35 x 68	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 December 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:

LED Avg.L Report

NAME: 92EL141040/WHBK	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 135 x 35 x 68	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangular	Shielding Angle:

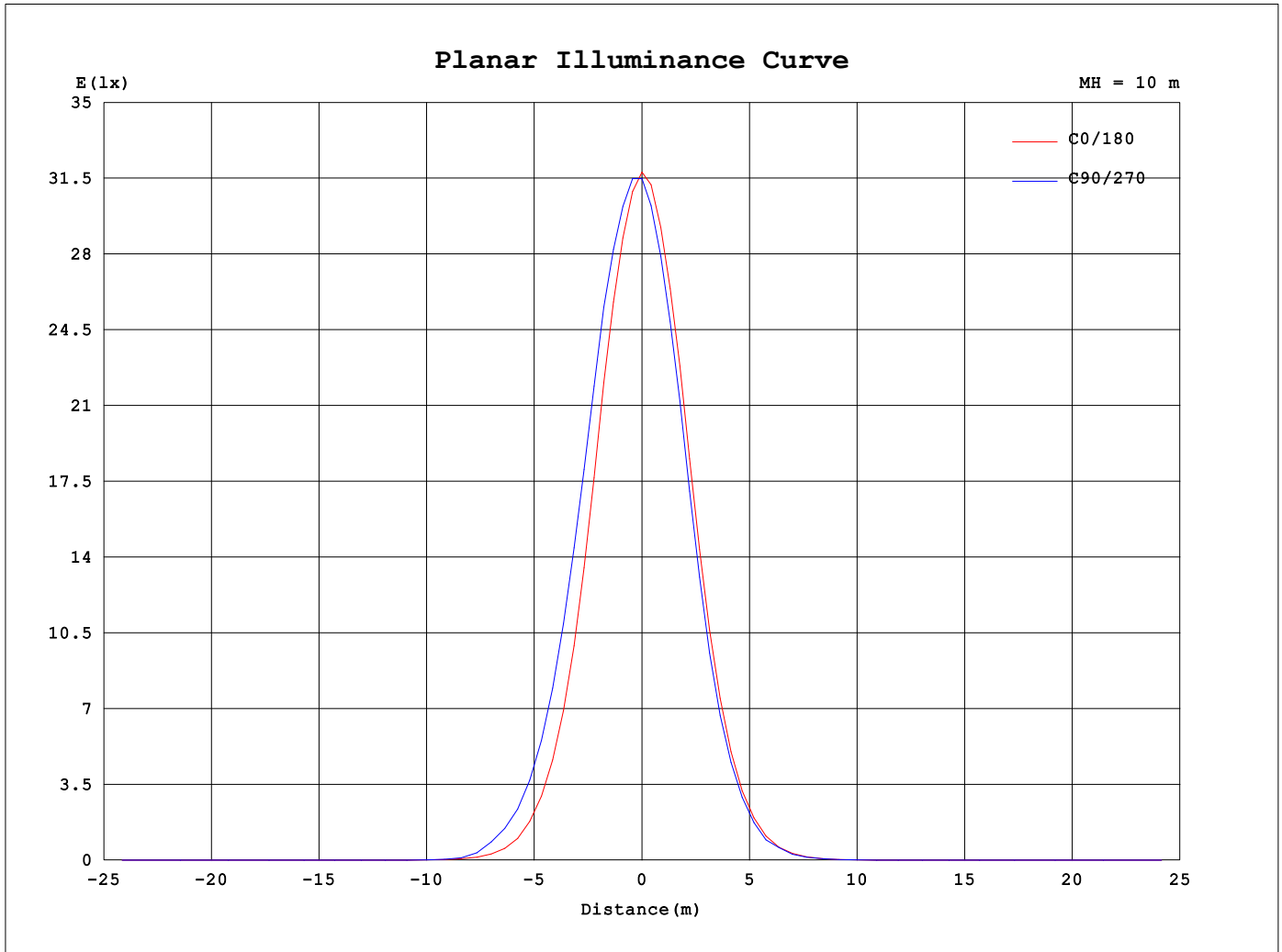
AvgL	cd/m2
L_0~180 (65) av	173
L_0~180 (75) av	110
L_0~180 (85) av	148
L_90~270 (65) av	121
L_90~270 (75) av	57
L_90~270 (85) av	129
L_45 (65) av	84
L_45 (75) av	45
L_45 (85) av	106

Standard: GB/T 29293-2012

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

Planar Illuminance Curve



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

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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:

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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:

```