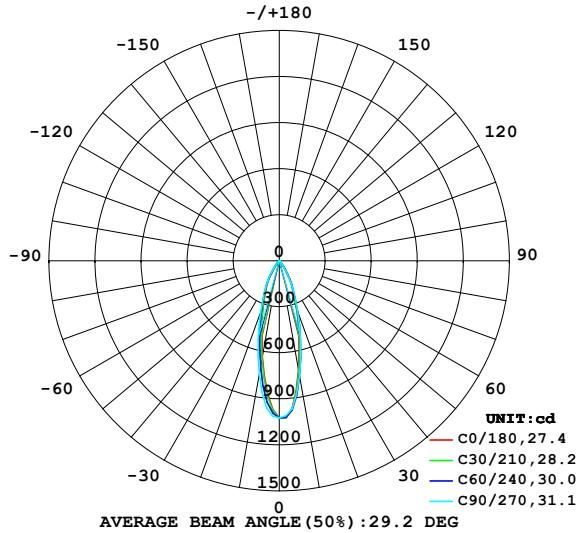


LUMINAIRE PHOTOMETRIC TEST REPORT

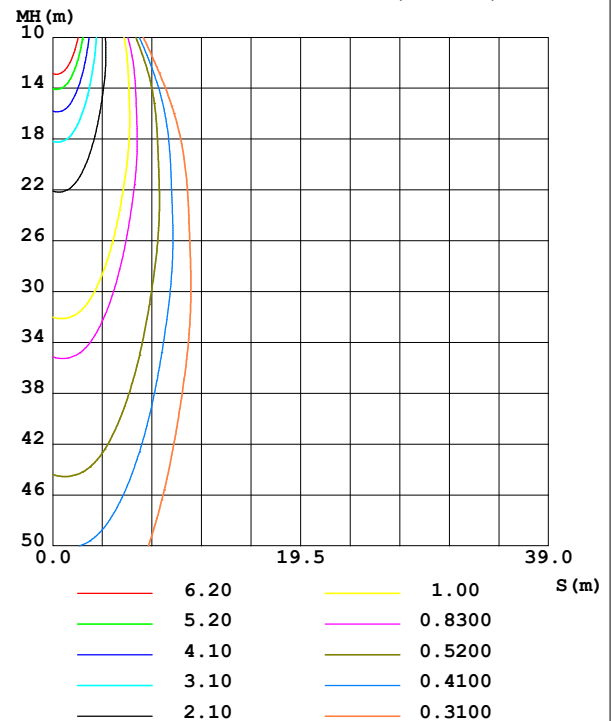
NAME: 92EL05630/WHBK	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 146 x 45 x 35	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangle	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	92EL05630/WHBK	Imax (cd)	1029	S/MH (C0/180)	0.43
NOMINAL POWER (W)	5	LOR (%)	126.1	S/MH (C90/270)	0.51
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	378.21	η UP, DN (C0-180)	0.0, 62.0
NOMINAL FLUX (lm)	300	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 64.0
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	230	η down (%)	126.1	CIBSE SHR MAX	0.50

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 08 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	725.2	752.3	764.0	698.7	636.4	674.1	752.1	755.9	0- 10	82.59	82.59	21.8,27.5
20	332.5	344.4	348.8	327.6	309.5	326.3	357.5	356.3	10- 20	139.9	222.5	58.8,74.2
30	138.7	134.3	127.9	130.4	133.8	146.6	153.0	147.4	20- 30	102.7	325.2	86,108
40	23.13	19.70	17.74	19.12	21.32	26.24	29.46	27.09	30- 40	42.82	368.0	97.3,123
50	4.697	4.433	4.032	4.144	4.403	4.482	4.554	4.427	40- 50	7.585	375.6	99.3,125
60	1.139	1.072	1.078	0.9214	0.9401	1.271	1.499	1.291	50- 60	2.327	377.9	99.9,126
70	0.0299	0.0109	0	0.0041	0	0.0000	0.0136	0.0027	60- 70	0.2732	378.2	100,126
80	0	0	0	0	0	0	0	0	70- 80	0.0017	378.2	100,126
90	0	0	0	0	0	0	0	0	80- 90	0	378.2	100,126
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): 373.17 lm

%lum = 98.7%

%lamp = 124.4%

Conical surface Flux(130deg): 378.2 lm

%lum = 100.0%

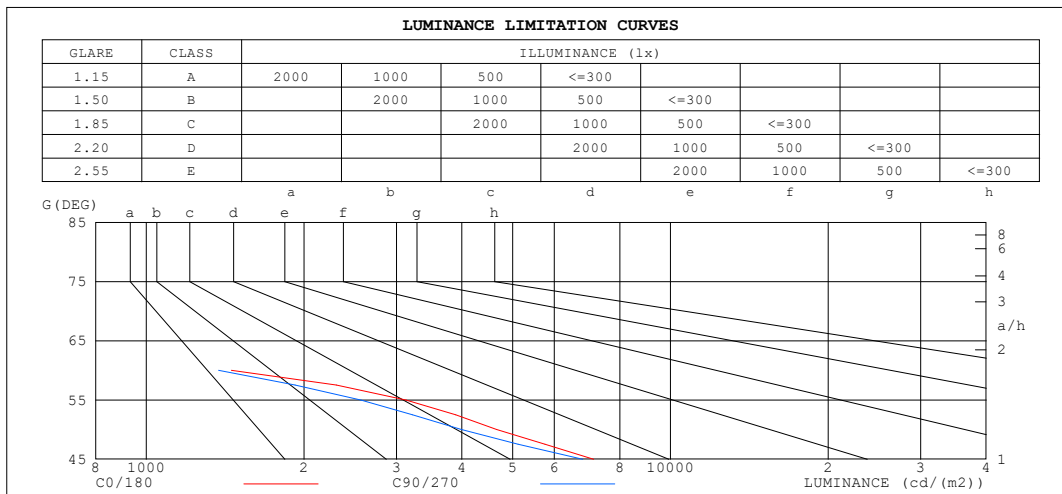
%lamp = 126.1%

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: MEDIUM
 Temperature:25.3°C
 Operators:
 Test Date:08 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: 92EL05630/WHBK	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 146 x 45 x 35	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangle	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	0	0
80	0	0
75	20	0
70	56	0
65	120	45
60	1454	1373
55	3132	2569
50	4662	3994
45	7129	6798

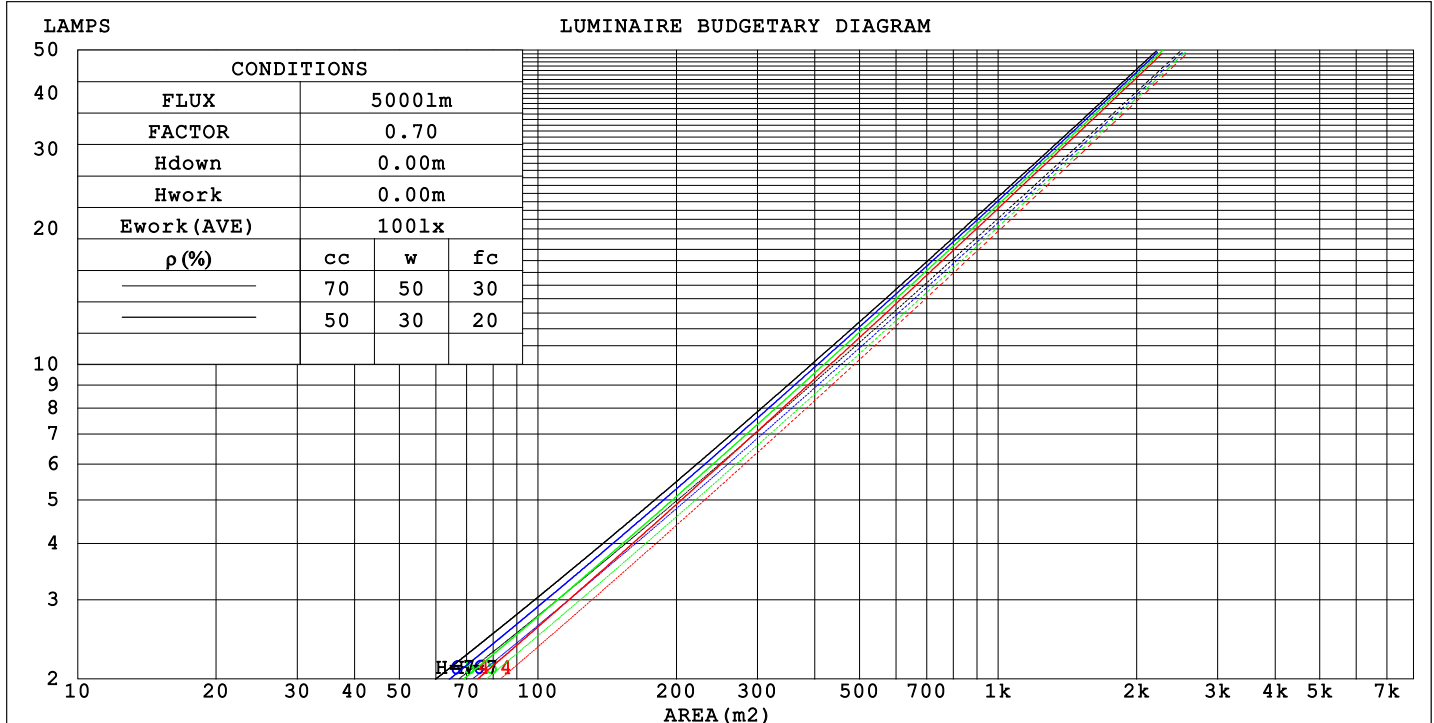
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 08 December 2022

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: 92EL05630/WHBK	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 146 x 45 x 35	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangle	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:08 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: 92EL05630/WHBK	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 146 x 45 x 35	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangle	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	.196	.111	.035	.187	.107	.034	.172	.098	.031	.157	.091	.029	.144	.083	.027	
2.0	.185	.101	.031	.178	.098	.030	.165	.092	.028	.153	.086	.027	.142	.080	.025	
3.0	.175	.093	.028	.169	.090	.027	.158	.086	.026	.148	.081	.025	.138	.076	.024	
4.0	.166	.086	.025	.161	.084	.025	.151	.080	.024	.142	.076	.023	.134	.073	.022	
5.0	.157	.080	.023	.153	.079	.023	.145	.075	.022	.137	.072	.022	.130	.070	.021	
6.0	.150	.075	.021	.146	.074	.021	.139	.071	.021	.132	.069	.020	.126	.066	.020	
7.0	.143	.071	.020	.140	.070	.020	.134	.068	.019	.128	.065	.019	.122	.064	.019	
8.0	.137	.067	.019	.134	.066	.019	.128	.064	.018	.123	.062	.018	.118	.061	.018	
9.0	.131	.063	.018	.129	.063	.018	.124	.061	.017	.119	.060	.017	.115	.058	.017	
10.0	.126	.060	.017	.124	.060	.017	.119	.058	.016	.115	.057	.016	.111	.056	.016	

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	.240	.240	.240	.205	.205	.205	.140	.140	.140	.080	.080	.080	.026	.026	.026	
1.0	.214	.199	.185	.183	.170	.159	.125	.117	.110	.072	.068	.064	.023	.022	.021	
2.0	.193	.167	.146	.165	.144	.126	.113	.100	.088	.065	.058	.051	.021	.019	.017	
3.0	.175	.143	.117	.150	.123	.102	.103	.086	.071	.060	.050	.042	.019	.016	.014	
4.0	.161	.124	.096	.138	.107	.083	.095	.075	.059	.055	.044	.035	.018	.014	.011	
5.0	.149	.109	.079	.128	.094	.069	.088	.066	.049	.051	.039	.029	.016	.013	.010	
6.0	.139	.097	.067	.119	.084	.058	.082	.059	.041	.048	.035	.024	.015	.011	.008	
7.0	.130	.087	.057	.112	.075	.049	.077	.053	.035	.045	.031	.021	.015	.010	.007	
8.0	.122	.079	.049	.105	.068	.042	.073	.048	.030	.042	.028	.018	.014	.009	.006	
9.0	.116	.072	.042	.100	.062	.037	.069	.044	.026	.040	.026	.016	.013	.008	.005	
10.0	.110	.066	.037	.095	.057	.032	.066	.040	.023	.038	.024	.014	.012	.008	.005	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:08 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: 92EL05630/WHBK					TYPE:			WEIGHT: 1			
SPEC.:					DIM.: 146 x 45 x 35			SERIAL No.: 0			
MFR.: Elmark Industries JSC					SUR.: rectangle			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	18.9	18.3	19.1	19.2	17.5	18.3	17.8	18.5	18.6
	3H	18.0	18.7	18.2	18.9	19.1	17.4	18.1	17.6	18.3	18.5
	4H	17.9	18.6	18.2	18.8	19.0	17.3	18.0	17.6	18.2	18.4
	6H	17.8	18.5	18.1	18.7	18.9	17.2	17.9	17.5	18.1	18.3
	8H	17.8	18.4	18.1	18.6	18.9	17.2	17.8	17.5	18.0	18.3
	12H	17.7	18.3	18.0	18.6	18.8	17.1	17.7	17.4	18.0	18.3
4H	2H	17.9	18.6	18.2	18.8	19.0	17.3	18.0	17.6	18.2	18.4
	3H	17.7	18.3	18.0	18.6	18.9	17.1	17.7	17.4	18.0	18.3
	4H	17.6	18.2	18.0	18.5	18.8	17.0	17.6	17.4	17.9	18.2
	6H	17.5	18.0	17.9	18.3	18.7	16.9	17.4	17.3	17.8	18.1
	8H	17.5	17.9	17.9	18.3	18.6	16.9	17.3	17.3	17.7	18.0
	12H	17.4	17.8	17.8	18.2	18.6	16.8	17.2	17.2	17.6	18.0
8H	4H	17.5	17.9	17.9	18.3	18.6	16.9	17.3	17.3	17.7	18.0
	6H	17.4	17.7	17.8	18.1	18.5	16.8	17.1	17.2	17.5	18.0
	8H	17.3	17.6	17.8	18.1	18.5	16.7	17.0	17.2	17.5	17.9
	12H	17.3	17.5	17.7	18.0	18.4	16.7	16.9	17.1	17.4	17.8
12H	4H	17.4	17.8	17.8	18.2	18.6	16.8	17.2	17.2	17.6	18.0
	6H	17.3	17.6	17.8	18.1	18.5	16.7	17.0	17.2	17.5	17.9
	8H	17.3	17.5	17.7	18.0	18.4	16.7	16.9	17.1	17.4	17.8
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H		+ 4.1 / - 9.8					+ 4.1 / -10.3				
1.5H		+ 6.3 / - 6.6					+ 6.2 / - 6.1				
2.0H		+ 4.8 / -23.6					+ 4.9 / -22.2				

CIE Pub.117, 300.0 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -4.2)
Area: 0.00157 m2

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:08 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: 92EL05630/WHBK	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 146 x 45 x 35	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangle	Shielding Angle:

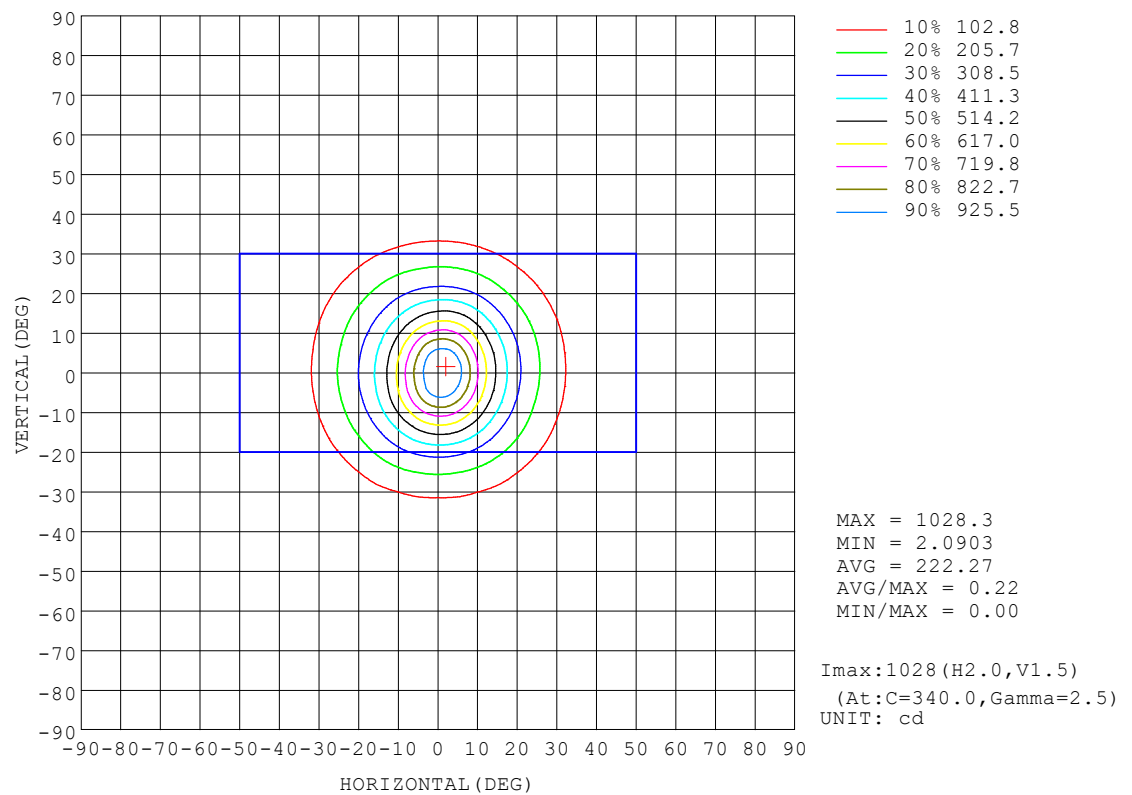
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	113	106	101	113	106	101	112	105	101	97
0.80	122	115	111	121	115	111	120	114	110	106
1.00	127	121	117	126	120	116	124	120	116	111
1.25	132	126	122	131	125	121	128	124	120	115
1.50	135	130	126	134	129	125	131	127	124	118
2.00	138	133	130	136	132	129	133	129	127	120
2.50	140	136	132	138	134	131	134	131	129	121
3.00	142	138	135	140	136	133	135	133	130	123
4.00	144	141	138	142	139	137	137	135	133	124
5.00	146	143	141	143	141	139	138	136	135	126
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: 08 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: 92EL05630/WHBK	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 146 x 45 x 35	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangle	Shielding Angle:

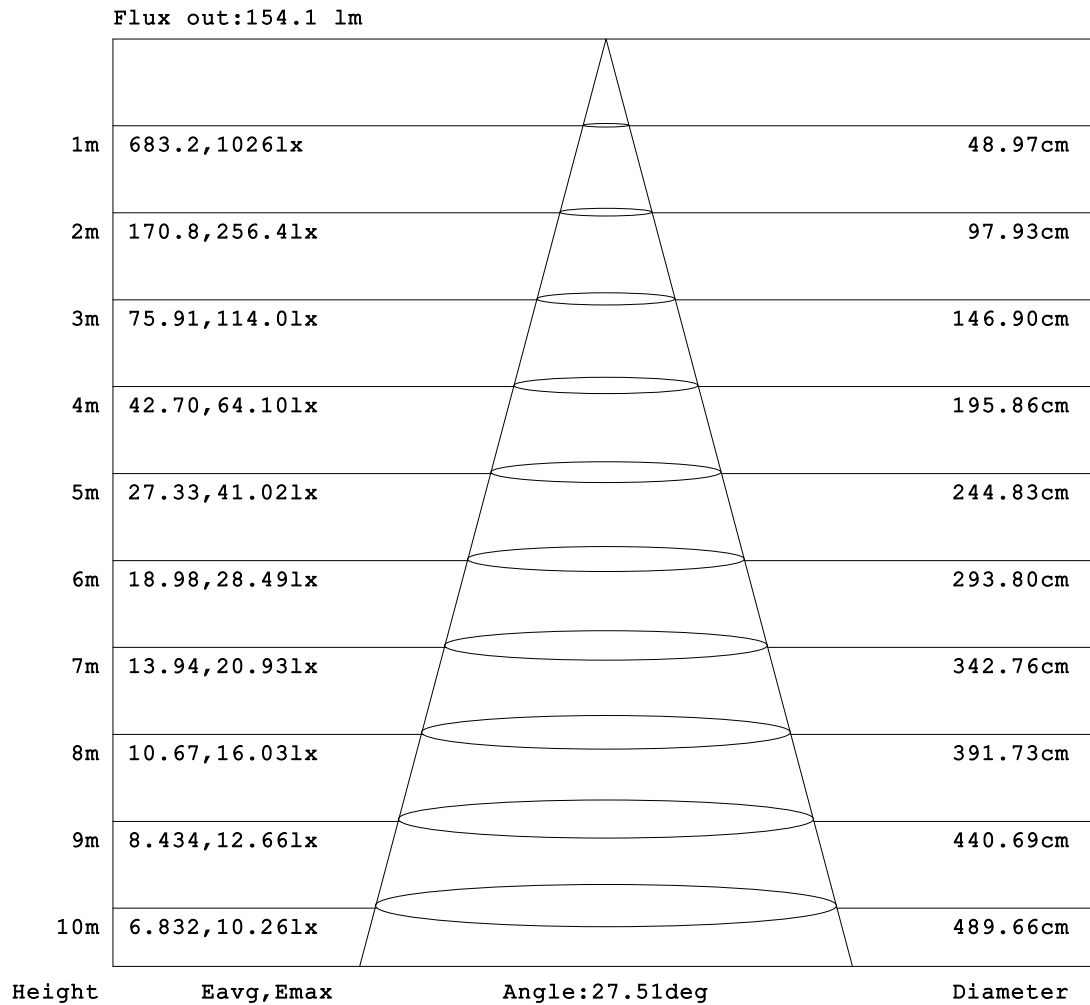


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:08 December 2022

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: 92EL05630/WHBK	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 146 x 45 x 35	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangle	Shielding Angle:



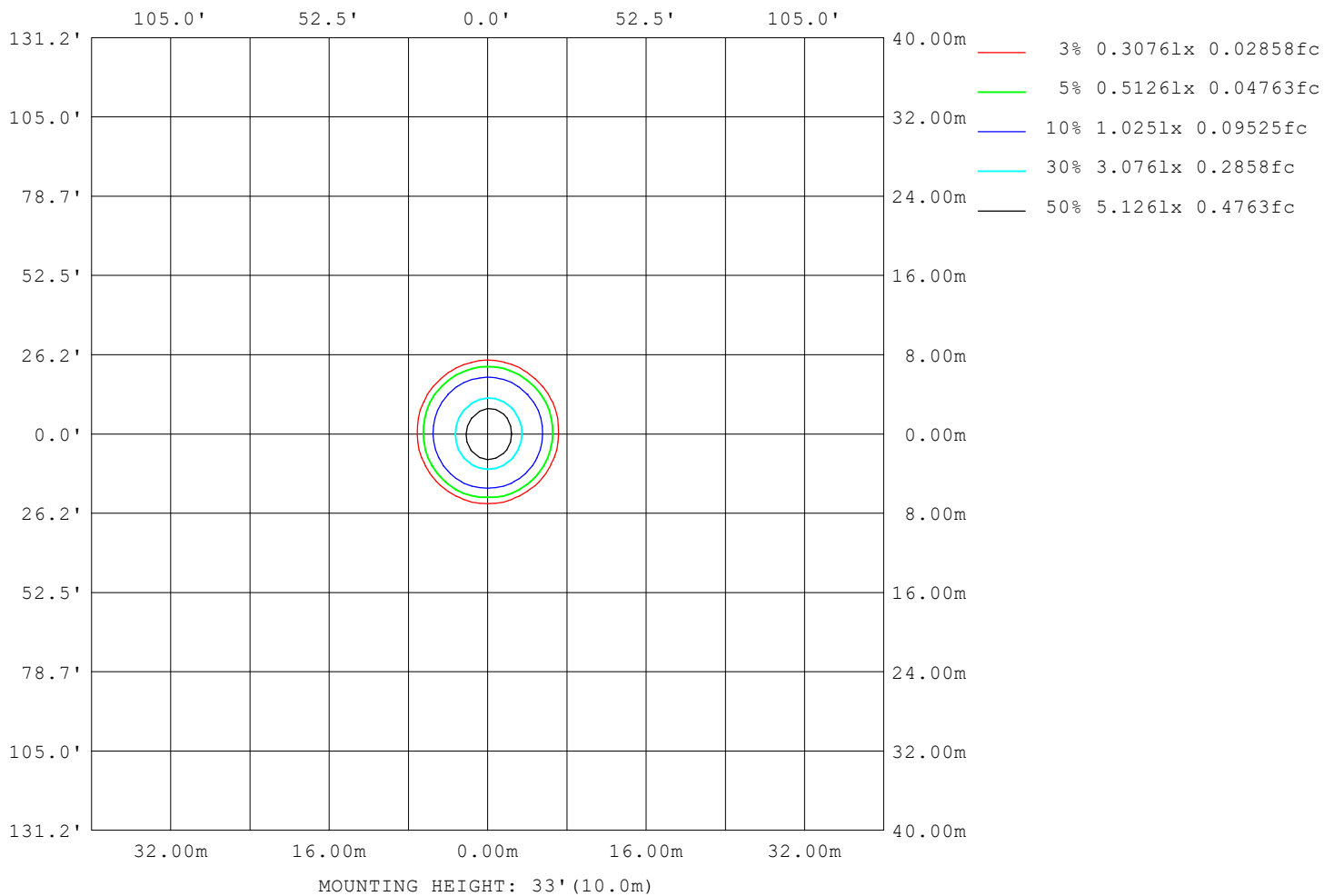
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3°C
 Operators:
 Test Date: 08 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: 92EL05630/WHBK	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 146 x 45 x 35	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangle	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 08 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: 92EL05630/WHBK	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 146 x 45 x 35	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangle	Shielding Angle:

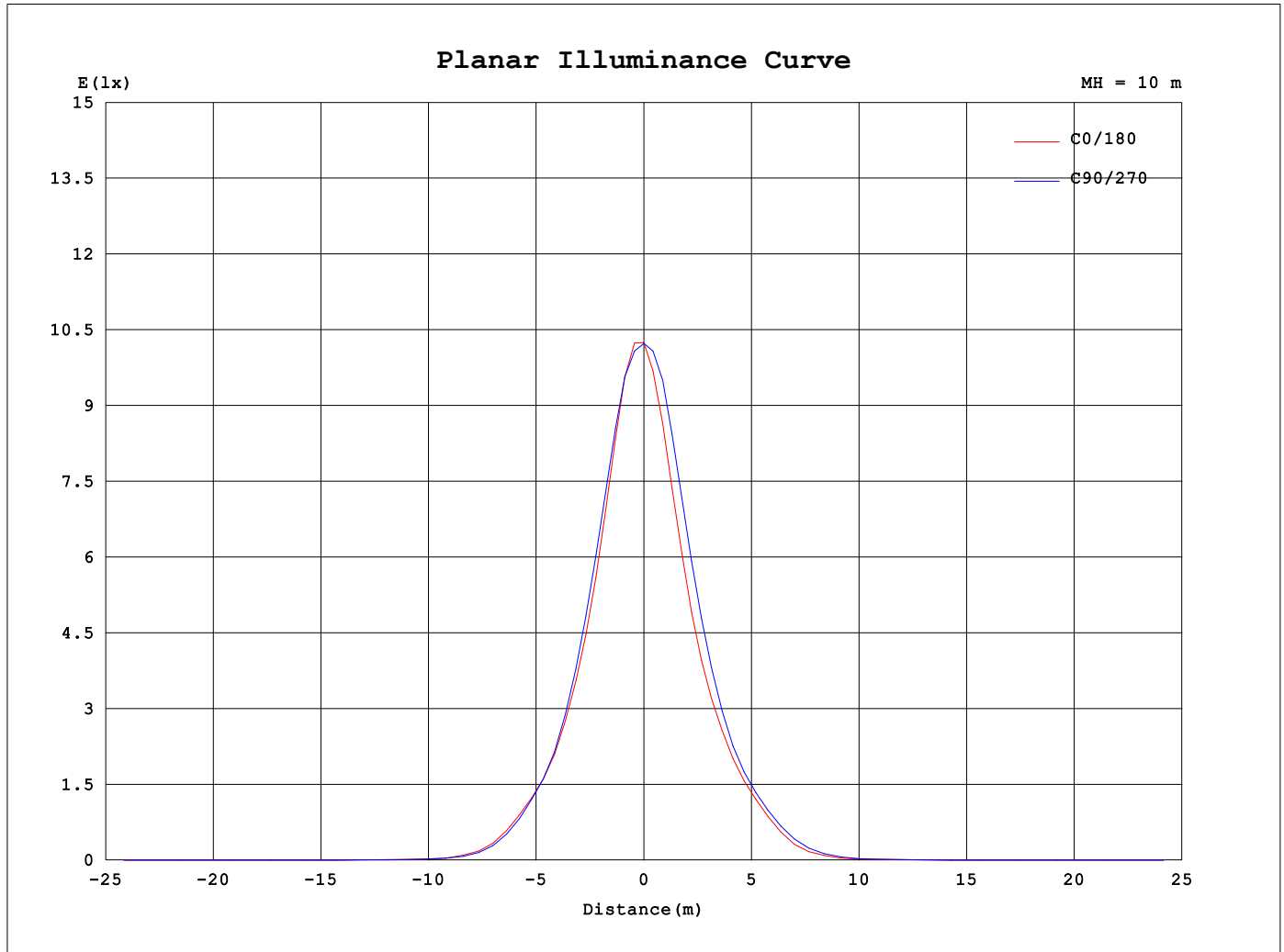
AvgL	cd/m2
L_0~180 (65) av	68
L_0~180 (75) av	10
L_0~180 (85) av	0
L_90~270 (65) av	108
L_90~270 (75) av	3
L_90~270 (85) av	0
L_45 (65) av	64
L_45 (75) av	1
L_45 (85) av	0

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:08 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: 08 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:

```