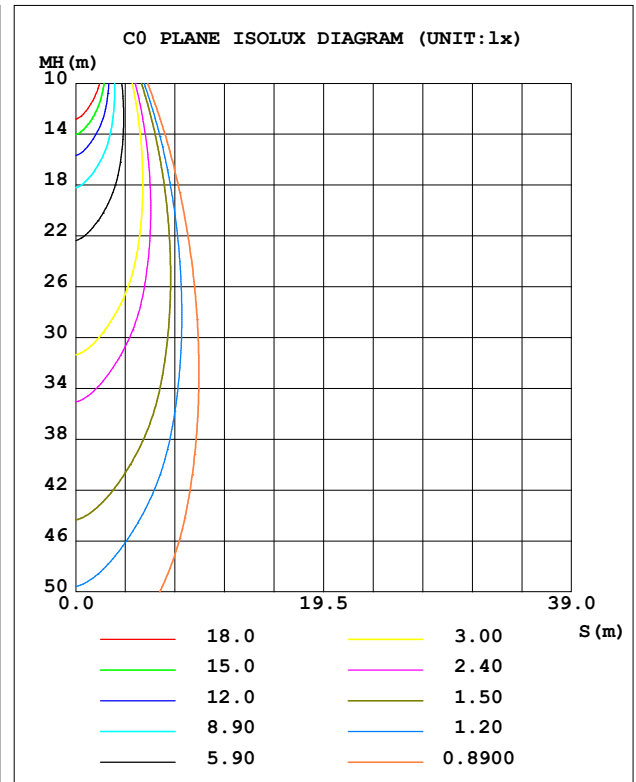
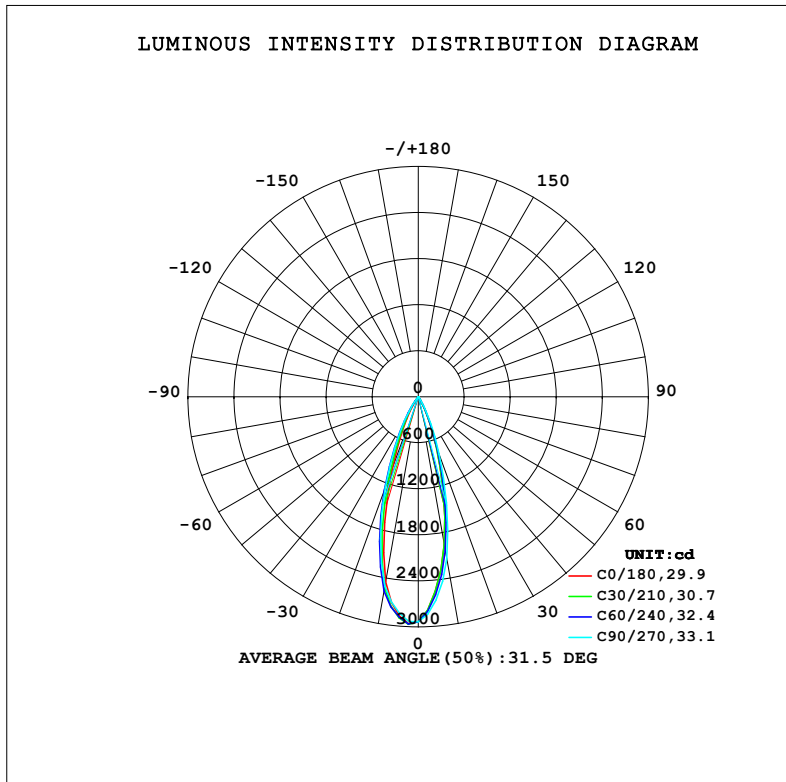


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: 92EL141030/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	92EL141030/WHBK	I _{max} (cd)	2971	S/MH (C0/180)	0.54
NOMINAL POWER (W)	10	LOR (%)	107.1	S/MH (C90/270)	0.59
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	963.95	η UP, DN (C0-180)	0.0, 47.6
NOMINAL FLUX (lm)	900	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 59.5
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	230	η down (%)	107.1	CIBSE SHR MAX	0.55



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	1964	1994	2141	2283	2448	2561	2505	2221	0- 10	245.7	245.7	25.5,27.3
20	695.8	713.8	800.2	907.3	995.7	1215	1262	936.1	10- 20	430.3	675.9	70.1,75.1
30	117.2	121.3	151.6	189.7	210.6	322.3	350.3	197.7	20- 30	229.4	905.3	93.9,101
40	13.72	14.67	17.23	17.27	17.64	20.64	23.29	16.69	30- 40	53.97	959.3	99.5,107
50	0.9788	0.7775	0.8435	0.7635	0.5868	0.4872	0.5253	0.4273	40- 50	4.462	963.7	100,107
60	0.2111	0.0952	0.1143	0.1255	0.0568	0.0190	0.0436	0.0191	50- 60	0.1834	963.9	100,107
70	0.0731	0.0109	0.0027	0.0137	0.0216	0.0136	0.0272	0.0150	60- 70	0.0372	963.9	100,107
80	0.0217	0.0014	0	0.0000	0.0162	0.0122	0.0164	0.0136	70- 80	0.0110	963.9	100,107
90	0	0	0	0	0.0162	0.0122	0.0136	0.0136	80- 90	0.0072	964.0	100,107
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): 962.79 lm

%lum = 99.9%

%lamp = 107.0%

Conical surface Flux(130deg): 963.92 lm

%lum = 100.0%

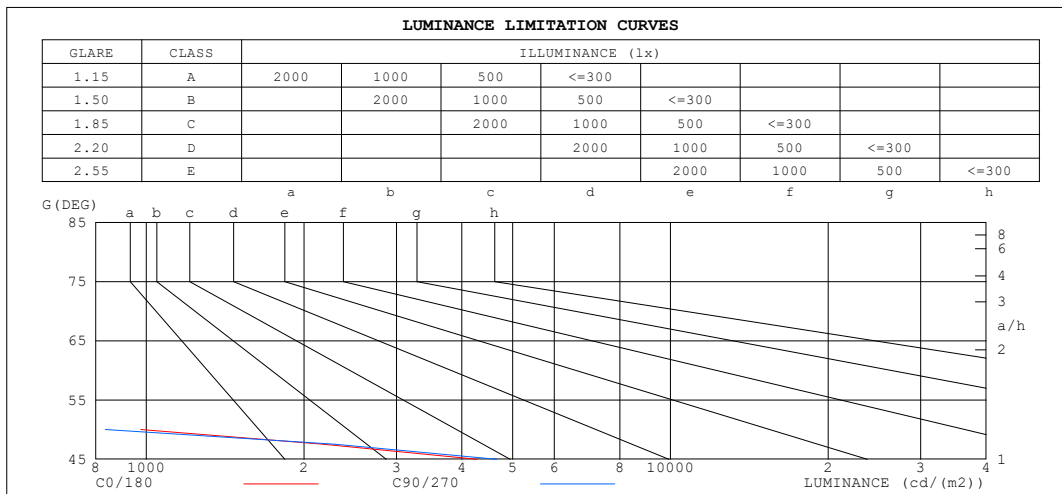
%lamp = 107.1%

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: 92EL141030/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	20	0
80	80	0
75	114	0
70	137	5
65	185	62
60	271	146
55	378	254
50	976	835
45	4270	4658

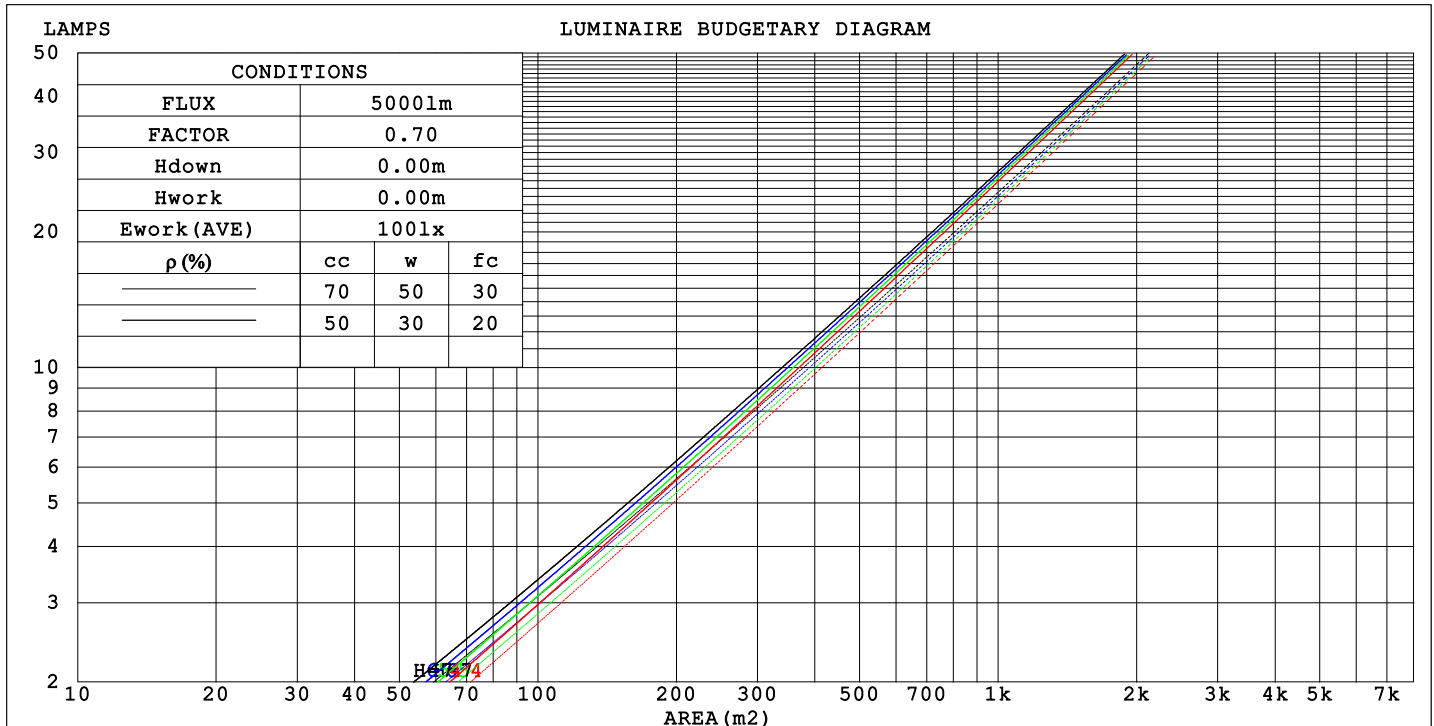
C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3°C
 Operators:
 Test Date: 09 December 2022

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: 92EL141030/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: 92EL141030/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	.155	.088	.028	.148	.084	.027	.135	.077	.025	.123	.071	.023	.111	.064	.021	
2.0	.145	.079	.024	.139	.077	.024	.128	.071	.022	.118	.066	.021	.109	.061	.019	
3.0	.136	.072	.022	.131	.070	.021	.122	.066	.020	.113	.062	.019	.105	.058	.018	
4.0	.128	.067	.020	.124	.065	.019	.116	.062	.018	.109	.059	.018	.102	.056	.017	
5.0	.122	.062	.018	.118	.061	.018	.111	.058	.017	.105	.055	.016	.099	.053	.016	
6.0	.116	.058	.017	.113	.057	.016	.107	.055	.016	.101	.053	.015	.096	.051	.015	
7.0	.110	.055	.015	.108	.054	.015	.103	.052	.015	.098	.050	.015	.093	.048	.014	
8.0	.106	.052	.015	.103	.051	.014	.099	.049	.014	.095	.048	.014	.091	.046	.014	
9.0	.101	.049	.014	.099	.048	.014	.095	.047	.013	.091	.046	.013	.088	.045	.013	
10.0	.097	.047	.013	.095	.046	.013	.092	.045	.013	.089	.044	.012	.085	.043	.012	

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	.204	.204	.204	.174	.174	.174	.119	.119	.119	.068	.068	.068	.022	.022	.022	
1.0	.181	.169	.158	.155	.145	.136	.106	.100	.094	.061	.058	.055	.020	.019	.018	
2.0	.162	.142	.125	.139	.122	.108	.095	.085	.076	.055	.049	.044	.018	.016	.014	
3.0	.147	.121	.101	.126	.105	.088	.086	.073	.062	.050	.042	.036	.016	.014	.012	
4.0	.134	.105	.083	.115	.091	.072	.079	.063	.051	.046	.037	.030	.015	.012	.010	
5.0	.123	.092	.069	.106	.080	.060	.073	.056	.042	.042	.033	.025	.014	.011	.008	
6.0	.114	.082	.058	.098	.071	.051	.068	.049	.036	.039	.029	.021	.013	.010	.007	
7.0	.106	.073	.050	.091	.063	.043	.063	.044	.031	.037	.026	.018	.012	.009	.006	
8.0	.100	.066	.043	.086	.057	.037	.059	.040	.026	.035	.024	.016	.011	.008	.005	
9.0	.094	.060	.037	.081	.052	.032	.056	.037	.023	.033	.022	.014	.011	.007	.005	
10.0	.089	.055	.032	.077	.048	.028	.053	.034	.020	.031	.020	.012	.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: 92EL141030/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	7.9	8.6	8.1	8.7	8.9	9.5	10.2	9.7	10.3	10.5
	3H	7.7	8.4	7.9	8.6	8.7	9.3	10.0	9.6	10.2	10.4
	4H	7.6	8.3	7.9	8.5	8.7	9.2	9.9	9.5	10.1	10.3
	6H	7.5	8.1	7.8	8.4	8.6	9.1	9.7	9.4	10.0	10.2
	8H	7.5	8.1	7.8	8.3	8.6	9.1	9.7	9.4	9.9	10.2
	12H	7.5	8.0	7.8	8.3	8.5	9.1	9.6	9.4	9.9	10.1
4H	2H	7.6	8.3	7.9	8.5	8.7	9.2	9.9	9.5	10.1	10.3
	3H	7.5	8.0	7.8	8.3	8.5	9.1	9.6	9.4	9.9	10.1
	4H	7.4	7.9	7.7	8.1	8.4	9.0	9.5	9.3	9.8	10.1
	6H	7.3	7.7	7.6	8.0	8.4	8.9	9.3	9.2	9.6	10.0
	8H	7.2	7.6	7.6	8.0	8.3	8.8	9.2	9.2	9.6	9.9
	12H	7.1	7.5	7.6	7.9	8.3	8.8	9.1	9.2	9.5	9.9
8H	4H	7.2	7.6	7.6	8.0	8.3	8.8	9.2	9.2	9.6	9.9
	6H	7.1	7.4	7.5	7.8	8.2	8.7	9.0	9.1	9.4	9.8
	8H	7.0	7.3	7.5	7.7	8.2	8.6	8.9	9.1	9.4	9.8
	12H	7.0	7.2	7.4	7.7	8.1	8.6	8.8	9.0	9.3	9.7
12H	4H	7.1	7.5	7.5	7.9	8.3	8.8	9.1	9.2	9.5	9.9
	6H	7.0	7.3	7.5	7.7	8.2	8.6	8.9	9.1	9.4	9.8
	8H	7.0	7.2	7.4	7.7	8.1	8.6	8.8	9.0	9.3	9.7
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H		+ 4.1 / -23.2					+ 4.5 / -25.1				
1.5H		+ 6.7 / -21.5					+ 7.2 / -21.5				
2.0H		+ 9.3 / -18.6					+ 9.3 / -16.6				

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: 92EL141030/WHBK	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 135 x 35 x 68	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangular	Shielding Angle:

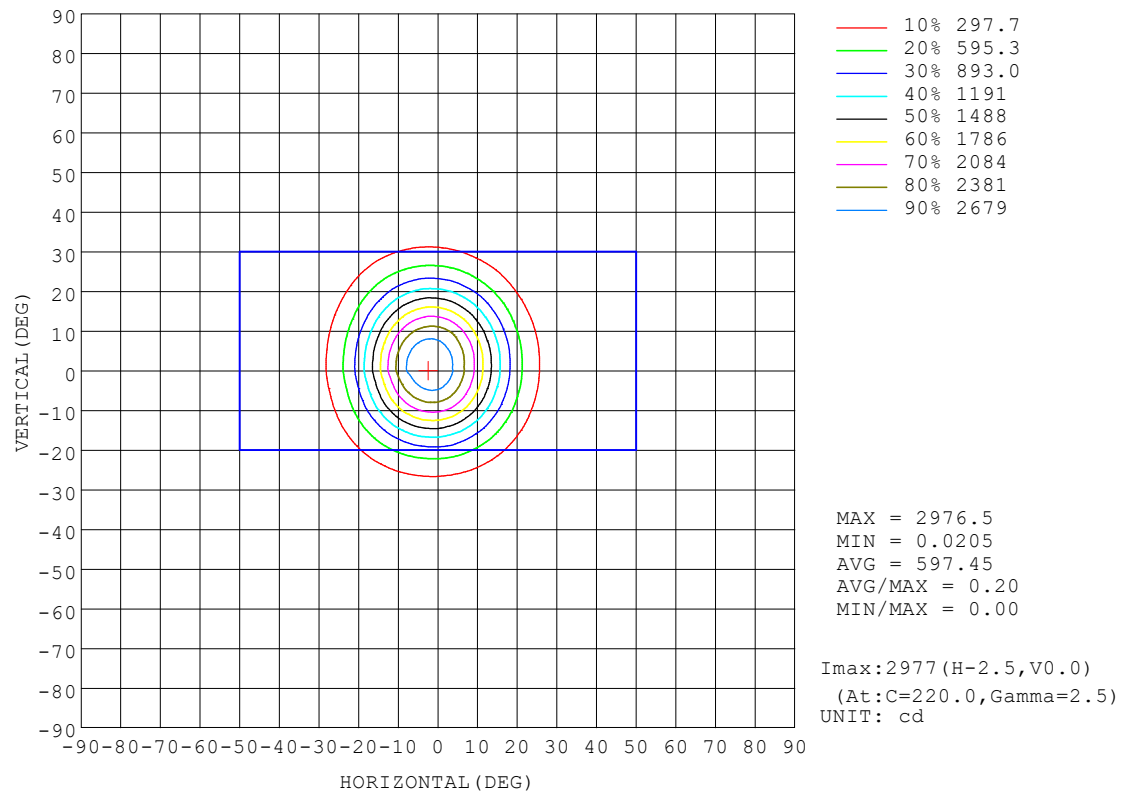
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	98	92	88	97	92	88	96	91	88	84
0.80	105	100	96	104	99	96	103	99	96	92
1.00	109	104	100	108	103	100	107	103	100	96
1.25	113	108	105	112	107	104	110	106	103	99
1.50	115	111	108	114	110	107	112	109	106	102
2.00	118	114	111	116	113	110	113	111	108	103
2.50	119	116	113	118	114	112	114	112	110	104
3.00	121	117	115	119	116	114	115	113	111	105
4.00	123	120	118	121	118	117	117	115	114	106
5.00	124	122	120	122	120	118	118	116	115	107
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: 92EL141030/WHBK	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 135 x 35 x 68	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangular	Shielding Angle:

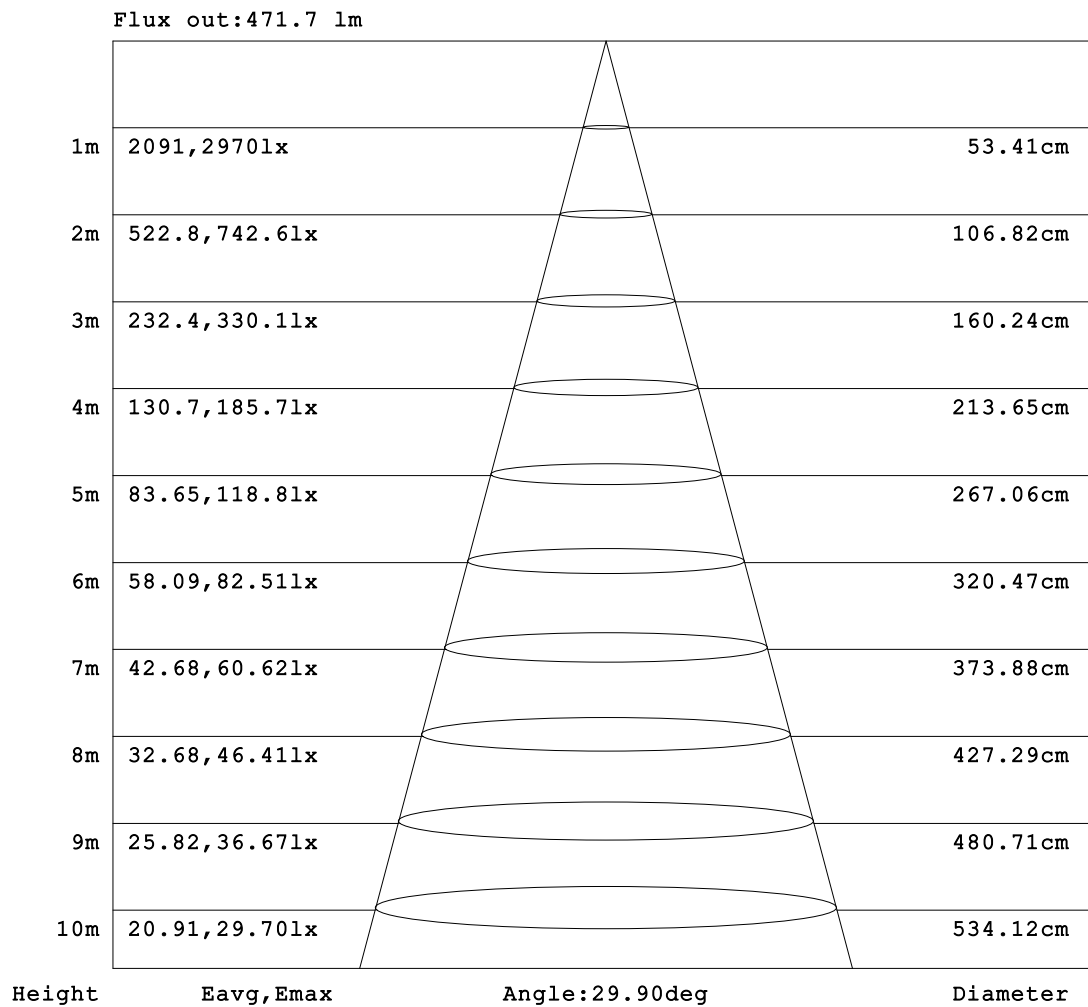


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 09 December 2022

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: 92EL141030/WHBK	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 135 x 35 x 68	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangular	Shielding Angle:



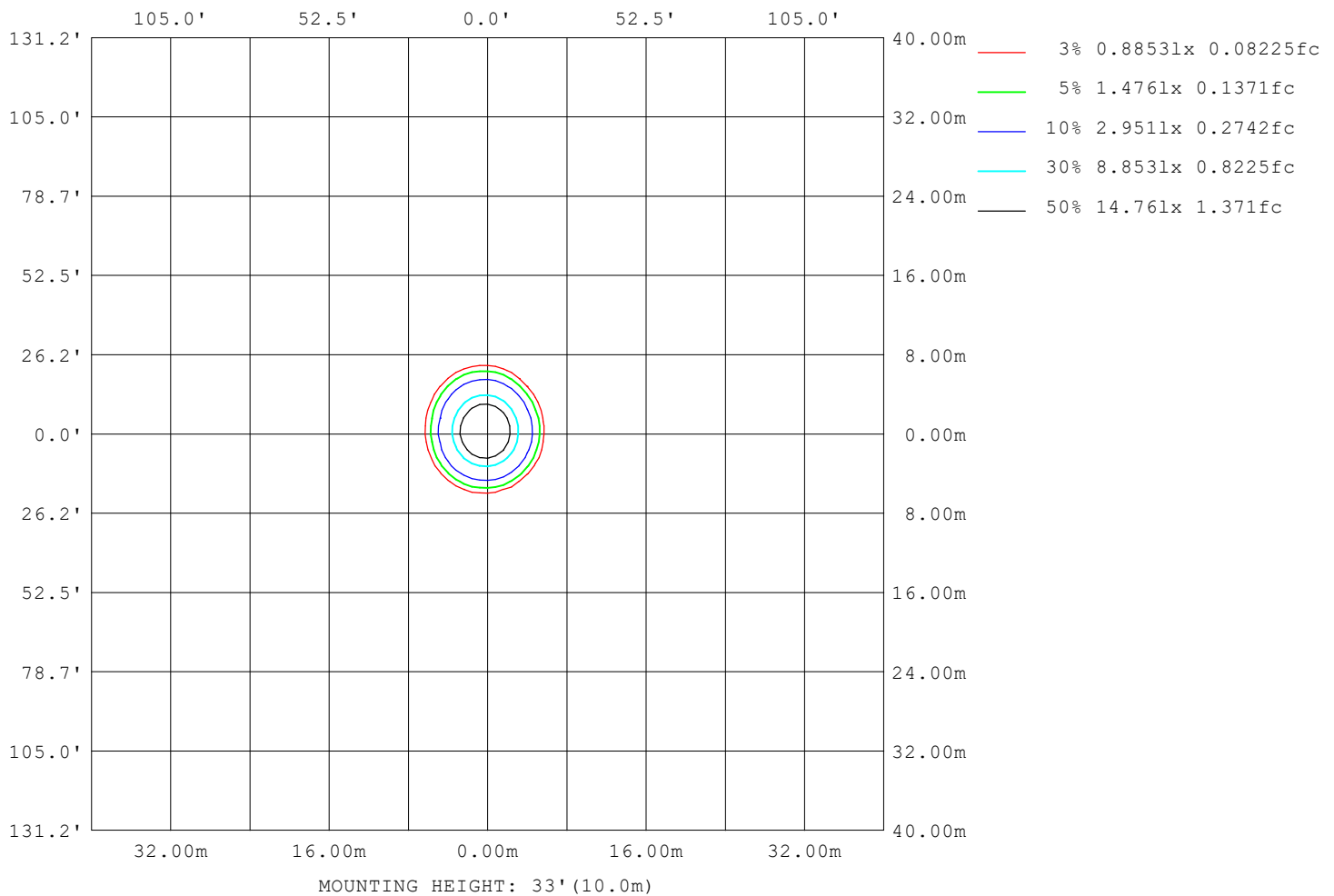
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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: 92EL141030/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: 92EL141030/WHBK	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 135 x 35 x 68	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: rectangular	Shielding Angle:

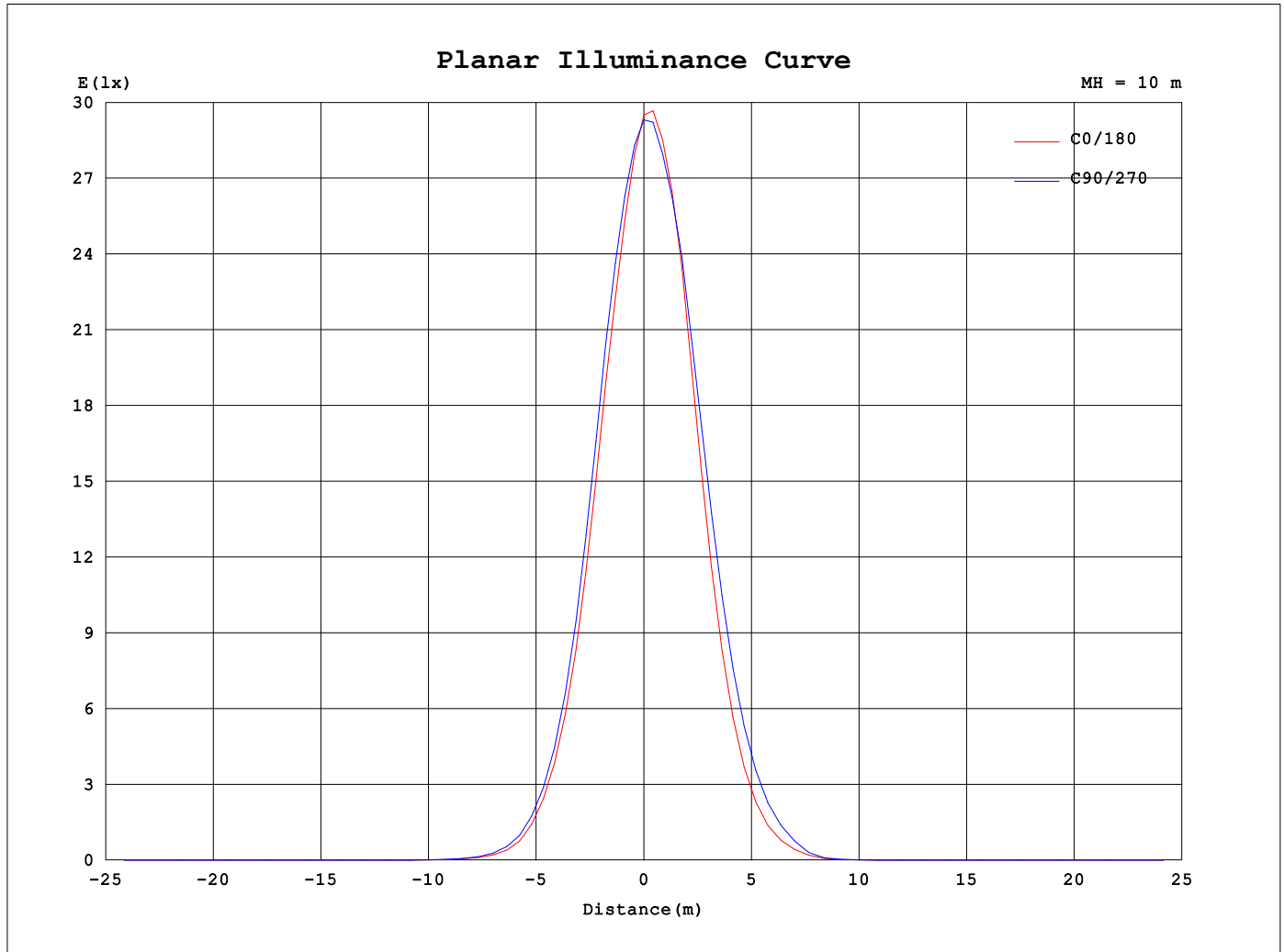
AvgL	cd/m2
L_0~180 (65) av	120
L_0~180 (75) av	77
L_0~180 (85) av	69
L_90~270 (65) av	57
L_90~270 (75) av	27
L_90~270 (85) av	70
L_45 (65) av	47
L_45 (75) av	22
L_45 (85) av	48

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:

```

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:

```