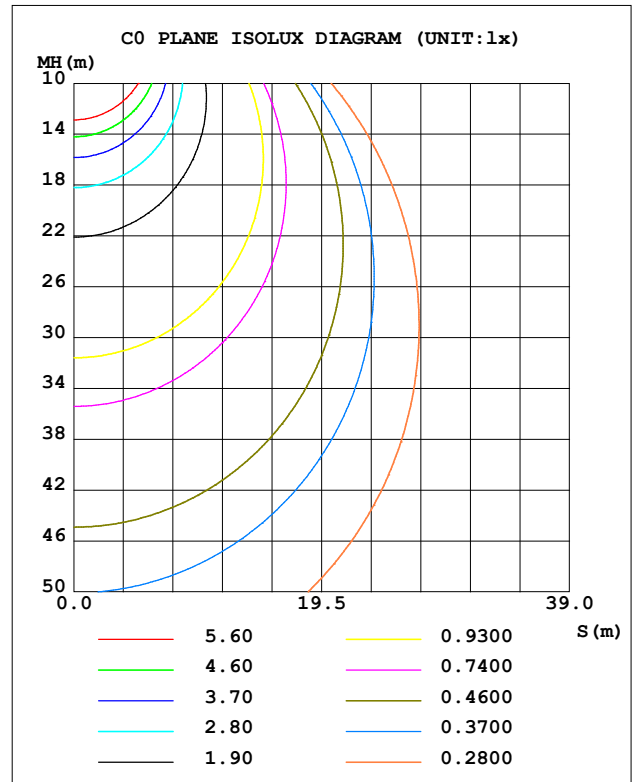
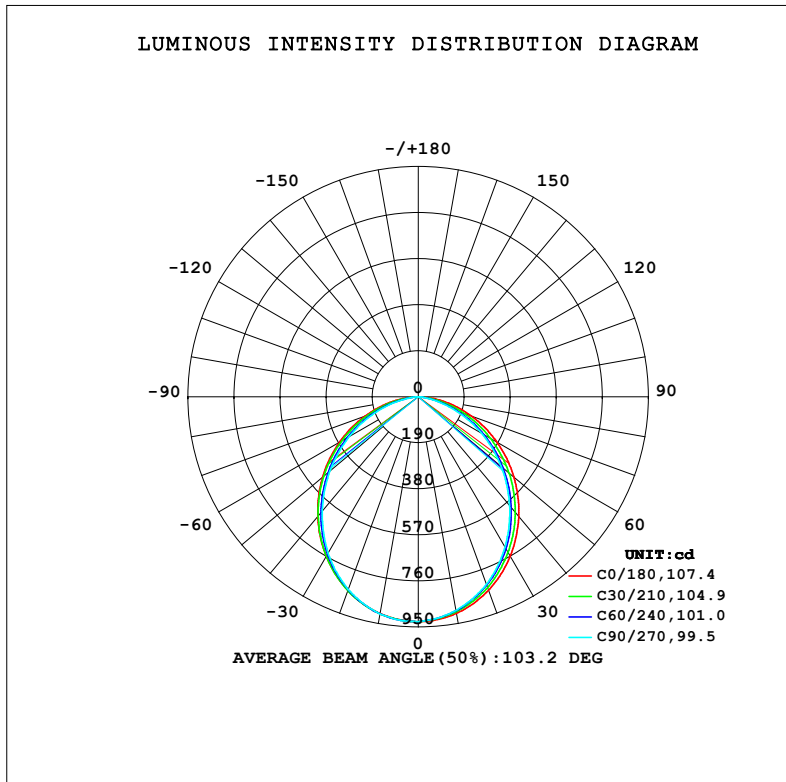


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: 99POM602430/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 600 x 50 x 75	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	99POM602430/BL	I _{max} (cd)	928.1	S/MH (C0/180)	1.22
NOMINAL POWER (W)	24	LOR (%)	109.1	S/MH (C90/270)	1.20
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	2357.3	η UP, DN (C0-180)	0.0, 53.4
NOMINAL FLUX (lm)	2160	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 55.7
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	230	η down (%)	109.1	CIBSE SHR MAX	1.35



H(β) Range: -90 - 90 DEG
 H(β) Interval: 2.0 DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators:
 Test Date: 30 November 2022

V(B) Range: -85 - 85 DEG
 V(B) Interval: 2.0 DEG
 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	907.4	898.1	896.0	898.9	908.2	909.3	910.4	908.4	0- 10	87.38	87.38	3.71,4.05
20	849.2	831.0	823.7	832.4	849.8	849.8	846.1	848.6	10- 20	247.2	334.6	14.2,15.5
30	759.5	732.2	716.2	733.4	759.7	754.6	745.0	753.4	20- 30	366.5	701.1	29.7,32.5
40	645.4	610.0	586.8	609.9	645.7	634.7	616.5	633.4	30- 40	428.5	1130	47.9,52.3
50	515.2	471.6	446.4	472.4	515.5	496.8	475.5	495.4	40- 50	428.2	1558	66.1,72.1
60	375.6	327.6	301.8	328.5	375.7	351.4	329.1	349.6	50- 60	370.3	1928	81.8,89.3
70	233.6	184.7	159.9	185.7	233.5	205.8	183.8	203.7	60- 70	266.9	2195	93.1,102
80	100.7	54.76	32.96	55.43	99.98	71.24	51.98	69.34	70- 80	137.9	2333	99,108
90	1.165	0	0	0	1.323	0	0	0	80- 90	24.47	2357	100,109
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): 1347.5 lm

%lum = 57.2%

%lamp = 62.4%

Conical surface Flux(130deg): 2076.7 lm

%lum = 88.1%

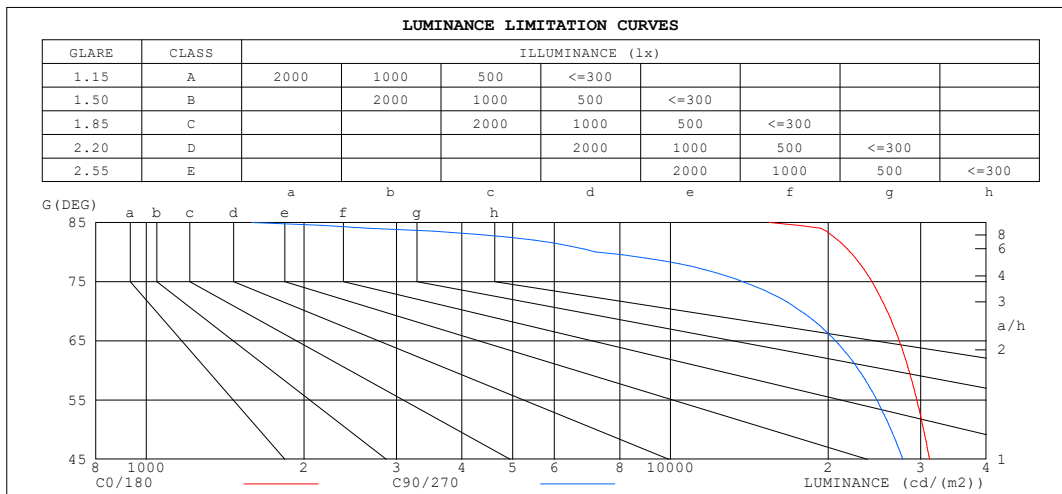
%lamp = 96.1%

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:30 November 2022

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
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: 99POM602430/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 600 x 50 x 75	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	15444	1588
80	21987	7199
75	24221	13743
70	25901	17724
65	27314	20632
60	28485	22892
55	29500	24741
50	30396	26338
45	31201	27745

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:30 November 2022

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
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: 99POM602430/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 600 x 50 x 75	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.:	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	.180	.057	.310	.177	.056	.295	.169	.054	.282	.163	.052	.270	.156	.050	
2.0	.303	.166	.051	.297	.163	.050	.284	.158	.049	.272	.153	.048	.261	.148	.047	
3.0	.283	.151	.045	.277	.148	.045	.266	.144	.044	.256	.140	.043	.246	.136	.042	
4.0	.263	.137	.040	.258	.135	.040	.248	.131	.039	.238	.128	.039	.230	.125	.038	
5.0	.244	.124	.036	.239	.123	.036	.231	.120	.035	.222	.117	.035	.215	.115	.034	
6.0	.227	.114	.033	.223	.113	.032	.215	.110	.032	.208	.108	.032	.201	.106	.031	
7.0	.212	.105	.030	.208	.104	.030	.201	.102	.029	.195	.100	.029	.189	.098	.029	
8.0	.198	.097	.027	.195	.096	.027	.189	.094	.027	.183	.093	.027	.177	.091	.027	
9.0	.186	.090	.025	.183	.089	.025	.178	.088	.025	.172	.086	.025	.167	.085	.025	
10.0	.175	.084	.023	.173	.083	.023	.168	.082	.023	.163	.081	.023	.158	.080	.023	

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	.208	.208	.208	.178	.178	.178	.121	.121	.121	.070	.070	.070	.022	.022	.022	
1.0	.195	.171	.148	.167	.146	.128	.114	.101	.088	.066	.058	.051	.021	.019	.017	
2.0	.186	.144	.109	.159	.124	.094	.109	.086	.066	.063	.050	.038	.020	.016	.013	
3.0	.177	.125	.083	.152	.108	.072	.104	.075	.050	.060	.044	.030	.019	.014	.010	
4.0	.169	.110	.065	.145	.095	.056	.100	.066	.040	.058	.039	.024	.019	.013	.008	
5.0	.161	.099	.053	.138	.085	.046	.095	.060	.032	.055	.035	.019	.018	.011	.006	
6.0	.153	.089	.044	.132	.077	.038	.091	.054	.027	.053	.032	.016	.017	.010	.005	
7.0	.146	.082	.037	.125	.071	.032	.087	.050	.023	.050	.029	.014	.016	.010	.004	
8.0	.139	.075	.032	.120	.065	.028	.083	.046	.020	.048	.027	.012	.016	.009	.004	
9.0	.132	.070	.028	.114	.061	.024	.079	.043	.017	.046	.025	.010	.015	.008	.003	
10.0	.126	.065	.025	.109	.057	.022	.076	.040	.015	.044	.024	.009	.014	.008	.003	

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:30 November 2022

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
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: 99POM602430/BL					TYPE:					WEIGHT: 1				
SPEC.:					DIM.: 600 x 50 x 75					SERIAL No.: 0				
MFR.: Elmark Industries JSC					SUR.:					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	21.9	23.3	22.1	23.5	23.7	21.0	22.5	21.2	22.7	22.9				
3H	23.3	24.7	23.6	24.9	25.2	22.1	23.4	22.4	23.7	23.9				
4H	23.9	25.2	24.3	25.5	25.7	22.4	23.7	22.7	23.9	24.2				
6H	24.4	25.6	24.7	25.9	26.2	22.5	23.7	22.8	24.0	24.2				
8H	24.5	25.7	24.9	26.0	26.3	22.4	23.6	22.8	23.9	24.2				
12H	24.6	25.7	25.0	26.0	26.3	22.4	23.5	22.8	23.8	24.1				
4H 2H	22.3	23.6	22.6	23.8	24.1	21.6	22.9	21.9	23.1	23.4				
3H	23.9	25.1	24.3	25.4	25.7	22.8	24.0	23.2	24.3	24.6				
4H	24.7	25.7	25.0	26.0	26.3	23.2	24.3	23.6	24.6	24.9				
6H	25.2	26.1	25.6	26.5	26.8	23.4	24.3	23.8	24.6	25.0				
8H	25.4	26.3	25.8	26.6	27.0	23.4	24.2	23.8	24.6	25.0				
12H	25.5	26.3	26.0	26.7	27.1	23.3	24.1	23.8	24.5	24.9				
8H 4H	24.8	25.6	25.2	26.0	26.4	23.5	24.3	23.9	24.7	25.1				
6H	25.4	26.1	25.9	26.5	26.9	23.7	24.4	24.1	24.8	25.2				
8H	25.7	26.3	26.1	26.7	27.2	23.7	24.3	24.1	24.7	25.2				
12H	25.8	26.4	26.3	26.8	27.3	23.7	24.2	24.1	24.6	25.1				
12H 4H	24.7	25.5	25.2	25.9	26.3	23.5	24.2	23.9	24.6	25.0				
6H	25.4	26.0	25.9	26.4	26.9	23.7	24.3	24.1	24.7	25.2				
8H	25.7	26.2	26.1	26.6	27.1	23.7	24.2	24.2	24.7	25.2				
Variations with the observer position at spacings(CIE Pub.117):														
S = 1.0H	+ 0.2 / - 0.2					+ 0.3 / - 0.3								
1.5H	+ 0.1 / - 0.3					+ 0.2 / - 0.4								
2.0H	+ 0.3 / - 0.4					+ 0.4 / - 0.4								

CIE Pub.117, 2160 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.7)
Area: 0.02637 m2

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:30 November 2022

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
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: 99POM602430/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 600 x 50 x 75	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.:	Shielding Angle:

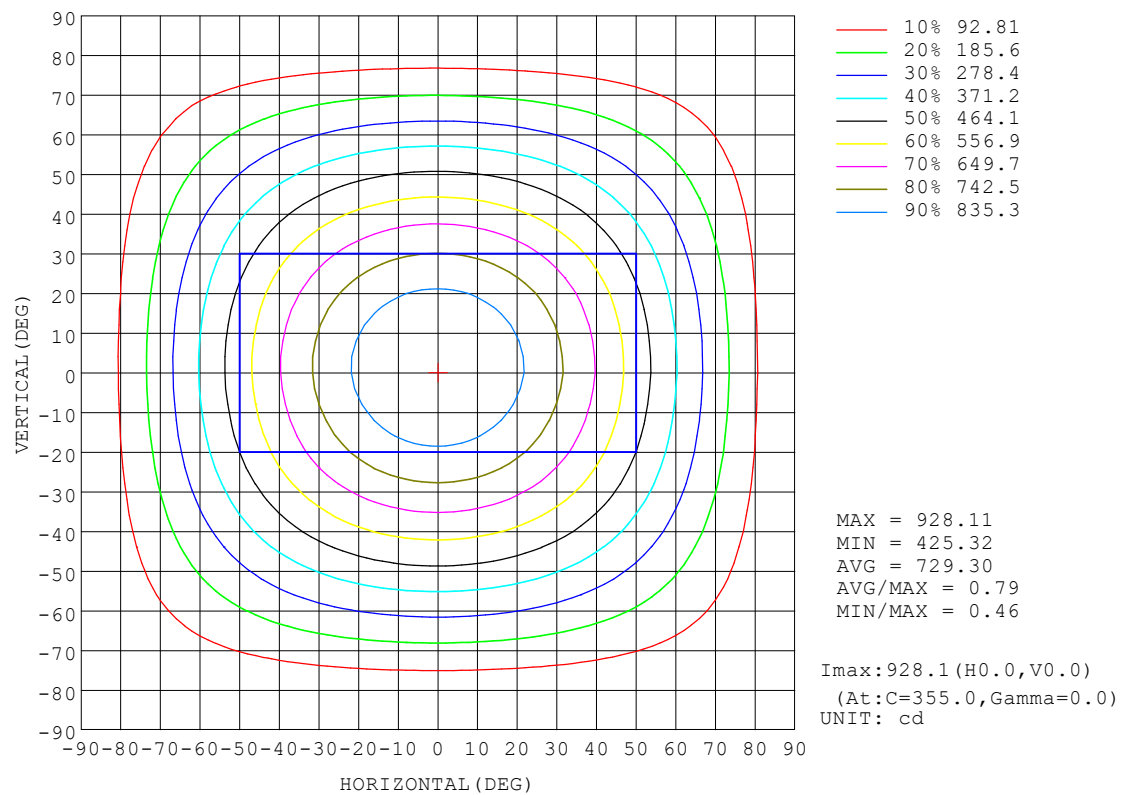
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	65	52	45	64	52	45	63	52	45	38
0.80	76	64	56	75	63	56	73	62	55	48
1.00	85	73	66	84	73	65	81	74	65	57
1.25	93	82	74	91	81	74	88	79	73	65
1.50	98	88	80	96	87	80	93	85	79	71
2.00	105	96	90	103	95	89	99	93	87	79
2.50	109	101	95	107	100	94	103	97	92	83
3.00	113	106	100	110	104	99	106	101	96	87
4.00	117	111	106	114	109	105	110	106	102	92
5.00	119	114	110	117	112	109	112	108	105	96
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:30 November 2022

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME: 99POM602430/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 600 x 50 x 75	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.:	Shielding Angle:

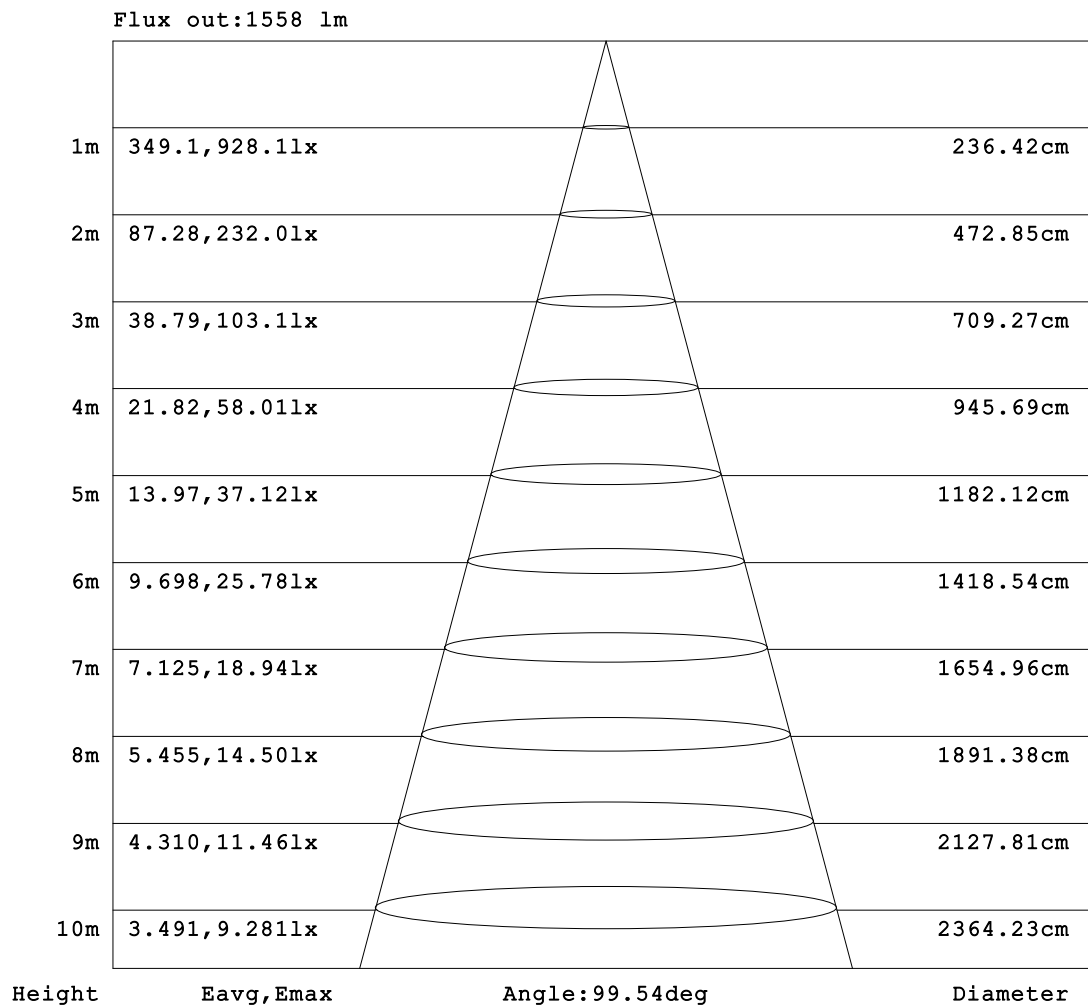


H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:30 November 2022

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

AAI Figure

NAME: 99POM602430/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 600 x 50 x 75	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.:	Shielding Angle:



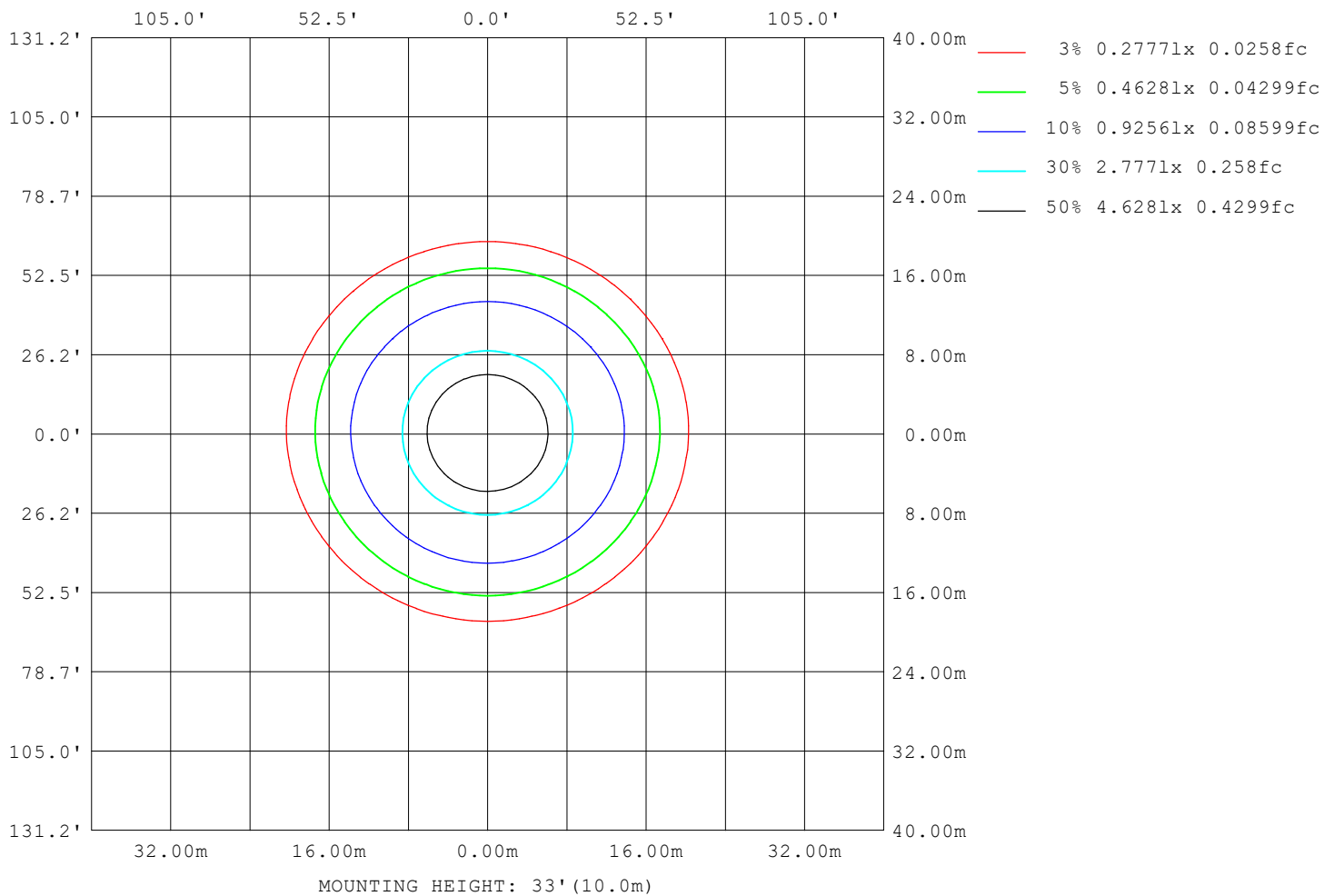
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
 H(β) Interval: 2.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators:
 Test Date: 30 November 2022

V(B) Range:-85 - 85DEG
 V(B) Interval: 2.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.456
 Humidity: 65.0%
 Test Distance: 6.265m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

NAME: 99POM602430/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 600 x 50 x 75	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.:	Shielding Angle:



H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:30 November 2022

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
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: 99POM602430/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 600 x 50 x 75	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.:	Shielding Angle:

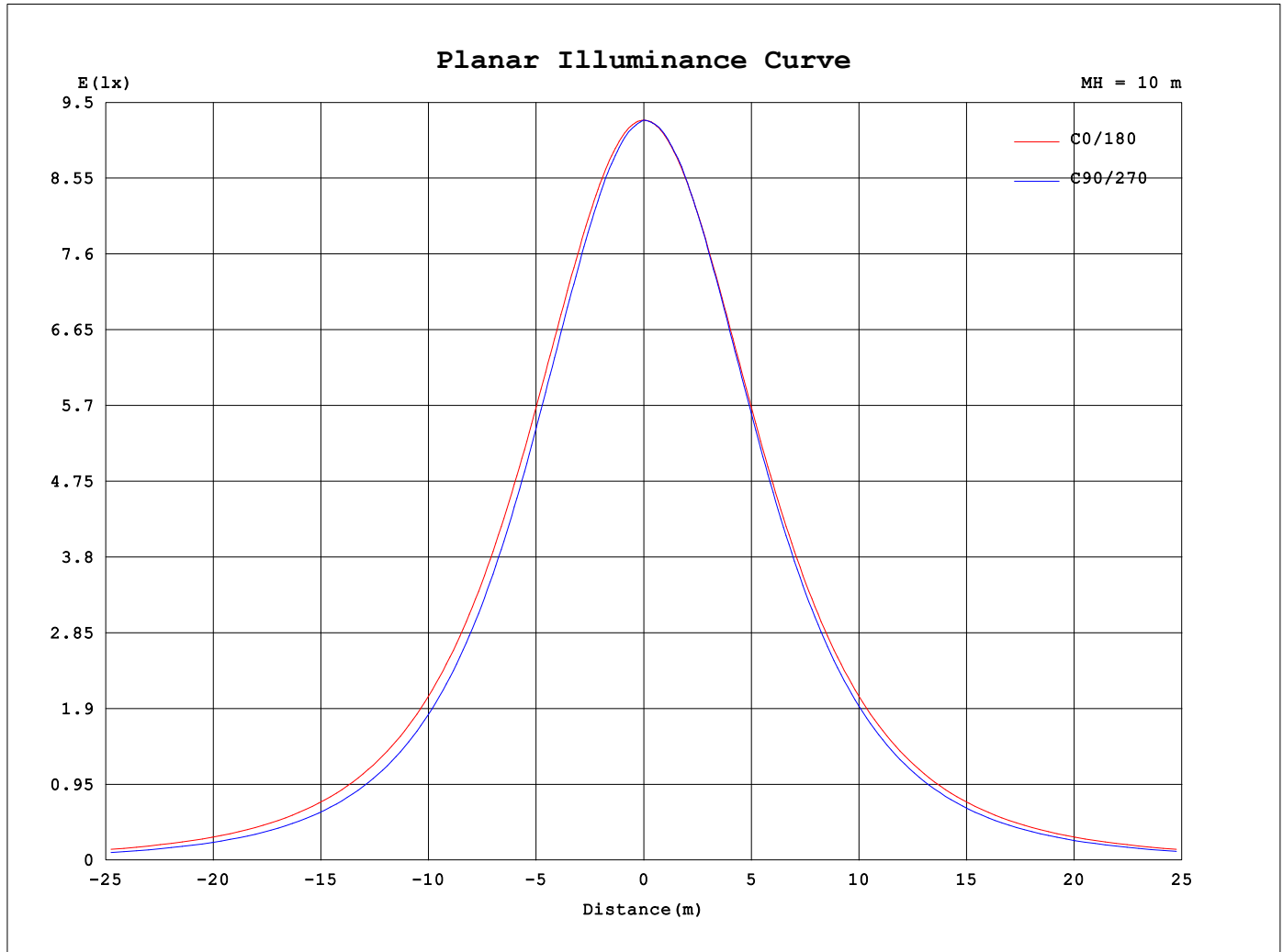
AvgL	cd/m2
L_0~180 (65) av	27318
L_0~180 (75) av	24188
L_0~180 (85) av	15304
L_90~270 (65) av	21797
L_90~270 (75) av	15355
L_90~270 (85) av	2355
L_45 (65) av	23913
L_45 (75) av	18513
L_45 (85) av	5797

Standard: GB/T 29293-2012

H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:30 November 2022

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

Planar Illuminance Curve



H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:30 November 2022

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.456
Humidity:65.0%
Test Distance:6.265m [K=1.0000]
Remarks:

```
V(B) Range:-85 - 85DEG
V(B) Interval: 2.0DEG
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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