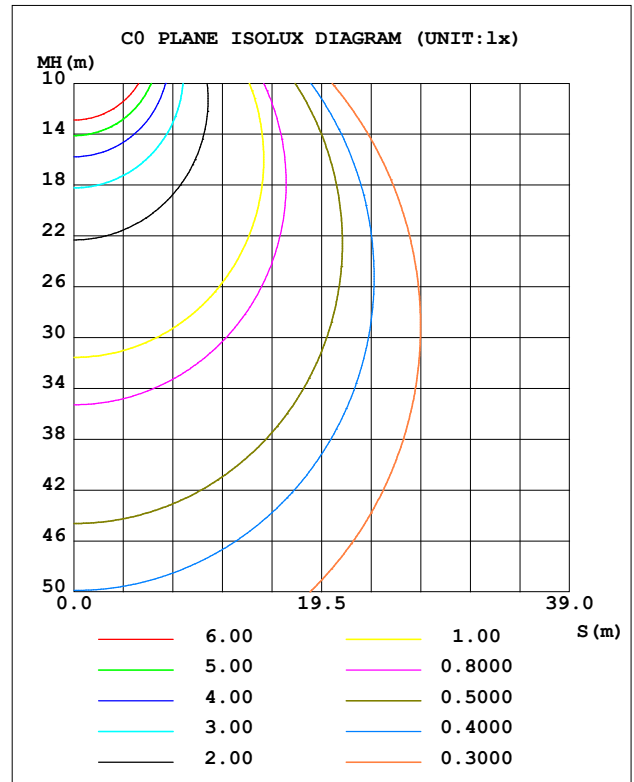
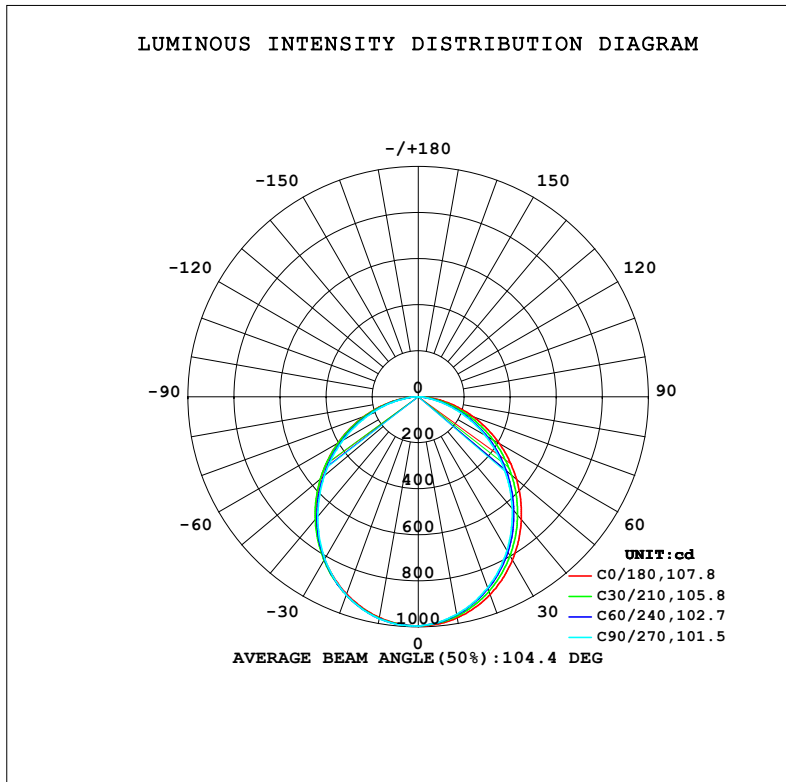


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: 99POM602440/WH	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	9POM602440/WH	I _{max} (cd)	995.9	S/MH (C0/180)	1.22
NOMINAL POWER (W)	24	LOR (%)	119.6	S/MH (C90/270)	1.22
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	2583.5	η UP, DN (C0-180)	0.0, 58.0
NOMINAL FLUX (lm)	2160	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 61.6
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	230	η down (%)	119.6	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: 6.265 m [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	974.9	964.0	960.1	963.4	973.8	977.0	979.7	977.6	0- 10	93.81	93.81	3.63,4.34
20	913.9	892.3	882.7	891.2	911.4	916.3	916.4	917.3	10- 20	265.7	359.5	13.9,16.6
30	818.4	787.3	771.7	785.4	815.0	817.7	813.6	819.5	20- 30	395.0	754.5	29.2,34.9
40	696.9	658.7	635.3	656.2	693.2	692.2	679.8	694.2	30- 40	463.8	1218	47.2,56.4
50	557.3	512.8	487.3	510.4	553.6	546.4	531.7	548.3	40- 50	466.0	1684	65.2,78
60	407.1	359.7	334.9	357.9	403.5	392.3	377.1	393.3	50- 60	406.5	2091	80.9,96.8
70	253.9	207.8	184.9	206.6	250.7	237.6	223.4	237.7	60- 70	297.9	2389	92.5,111
80	110.3	69.41	51.74	68.92	107.3	93.95	82.60	93.63	70- 80	161.1	2550	98.7,118
90	1.279	0	0	0	1.467	0	0	0	80- 90	33.66	2583	100,120
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): 1455 lm

%lum = 56.3%

%lamp = 67.4%

Conical surface Flux(130deg): 2255.7 lm

%lum = 87.3%

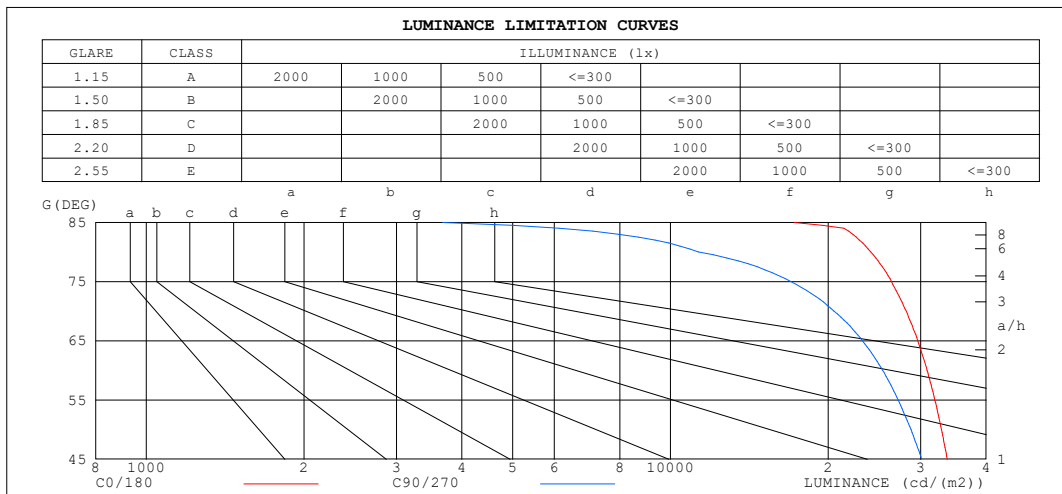
%lamp = 104.4%

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: 99POM602440/WH	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	17233	3673
80	24084	11298
75	26395	16970
70	28149	20505
65	29635	23241
60	30876	25398
55	31938	27186
50	32881	28749
45	33720	30143

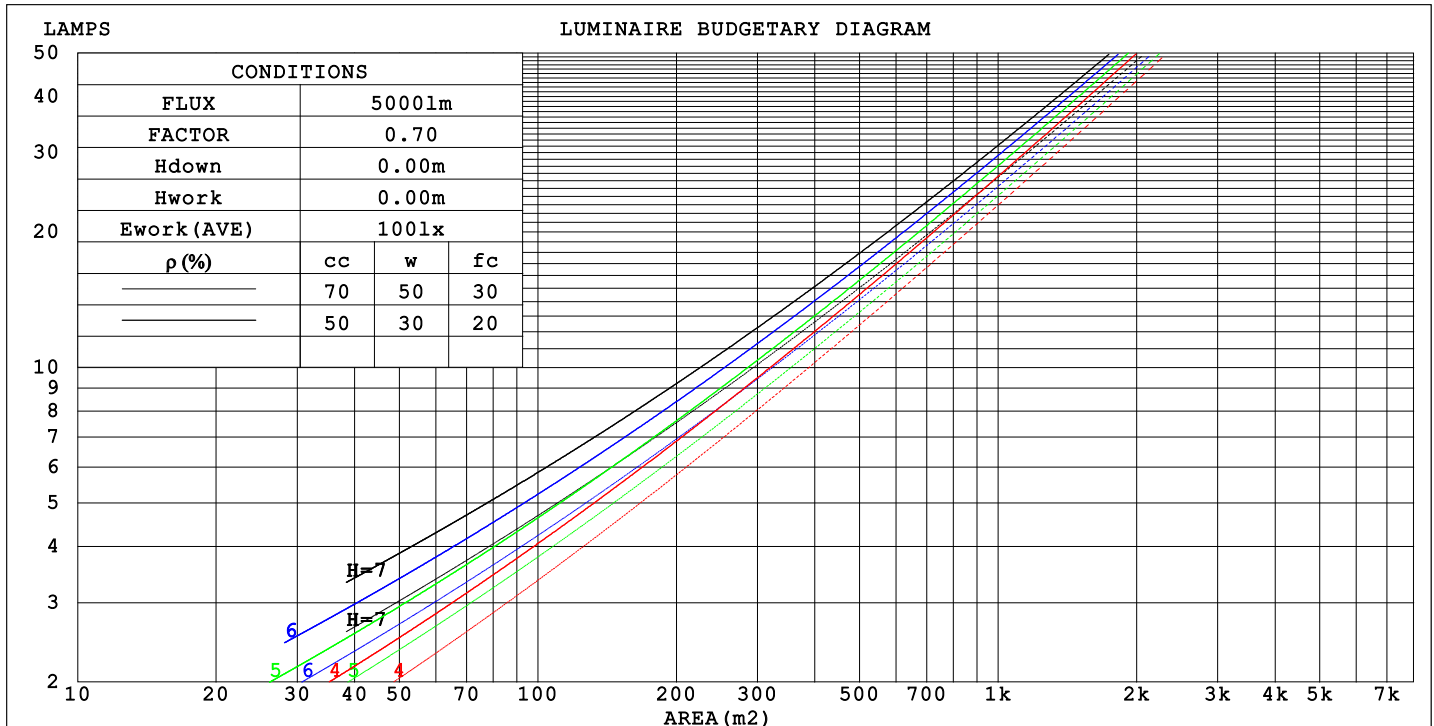
H(β) Range:-90 - 90DEG
H(β) Interval: 2.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:
Test Date:30 November 2022

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: 99POM602440/WH	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 Coefficients of Utilization(CU)															
0.0	1.42	1.42	1.42	1.39	1.39	1.39	1.33	1.33	1.33	1.27	1.27	1.27	1.22	1.22	1.22	1.20
1.0	1.25	1.20	1.16	1.22	1.18	1.14	1.17	1.14	1.10	1.13	1.10	1.07	1.08	1.06	1.04	1.01
2.0	1.09	1.01	.95	1.07	.90	.94	1.03	.97	.91	.99	.94	.89	.95	.91	.87	.85
3.0	.96	.87	.79	.94	.86	.78	.91	.83	.77	.88	.81	.76	.85	.79	.74	.72
4.0	.86	.75	.67	.84	.74	.67	.81	.73	.66	.78	.71	.65	.76	.69	.64	.62
5.0	.77	.66	.58	.75	.65	.58	.73	.64	.57	.70	.63	.57	.68	.61	.56	.54
6.0	.69	.59	.51	.68	.58	.51	.66	.57	.50	.64	.56	.50	.62	.55	.49	.47
7.0	.63	.52	.45	.62	.52	.45	.60	.51	.45	.58	.50	.44	.57	.49	.44	.42
8.0	.57	.47	.40	.57	.47	.40	.55	.46	.40	.53	.46	.40	.52	.45	.39	.37
9.0	.53	.43	.36	.52	.43	.36	.51	.42	.36	.49	.42	.36	.48	.41	.36	.34
10.0	.49	.39	.33	.48	.39	.33	.47	.39	.33	.46	.38	.33	.45	.38	.33	.30



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:

WEC AND CCEC

NAME: 99POM602440/WH	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	.354	.202	.064	.346	.197	.063	.330	.189	.060	.316	.182	.058	.302	.175	.056	
2.0	.337	.185	.057	.330	.182	.056	.316	.176	.055	.303	.170	.053	.291	.165	.052	
3.0	.314	.167	.050	.307	.164	.050	.295	.160	.049	.283	.155	.048	.273	.151	.047	
4.0	.291	.151	.044	.285	.149	.044	.274	.145	.043	.264	.142	.043	.254	.138	.042	
5.0	.269	.137	.040	.264	.136	.040	.255	.133	.039	.246	.130	.039	.237	.127	.038	
6.0	.250	.126	.036	.246	.124	.036	.237	.122	.035	.229	.119	.035	.222	.117	.035	
7.0	.234	.115	.033	.230	.114	.033	.222	.112	.032	.215	.110	.032	.208	.108	.032	
8.0	.219	.107	.030	.215	.106	.030	.208	.104	.030	.202	.102	.029	.195	.100	.029	
9.0	.205	.099	.028	.202	.098	.028	.196	.097	.027	.190	.095	.027	.184	.094	.027	
10.0	.193	.093	.026	.190	.092	.026	.185	.090	.025	.179	.089	.025	.174	.088	.025	

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	.228	.228	.228	.195	.195	.195	.133	.133	.133	.076	.076	.076	.024	.024	.024	
1.0	.215	.187	.162	.184	.160	.139	.126	.110	.096	.072	.064	.056	.023	.021	.018	
2.0	.204	.158	.119	.175	.136	.103	.120	.094	.072	.069	.055	.042	.022	.018	.014	
3.0	.195	.137	.090	.167	.118	.078	.115	.082	.055	.066	.048	.032	.021	.016	.011	
4.0	.186	.121	.071	.159	.104	.062	.110	.073	.043	.063	.043	.026	.020	.014	.008	
5.0	.177	.108	.057	.152	.094	.050	.105	.065	.035	.061	.038	.021	.020	.013	.007	
6.0	.168	.098	.048	.145	.085	.041	.100	.059	.029	.058	.035	.017	.019	.011	.006	
7.0	.160	.090	.040	.138	.078	.035	.095	.055	.025	.055	.032	.015	.018	.011	.005	
8.0	.153	.083	.035	.131	.072	.030	.091	.050	.022	.053	.030	.013	.017	.010	.004	
9.0	.146	.077	.030	.125	.067	.027	.087	.047	.019	.051	.028	.011	.016	.009	.004	
10.0	.139	.072	.027	.120	.062	.024	.083	.044	.017	.048	.026	.010	.016	.009	.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: 99POM602440/WH					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	22.1	23.6	22.4	23.8	24.0	21.3	22.8	21.6	23.0	23.2				
3H	23.6	25.0	23.9	25.2	25.4	22.5	23.9	22.8	24.1	24.3				
4H	24.2	25.5	24.5	25.8	26.0	22.9	24.2	23.2	24.4	24.7				
6H	24.7	25.9	25.0	26.2	26.4	23.1	24.3	23.4	24.6	24.8				
8H	24.8	26.0	25.1	26.3	26.6	23.1	24.2	23.4	24.5	24.8				
12H	24.9	26.0	25.2	26.3	26.6	23.0	24.2	23.4	24.5	24.8				
4H 2H	22.5	23.8	22.9	24.1	24.4	21.9	23.2	22.2	23.5	23.7				
3H	24.2	25.4	24.6	25.7	26.0	23.3	24.4	23.6	24.7	25.0				
4H	24.9	26.0	25.3	26.3	26.6	23.8	24.8	24.1	25.1	25.4				
6H	25.5	26.4	25.9	26.8	27.1	24.0	24.9	24.4	25.3	25.6				
8H	25.7	26.6	26.1	26.9	27.3	24.0	24.9	24.4	25.3	25.6				
12H	25.8	26.6	26.3	27.0	27.4	24.0	24.8	24.4	25.2	25.6				
8H 4H	25.1	25.9	25.5	26.3	26.7	24.0	24.9	24.4	25.2	25.6				
6H	25.8	26.5	26.2	26.9	27.3	24.3	25.0	24.8	25.4	25.9				
8H	26.0	26.6	26.5	27.1	27.5	24.4	25.0	24.9	25.5	25.9				
12H	26.2	26.7	26.7	27.2	27.7	24.4	24.9	24.9	25.4	25.9				
12H 4H	25.1	25.8	25.5	26.2	26.6	24.0	24.8	24.4	25.2	25.6				
6H	25.8	26.4	26.2	26.8	27.3	24.4	25.0	24.8	25.4	25.9				
8H	26.0	26.6	26.5	27.0	27.5	24.5	25.0	24.9	25.4	25.9				
Variations with the observer position at spacings(CIE Pub.117):														
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.3								
1.5H	+ 0.1 / - 0.2					+ 0.2 / - 0.3								
2.0H	+ 0.3 / - 0.4					+ 0.3 / - 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: 99POM602440/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 600 x 50 x 75	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.:	Shielding Angle:

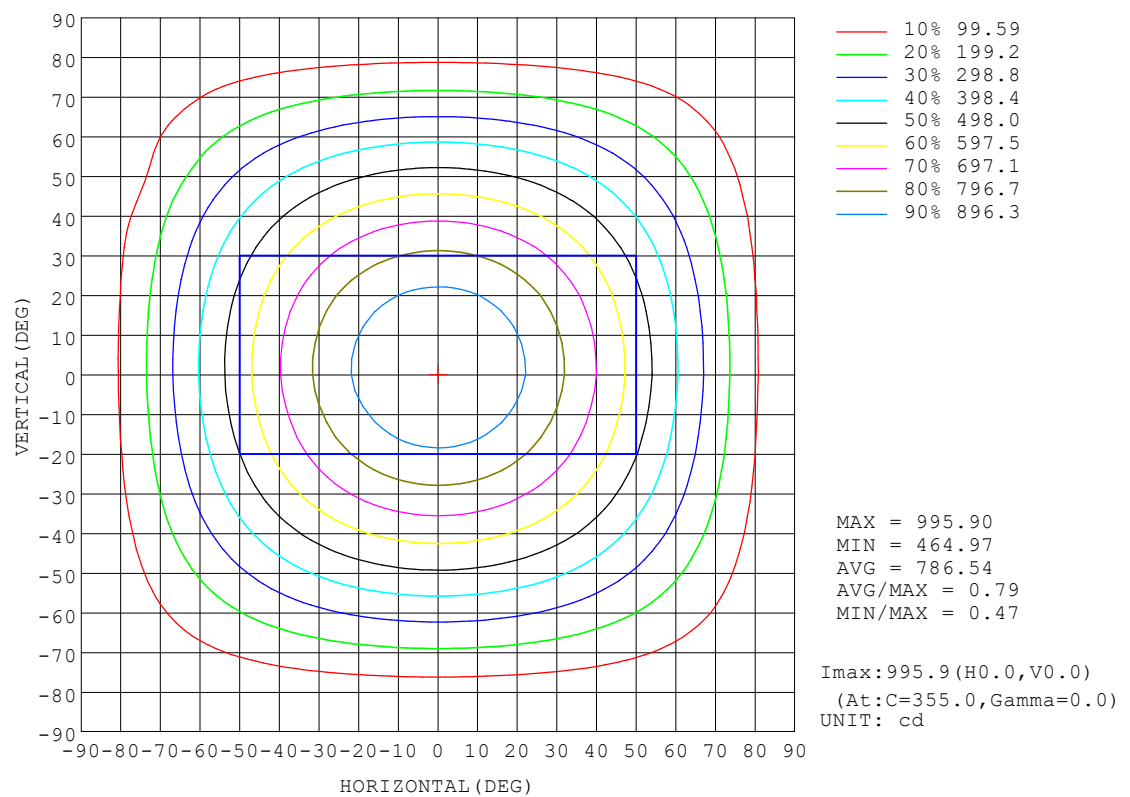
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	71	57	49	70	57	49	68	56	48	41
0.80	83	69	60	81	68	60	79	68	60	52
1.00	93	80	71	91	79	71	88	81	70	62
1.25	101	89	81	99	88	80	96	86	79	71
1.50	107	95	87	105	94	87	101	92	85	77
2.00	115	105	98	113	104	97	109	101	95	86
2.50	119	110	103	117	109	102	112	106	100	90
3.00	123	115	109	121	113	108	116	110	105	95
4.00	128	121	116	125	119	114	120	115	111	101
5.00	131	125	120	128	123	119	122	118	115	104
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: 99POM602440/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 600 x 50 x 75	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.:	Shielding Angle:

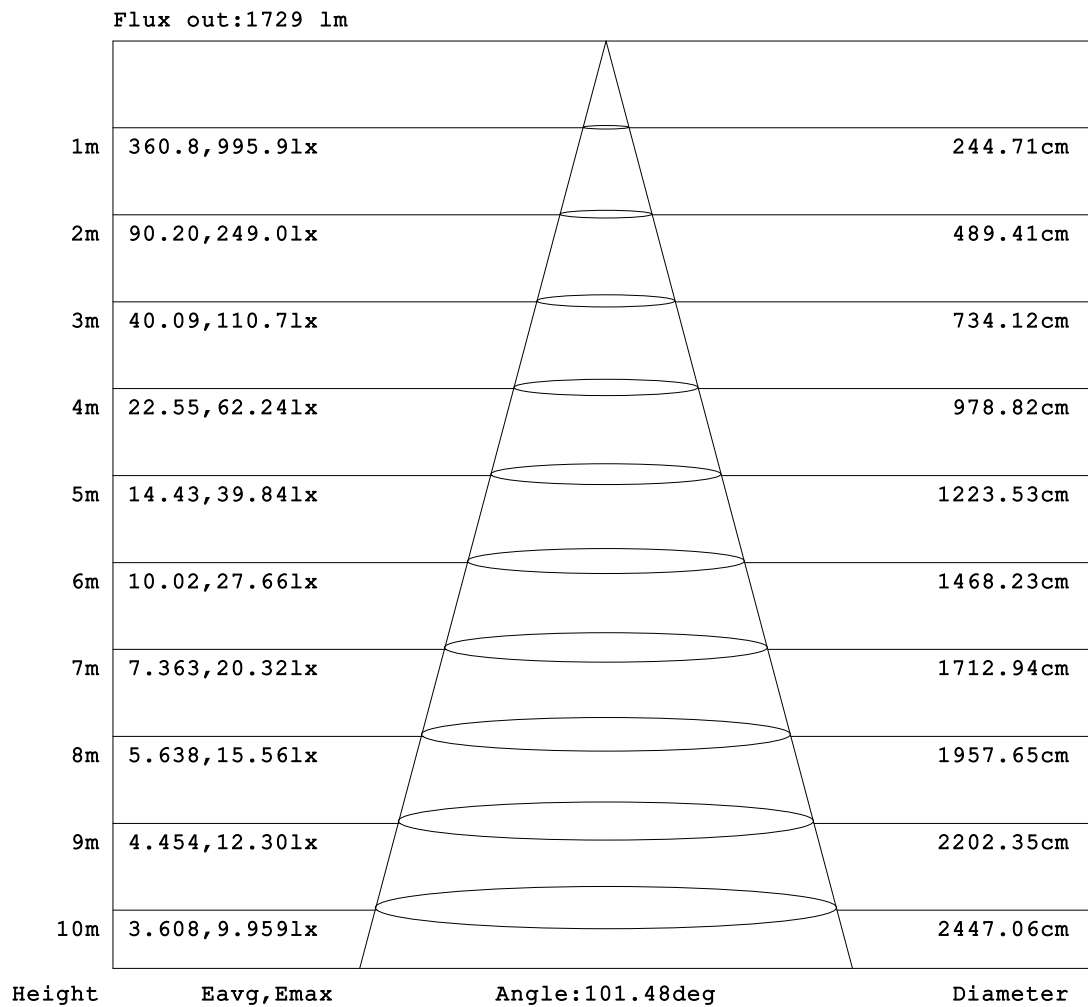


H(β) Range:-90 - 90DEG
 H(β) Interval: 2.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:
 Test Date:30 November 2022

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: 99POM602440/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 600 x 50 x 75	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.:	Shielding Angle:



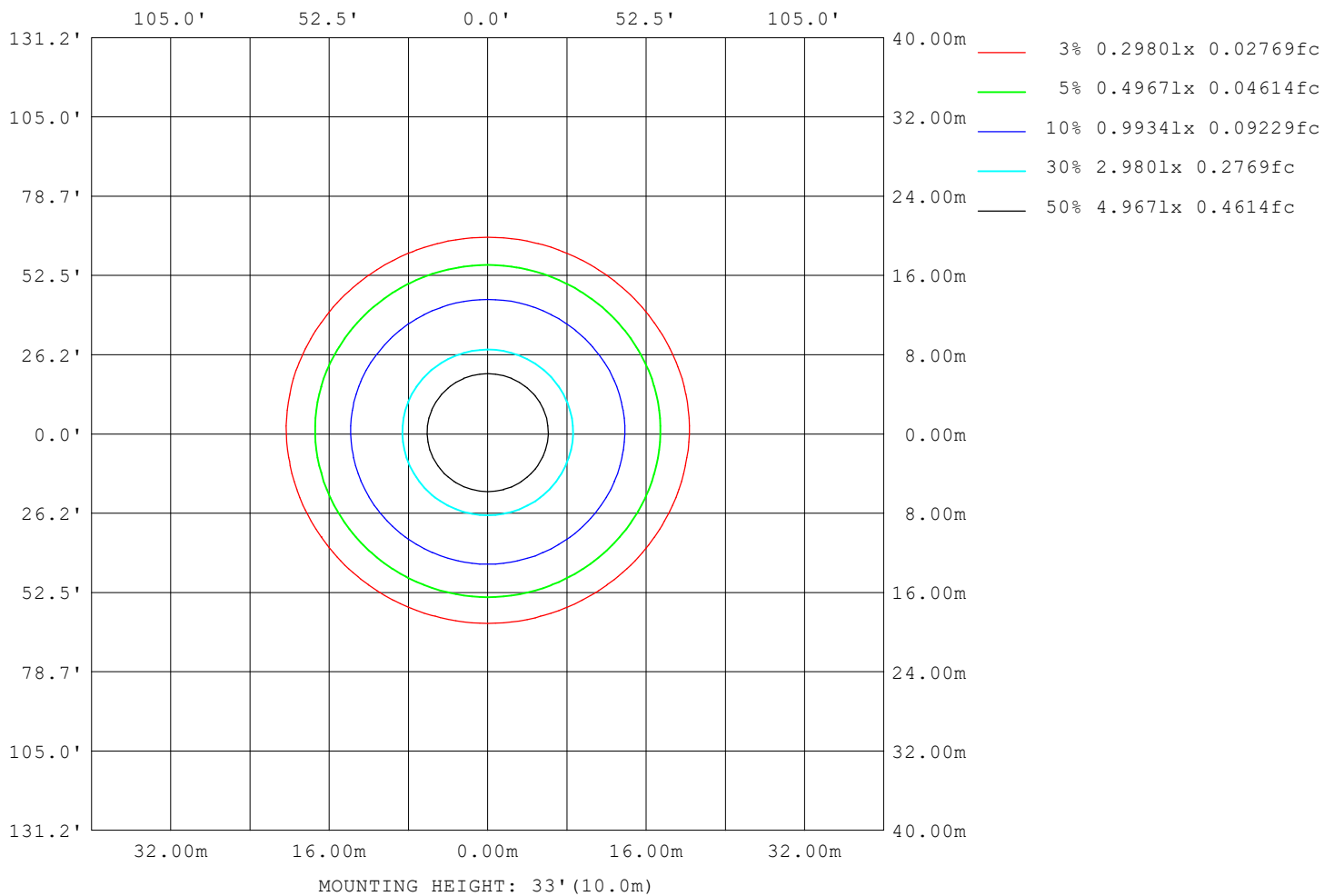
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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: 99POM602440/WH	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: 99POM602440/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 600 x 50 x 75	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.:	Shielding Angle:

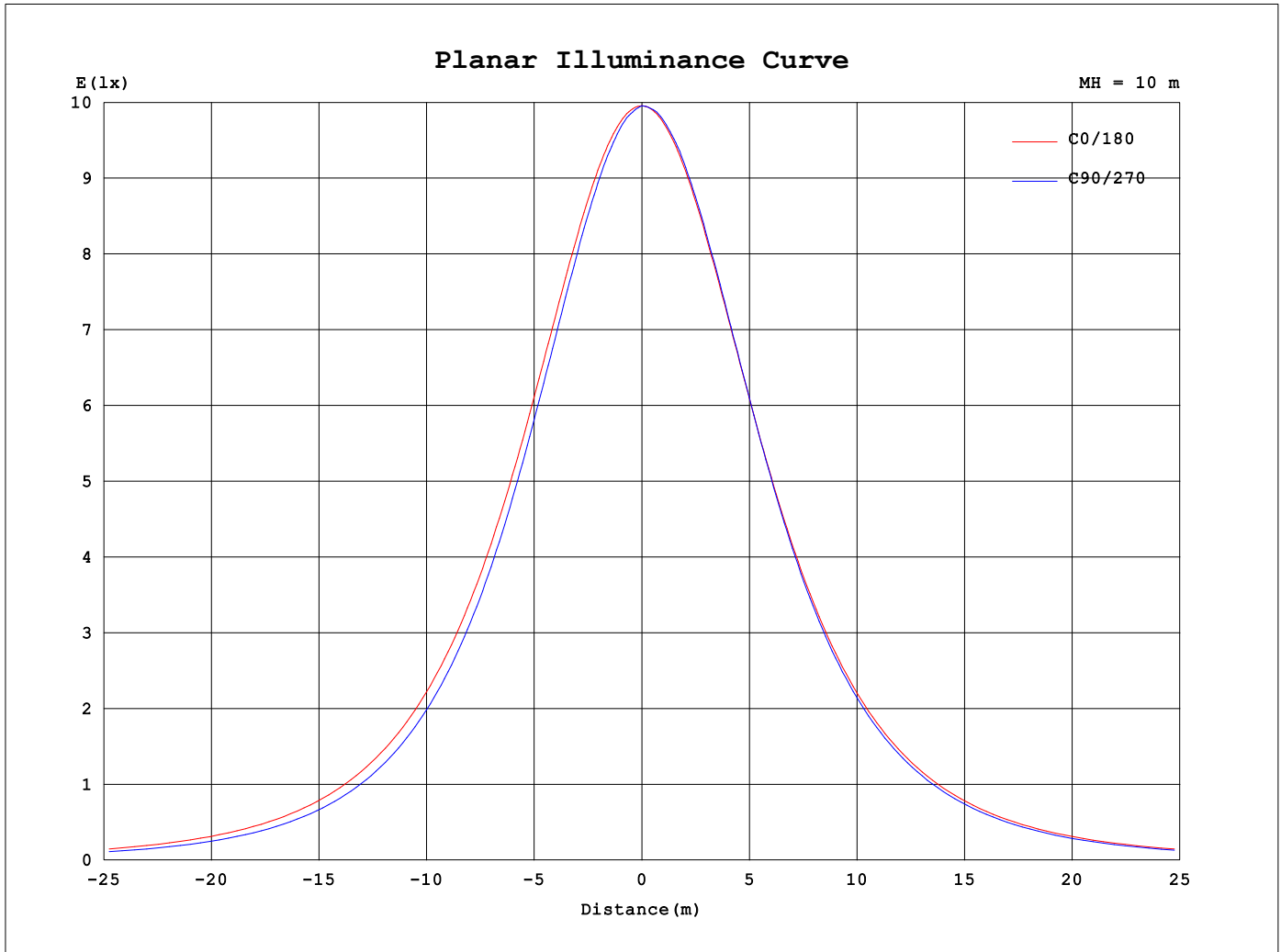
AvgL	cd/m2
L_0~180 (65) av	29488
L_0~180 (75) av	26158
L_0~180 (85) av	16776
L_90~270 (65) av	25068
L_90~270 (75) av	19551
L_90~270 (85) av	5986
L_45 (65) av	26783
L_45 (75) av	21883
L_45 (85) av	11021

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: