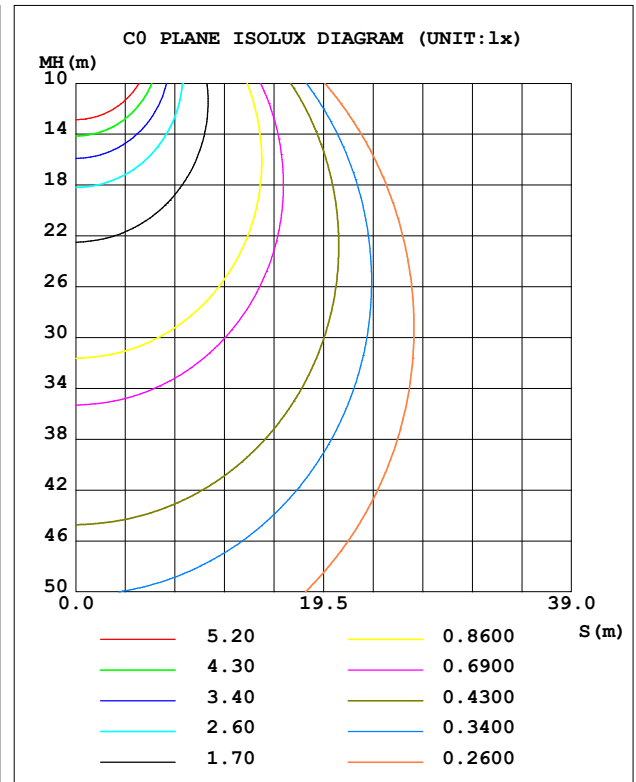
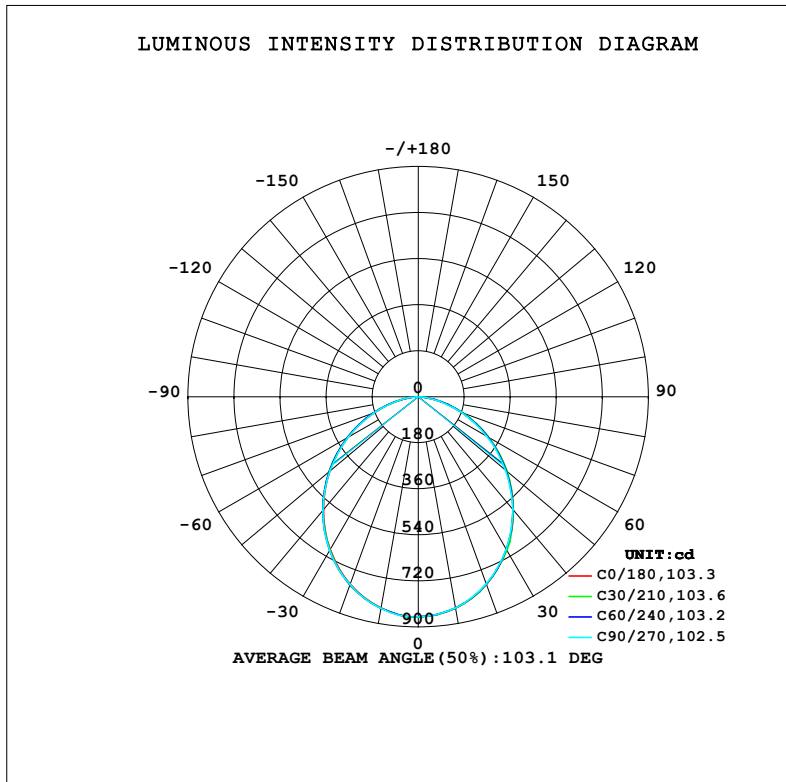


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: 99POMX40/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 50 x 70 x 330	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cross	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	99POMX40/BL	Imax (cd)	861.9	S/MH (C0/180)	1.20
NOMINAL POWER (W)	20	LOR (%)	109.6	S/MH (C90/270)	1.20
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	2192.5	η UP, DN (C0-180)	0.0, 54.6
NOMINAL FLUX (lm)	2000	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 55.0
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	230	η down (%)	109.6	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 05 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	839.5	838.5	837.8	839.6	838.5	839.5	840.0	841.5	0- 10	81.15	81.15	3.7,4.06
20	780.8	780.0	778.3	779.5	779.4	781.8	782.1	783.1	10- 20	229.5	310.7	14.2,15.5
30	690.6	693.4	687.9	687.4	689.3	692.8	693.1	693.2	20- 30	340.2	650.8	29.7,32.5
40	578.2	577.2	576.8	572.7	577.2	580.6	580.1	578.9	30- 40	397.7	1049	47.8,52.4
50	451.8	453.4	444.2	446.5	451.8	455.3	450.8	452.0	40- 50	397.3	1446	65.9,72.3
60	318.2	320.1	310.1	314.6	317.1	322.8	316.5	319.8	50- 60	343.8	1790	81.6,89.5
70	183.1	187.4	178.3	183.4	183.2	190.9	184.0	188.2	60- 70	248.0	2038	92.9,102
80	62.13	67.10	59.19	64.41	62.62	70.36	63.81	68.57	70- 80	129.3	2167	98.8,108
90	1.817	1.501	7.805	1.537	2.425	1.368	6.441	1.383	80- 90	25.63	2192	100,110
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): 1250.7 lm

%lum = 57.0%

%lamp = 62.5%

Conical surface Flux(130deg): 1927.5 lm

%lum = 87.9%

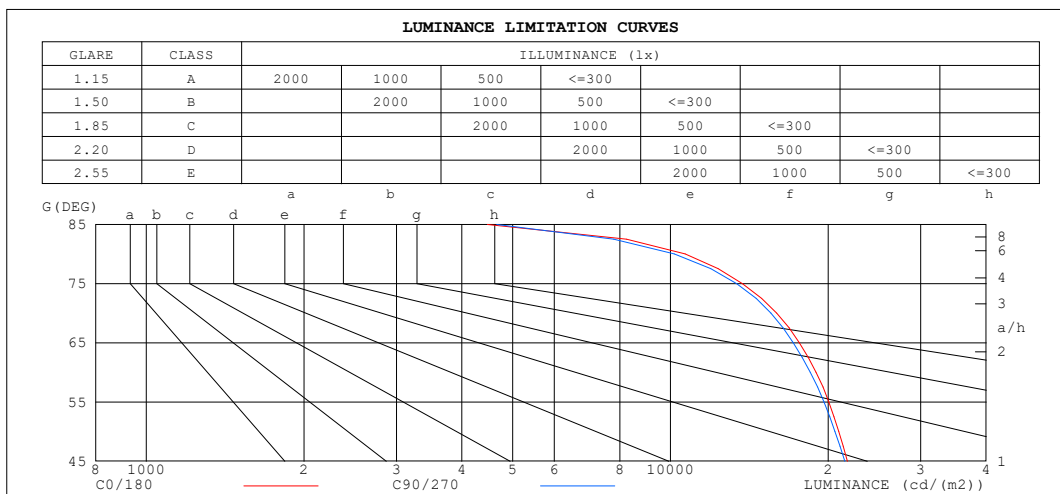
%lamp = 96.4%

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:05 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: 99POMX40/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 50 x 70 x 330	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cross	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	4474	4662
80	10657	10159
75	13714	13366
70	15946	15540
65	17604	17156
60	18954	18485
55	20042	19626
50	20935	20595
45	21741	21493

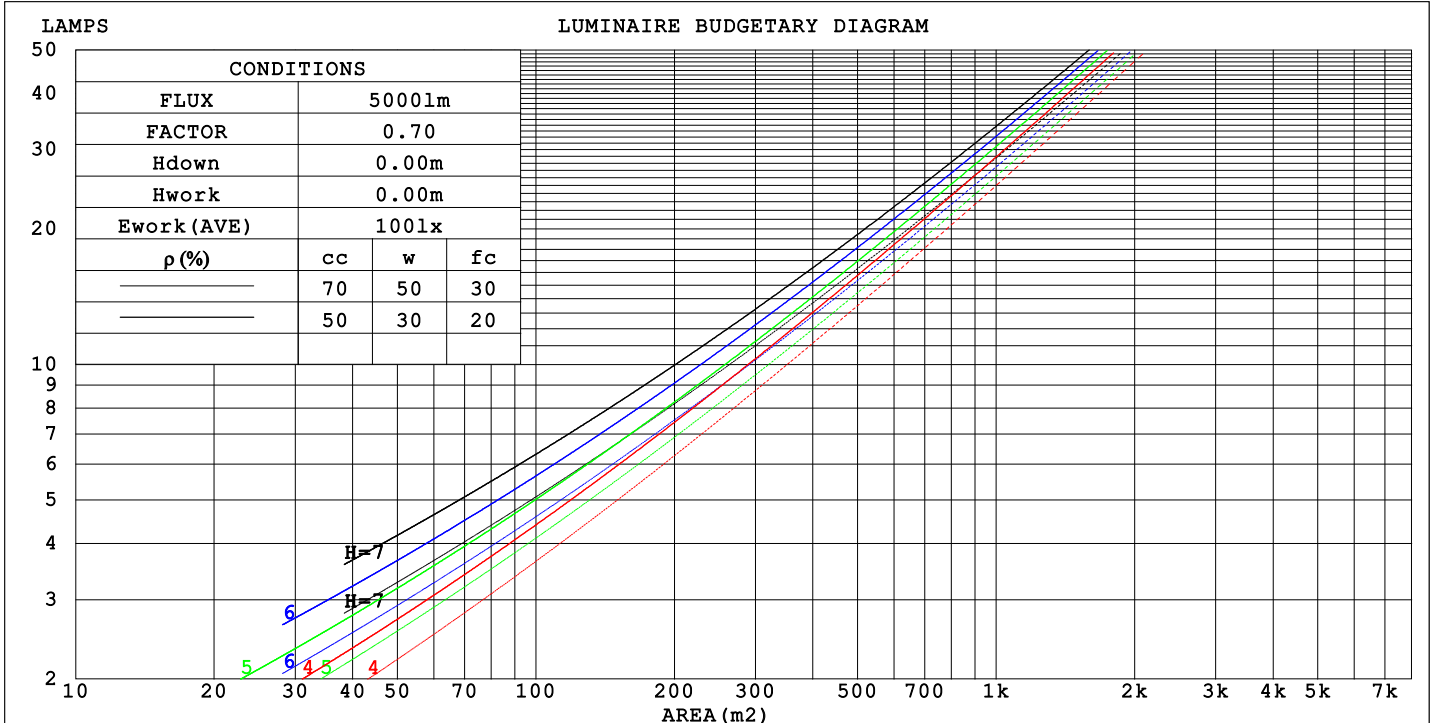
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 05 December 2022

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: 99POMX40/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 50 x 70 x 330	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cross	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:05 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: 99POMX40/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 50 x 70 x 330	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cross	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	.321	.182	.058	.313	.178	.057	.298	.171	.055	.285	.164	.053	.273	.158	.051	
2.0	.306	.167	.051	.299	.165	.051	.286	.159	.049	.274	.154	.048	.264	.149	.047	
3.0	.285	.152	.045	.279	.149	.045	.268	.145	.044	.257	.141	.043	.248	.137	.042	
4.0	.264	.137	.040	.259	.136	.040	.249	.132	.039	.240	.129	.039	.231	.126	.038	
5.0	.245	.125	.036	.241	.124	.036	.232	.121	.036	.224	.118	.035	.216	.115	.035	
6.0	.228	.114	.033	.224	.113	.033	.216	.111	.032	.209	.109	.032	.202	.106	.032	
7.0	.213	.105	.030	.209	.104	.030	.202	.102	.029	.196	.100	.029	.190	.098	.029	
8.0	.199	.097	.027	.196	.097	.027	.190	.095	.027	.184	.093	.027	.178	.092	.027	
9.0	.187	.091	.025	.184	.090	.025	.179	.088	.025	.173	.087	.025	.168	.085	.025	
10.0	.176	.085	.023	.174	.084	.023	.169	.083	.023	.164	.081	.023	.159	.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	.209	.209	.209	.178	.178	.178	.122	.122	.122	.070	.070	.070	.022	.022	.022	
1.0	.196	.171	.149	.168	.147	.128	.115	.101	.089	.066	.059	.052	.021	.019	.017	
2.0	.187	.145	.109	.160	.125	.094	.110	.086	.066	.063	.050	.039	.020	.016	.013	
3.0	.178	.125	.083	.153	.108	.072	.105	.075	.050	.061	.044	.030	.019	.014	.010	
4.0	.170	.111	.065	.146	.095	.057	.100	.067	.040	.058	.039	.024	.019	.013	.008	
5.0	.162	.099	.053	.139	.086	.046	.096	.060	.032	.055	.035	.019	.018	.011	.006	
6.0	.154	.090	.044	.132	.078	.038	.091	.054	.027	.053	.032	.016	.017	.010	.005	
7.0	.147	.082	.037	.126	.071	.032	.087	.050	.023	.051	.029	.014	.016	.010	.005	
8.0	.140	.076	.032	.120	.066	.028	.083	.046	.020	.048	.027	.012	.016	.009	.004	
9.0	.133	.070	.028	.115	.061	.024	.079	.043	.017	.046	.025	.010	.015	.008	.003	
10.0	.127	.066	.025	.109	.057	.022	.076	.040	.015	.044	.024	.009	.014	.008	.003	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:05 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: 99POMX40/BL					TYPE:			WEIGHT: 1			
SPEC.:					DIM.: 50 x 70 x 330			SERIAL No.: 0			
MFR.: Elmark Industries JSC					SUR.: cross			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	20.8	22.3	21.0	22.5	22.7	20.7	22.2	20.9	22.4	22.6
	3H	22.1	23.5	22.4	23.7	23.9	22.0	23.3	22.2	23.5	23.8
	4H	22.6	23.9	22.9	24.1	24.4	22.4	23.7	22.7	23.9	24.2
	6H	22.8	24.0	23.2	24.3	24.6	22.6	23.9	23.0	24.1	24.4
	8H	22.9	24.0	23.2	24.3	24.6	22.7	23.8	23.0	24.1	24.4
	12H	22.8	24.0	23.2	24.2	24.5	22.6	23.8	23.0	24.1	24.4
4H	2H	21.3	22.6	21.6	22.9	23.1	21.2	22.5	21.6	22.8	23.1
	3H	22.8	24.0	23.2	24.3	24.6	22.7	23.8	23.1	24.1	24.4
	4H	23.4	24.4	23.8	24.8	25.1	23.3	24.3	23.6	24.6	24.9
	6H	23.8	24.7	24.2	25.0	25.4	23.6	24.5	24.0	24.9	25.2
	8H	23.8	24.7	24.2	25.1	25.4	23.7	24.5	24.1	24.9	25.3
	12H	23.8	24.6	24.2	25.0	25.4	23.6	24.4	24.1	24.8	25.2
8H	4H	23.6	24.5	24.0	24.8	25.2	23.5	24.3	23.9	24.7	25.1
	6H	24.1	24.8	24.5	25.2	25.6	23.9	24.6	24.4	25.0	25.5
	8H	24.2	24.8	24.7	25.2	25.7	24.0	24.6	24.5	25.1	25.5
	12H	24.2	24.7	24.7	25.2	25.7	24.0	24.6	24.5	25.0	25.5
12H	4H	23.6	24.4	24.0	24.8	25.2	23.5	24.3	23.9	24.6	25.0
	6H	24.1	24.7	24.6	25.2	25.6	23.9	24.6	24.4	25.0	25.4
	8H	24.2	24.8	24.7	25.2	25.7	24.1	24.6	24.5	25.0	25.5
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H		+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H		+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H		+ 0.3 / - 0.4					+ 0.3 / - 0.4				

CIE Pub.117, 2000 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.4)
Area: 0.03355 m2

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:05 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: 99POMX40/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 50 x 70 x 330	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cross	Shielding Angle:

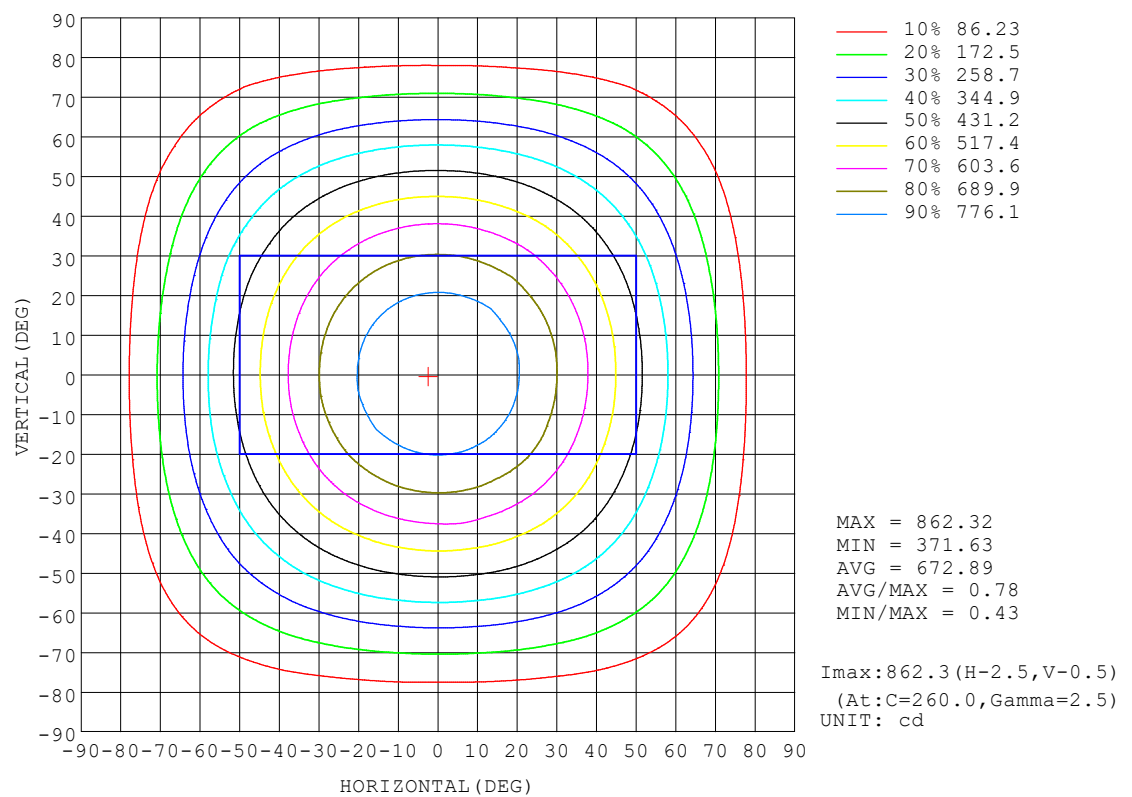
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	65	53	45	64	52	45	63	52	45	38
0.80	76	64	56	75	63	56	73	62	55	48
1.00	85	74	66	84	73	66	82	74	65	57
1.25	93	82	74	91	81	74	88	80	73	65
1.50	98	88	81	96	87	80	93	85	79	71
2.00	106	97	90	104	95	89	100	93	87	79
2.50	110	102	95	107	100	94	103	97	92	83
3.00	113	106	100	111	104	99	107	101	97	88
4.00	117	111	107	115	110	105	110	106	102	93
5.00	120	115	111	117	113	109	112	109	106	96
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: 05 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: 99POMX40/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 50 x 70 x 330	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cross	Shielding Angle:

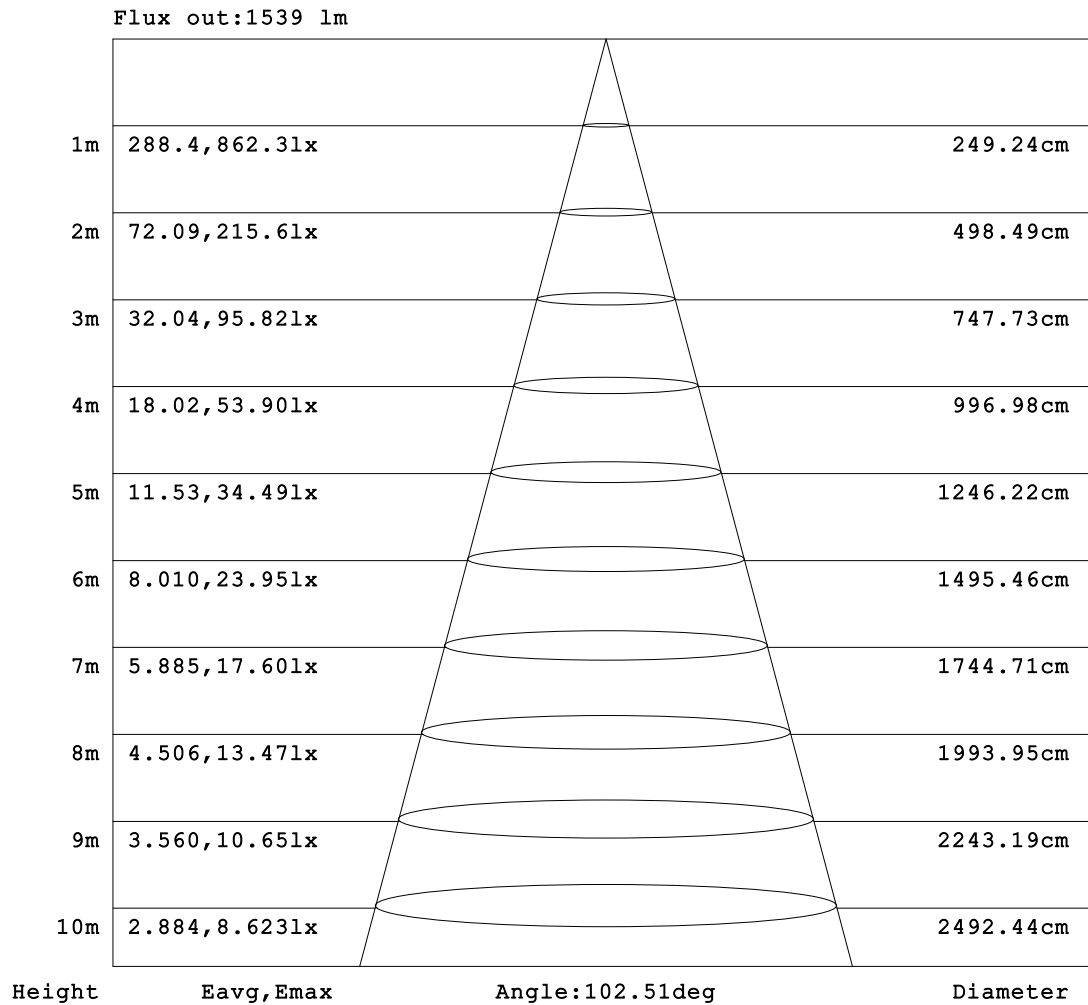


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 05 December 2022

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: 99POMX40/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 50 x 70 x 330	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cross	Shielding Angle:



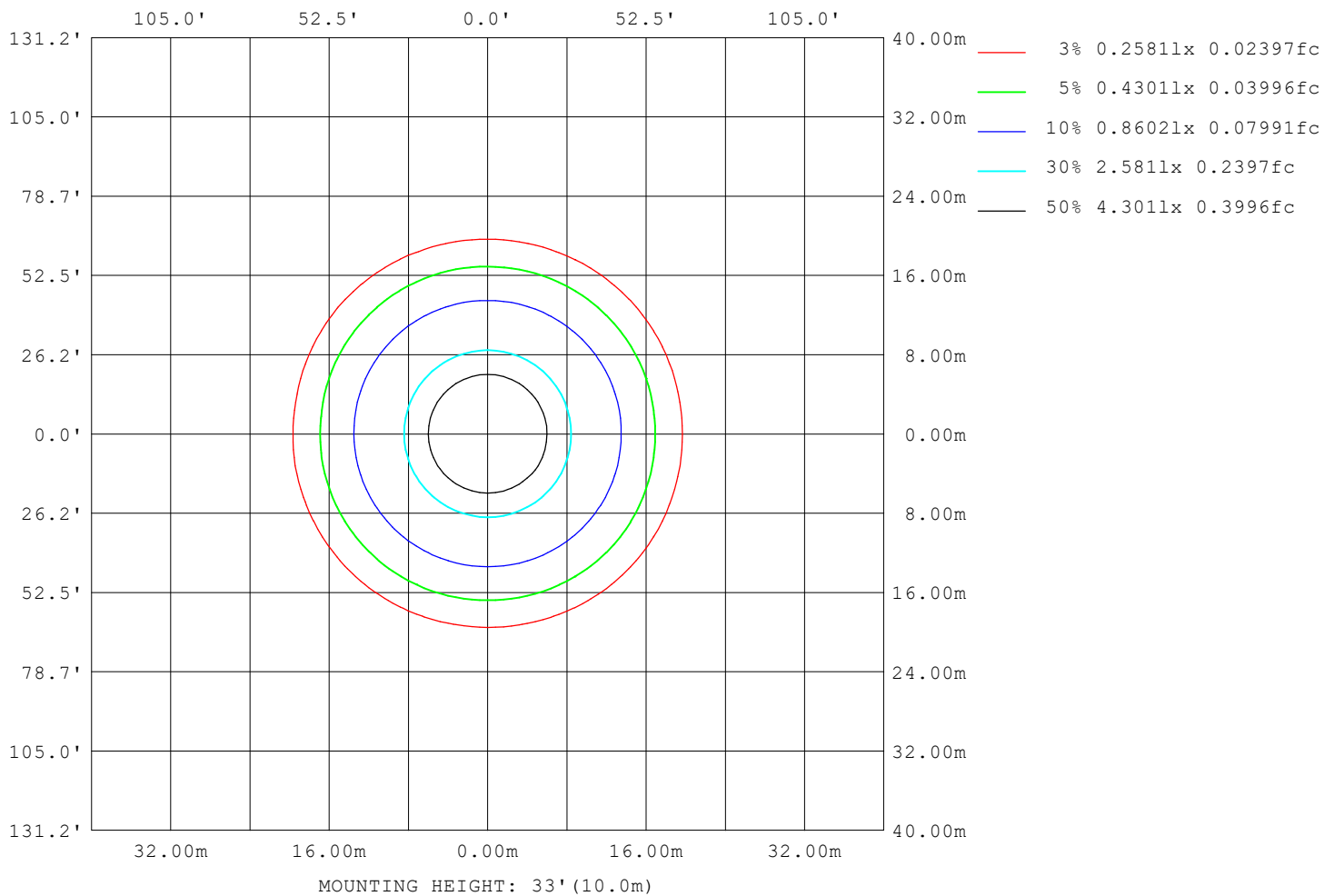
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 05 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: 99POMX40/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 50 x 70 x 330	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cross	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 05 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: 99POMX40/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 50 x 70 x 330	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: cross	Shielding Angle:

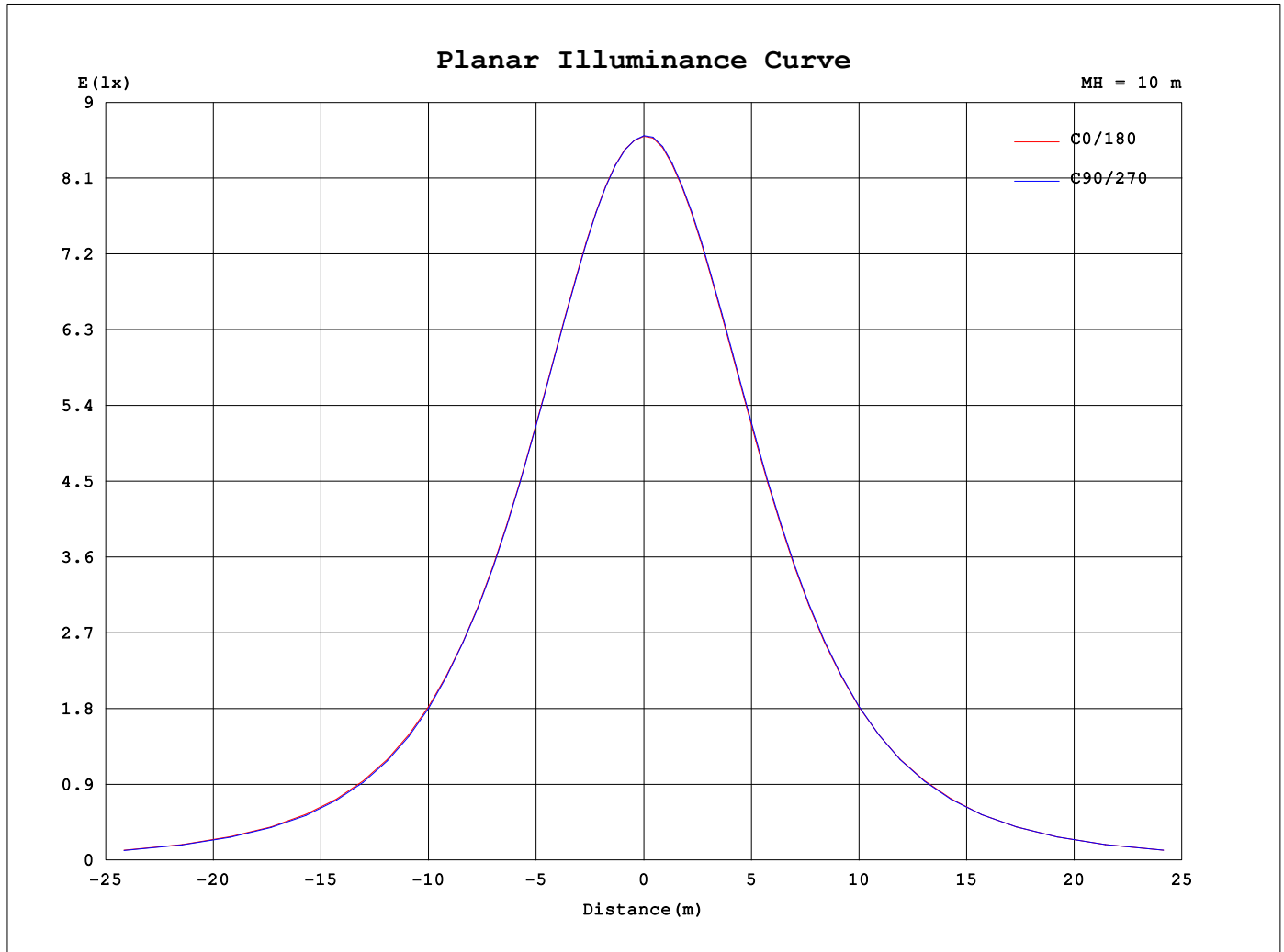
AvgL	cd/m2
L_0~180 (65) av	17603
L_0~180 (75) av	13776
L_0~180 (85) av	4583
L_90~270 (65) av	17369
L_90~270 (75) av	13665
L_90~270 (85) av	5038
L_45 (65) av	17825
L_45 (75) av	14447
L_45 (85) av	7331

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:05 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: 05 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:

```