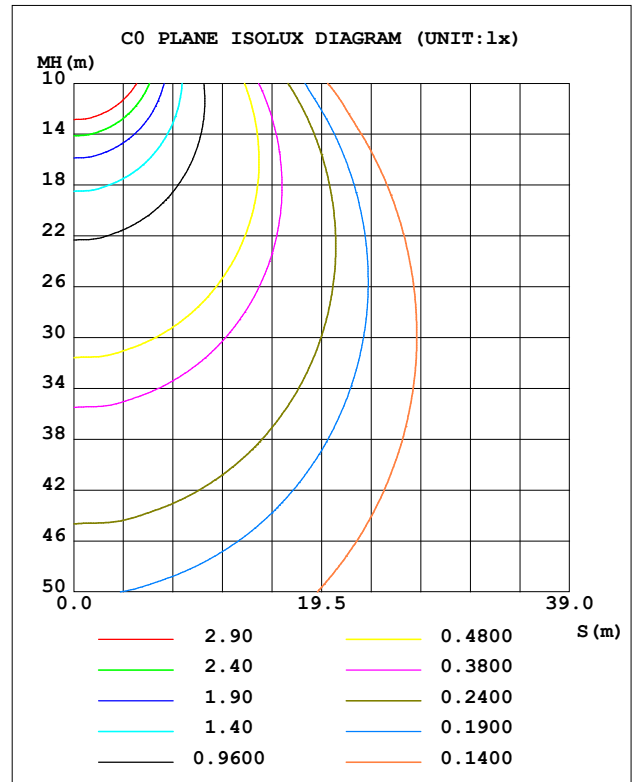
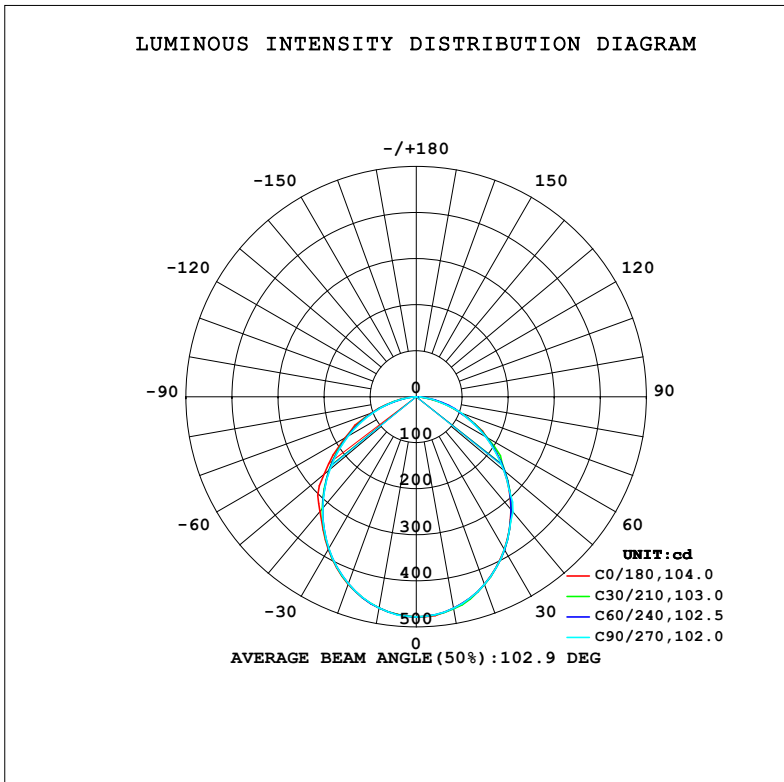


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: 99POML40/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 35 x 75 x 204	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: L	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	99POML40/BL	Imax (cd)	478.0	S/MH (C0/180)	1.20
NOMINAL POWER (W)	10	LOR (%)	121.9	S/MH (C90/270)	1.19
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	1218.9	η UP, DN (C0-180)	0.0, 61.6
NOMINAL FLUX (lm)	1000	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 60.3
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	230	η down (%)	121.9	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 28 November 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	466.6	466.8	466.6	466.3	466.0	465.7	465.6	465.8	0- 10	45.07	45.07	3.7,4.51
20	433.4	433.9	433.7	433.7	433.1	432.2	431.7	432.6	10- 20	127.4	172.5	14.2,17.2
30	382.6	384.3	383.2	393.6	382.9	381.2	380.4	381.6	20- 30	188.7	361.2	29.6,36.1
40	319.8	321.0	327.2	336.9	326.0	317.0	316.5	317.7	30- 40	221.8	583.0	47.8,58.3
50	248.9	251.2	248.4	259.7	261.7	246.7	244.7	247.4	40- 50	221.8	804.8	66,80.5
60	175.8	177.5	173.4	180.9	179.4	173.7	170.6	174.4	50- 60	191.3	996.2	81.7,99.6
70	101.5	103.6	103.5	104.7	104.9	101.2	97.58	101.8	60- 70	137.1	1133	93,113
80	34.21	39.08	35.45	41.71	35.56	33.26	31.42	34.98	70- 80	72.19	1205	98.9,121
90	1.128	0.9708	9.184	1.214	1.734	0.7284	0.5308	0.6084	80- 90	13.46	1219	100,122
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): 696.02 lm

%lum = 57.1%
%lamp = 69.6%

Conical surface Flux(130deg): 1072.5 lm

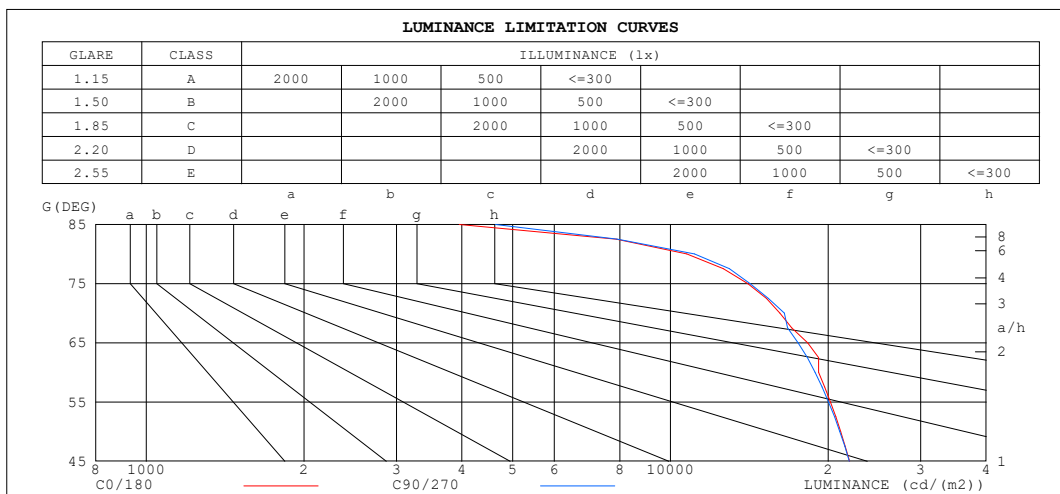
%lum = 88.0%
%lamp = 107.3%

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:28 November 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: 99POML40/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 35 x 75 x 204	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: L	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	3952	4631
80	10742	11114
75	14051	14188
70	16176	16479
65	18273	17506
60	19171	18881
55	20190	20027
50	21116	21032
45	21969	21937

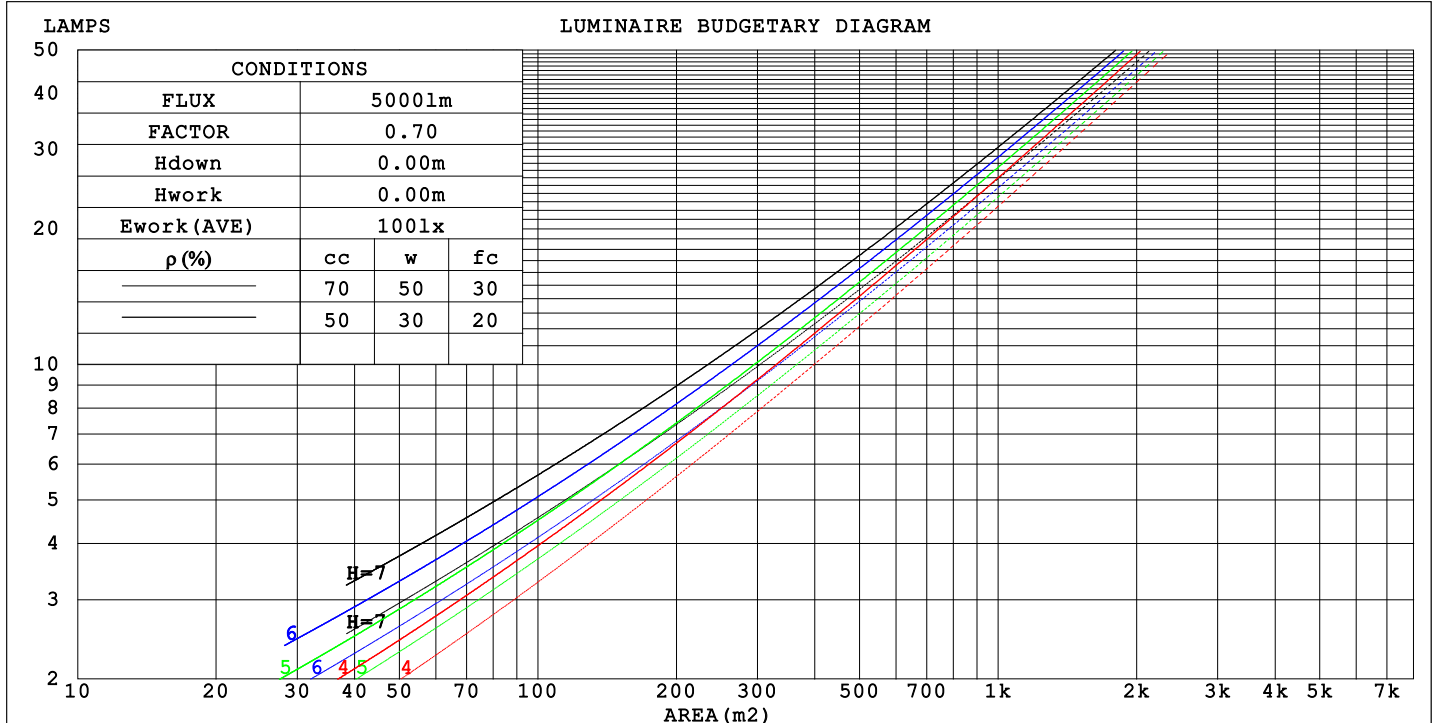
C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3°C
 Operators:
 Test Date: 28 November 2022

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: 99POML40/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 35 x 75 x 204	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: L	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:28 November 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: 99POML40/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 35 x 75 x 204	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: L	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	.356	.202	.064	.347	.198	.063	.331	.190	.061	.316	.182	.059	.303	.175	.057	
2.0	.339	.186	.057	.332	.183	.056	.318	.177	.055	.305	.171	.054	.293	.166	.052	
3.0	.317	.168	.050	.310	.166	.050	.297	.161	.049	.286	.157	.048	.275	.152	.047	
4.0	.294	.153	.045	.288	.151	.045	.277	.147	.044	.267	.143	.043	.257	.140	.043	
5.0	.273	.139	.040	.268	.137	.040	.258	.134	.040	.249	.131	.039	.240	.128	.039	
6.0	.254	.127	.036	.249	.126	.036	.240	.123	.036	.232	.121	.035	.225	.118	.035	
7.0	.237	.117	.033	.233	.116	.033	.225	.114	.033	.218	.112	.032	.211	.109	.032	
8.0	.222	.108	.030	.218	.107	.030	.211	.105	.030	.204	.104	.030	.198	.102	.030	
9.0	.208	.101	.028	.205	.100	.028	.199	.098	.028	.193	.097	.028	.187	.095	.027	
10.0	.196	.094	.026	.193	.093	.026	.187	.092	.026	.182	.090	.026	.177	.089	.026	

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	.232	.232	.232	.198	.198	.198	.135	.135	.135	.078	.078	.078	.025	.025	.025	
1.0	.218	.191	.166	.187	.164	.142	.128	.112	.099	.074	.065	.057	.024	.021	.019	
2.0	.208	.161	.121	.178	.138	.105	.122	.096	.073	.070	.056	.043	.023	.018	.014	
3.0	.198	.139	.092	.170	.120	.080	.117	.083	.056	.067	.049	.033	.022	.016	.011	
4.0	.189	.123	.073	.162	.106	.063	.111	.074	.044	.064	.043	.026	.021	.014	.009	
5.0	.180	.110	.059	.154	.095	.051	.106	.067	.036	.062	.039	.021	.020	.013	.007	
6.0	.171	.100	.049	.147	.086	.042	.101	.061	.030	.059	.036	.018	.019	.012	.006	
7.0	.163	.091	.041	.140	.079	.036	.097	.056	.025	.056	.033	.015	.018	.011	.005	
8.0	.155	.084	.036	.134	.073	.031	.092	.051	.022	.054	.030	.013	.017	.010	.004	
9.0	.148	.078	.031	.127	.068	.027	.088	.048	.019	.051	.028	.012	.017	.009	.004	
10.0	.141	.073	.028	.122	.063	.024	.084	.045	.017	.049	.026	.010	.016	.009	.003	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:28 November 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: 99POML40/BL					TYPE:			WEIGHT: 1			
SPEC.:					DIM.: 35 x 75 x 204			SERIAL No.: 0			
MFR.: Elmark Industries JSC					SUR.: L			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	23.3	24.8	23.6	25.0	25.2	23.2	24.6	23.4	24.8	25.0
	3H	24.6	26.0	24.9	26.2	26.4	24.4	25.8	24.7	26.0	26.3
	4H	25.0	26.3	25.4	26.6	26.8	24.9	26.2	25.2	26.5	26.7
	6H	25.3	26.5	25.6	26.8	27.1	25.2	26.4	25.5	26.7	27.0
	8H	25.3	26.5	25.7	26.8	27.1	25.2	26.4	25.6	26.7	27.0
	12H	25.3	26.4	25.6	26.7	27.0	25.2	26.3	25.5	26.6	26.9
4H	2H	23.8	25.1	24.1	25.4	25.6	23.7	25.0	24.0	25.3	25.5
	3H	25.3	26.4	25.7	26.7	27.0	25.2	26.3	25.6	26.6	26.9
	4H	25.9	26.9	26.2	27.2	27.6	25.8	26.9	26.2	27.2	27.5
	6H	26.2	27.1	26.6	27.5	27.8	26.2	27.1	26.6	27.5	27.8
	8H	26.3	27.1	26.7	27.5	27.9	26.3	27.1	26.7	27.5	27.9
	12H	26.2	27.0	26.7	27.4	27.8	26.2	27.0	26.7	27.4	27.8
8H	4H	26.1	26.9	26.5	27.3	27.7	26.1	26.9	26.5	27.3	27.7
	6H	26.5	27.2	27.0	27.7	28.1	26.6	27.3	27.0	27.7	28.1
	8H	26.6	27.3	27.1	27.7	28.1	26.7	27.3	27.1	27.7	28.2
	12H	26.6	27.2	27.1	27.6	28.1	26.7	27.2	27.1	27.6	28.1
12H	4H	26.1	26.9	26.5	27.3	27.7	26.1	26.8	26.5	27.2	27.6
	6H	26.6	27.2	27.0	27.6	28.1	26.6	27.2	27.1	27.6	28.1
	8H	26.7	27.2	27.2	27.7	28.1	26.7	27.2	27.2	27.7	28.2
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H		+ 0.2 / - 0.3					+ 0.2 / - 0.2				
1.5H		+ 0.3 / - 0.3					+ 0.2 / - 0.3				
2.0H		+ 0.3 / - 0.3					+ 0.3 / - 0.4				

CIE Pub.117, 1000 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.0)
Area: 0.01837 m2

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:28 November 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: 99POML40/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 35 x 75 x 204	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: L	Shielding Angle:

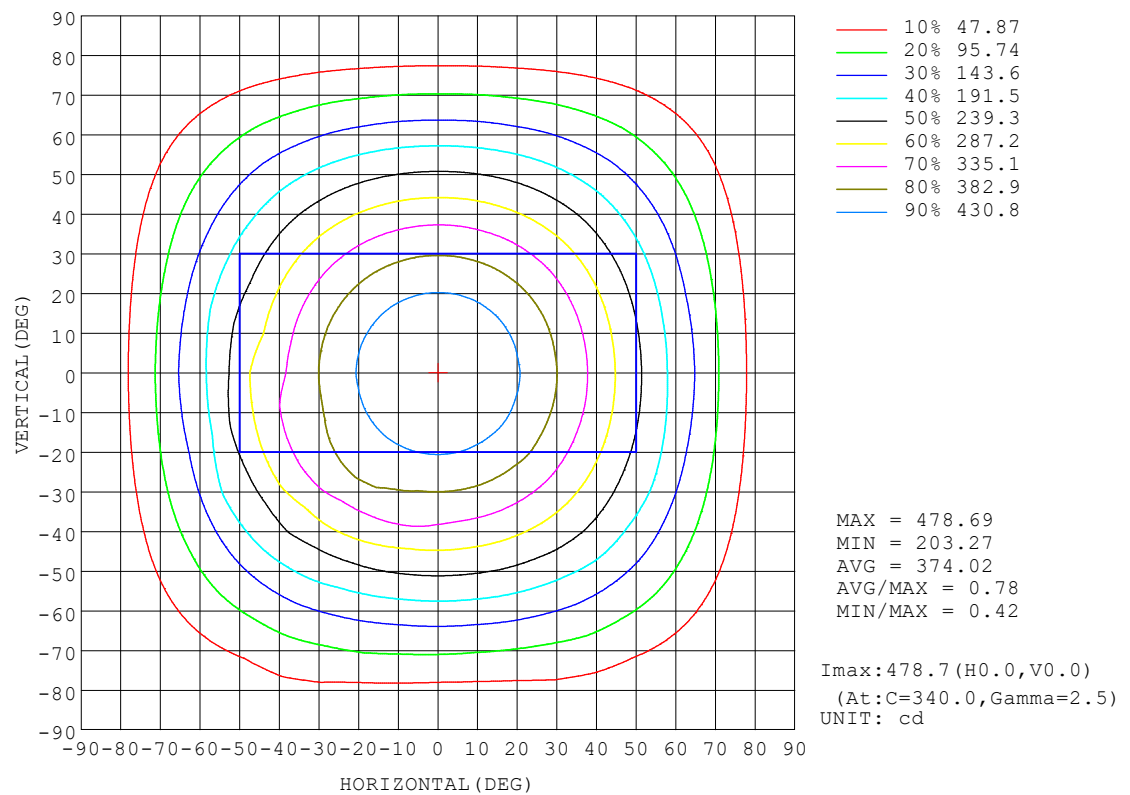
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	72	59	50	71	58	50	70	58	50	42
0.80	85	71	62	83	70	62	81	69	62	53
1.00	95	82	73	93	81	73	91	83	72	64
1.25	103	91	83	102	90	82	98	89	81	73
1.50	109	98	90	107	97	89	104	95	88	79
2.00	117	108	100	115	106	99	111	103	97	88
2.50	122	113	106	120	111	105	115	108	103	93
3.00	126	118	112	123	116	110	118	113	108	98
4.00	131	124	119	128	122	117	123	118	114	103
5.00	133	128	123	130	125	121	125	121	117	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: 28 November 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: 99POML40/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 35 x 75 x 204	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: L	Shielding Angle:

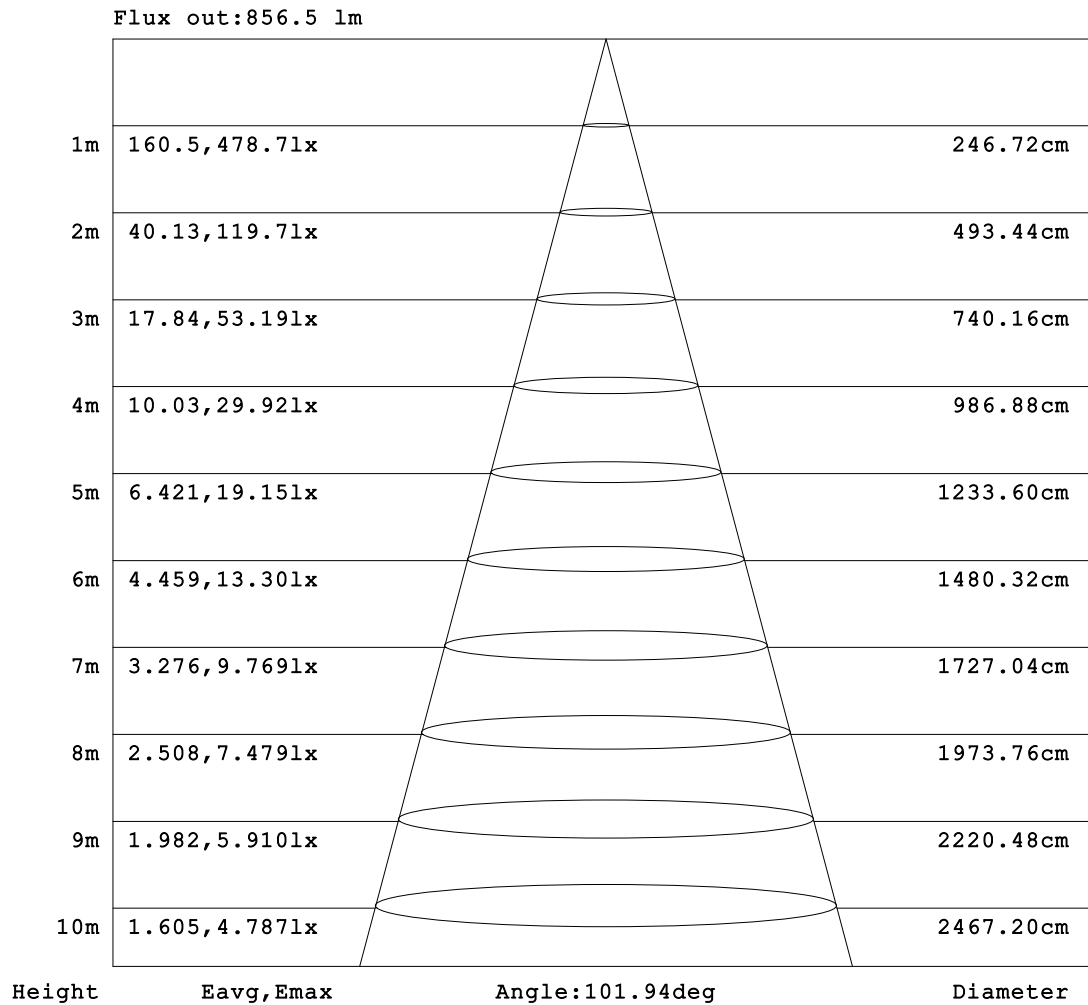


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:28 November 2022

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: 99POML40/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 35 x 75 x 204	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: L	Shielding Angle:



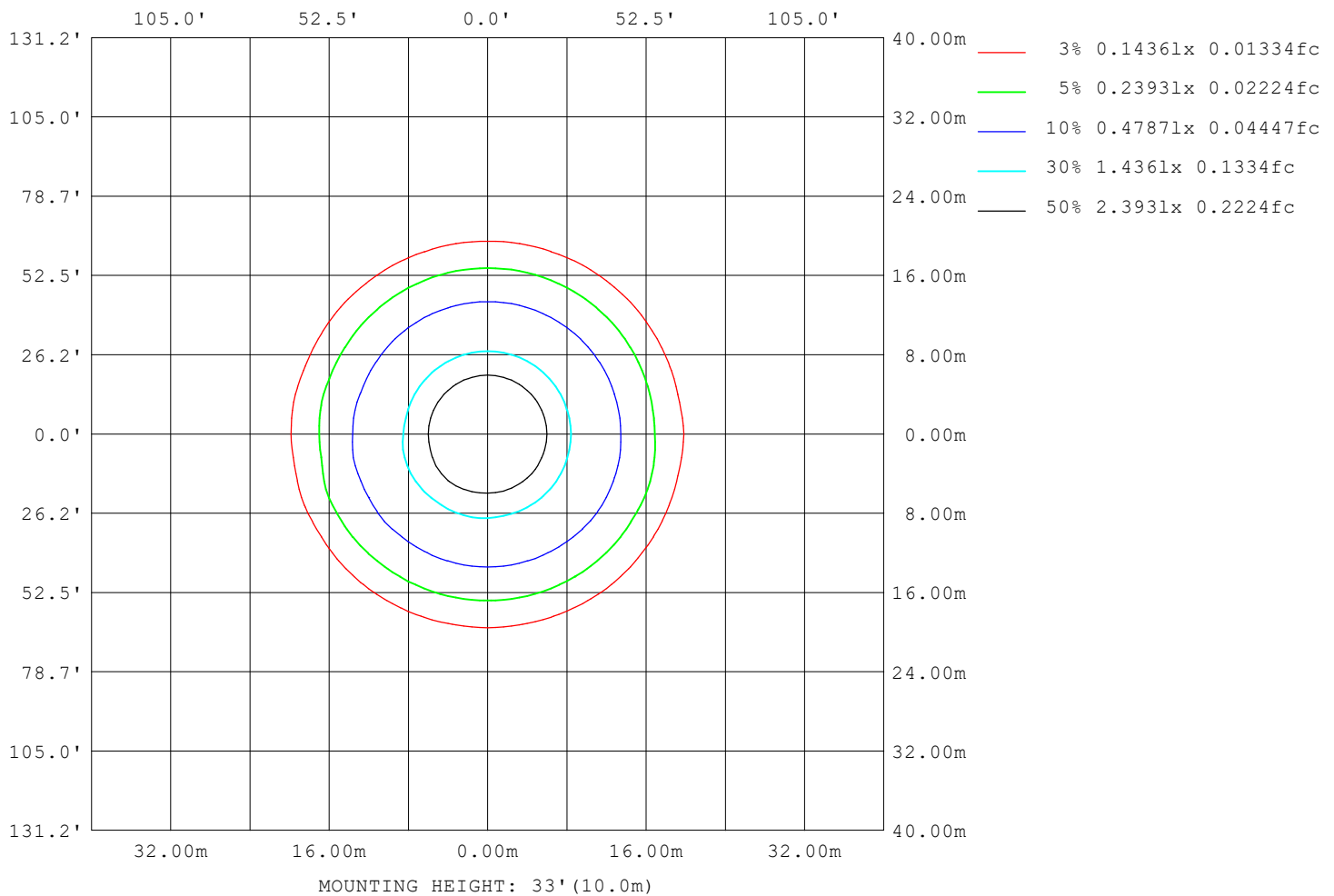
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3°C
 Operators:
 Test Date: 28 November 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: 99POML40/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 35 x 75 x 204	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: L	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 28 November 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: 99POML40/BL	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 35 x 75 x 204	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: L	Shielding Angle:

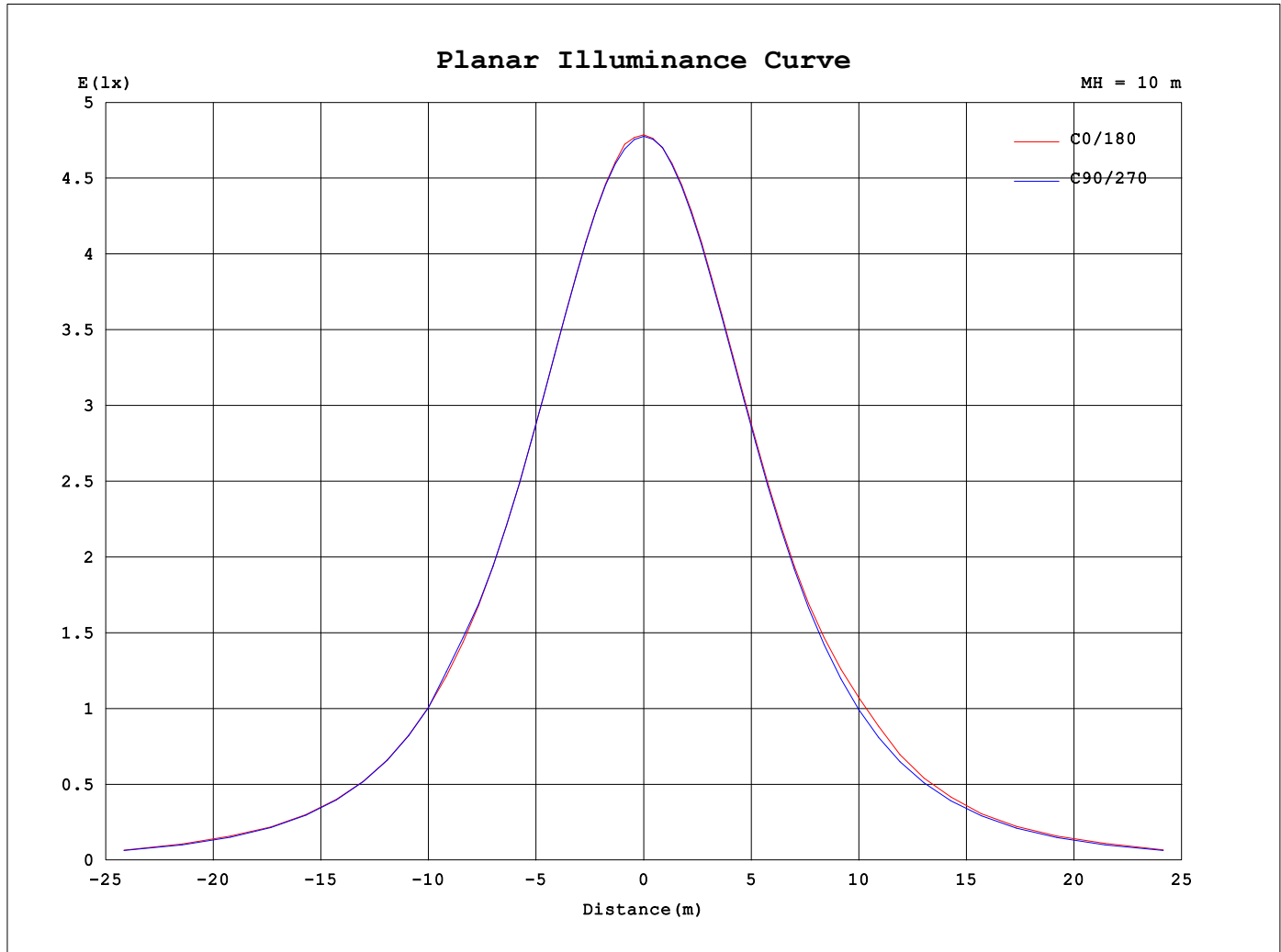
AvgL	cd/m2
L_0~180 (65) av	18612
L_0~180 (75) av	14215
L_0~180 (85) av	4322
L_90~270 (65) av	17360
L_90~270 (75) av	13766
L_90~270 (85) av	3722
L_45 (65) av	17903
L_45 (75) av	14713
L_45 (85) av	6819

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature:25.3°C
Operators:
Test Date:28 November 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: 28 November 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:

```