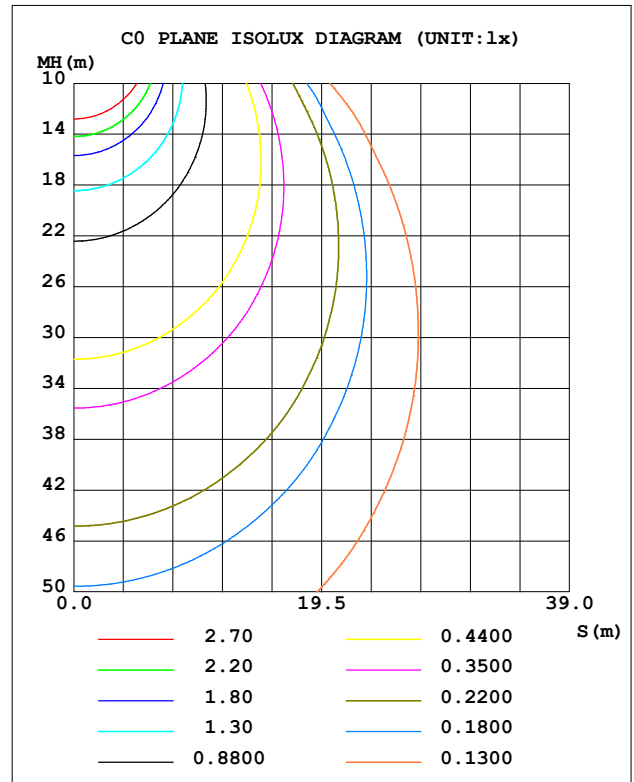
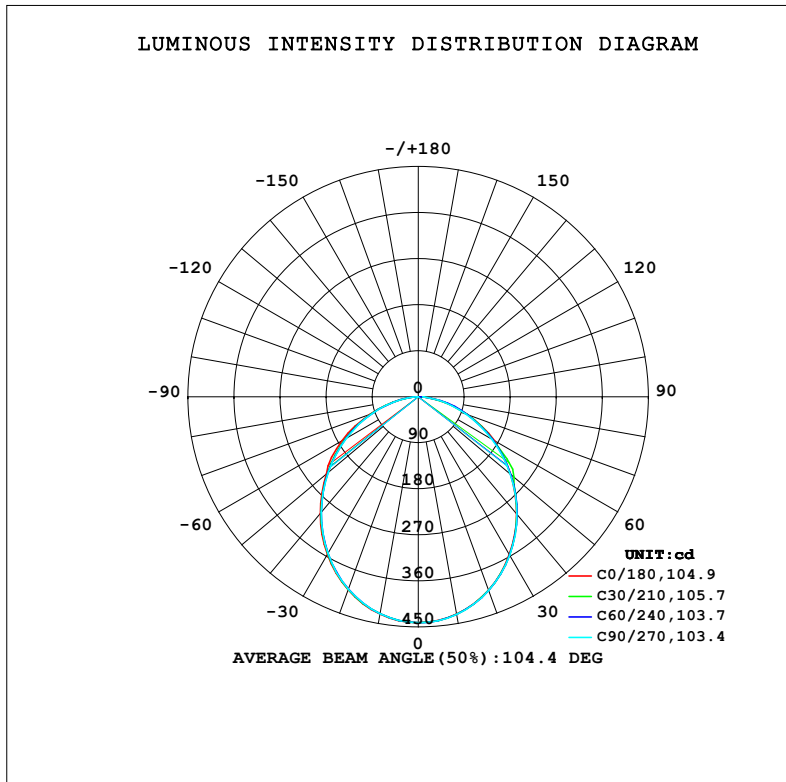


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: 99POML40/WH	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/WH	I _{max} (cd)	441.7	S/MH (C0/180)	1.20
NOMINAL POWER (W)	10	LOR (%)	114.8	S/MH (C90/270)	1.20
RATED VOLTAGE (V)	230	TOTAL FLUX (lm)	1148.5	η UP, DN (C0-180)	0.0, 58.0
NOMINAL FLUX (lm)	1000	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 56.8
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	230	η down (%)	114.8	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	431.5	431.8	432.0	431.8	431.5	430.8	430.6	430.9	0- 10	41.67	41.67	3.63,4.17
20	402.1	402.5	402.8	402.3	401.6	400.3	400.2	401.1	10- 20	118.1	159.7	13.9,16
30	356.2	357.3	357.5	356.9	355.7	353.7	353.4	354.4	20- 30	175.1	334.9	29.2,33.5
40	299.3	300.6	300.2	300.6	298.5	295.2	295.1	296.5	30- 40	205.1	540.0	47,54
50	235.1	240.1	234.9	244.6	234.5	230.9	229.6	232.2	40- 50	206.5	746.5	65,74.6
60	172.7	169.3	166.4	175.3	172.3	164.1	162.0	165.7	50- 60	181.0	927.5	80.8,92.7
70	101.8	101.6	99.15	101.3	99.92	97.46	95.56	99.53	60- 70	131.9	1059	92.2,106
80	39.57	43.34	39.35	41.81	37.60	35.13	35.23	37.84	70- 80	72.55	1132	98.6,113
90	1.533	1.035	9.331	1.184	1.517	0.6589	0.6235	0.6738	80- 90	16.54	1148	100,115
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): 644.67 lm

%lum = 56.1%

%lamp = 64.5%

Conical surface Flux(130deg): 1000.6 lm

%lum = 87.1%

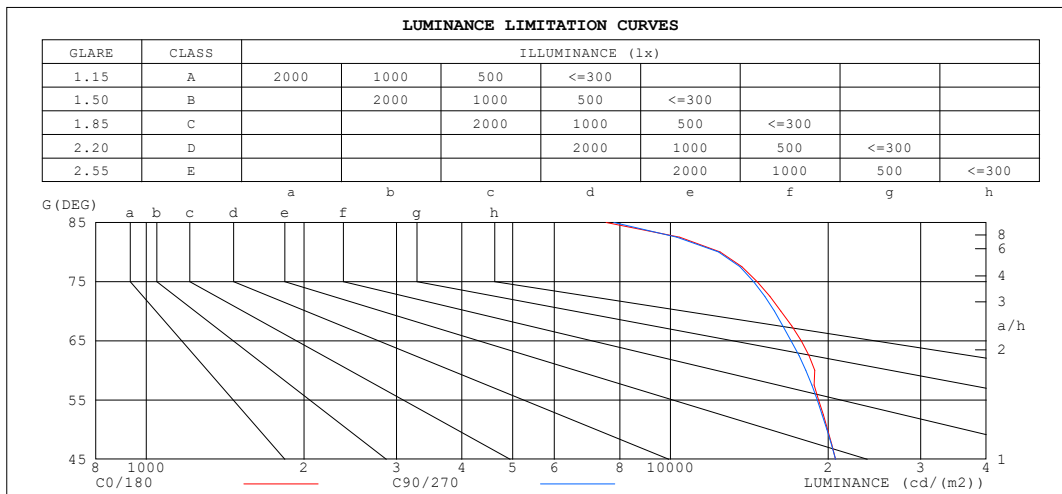
%lamp = 100.1%

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/WH	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	7536	7792
80	12424	12334
75	14627	14404
70	16229	15777
65	17775	16987
60	18832	18110
55	19168	19050
50	19940	19884
45	20633	20636

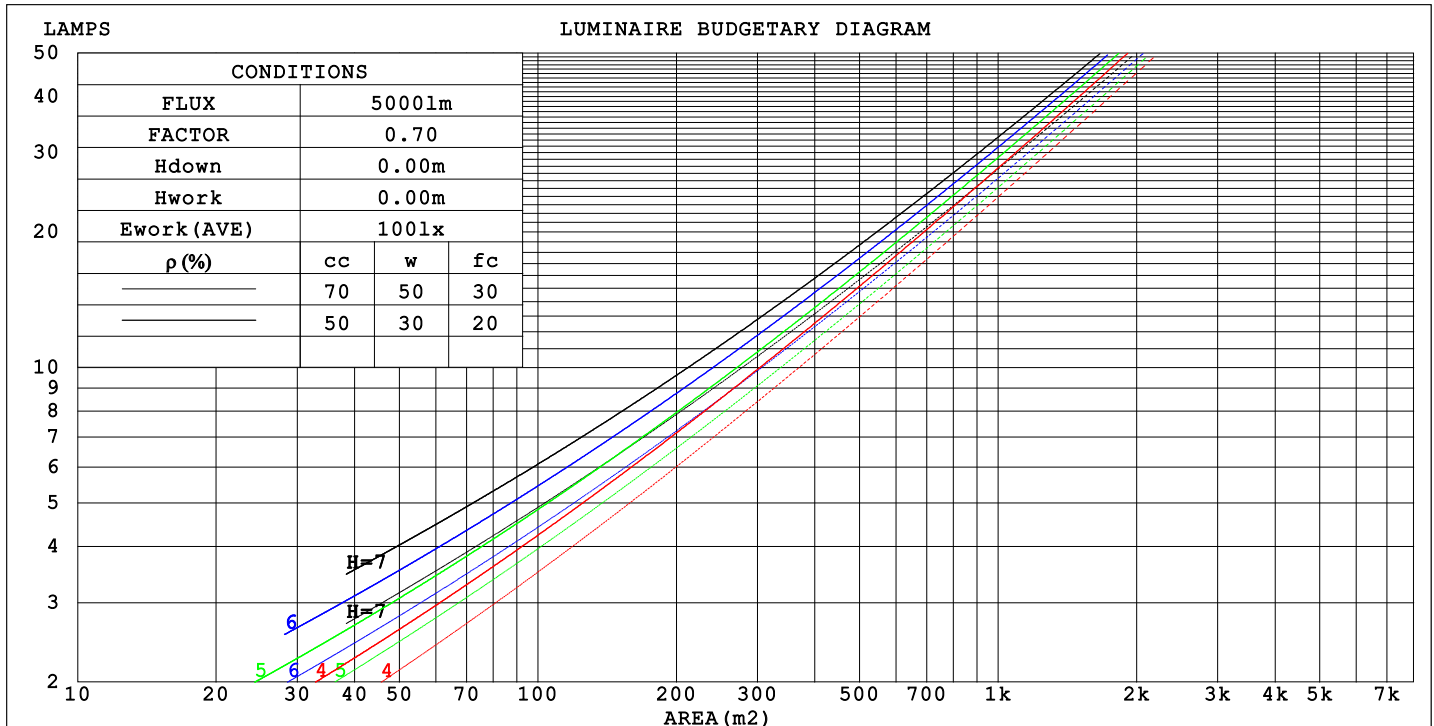
C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3°C
 Operators:
 Test Date: 28 November 2022

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/WH	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/WH	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	.342	.195	.062	.334	.191	.061	.319	.183	.058	.305	.176	.056	.292	.169	.055	
2.0	.325	.178	.055	.318	.175	.054	.304	.169	.053	.292	.164	.051	.281	.159	.050	
3.0	.302	.161	.048	.296	.158	.048	.284	.154	.047	.273	.150	.046	.263	.146	.045	
4.0	.280	.145	.043	.274	.143	.042	.264	.140	.042	.254	.136	.041	.245	.133	.041	
5.0	.259	.132	.038	.254	.130	.038	.245	.128	.038	.236	.125	.037	.228	.122	.037	
6.0	.241	.121	.035	.236	.119	.034	.228	.117	.034	.220	.115	.034	.213	.112	.033	
7.0	.224	.111	.031	.221	.110	.031	.213	.108	.031	.206	.106	.031	.200	.104	.031	
8.0	.210	.103	.029	.207	.102	.029	.200	.100	.029	.194	.098	.028	.188	.096	.028	
9.0	.197	.095	.027	.194	.095	.027	.188	.093	.026	.182	.091	.026	.177	.090	.026	
10.0	.185	.089	.025	.183	.088	.025	.177	.087	.024	.172	.086	.024	.167	.084	.024	

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	.219	.219	.219	.187	.187	.187	.128	.128	.128	.073	.073	.073	.023	.023	.023	
1.0	.206	.179	.155	.176	.154	.134	.121	.106	.092	.069	.061	.054	.022	.020	.017	
2.0	.196	.152	.114	.168	.130	.098	.115	.090	.069	.066	.053	.040	.021	.017	.013	
3.0	.187	.131	.086	.161	.113	.075	.110	.079	.053	.064	.046	.031	.020	.015	.010	
4.0	.179	.116	.068	.153	.100	.059	.105	.070	.042	.061	.041	.025	.020	.013	.008	
5.0	.170	.104	.055	.146	.090	.048	.101	.063	.034	.058	.037	.020	.019	.012	.007	
6.0	.162	.094	.046	.139	.082	.040	.096	.057	.028	.056	.034	.017	.018	.011	.006	
7.0	.154	.086	.039	.133	.075	.034	.092	.052	.024	.053	.031	.014	.017	.010	.005	
8.0	.147	.080	.033	.126	.069	.029	.087	.048	.021	.051	.029	.012	.016	.009	.004	
9.0	.140	.074	.029	.120	.064	.026	.083	.045	.018	.049	.027	.011	.016	.009	.004	
10.0	.133	.069	.026	.115	.060	.023	.080	.042	.016	.047	.025	.010	.015	.008	.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/WH					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	23.2	24.7	23.4	24.9	25.1	23.0	24.5	23.3	24.7	24.9
	3H	24.5	25.9	24.8	26.1	26.4	24.4	25.8	24.7	26.0	26.2
	4H	25.1	26.4	25.4	26.6	26.9	24.9	26.2	25.3	26.5	26.8
	6H	25.4	26.6	25.7	26.9	27.2	25.3	26.5	25.6	26.8	27.1
	8H	25.5	26.7	25.8	26.9	27.2	25.4	26.6	25.7	26.8	27.1
	12H	25.5	26.6	25.8	26.9	27.2	25.4	26.5	25.7	26.8	27.1
4H	2H	23.7	25.0	24.0	25.3	25.5	23.6	24.9	23.9	25.2	25.4
	3H	25.3	26.4	25.6	26.7	27.0	25.2	26.3	25.5	26.6	26.9
	4H	25.9	27.0	26.3	27.3	27.6	25.9	26.9	26.2	27.2	27.6
	6H	26.4	27.3	26.8	27.6	28.0	26.4	27.3	26.8	27.6	28.0
	8H	26.5	27.3	26.9	27.7	28.1	26.5	27.3	26.9	27.7	28.1
	12H	26.5	27.3	26.9	27.7	28.1	26.5	27.3	26.9	27.6	28.1
8H	4H	26.2	27.0	26.6	27.4	27.8	26.1	27.0	26.6	27.4	27.8
	6H	26.7	27.5	27.2	27.9	28.3	26.8	27.5	27.2	27.9	28.3
	8H	26.9	27.6	27.4	28.0	28.4	26.9	27.6	27.4	28.0	28.4
	12H	27.0	27.5	27.5	28.0	28.5	27.0	27.5	27.5	28.0	28.4
12H	4H	26.2	27.0	26.6	27.4	27.8	26.1	26.9	26.6	27.3	27.7
	6H	26.8	27.4	27.3	27.8	28.3	26.8	27.4	27.3	27.9	28.3
	8H	27.0	27.5	27.5	28.0	28.5	27.0	27.5	27.5	28.0	28.5
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H		+ 0.1 / - 0.3					+ 0.2 / - 0.2				
1.5H		+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H		+ 0.3 / - 0.3					+ 0.2 / - 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/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 35 x 75 x 204	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: L	Shielding Angle:

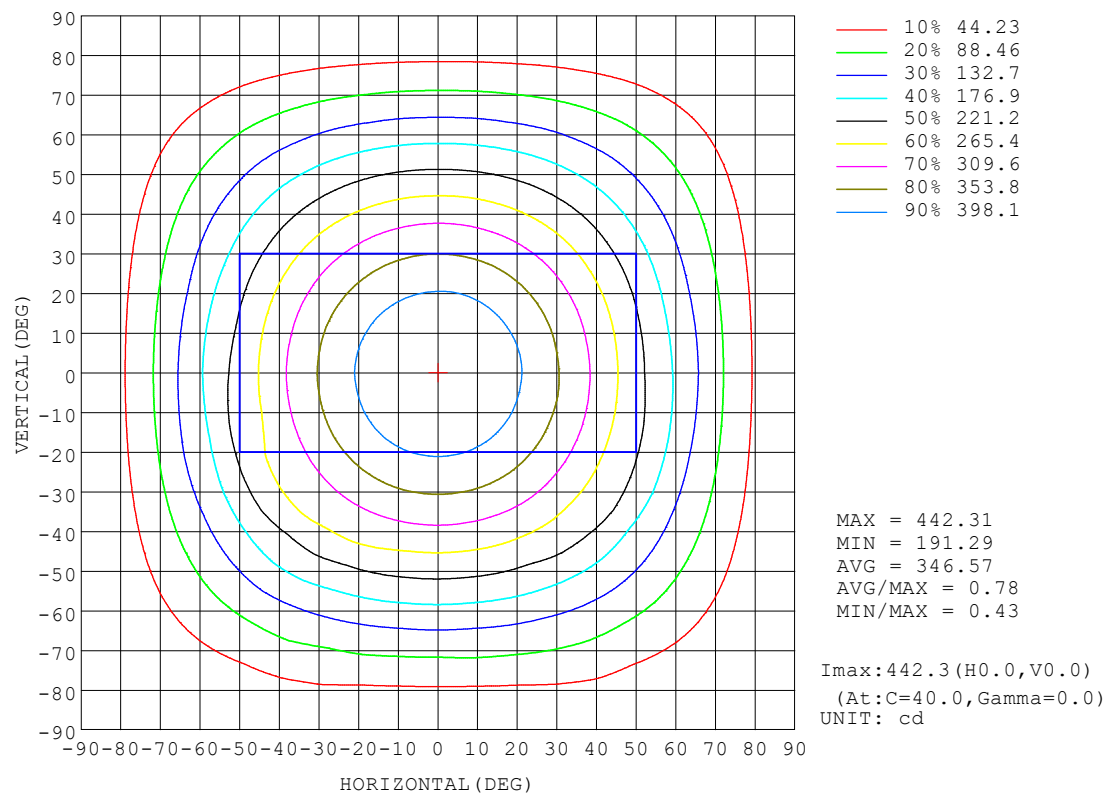
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	68	55	47	67	54	47	65	54	46	39
0.80	79	66	58	78	66	58	76	65	57	49
1.00	89	76	68	87	76	68	85	77	67	59
1.25	97	85	77	95	84	77	92	83	76	68
1.50	102	91	84	101	90	83	97	88	82	73
2.00	110	101	94	108	99	93	104	97	91	82
2.50	114	106	99	112	104	98	108	101	96	87
3.00	118	111	105	116	109	103	111	106	101	91
4.00	123	116	111	120	114	110	115	111	107	97
5.00	125	120	116	123	118	114	117	114	110	100
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/WH	TYPE:	WEIGHT: 1
SPEC.:	DIM.: 35 x 75 x 204	SERIAL No.: 0
MFR.: Elmark Industries JSC	SUR.: L	Shielding Angle:

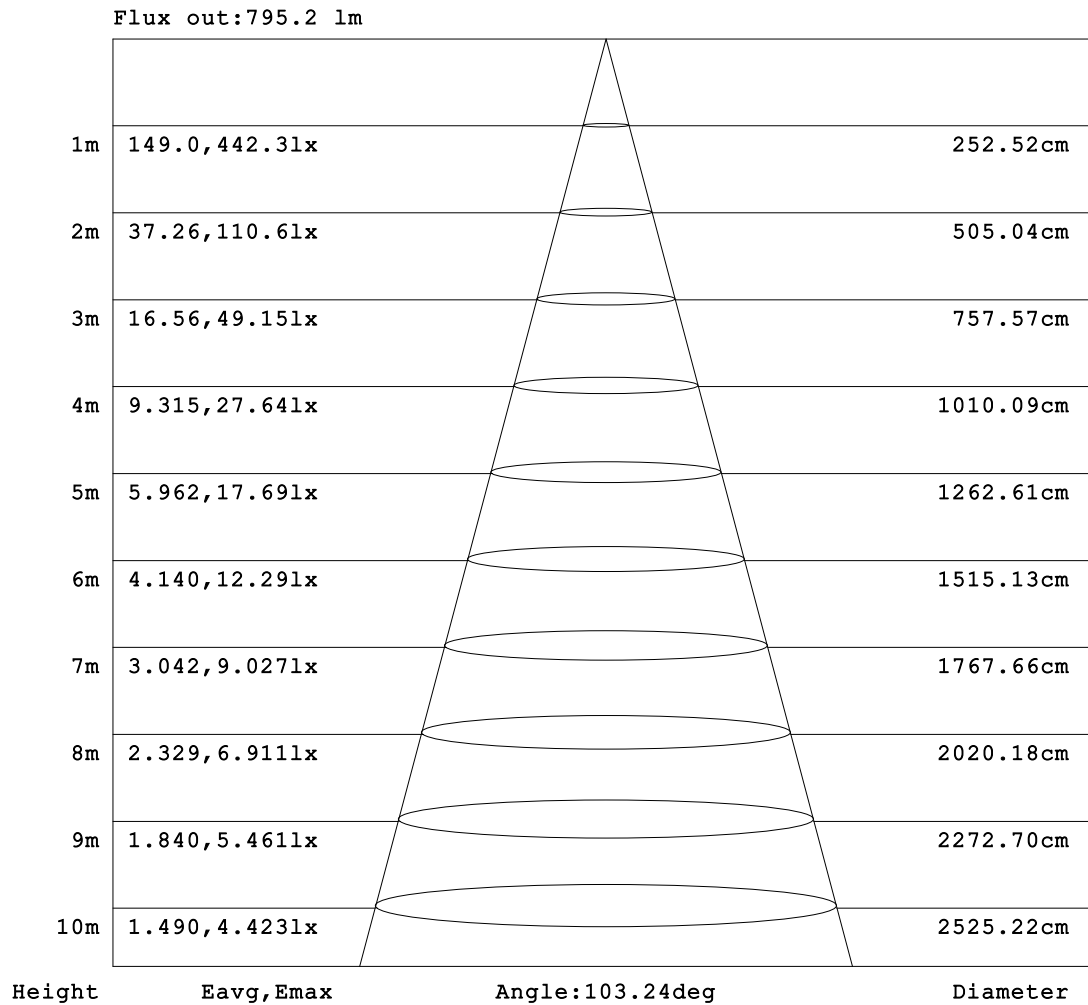


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: MEDIUM
Temperature: 25.3°C
Operators:
Test Date: 28 November 2022

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



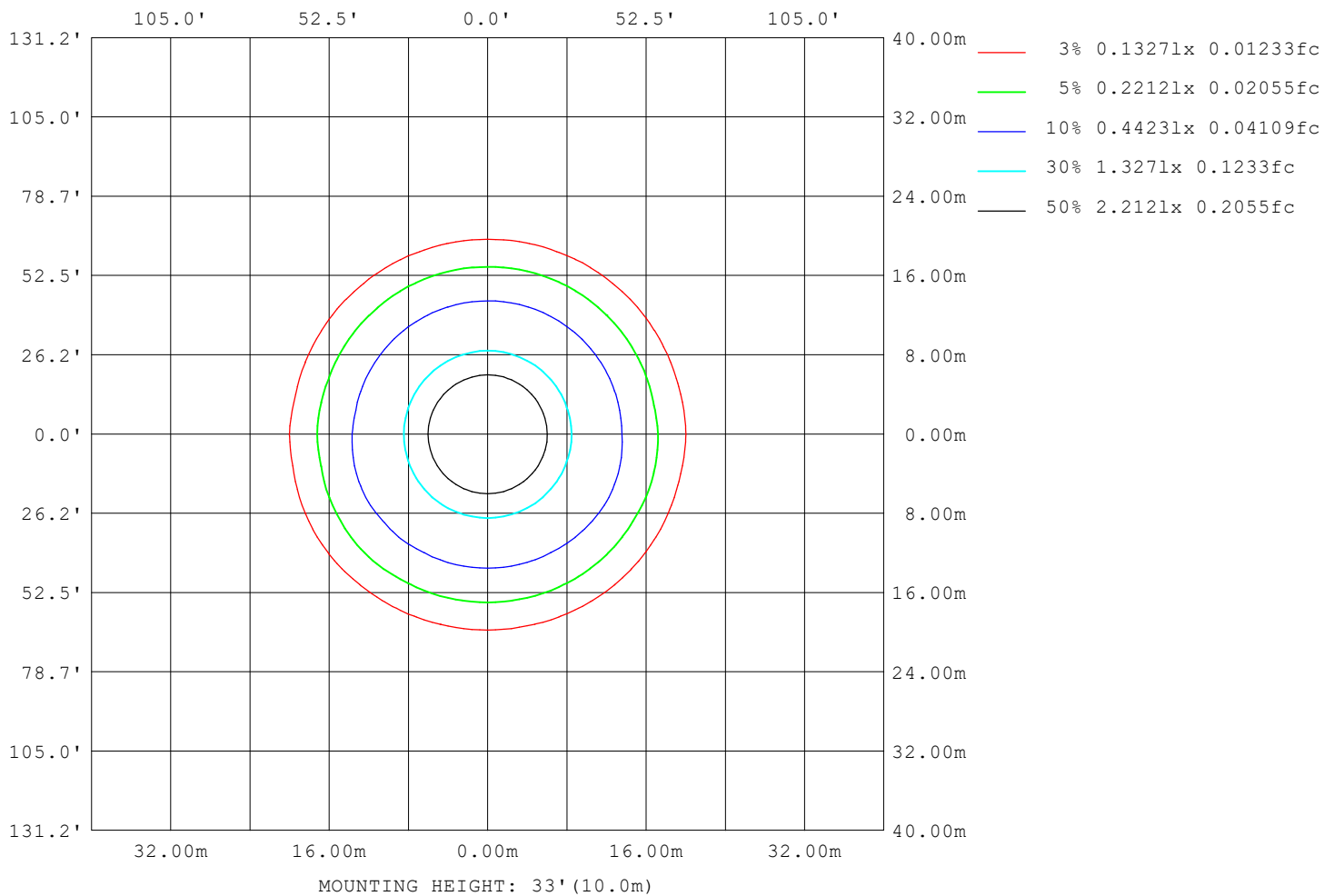
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

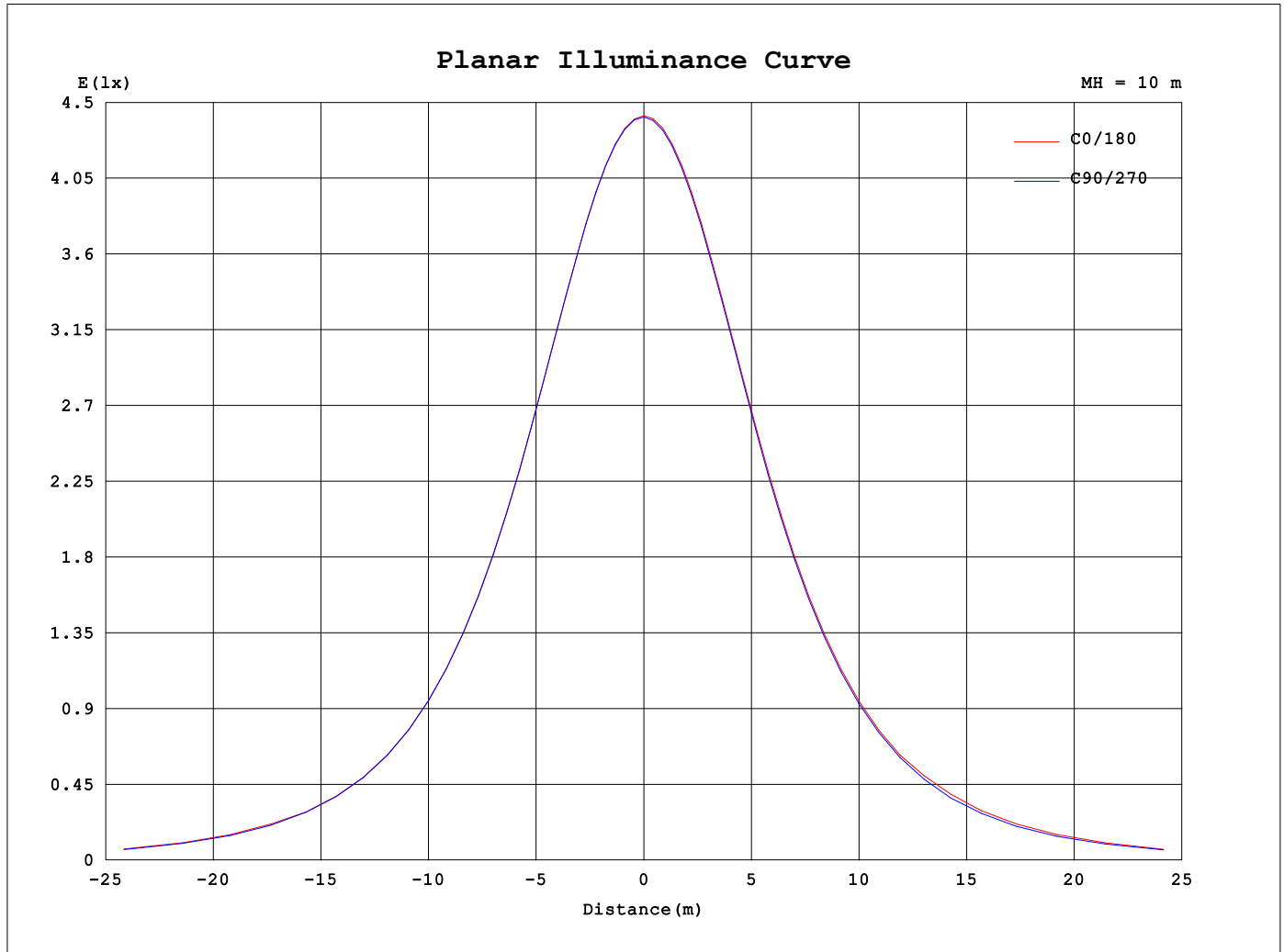
AvgL	cd/m2
L_0~180 (65) av	17706
L_0~180 (75) av	14431
L_0~180 (85) av	7173
L_90~270 (65) av	16765
L_90~270 (75) av	13987
L_90~270 (85) av	7062
L_45 (65) av	17256
L_45 (75) av	14632
L_45 (85) av	8457

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:

```