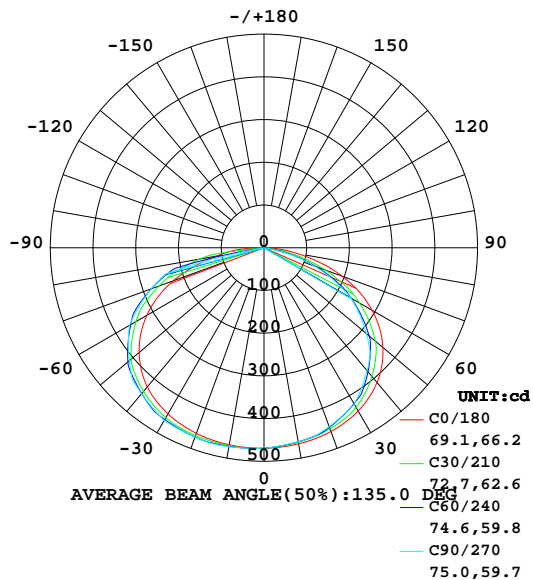


LUMINAIRE PHOTOMETRIC TEST REPORT

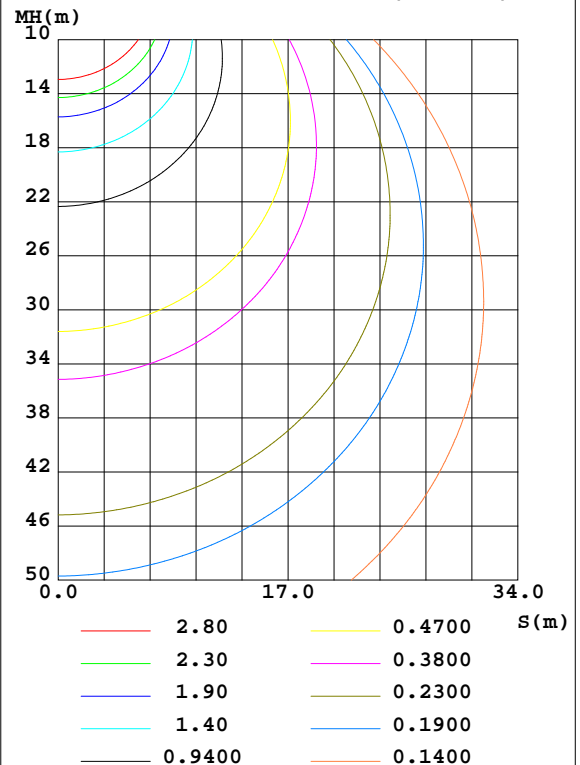
Test:U:23.97V I:1.221A P:29.26W PF:1.000 Lamp Flux:2480.82x1 lm		
NAME: LP-24-24x24-SP	TYPE:Basic LightPanel	WEIGHT:
SPEC.:FLS-1W4-6000K	DIM.: 24*24	SERIAL No.:01
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 57.82 lm/W			
MODEL	33.1212	I _{max} (cd)	474.3	S/MH(C0/180)	1.44
NOMINAL POWER(W)	29.2626	LOR(%)	68.2	S/MH(C90/270)	1.49
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	1691.9	η UP,DN(C0-180)	0.0,30.6
NOMINAL FLUX(lm)	2480.82	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,37.6
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	24	η down(%)	68.2	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:07 November 2024

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.293
Humidity:65.0%
Test Distance:5.640m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
5	468.2	465.8	465.3	466.6	469.4	470.6	471.0	469.8	0- 5	11.21	11.21	0.66,0.45
10	466.1	461.6	461.3	463.3	468.3	471.3	472.6	469.8	5- 10	33.44	44.65	2.64,1.8
15	462.8	456.6	457.2	459.3	466.2	471.4	474.3	469.2	10- 15	55.23	99.88	5.9,4.03
20	457.8	450.7	445.7	454.6	462.5	471.0	471.8	468.2	15- 20	76.19	176.1	10.4,7.1
25	450.7	438.6	434.2	444.0	457.0	467.1	469.3	463.5	20- 25	95.70	271.8	16.1,11
30	441.3	424.2	422.7	431.1	449.4	461.6	466.8	456.8	25- 30	113.5	385.3	22.8,15.5
35	428.3	408.2	399.2	417.0	438.8	454.7	456.4	448.9	30- 35	129.0	514.4	30.4,20.7
40	411.6	388.9	375.6	399.7	425.0	445.6	446.1	438.7	35- 40	141.3	655.7	38.8,26.4
45	390.2	358.9	352.1	372.5	405.8	429.0	435.7	419.8	40- 45	150.1	805.8	47.6,32.5
50	363.1	327.2	313.0	343.2	381.4	410.3	411.6	398.8	45- 50	154.7	960.5	56.8,38.7
55	330.6	292.9	273.8	311.1	352.1	389.2	387.6	375.5	50- 55	153.8	1114	65.9,44.9
60	291.9	244.2	234.7	264.4	316.8	354.8	363.6	338.6	55- 60	147.7	1262	74.6,50.9
65	246.8	194.3	180.2	216.2	274.8	318.8	321.9	300.3	60- 65	136.1	1398	82.6,56.4
70	194.9	141.2	125.8	164.7	225.3	275.1	280.2	254.3	65- 70	117.9	1516	89.6,61.1
75	137.8	86.39	71.35	110.5	169.3	222.2	238.5	199.2	70- 75	94.93	1611	95.2,64.9
80	80.33	32.29	0	51.82	113.2	141.8	0	122.1	75- 80	60.68	1672	98.8,67.4
85	33.48	0	0	0	68.72	0	0	0	80- 85	18.24	1690	99.9,68.1
90	0.8383	0	0	0	7.975	0	0	0	85- 90	2.059	1692	100,68.2
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

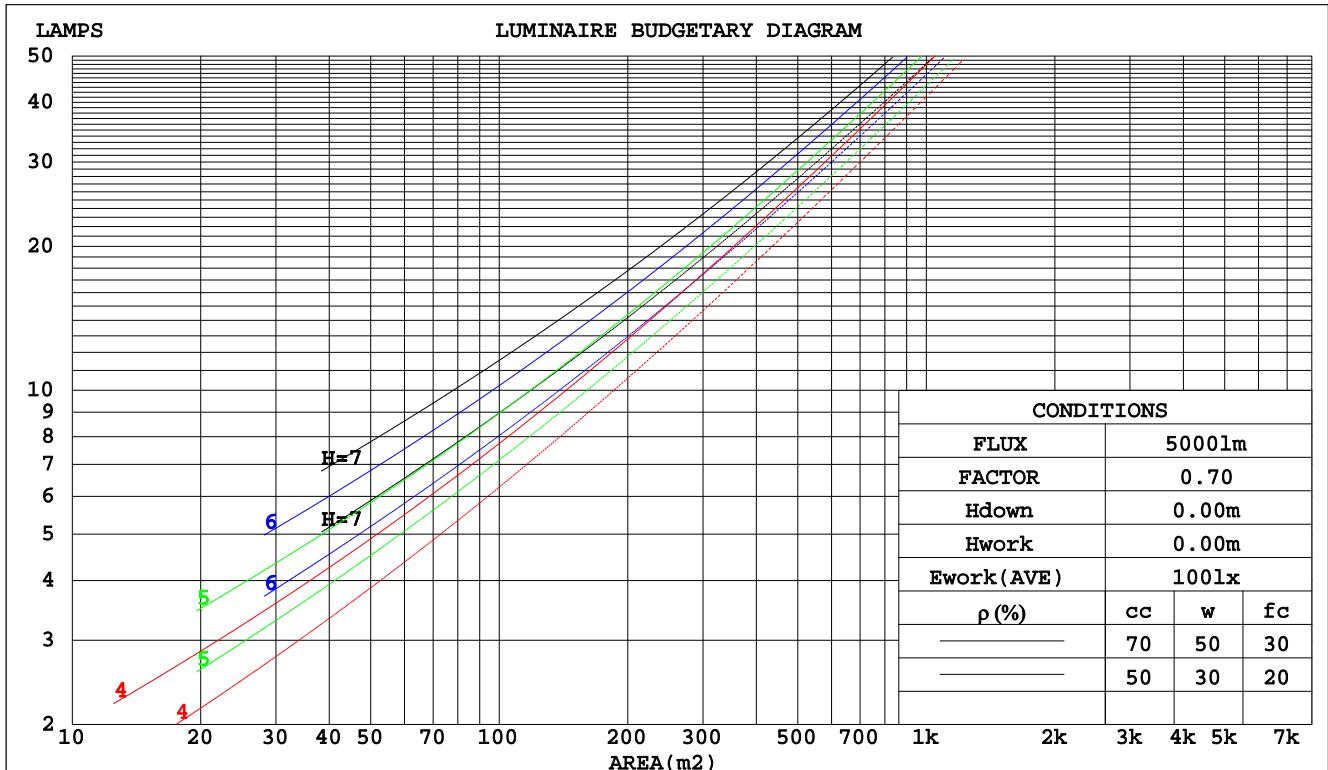
C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:07 November 2024

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.293
Humidity:65.0%
Test Distance:5.640m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:23.97V I:1.221A P:29.26W PF:1.000 Lamp Flux:2480.82x1 lm		
NAME: LP-24-24x24-SP	TYPE:Basic LightPanel	WEIGHT:
SPEC.:FLS-1W4-6000K	DIM.: 24*24	SERIAL No.:01
MFR.: EVERFINE	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	.81	.81	.81	.79	.79	.79	.76	.76	.76	.73	.73	.73	.70	.70	.70	.68
1.0	.70	.67	.64	.69	.66	.63	.66	.64	.61	.63	.61	.60	.61	.59	.58	.56
2.0	.61	.56	.51	.59	.55	.51	.57	.53	.50	.54	.51	.48	.52	.50	.47	.46
3.0	.53	.47	.42	.51	.46	.42	.49	.45	.41	.47	.43	.40	.46	.42	.39	.38
4.0	.46	.40	.35	.45	.39	.35	.43	.38	.34	.42	.37	.34	.40	.36	.33	.32
5.0	.41	.34	.30	.40	.34	.29	.39	.33	.29	.37	.32	.29	.36	.32	.28	.27
6.0	.37	.30	.26	.36	.30	.25	.35	.29	.25	.33	.29	.25	.32	.28	.25	.23
7.0	.33	.27	.22	.32	.26	.22	.31	.26	.22	.30	.25	.22	.29	.25	.22	.20
8.0	.30	.24	.20	.29	.24	.20	.29	.23	.20	.28	.23	.19	.27	.22	.19	.18
9.0	.27	.22	.18	.27	.21	.18	.26	.21	.17	.25	.21	.17	.25	.20	.17	.16
10.0	.25	.20	.16	.25	.19	.16	.24	.19	.16	.23	.19	.16	.23	.19	.16	.14



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:07 November 2024

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.293
Humidity:65.0%
Test Distance:5.640m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:23.97V I:1.221A P:29.26W PF:1.000 Lamp Flux:2480.82x1 lm		
NAME: LP-24-24x24-SP	TYPE:Basic LightPanel	WEIGHT:
SPEC.:FLS-1W4-6000K	DIM.: 24*24	SERIAL No.:01
MFR.: EVERFINE	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	.221	.126	.040	.216	.123	.039	.207	.119	.038	.199	.115	.037	.191	.111	.036	
2.0	.210	.115	.035	.206	.113	.035	.198	.110	.034	.190	.107	.033	.183	.104	.033	
3.0	.194	.103	.031	.190	.102	.031	.183	.099	.030	.177	.097	.030	.170	.094	.029	
4.0	.179	.093	.027	.175	.092	.027	.169	.090	.027	.163	.088	.026	.157	.086	.026	
5.0	.165	.084	.024	.162	.083	.024	.156	.081	.024	.151	.079	.024	.146	.078	.023	
6.0	.152	.076	.022	.149	.075	.022	.144	.074	.022	.140	.073	.021	.135	.071	.021	
7.0	.141	.070	.020	.139	.069	.020	.134	.068	.020	.130	.067	.019	.126	.065	.019	
8.0	.131	.064	.018	.129	.064	.018	.125	.063	.018	.121	.061	.018	.118	.060	.018	
9.0	.123	.059	.017	.121	.059	.017	.117	.058	.016	.114	.057	.016	.111	.056	.016	
10.0	.115	.055	.015	.113	.055	.015	.110	.054	.015	.107	.053	.015	.104	.052	.015	

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	.130	.130	.130	.111	.111	.111	.076	.076	.076	.044	.044	.044	.014	.014	.014	
1.0	.124	.106	.091	.106	.091	.078	.072	.063	.054	.042	.036	.031	.013	.012	.010	
2.0	.119	.090	.065	.102	.077	.057	.070	.054	.039	.040	.031	.023	.013	.010	.008	
3.0	.114	.078	.049	.098	.067	.043	.067	.047	.030	.039	.027	.018	.012	.009	.006	
4.0	.109	.069	.038	.094	.060	.033	.064	.042	.024	.037	.024	.014	.012	.008	.005	
5.0	.104	.062	.031	.089	.054	.027	.062	.038	.019	.036	.022	.011	.011	.007	.004	
6.0	.099	.056	.026	.085	.049	.022	.059	.034	.016	.034	.020	.009	.011	.007	.003	
7.0	.094	.052	.022	.081	.045	.019	.056	.031	.014	.033	.019	.008	.011	.006	.003	
8.0	.090	.048	.019	.077	.041	.017	.054	.029	.012	.031	.017	.007	.010	.006	.002	
9.0	.086	.044	.017	.074	.039	.015	.051	.027	.010	.030	.016	.006	.010	.005	.002	
10.0	.082	.042	.015	.070	.036	.013	.049	.025	.009	.028	.015	.006	.009	.005	.002	

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:07 November 2024

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.293
Humidity:65.0%
Test Distance:5.640m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:23.97V I:1.221A P:29.26W PF:1.000 Lamp Flux:2480.82x1 lm										
NAME: LP-24-24x24-SP					TYPE:Basic LightPanel			WEIGHT:		
SPEC.:FLS-1W4-6000K					DIM.: 24*24			SERIAL No.:01		
MFR.: EVERFINE					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	11.4	13.0	11.7	13.2	13.4	10.5	12.1	10.8	12.4	12.6
3H	13.2	14.7	13.5	14.9	15.1	11.8	13.3	12.1	13.5	13.8
4H	13.9	15.3	14.2	15.5	15.8	12.1	13.5	12.4	13.8	14.1
6H	14.3	15.7	14.7	15.9	16.2	12.1	13.4	12.4	13.7	14.0
8H	14.5	15.8	14.8	16.0	16.3	12.1	13.3	12.4	13.6	13.9
12H	14.5	15.8	14.9	16.1	16.4	12.0	13.2	12.4	13.5	13.8
4H 2H	11.9	13.3	12.2	13.6	13.8	11.2	12.6	11.5	12.9	13.1
3H	13.8	15.0	14.1	15.3	15.6	12.6	13.8	12.9	14.1	14.4
4H	14.5	15.7	14.9	16.0	16.3	13.0	14.1	13.4	14.4	14.8
6H	15.1	16.1	15.5	16.5	16.8	13.0	14.0	13.4	14.4	14.7
8H	15.3	16.2	15.7	16.6	17.0	13.0	13.9	13.4	14.3	14.6
12H	15.4	16.3	15.8	16.6	17.0	12.9	13.8	13.3	14.2	14.6
8H 4H	14.6	15.6	15.0	15.9	16.3	13.2	14.1	13.6	14.5	14.9
6H	15.3	16.0	15.7	16.4	16.9	13.2	14.0	13.7	14.4	14.9
8H	15.5	16.2	15.9	16.6	17.0	13.2	13.9	13.7	14.3	14.8
12H	15.6	16.2	16.1	16.7	17.1	13.2	13.8	13.7	14.2	14.7
12H 4H	14.6	15.4	15.0	15.8	16.2	13.2	14.1	13.6	14.4	14.8
6H	15.2	15.9	15.7	16.3	16.8	13.2	13.9	13.7	14.4	14.8
8H	15.5	16.1	15.9	16.5	17.0	13.2	13.8	13.7	14.3	14.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.2 / - 0.3				
1.5H	+ 0.2 / - 0.2					+ 0.2 / - 0.4				
2.0H	+ 0.3 / - 0.4					+ 0.2 / - 0.4				

CIE Pub.117 Corrected 2481 lm Total Lamp Luminous Flux.(8log(F/F0) = 3.2)

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:07 November 2024

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.293
Humidity:65.0%
Test Distance:5.640m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:23.97V I:1.221A P:29.26W PF:1.000 Lamp Flux:2480.82x1 lm		
NAME: LP-24-24x24-SP	TYPE:Basic LightPanel	WEIGHT:
SPEC.:FLS-1W4-6000K	DIM.: 24*24	SERIAL No.:01
MFR.: EVERFINE	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	37	29	24	36	28	24	36	28	23	19
0.80	44	35	30	43	35	30	42	35	30	25
1.00	50	42	36	49	41	36	47	42	36	31
1.25	55	47	42	54	47	42	52	46	41	36
1.50	58	51	46	57	51	46	55	49	45	40
2.00	63	57	52	62	56	52	60	55	51	45
2.50	66	61	56	65	60	56	62	58	54	49
3.00	69	64	60	67	63	59	65	61	58	52
4.00	72	68	64	70	67	63	67	64	62	55
5.00	74	70	67	72	69	66	69	66	64	58
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:07 November 2024

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.293
Humidity:65.0%
Test Distance:5.640m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:23.97V I:1.221A P:29.26W PF:1.000 Lamp Flux:2480.82x1 lm		
NAME: LP-24-24x24-SP	TYPE:Basic LightPanel	WEIGHT:
SPEC.:FLS-1W4-6000K	DIM.: 24*24	SERIAL No.:01
MFR.: EVERFINE	SUR.:	Shielding Angle:

Conical surface Flux(90deg):

805.79 lm

%lum = 47.6%

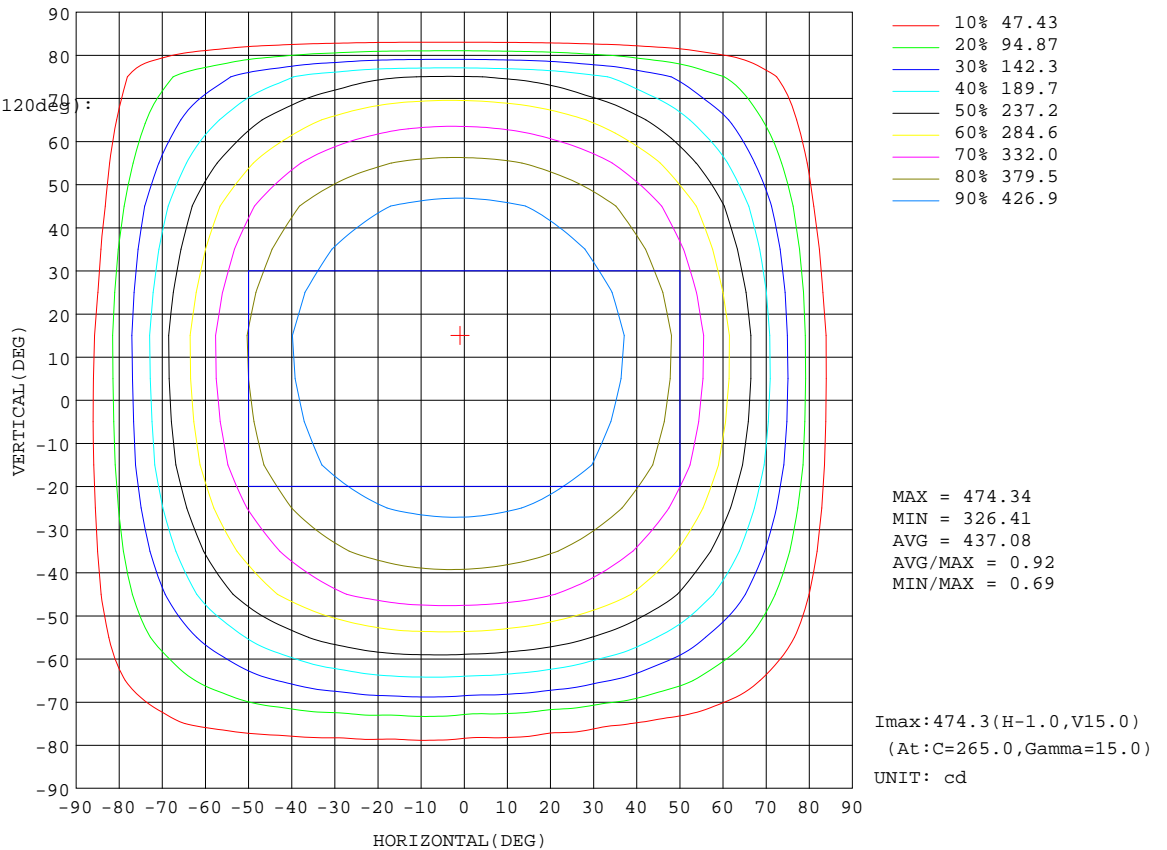
%lamp = 32.5%

Conical surface Flux(120deg):

1262 lm

%lum = 74.6%

%lamp = 50.9%

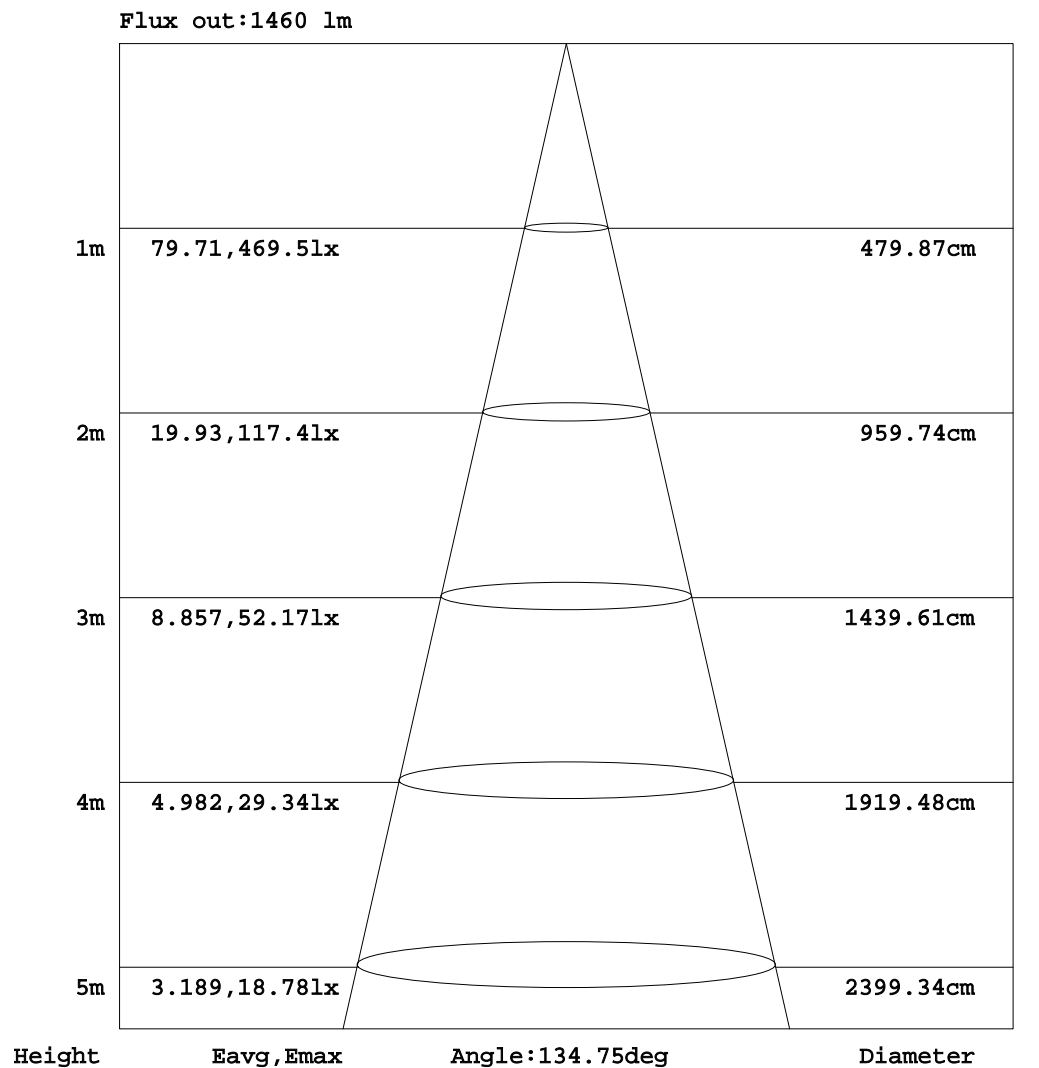


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:07 November 2024

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.293
Humidity:65.0%
Test Distance:5.640m [K=1.0000]
Remarks:

AAI Figure

Test:U:23.97V I:1.221A P:29.26W PF:1.000 Lamp Flux:2480.82x1 lm		
NAME: LP-24-24x24-SP	TYPE:Basic LightPanel	WEIGHT:
SPEC.:FLS-1W4-6000K	DIM.: 24*24	SERIAL No.:01
MFR.: EVERFINE	SUR.:	Shielding Angle:



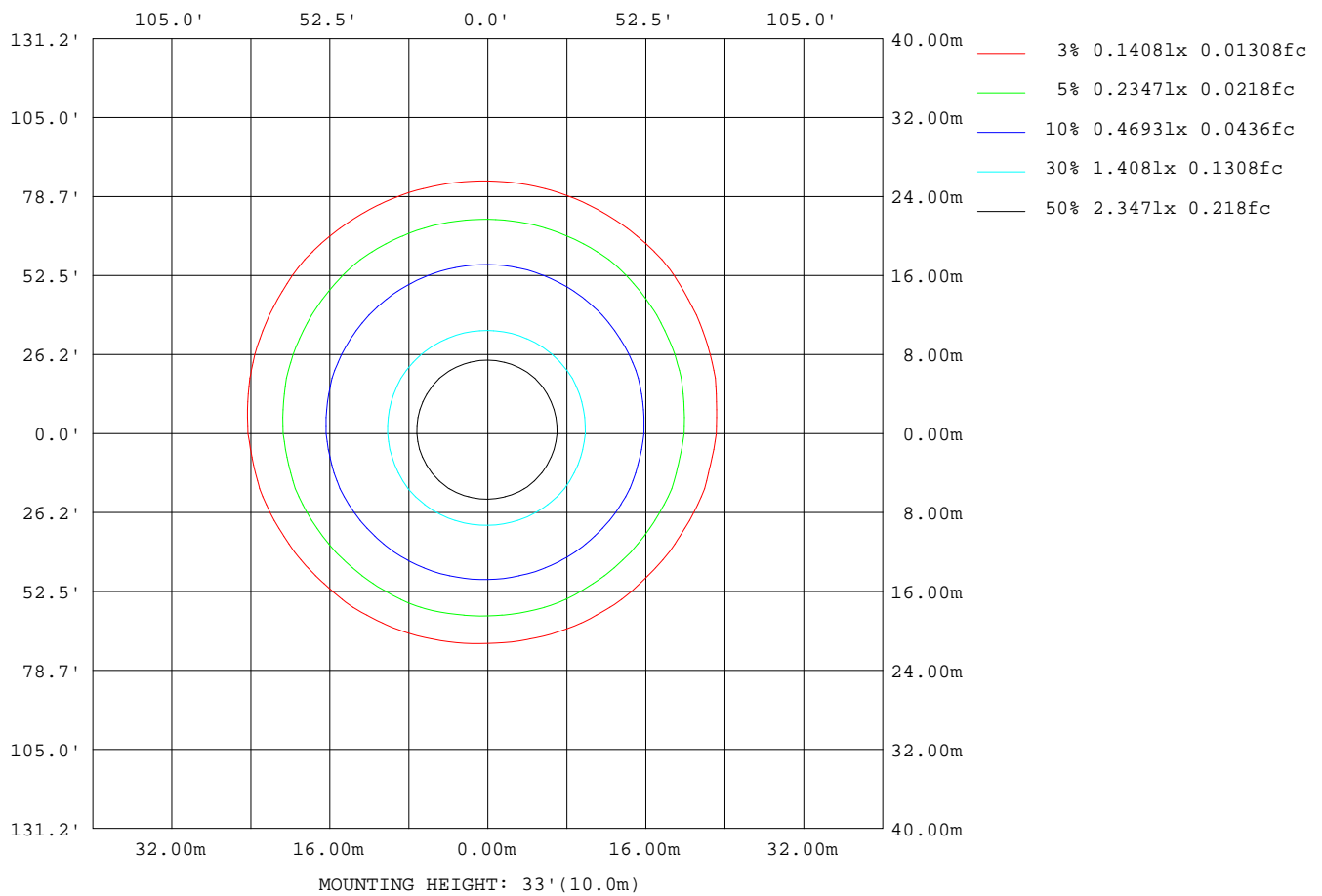
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:07 November 2024

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.293
Humidity:65.0%
Test Distance:5.640m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:23.97V I:1.221A P:29.26W PF:1.000 Lamp Flux:2480.82x1 lm		
NAME: LP-24-24x24-SP	TYPE:Basic LightPanel	WEIGHT:
SPEC.:FLS-1W4-6000K	DIM.: 24*24	SERIAL No.:01
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:07 November 2024

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.293
 Humidity:65.0%
 Test Distance:5.640m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:23.97V I:1.221A P:29.26W PF:1.000 Lamp Flux:2480.82x1 lm		
NAME: LP-24-24x24-SP	TYPE:Basic LightPanel	WEIGHT:
SPEC.:FLS-1W4-6000K	DIM.: 24*24	SERIAL No.:01
MFR.: EVERFINE	SUR.:	Shielding Angle:

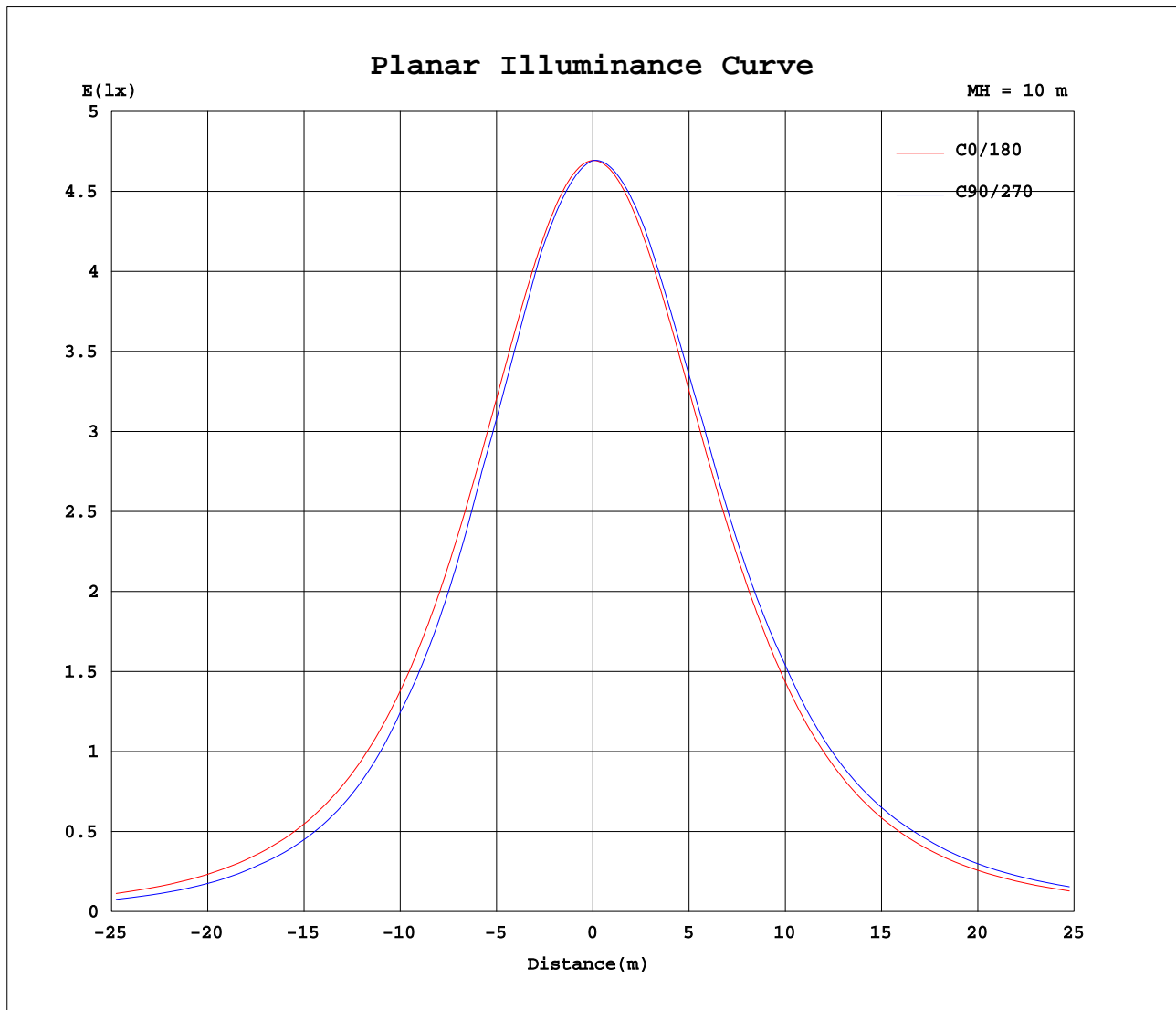
AvgL	cd/m2
L_0~180(65)av	739
L_0~180(75)av	710
L_0~180(85)av	702
L_90~270(65)av	711
L_90~270(75)av	717
L_90~270(85)av	0
L_45(65)av	729
L_45(75)av	715
L_45(85)av	0

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:07 November 2024

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.293
Humidity:65.0%
Test Distance:5.640m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 07 November 2024

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.293
 Humidity: 65.0%
 Test Distance: 5.640m [K=1.0000]
 Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.293
Humidity:65.0%
Test Distance:5.640m [K=1.0000]
Remarks:

```

```

Range: 0 - 90DEG
Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.293
Humidity:65.0%
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Remarks:

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```

γ Range: 0 - 90DEG
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γ Range: 0 - 90DEG
γ Interval: 0.5DEG
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Humidity:65.0%
Test Distance:5.640m [K=1.0000]
Remarks:

```