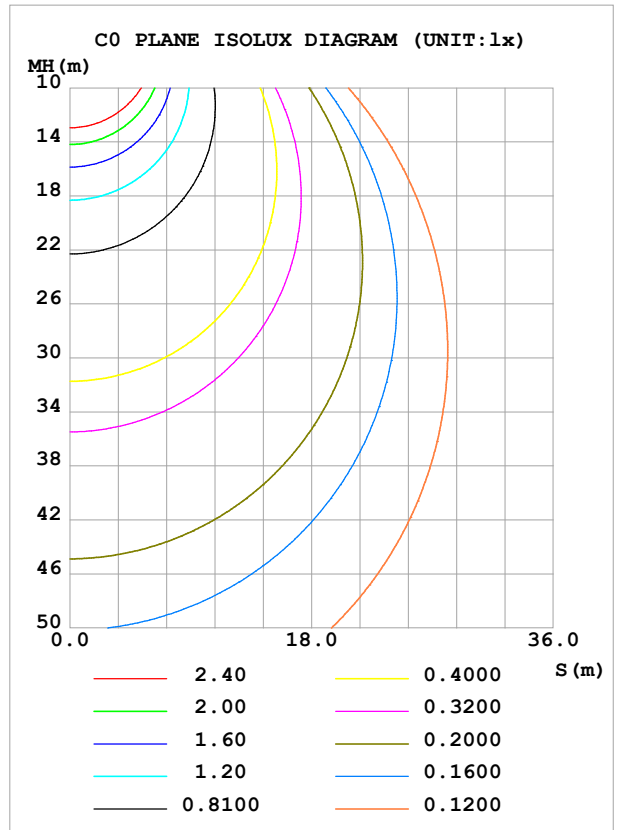
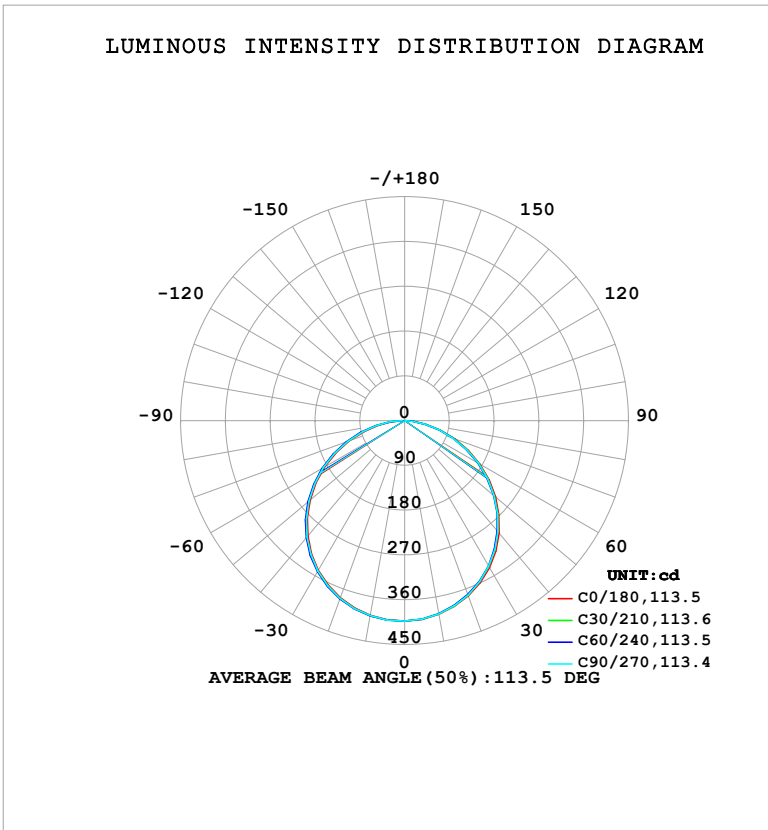


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:121.03V I:0.2134A P:23.730W PF:0.9189 Freq:60.00Hz Lamp Flux:1172.02x1 lm		
NAME: LS-AL-12TL-24W-5CCT-BL	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1#30K
MFR.: YOURZOR	SUR.: 0.274	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL: LS-AL-12TL-24W-5CCT-BL-30K		Imax (cd)	403.0	S/MH (C0/180)	1.28
NOMINAL POWER (W)	24	LOR (%)	100.0	S/MH (C90/270)	1.29
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	1172.0	η UP, DN (C0-180)	0.0, 48.5
NOMINAL FLUX (lm)	1172.02	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 51.5
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120	η down (%)	100.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: DAMIN
 Test Date: 2026-02-04

γ Range: 0 - 90DEG
 γ Interval: 5.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.488
 Humidity: 65.0%
 Test Distance: 6.144m [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	395.3	394.3	394.6	395.6	397.5	398.5	398.2	397.1	0- 10	38.15	38.15	3.26,3.26
20	374.7	372.5	372.9	375.2	378.8	380.9	380.2	378.0	10- 20	109.6	147.7	12.6,12.6
30	341.0	337.7	338.1	341.6	347.1	350.1	349.1	345.9	20- 30	166.8	314.5	26.8,26.8
40	295.1	291.0	291.4	295.8	303.0	307.0	305.5	301.6	30- 40	201.9	516.3	44.1,44.1
50	238.9	234.4	234.8	239.8	248.2	253.1	251.3	246.6	40- 50	209.9	726.3	62,62
60	175.1	170.5	170.8	175.9	185.1	190.7	188.8	183.3	50- 60	189.9	916.2	78.2,78.2
70	107.8	103.9	103.9	108.1	117.8	123.8	121.6	115.6	60- 70	145.1	1061	90.5,90.5
80	44.66	41.69	41.70	44.82	53.18	58.97	56.90	50.85	70- 80	84.90	1146	97.8,97.8
90	0.9403	0.9696	1.004	0.9393	2.567	5.514	5.198	2.295	80- 90	25.87	1172	100,100
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): 622.09 lm

%lum = 53.1%

%lamp = 53.1%

Conical surface Flux(130deg): 995.56 lm

%lum = 84.9%

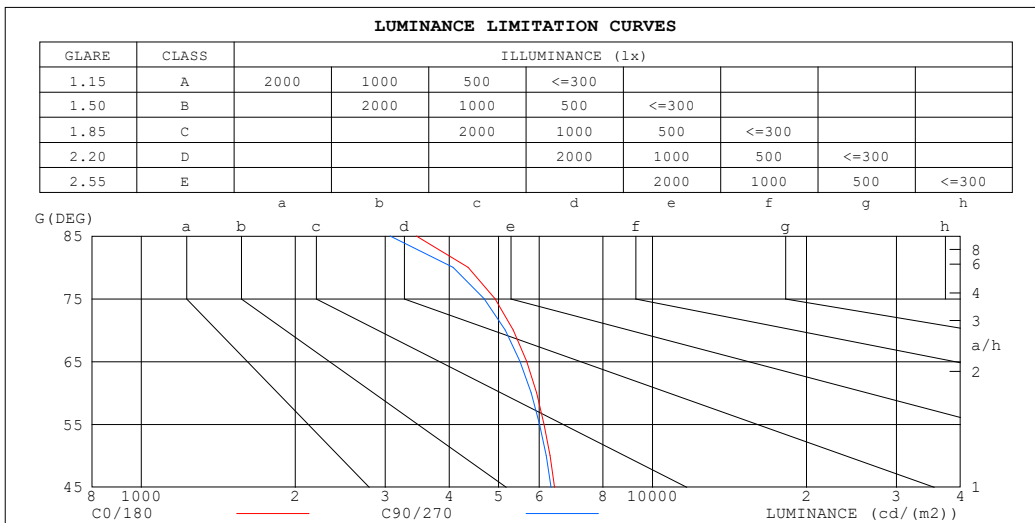
%lamp = 84.9%

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2026-02-04

γ Range: 0 - 90DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
 Humidity:65.0%
 Test Distance:6.144m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:121.03V I:0.2134A P:23.730W PF:0.9189 Freq:60.00Hz Lamp Flux:1172.02x1 lm		
NAME: LS-AL-12TL-24W-5CCT-BL	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1#30K
MFR.: YOURZOR	SUR.: 0.274	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	3449	3063
80	4358	4072
75	4920	4681
70	5340	5150
65	5677	5505
60	5936	5791
55	6137	6014
50	6299	6192
45	6427	6333

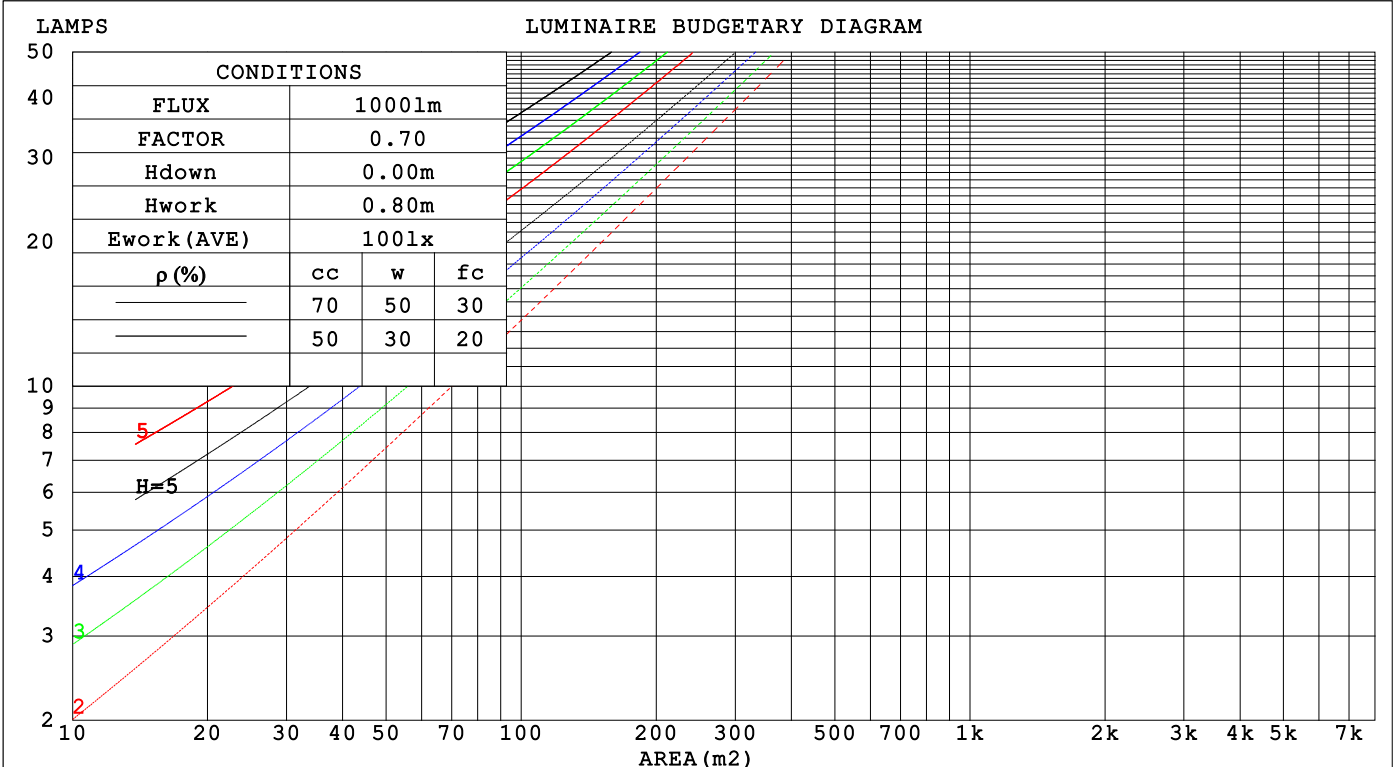
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2026-02-04

γ Range: 0 - 90DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
 Humidity:65.0%
 Test Distance:6.144m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:121.03V I:0.2134A P:23.730W PF:0.9189 Freq:60.00Hz Lamp Flux:1172.02x1 lm		
NAME: LS-AL-12TL-24W-5CCT-BL	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1#30K
MFR.: YOURZOR	SUR.: 0.274	Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.04	.99	.95	1.01	.97	.94	.97	.94	.91	.93	.90	.88	.90	.87	.85	.83
2.0	.90	.83	.77	.88	.82	.76	.85	.79	.75	.81	.77	.73	.78	.75	.71	.69
3.0	.79	.71	.64	.77	.70	.64	.74	.68	.62	.72	.66	.61	.69	.64	.60	.58
4.0	.70	.61	.54	.69	.60	.54	.66	.59	.53	.64	.57	.52	.62	.56	.52	.49
5.0	.62	.53	.47	.61	.53	.46	.59	.52	.46	.57	.50	.45	.55	.49	.45	.43
6.0	.56	.47	.41	.55	.47	.40	.53	.46	.40	.52	.45	.40	.50	.44	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.47	.40	.35	.46	.40	.35	.33
8.0	.46	.38	.32	.46	.37	.32	.44	.37	.32	.43	.36	.31	.42	.36	.31	.29
9.0	.43	.34	.29	.42	.34	.29	.41	.34	.28	.40	.33	.28	.39	.33	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.38	.31	.26	.37	.30	.26	.36	.30	.26	.24



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2026-02-04

γ Range: 0 - 90DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
 Humidity:65.0%
 Test Distance:6.144m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:121.03V I:0.2134A P:23.730W PF:0.9189 Freq:60.00Hz Lamp Flux:1172.02x1 lm		
NAME: LS-AL-12TL-24W-5CCT-BL	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1#30K
MFR.: YOURZOR	SUR.: 0.274	Shielding Angle:

ρ_{CC}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.315	.179	.057	.308	.175	.056	.294	.169	.054	.282	.163	.052	.271	.157	.051	
2.0	.295	.162	.050	.289	.159	.049	.277	.154	.048	.266	.149	.047	.256	.145	.046	
3.0	.272	.145	.043	.267	.143	.043	.256	.139	.042	.247	.135	.041	.238	.132	.041	
4.0	.251	.130	.038	.246	.129	.038	.237	.126	.038	.228	.123	.037	.220	.120	.036	
5.0	.232	.118	.034	.227	.117	.034	.219	.114	.034	.212	.112	.033	.204	.109	.033	
6.0	.215	.108	.031	.211	.107	.031	.204	.104	.030	.197	.102	.030	.190	.100	.030	
7.0	.200	.099	.028	.196	.098	.028	.190	.096	.028	.184	.094	.027	.178	.092	.027	
8.0	.186	.091	.026	.183	.090	.026	.178	.089	.025	.172	.087	.025	.167	.086	.025	
9.0	.175	.084	.024	.172	.084	.024	.167	.082	.023	.162	.081	.023	.157	.080	.023	
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.153	.076	.022	.148	.075	.021	

ρ_{CC}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients (CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.181	.156	.134	.155	.134	.115	.106	.092	.080	.061	.053	.046	.019	.017	.015	
2.0	.173	.132	.098	.148	.114	.084	.101	.079	.059	.058	.046	.035	.019	.015	.011	
3.0	.165	.114	.074	.141	.099	.064	.097	.069	.045	.056	.040	.027	.018	.013	.009	
4.0	.157	.101	.058	.135	.087	.050	.093	.061	.036	.054	.036	.021	.017	.012	.007	
5.0	.150	.091	.047	.129	.078	.041	.089	.055	.029	.051	.032	.017	.017	.010	.006	
6.0	.143	.082	.039	.123	.071	.034	.085	.050	.024	.049	.029	.014	.016	.010	.005	
7.0	.136	.075	.033	.117	.065	.029	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.129	.070	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.014	.008	.003	
9.0	.123	.065	.025	.106	.056	.022	.074	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.117	.060	.022	.101	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2026-02-04

γ Range: 0 - 90DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
 Humidity:65.0%
 Test Distance:6.144m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:121.03V I:0.2134A P:23.730W PF:0.9189 Freq:60.00Hz										
Lamp Flux:1172.02x1 lm										
NAME: LS-AL-12TL-24W-5CCT-BL					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.: 1#30K		
MFR.: YOURZOR					SUR.: 0.274			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	18.5	20.0	18.7	20.2	20.4	18.4	19.9	18.6	20.1	20.3
3H	19.9	21.4	20.2	21.6	21.8	19.8	21.2	20.1	21.4	21.7
4H	20.5	21.9	20.8	22.1	22.4	20.3	21.7	20.7	21.9	22.2
6H	20.9	22.2	21.2	22.4	22.7	20.7	22.0	21.0	22.2	22.5
8H	21.0	22.2	21.3	22.5	22.8	20.7	22.0	21.1	22.3	22.5
12H	21.0	22.2	21.4	22.5	22.8	20.8	21.9	21.1	22.2	22.6
4H 2H	19.0	20.4	19.4	20.6	20.9	19.0	20.3	19.3	20.6	20.8
3H	20.7	21.9	21.0	22.2	22.5	20.6	21.7	20.9	22.0	22.3
4H	21.4	22.5	21.7	22.8	23.1	21.2	22.3	21.6	22.6	23.0
6H	21.9	22.8	22.3	23.2	23.5	21.7	22.6	22.1	23.0	23.3
8H	22.0	22.9	22.4	23.2	23.6	21.8	22.6	22.2	23.0	23.4
12H	22.0	22.9	22.5	23.2	23.7	21.8	22.6	22.2	23.0	23.4
8H 4H	21.6	22.5	22.0	22.9	23.2	21.5	22.4	21.9	22.7	23.1
6H	22.2	22.9	22.6	23.3	23.8	22.0	22.8	22.5	23.2	23.6
8H	22.3	23.0	22.8	23.4	23.9	22.1	22.8	22.6	23.2	23.7
12H	22.5	23.0	23.0	23.5	24.0	22.3	22.8	22.7	23.3	23.7
12H 4H	21.6	22.4	22.0	22.8	23.2	21.5	22.3	21.9	22.7	23.1
6H	22.2	22.9	22.7	23.3	23.7	22.0	22.7	22.5	23.1	23.6
8H	22.4	23.0	22.9	23.4	23.9	22.2	22.8	22.7	23.2	23.7
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.1 / - 0.3					+ 0.1 / - 0.3				
2.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.3				

CIE Pub.117, 1172 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.6)
 Area: 0.059 m2

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2026-02-04

γ Range: 0 - 90DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
 Humidity:65.0%
 Test Distance:6.144m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:121.03V I:0.2134A P:23.730W PF:0.9189 Freq:60.00Hz Lamp Flux:1172.02x1 lm		
NAME: LS-AL-12TL-24W-5CCT-BL	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1#30K
MFR.: YOURZOR	SUR.: 0.274	Shielding Angle:

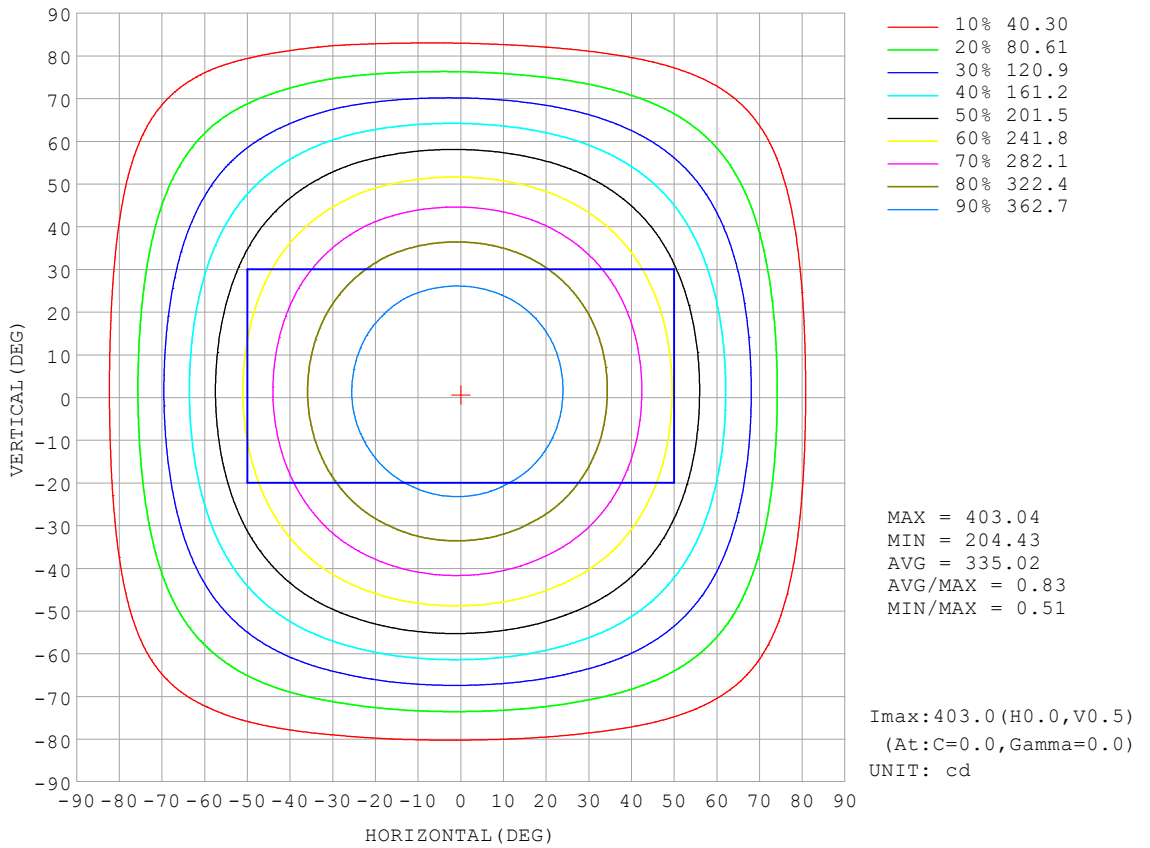
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	46	39	56	45	38	55	45	38	32
0.80	67	56	48	66	55	48	64	54	48	41
1.00	76	64	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	65	79	70	64	56
1.50	88	78	71	86	77	70	83	75	69	62
2.00	95	86	79	93	85	79	89	83	77	69
2.50	99	91	85	97	89	84	93	87	82	73
3.00	102	95	89	100	93	88	96	91	86	78
4.00	106	100	95	104	98	94	99	95	91	83
5.00	108	104	99	106	102	98	101	98	95	86
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2026-02-04

γ Range: 0 - 90DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
 Humidity:65.0%
 Test Distance:6.144m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:121.03V I:0.2134A P:23.730W PF:0.9189 Freq:60.00Hz Lamp Flux:1172.02x1 lm		
NAME: LS-AL-12TL-24W-5CCT-BL	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1#30K
MFR.: YOURZOR	SUR.: 0.274	Shielding Angle:

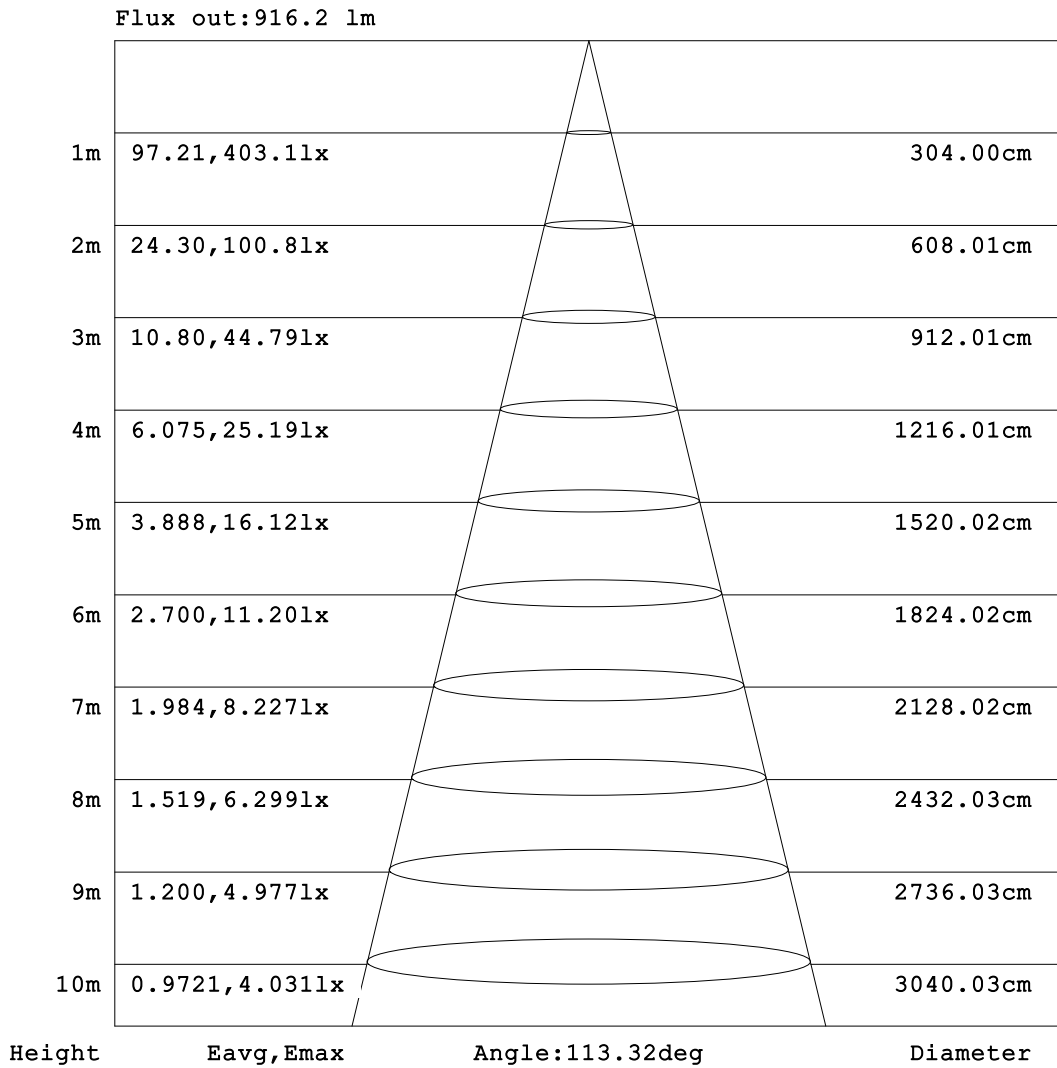


C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2026-02-04

γ Range: 0 - 90DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
 Humidity:65.0%
 Test Distance:6.144m [K=1.0000]
 Remarks:

AAI Figure

Test:U:121.03V I:0.2134A P:23.730W PF:0.9189 Freq:60.00Hz Lamp Flux:1172.02x1 lm		
NAME: LS-AL-12TL-24W-5CCT-BL	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1#30K
MFR.: YOURZOR	SUR.: 0.274	Shielding Angle:



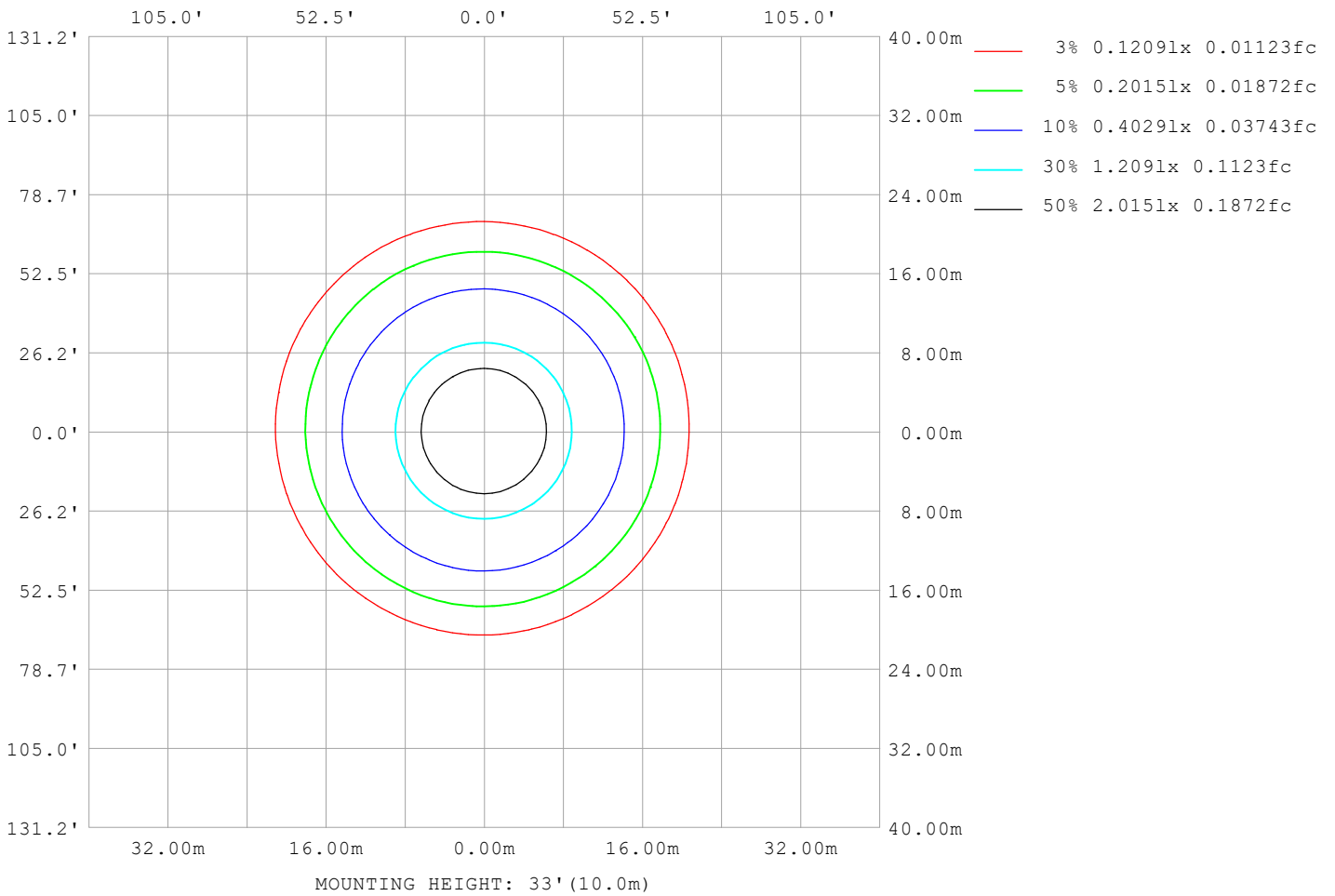
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3°C
Operators:DAMIN
Test Date:2026-02-04

γ Range: 0 - 90DEG
γ Interval: 5.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
Humidity:65.0%
Test Distance:6.144m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:121.03V I:0.2134A P:23.730W PF:0.9189 Freq:60.00Hz Lamp Flux:1172.02x1 lm		
NAME: LS-AL-12TL-24W-5CCT-BL	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1#30K
MFR.: YOURZOR	SUR.: 0.274	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2026-02-04

γ Range: 0 - 90DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
 Humidity:65.0%
 Test Distance:6.144m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:121.03V I:0.2134A P:23.730W PF:0.9189 Freq:60.00Hz Lamp Flux:1172.02x1 lm		
NAME: LS-AL-12TL-24W-5CCT-BL	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.: 1#30K
MFR.: YOURZOR	SUR.: 0.274	Shielding Angle:

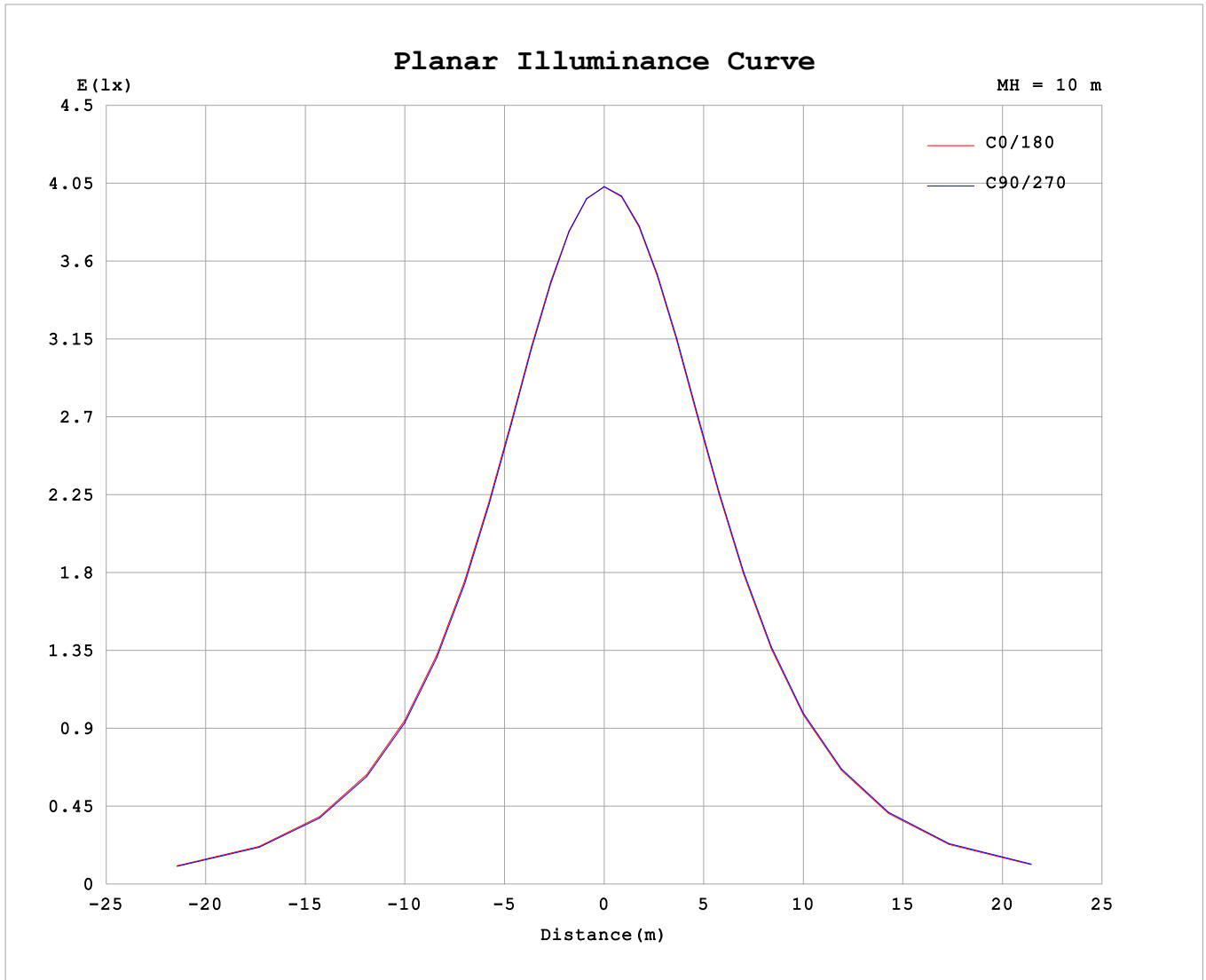
AvgL	cd/m2
L_0~180 (65) av	5881
L_0~180 (75) av	5228
L_0~180 (85) av	4173
L_90~270 (65) av	5868
L_90~270 (75) av	5237
L_90~270 (85) av	4305
L_45 (65) av	5881
L_45 (75) av	5234
L_45 (85) av	4225

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3°C
 Operators:DAMIN
 Test Date:2026-02-04

γ Range: 0 - 90DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.488
 Humidity:65.0%
 Test Distance:6.144m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3°C
 Operators: DAMIN
 Test Date: 2026-02-04

γ Range: 0 - 90DEG
 γ Interval: 5.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.00.488
 Humidity: 65.0%
 Test Distance: 6.144m [K=1.0000]
 Remarks:

