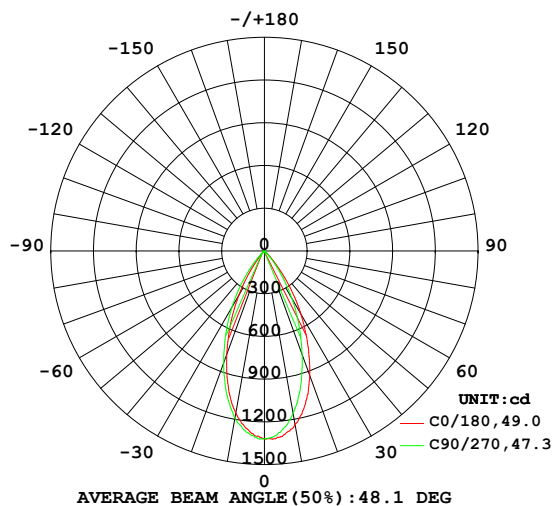


LUMINAIRE PHOTOMETRIC TEST REPORT

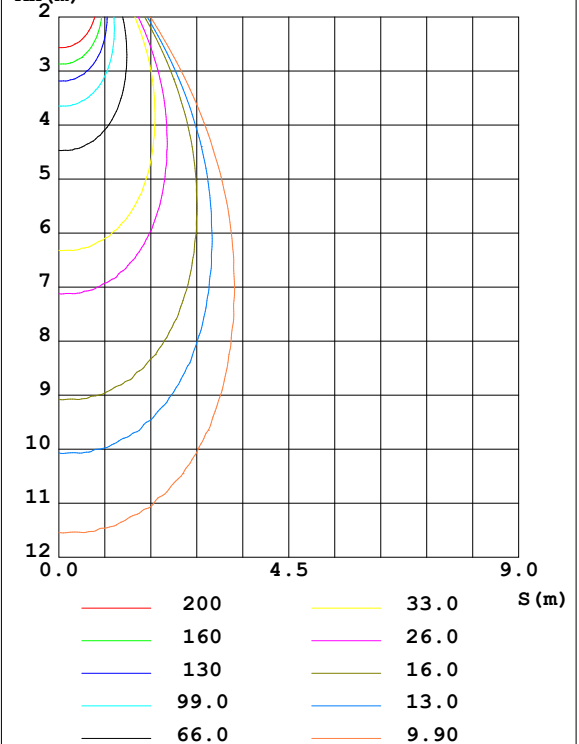
Test:U:232.29V I:0.0549A P:11.217W PF:0.8792 Freq:49.99Hz Lamp Flux:876.54lx1 lm		
NAME: 2922LED	TYPE:	WEIGHT:
SPEC.:P-2922LED-2x5W3048-CI15031R90-YML100	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 78.14 lm/W			
MODEL	CLU701 1002	I _{max} (cd)	1323	S/MH (C0/180)	0.72
NOMINAL POWER (W)	2x5W	LOR (%)	100.0	S/MH (C90/270)	0.76
RATED VOLTAGE (V)	220.0	TOTAL FLUX (lm)	876.54	η UP, DN (C0-180)	0.2, 51.6
NOMINAL FLUX (lm)	876.541	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.1, 48.1
LAMPS INSIDE	1	η up (%)	0.3	CIBSE SHR NOM	0.75
TEST VOLTAGE (V)	220.2	η down (%)	99.7	CIBSE SHR MAX	0.80

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Xie Bi
Test Date: 2024-09-05

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity: 65.0%
Test Distance: 6.810m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

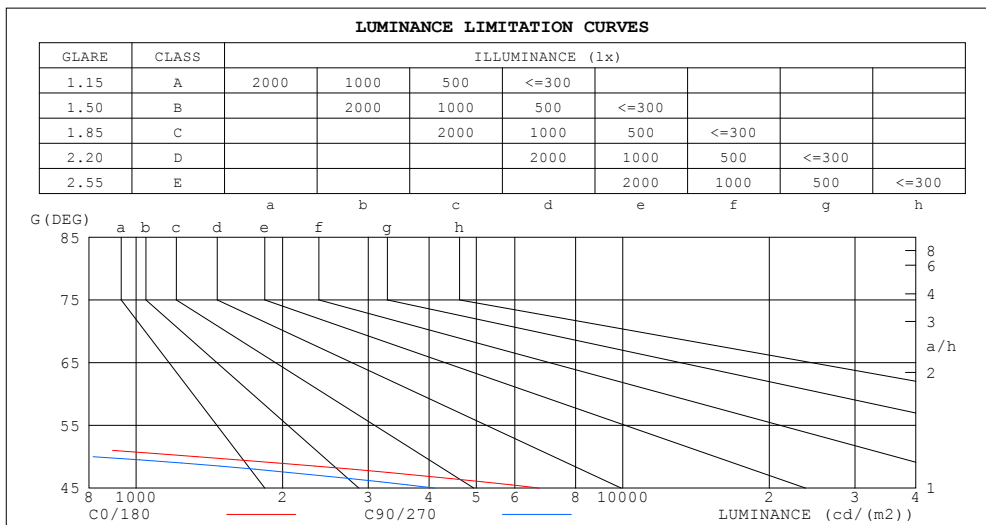
γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	1235	1158	1155	1191					0- 10	119.5	119.5	13.6,13.6
20	930.9	773.8	775.0	834.6					10- 20	283.6	403.1	46,46
30	513.0	386.6	360.6	455.5					20- 30	283.6	686.7	78.3,78.3
40	143.0	90.18	57.71	136.7					30- 40	156.1	842.8	96.1,96.1
50	7.900	4.826	1.647	9.702					40- 50	30.08	872.8	99.6,99.6
60	0.2079	0.1133	0.1202	0.1972					50- 60	1.128	874.0	99.7,99.7
70	0	0	0	0					60- 70	0.0367	874.0	99.7,99.7
80	0	0	0	0					70- 80	0	874.0	99.7,99.7
90	0	0	0	0					80- 90	0	874.0	99.7,99.7
100	0	0	0	0					90-100	0	874.0	99.7,99.7
110	0	0	0	0					100-110	0	874.0	99.7,99.7
120	0	0.0524	0.0087	0					110-120	0.0026	874.0	99.7,99.7
130	0.1775	0.3384	0.1640	0.1167					120-130	0.0758	874.1	99.7,99.7
140	0.6641	0.8793	0.5637	0.4376					130-140	0.3033	874.4	99.8,99.8
150	1.375	1.580	1.156	0.9466					140-150	0.5835	875.0	99.8,99.8
160	2.049	2.229	1.732	1.536					150-160	0.7226	875.7	99.9,99.9
170	2.553	2.680	2.344	2.230					160-170	0.6090	876.3	100,100
180	2.808	2.794	2.806	2.792					170-180	0.2476	876.5	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Xie Bi
 Test Date:2024-09-05

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
 Humidity:65.0%
 Test Distance:6.810m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:232.29V I:0.0549A P:11.217W PF:0.8792 Freq:49.99Hz Lamp Flux:876.54lx1 lm		
NAME: 2922LED	TYPE:	WEIGHT:
SPEC.:P-2922LED-2x5W3048-CI15031R90-YML100	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	0	0
80	0	0
75	0	0
70	0	0
65	10	0
60	45	25
55	131	77
50	1336	816
45	6733	4107

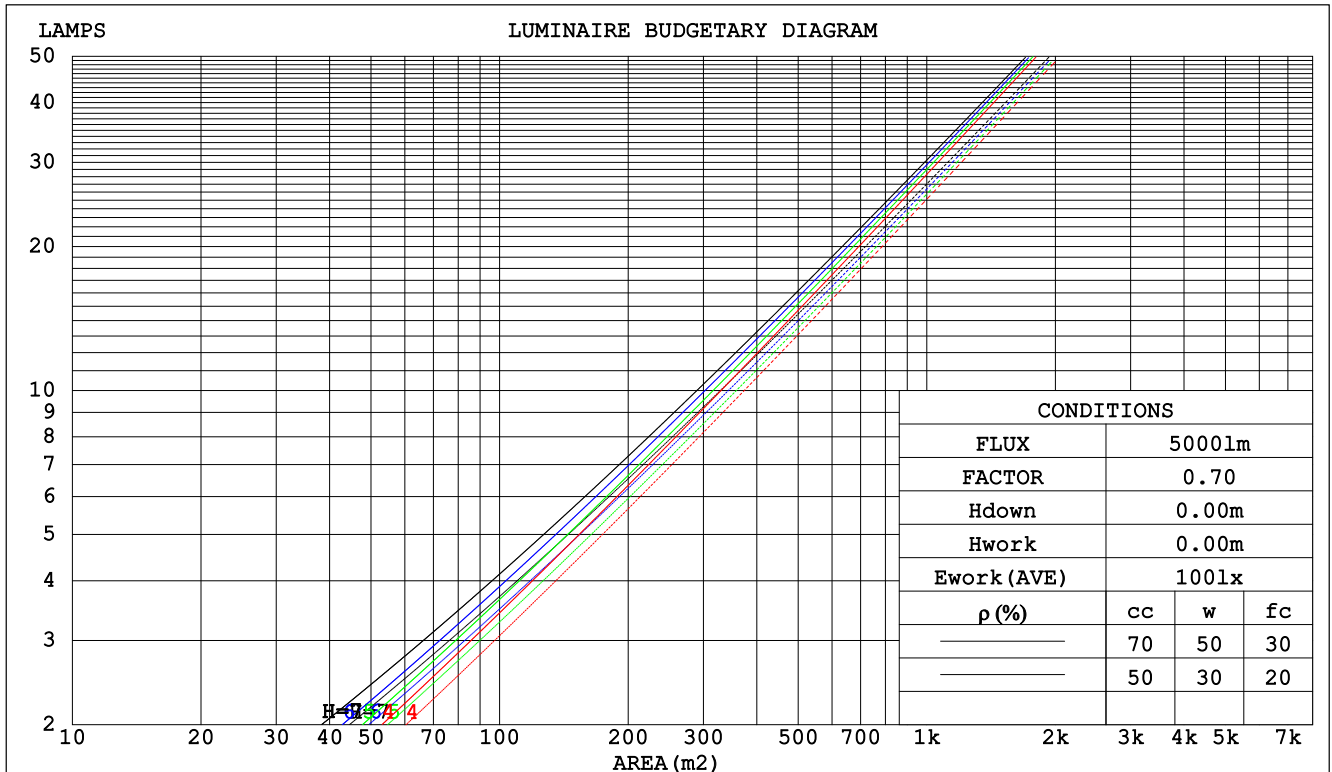
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2024-09-05

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:6.810m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:232.29V I:0.0549A P:11.217W PF:0.8792 Freq:49.99Hz Lamp Flux:876.54lx1 lm		
NAME: 2922LED	TYPE:	WEIGHT:
SPEC.:P-2922LED-2x5W3048-CI15031R90-YML100	DIM.:	SERIAL No.:
MFR.:	SUR.:	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	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	.00
1.0	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.03	1.02	1.01	.00	.99	.98	.97	.96	.94
2.0	1.04	1.00	.97	1.02	.99	.96	.99	.96	.94	.96	.94	.92	.93	.92	.90	.88
3.0	.98	.93	.89	.96	.92	.89	.94	.90	.87	.91	.88	.86	.89	.87	.85	.83
4.0	.92	.87	.83	.91	.86	.82	.89	.85	.81	.87	.83	.80	.85	.82	.80	.78
5.0	.87	.81	.77	.86	.81	.77	.84	.80	.76	.82	.79	.76	.81	.77	.75	.73
6.0	.82	.76	.72	.81	.76	.72	.80	.75	.72	.78	.74	.71	.77	.73	.71	.69
7.0	.77	.72	.68	.77	.72	.68	.76	.71	.67	.74	.70	.67	.73	.70	.67	.65
8.0	.73	.68	.64	.73	.68	.64	.72	.67	.64	.71	.66	.63	.70	.66	.63	.62
9.0	.70	.64	.61	.69	.64	.60	.68	.64	.60	.67	.63	.60	.67	.63	.60	.59
10.0	.66	.61	.57	.66	.61	.57	.65	.60	.57	.64	.60	.57	.64	.60	.57	.56



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2024-09-05

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:6.810m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:232.29V I:0.0549A P:11.217W PF:0.8792 Freq:49.99Hz Lamp Flux:876.541x1 lm		
NAME: 2922LED	TYPE:	WEIGHT:
SPEC.:P-2922LED-2x5W3048-CI15031R90-YML100	DIM.:	SERIAL No.:
MFR.:	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	.167	.095	.030	.160	.092	.029	.148	.085	.027	.136	.078	.025	.125	.073	.023		
2.0	.159	.087	.027	.154	.085	.026	.143	.080	.025	.133	.075	.023	.124	.070	.022		
3.0	.152	.081	.024	.147	.079	.024	.138	.075	.023	.129	.071	.022	.122	.067	.021		
4.0	.144	.075	.022	.140	.073	.022	.132	.070	.021	.125	.067	.020	.118	.064	.020		
5.0	.138	.070	.020	.134	.069	.020	.127	.066	.020	.121	.064	.019	.115	.062	.018		
6.0	.132	.066	.019	.128	.065	.019	.123	.063	.018	.117	.061	.018	.112	.059	.017		
7.0	.126	.062	.018	.123	.061	.017	.118	.060	.017	.113	.058	.017	.108	.056	.017		
8.0	.121	.059	.017	.118	.058	.016	.114	.057	.016	.109	.055	.016	.105	.054	.016		
9.0	.116	.056	.016	.114	.055	.016	.110	.054	.015	.106	.053	.015	.102	.052	.015		
10.0	.111	.053	.015	.109	.053	.015	.106	.052	.015	.102	.051	.014	.099	.050	.014		

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	.193	.193	.193	.165	.165	.165	.112	.112	.112	.065	.065	.065	.021	.021	.021	
1.0	.173	.160	.148	.148	.137	.127	.101	.094	.088	.058	.055	.051	.019	.018	.017	
2.0	.157	.135	.116	.134	.116	.101	.092	.080	.070	.053	.047	.041	.017	.015	.013	
3.0	.144	.116	.093	.123	.100	.081	.085	.069	.057	.049	.041	.033	.016	.013	.011	
4.0	.133	.101	.076	.114	.087	.066	.079	.061	.047	.045	.036	.028	.015	.012	.009	
5.0	.124	.089	.063	.107	.077	.055	.074	.054	.039	.043	.032	.023	.014	.010	.008	
6.0	.117	.080	.053	.100	.069	.046	.069	.048	.033	.040	.028	.019	.013	.009	.006	
7.0	.110	.072	.045	.095	.063	.040	.065	.044	.028	.038	.026	.017	.012	.008	.006	
8.0	.104	.066	.039	.090	.057	.034	.062	.040	.024	.036	.024	.014	.012	.008	.005	
9.0	.099	.061	.034	.086	.053	.030	.059	.037	.021	.035	.022	.013	.011	.007	.004	
10.0	.095	.056	.030	.082	.049	.027	.057	.034	.019	.033	.020	.011	.011	.007	.004	

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2024-09-05

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:6.810m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:232.29V I:0.0549A P:11.217W PF:0.8792 Freq:49.99Hz Lamp Flux:876.54lx1 lm										
NAME: 2922LED					TYPE:			WEIGHT:		
SPEC.:P-2922LED-2x5W3048-CI15031R90-YML100					DIM.:			SERIAL No.:		
MFR.:					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	16.5	17.4	16.7	17.6	17.7	15.0	15.9	15.3	16.1	16.3
3H	16.4	17.2	16.6	17.4	17.6	14.9	15.7	15.1	15.9	16.1
4H	16.3	17.0	16.5	17.3	17.5	14.8	15.5	15.1	15.8	16.0
6H	16.2	16.9	16.5	17.1	17.4	14.7	15.4	15.0	15.6	15.9
8H	16.1	16.8	16.4	17.1	17.3	14.6	15.3	15.0	15.6	15.9
12H	16.1	16.7	16.4	17.0	17.3	14.6	15.3	14.9	15.5	15.8
4H 2H	16.3	17.0	16.5	17.3	17.5	14.8	15.5	15.1	15.8	16.0
3H	16.1	16.7	16.4	17.0	17.3	14.6	15.3	14.9	15.5	15.8
4H	16.0	16.6	16.3	16.9	17.2	14.5	15.1	14.9	15.4	15.7
6H	15.9	16.4	16.3	16.8	17.1	14.4	14.9	14.8	15.3	15.6
8H	15.8	16.3	16.2	16.7	17.1	14.4	14.8	14.7	15.2	15.6
12H	15.8	16.2	16.2	16.6	17.0	14.3	14.7	14.7	15.1	15.5
8H 4H	15.8	16.3	16.2	16.7	17.1	14.4	14.8	14.7	15.2	15.6
6H	15.7	16.1	16.2	16.5	17.0	14.2	14.6	14.7	15.0	15.5
8H	15.7	16.0	16.1	16.5	16.9	14.2	14.5	14.6	15.0	15.4
12H	15.6	15.9	16.1	16.4	16.8	14.1	14.4	14.6	14.9	15.4
12H 4H	15.8	16.2	16.2	16.6	17.0	14.3	14.7	14.7	15.1	15.5
6H	15.7	16.0	16.1	16.5	16.9	14.2	14.5	14.6	15.0	15.4
8H	15.6	15.9	16.1	16.4	16.8	14.1	14.4	14.6	14.9	15.4
Variations with the observer position at spacings:										
S = 1.0H	+ 4.0 / -33.5					+ 3.2 / -33.9				
1.5H	+ 6.6 / -29.7					+ 5.8 / -28.5				
2.0H	+ 8.8 / -32.3					+ 8.0 / -34.6				

CIE Pub.117, 876.5 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.5)
Area: 0.0092 m2

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2024-09-05

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:6.810m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:232.29V I:0.0549A P:11.217W PF:0.8792 Freq:49.99Hz Lamp Flux:876.541x1 lm		
NAME: 2922LED	TYPE:	WEIGHT:
SPEC.:P-2922LED-2x5W3048-CI15031R90-YML100	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

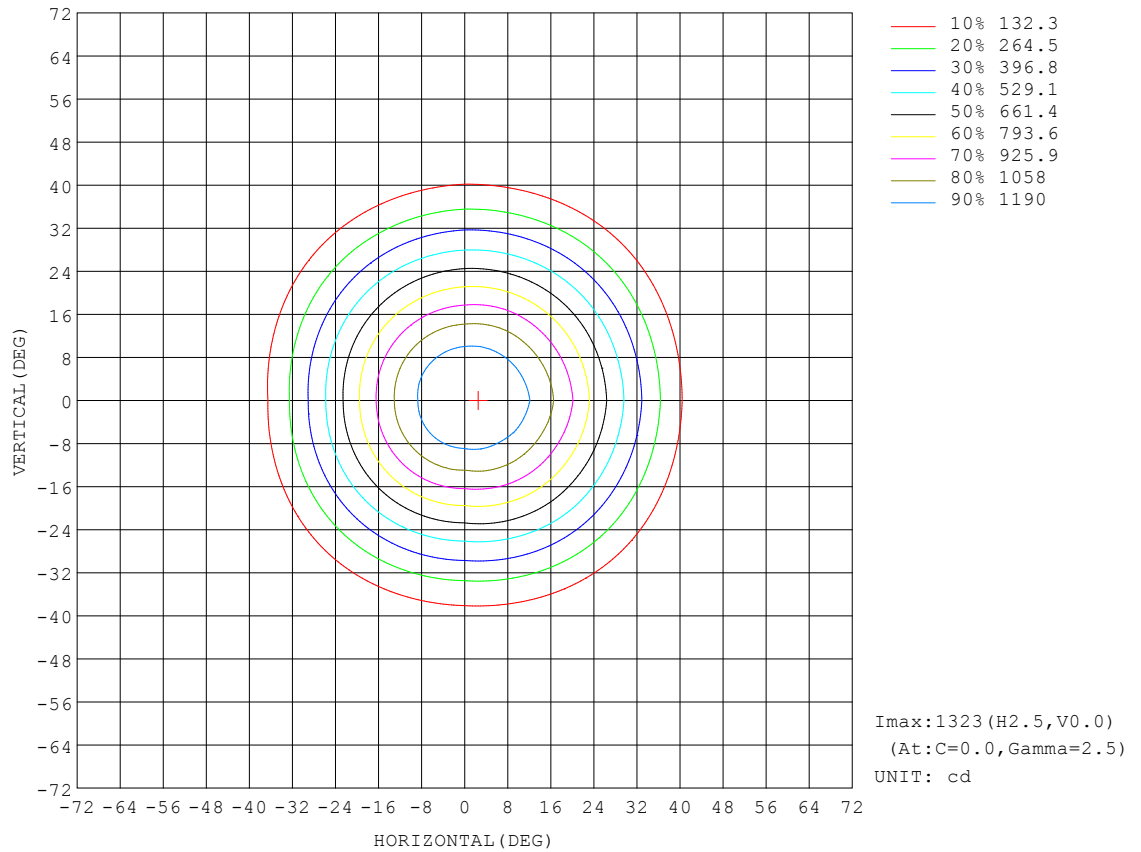
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	89	83	80	89	83	79	88	83	79	76
0.80	96	91	87	96	91	87	95	90	87	83
1.00	101	95	92	100	95	92	98	95	91	87
1.25	104	99	96	103	99	96	101	98	95	91
1.50	107	102	99	106	102	99	103	100	98	93
2.00	109	105	102	108	104	102	105	102	100	95
2.50	111	107	104	109	106	104	106	104	102	96
3.00	112	109	106	110	108	105	107	105	103	97
4.00	114	112	110	112	110	108	108	107	105	98
5.00	115	113	112	113	111	110	109	108	107	99
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Xie Bi
 Test Date: 2024-09-05

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.417
 Humidity: 65.0%
 Test Distance: 6.810m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:232.29V I:0.0549A P:11.217W PF:0.8792 Freq:49.99Hz Lamp Flux:876.54lx1 lm		
NAME: 2922LED	TYPE:	WEIGHT:
SPEC.:P-2922LED-2x5W3048-CI15031R90-YML100	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

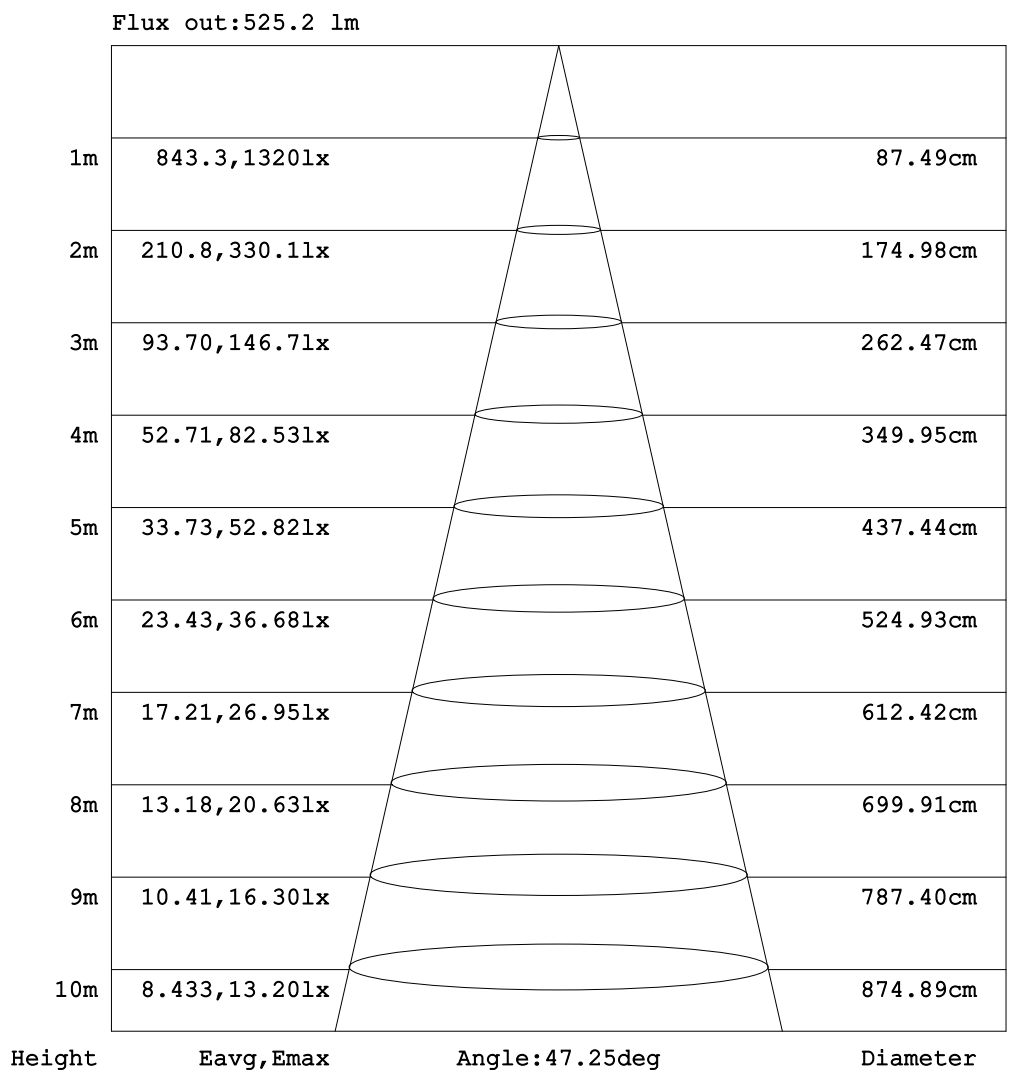


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2024-09-05

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:6.810m [K=1.0000]
Remarks:

AAI Figure

Test:U:232.29V I:0.0549A P:11.217W PF:0.8792 Freq:49.99Hz Lamp Flux:876.54lx1 lm		
NAME: 2922LED	TYPE:	WEIGHT:
SPEC.:P-2922LED-2x5W3048-CI15031R90-YML100	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



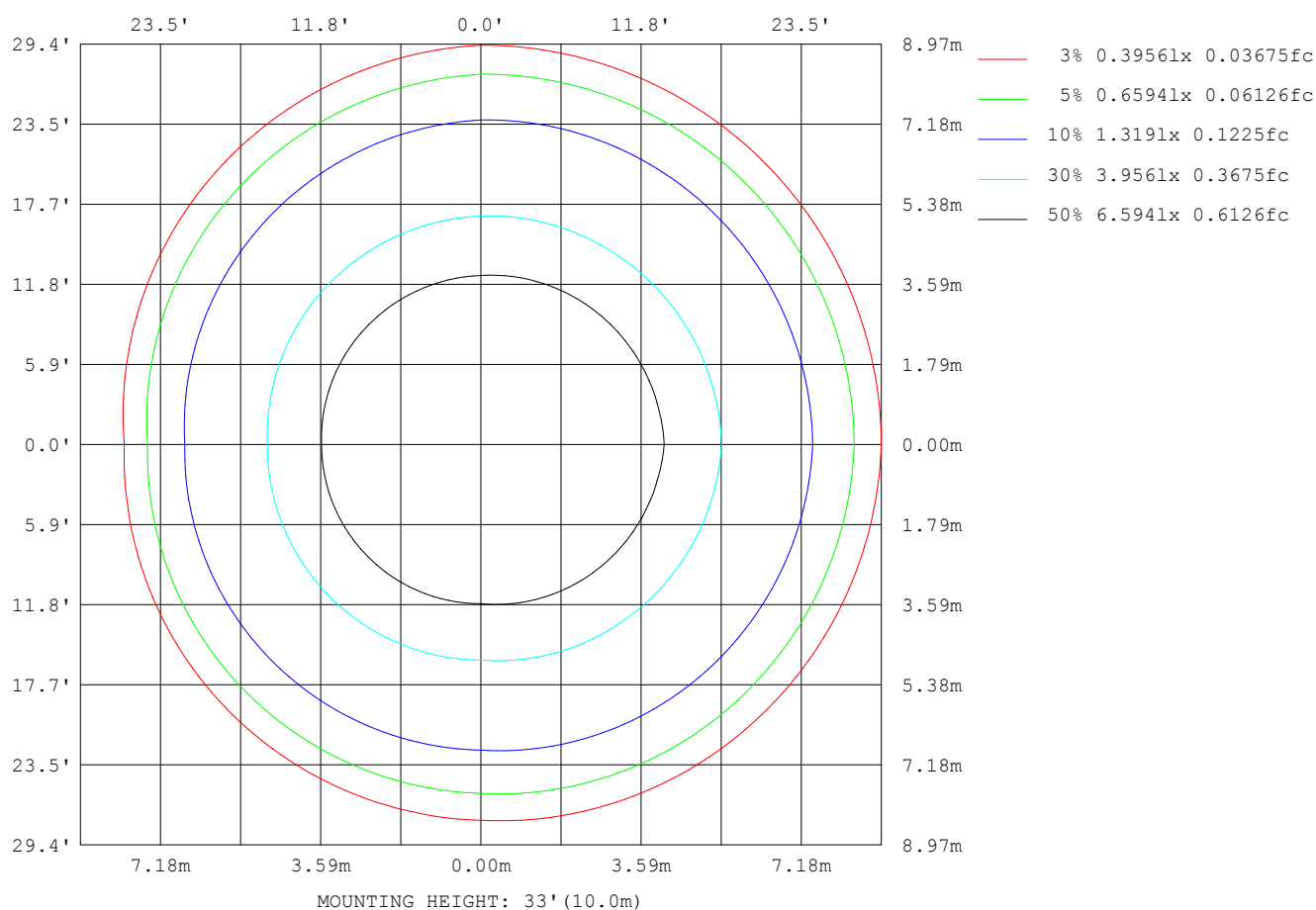
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Xie Bi
Test Date: 2024-09-05

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity: 65.0%
Test Distance: 6.810m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:232.29V I:0.0549A P:11.217W PF:0.8792 Freq:49.99Hz Lamp Flux:876.54lx1 lm		
NAME: 2922LED	TYPE:	WEIGHT:
SPEC.:P-2922LED-2x5W3048-CI15031R90-YML100	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2024-09-05

γ Range: 0 - 180DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:6.810m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:232.29V I:0.0549A P:11.217W PF:0.8792 Freq:49.99Hz Lamp Flux:876.541x1 lm		
NAME: 2922LED	TYPE:	WEIGHT:
SPEC.:P-2922LED-2x5W3048-CI15031R90-YML100	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

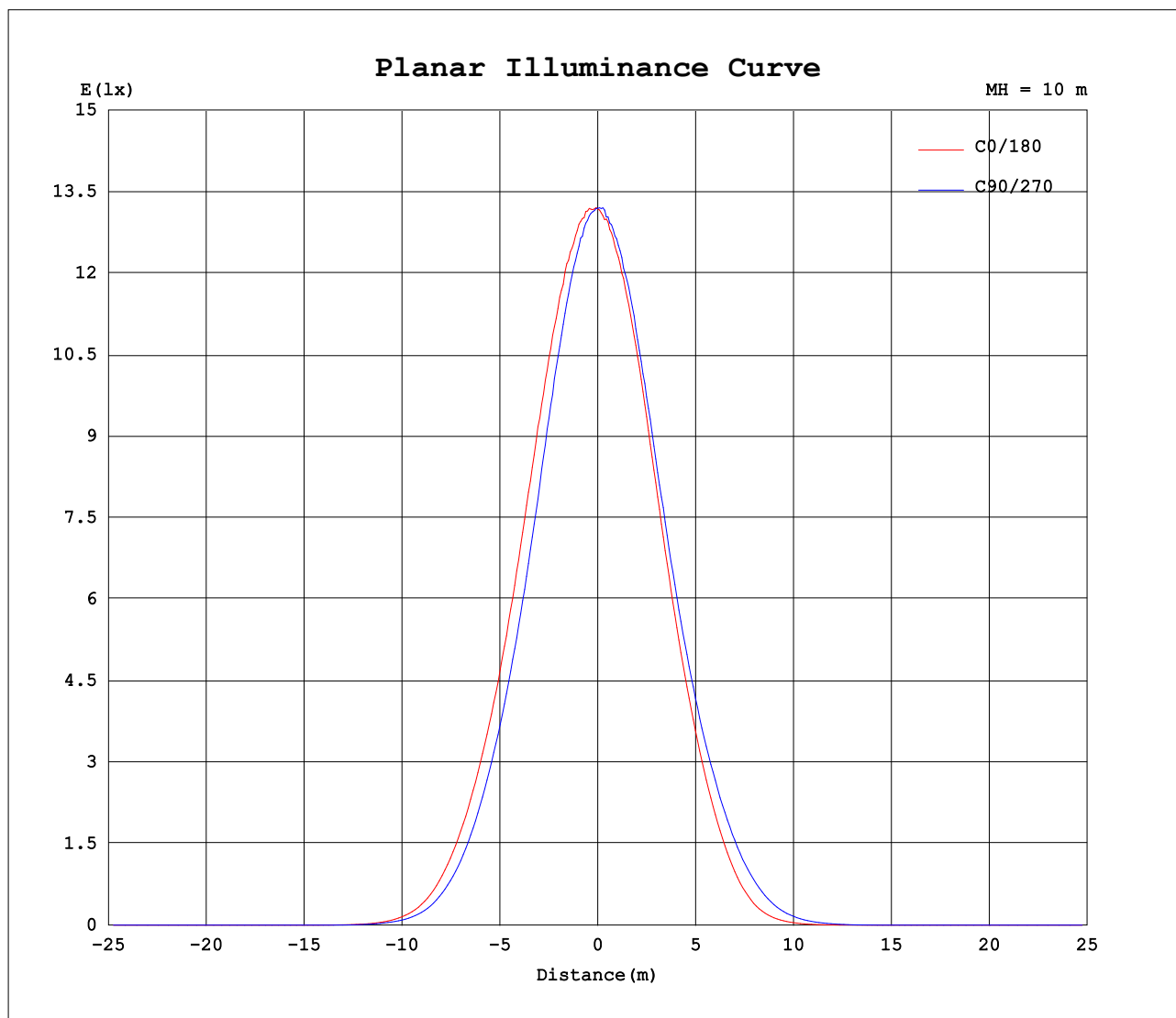
AvgL	cd/m2
L_0~180 (65) av	5
L_0~180 (75) av	0
L_0~180 (85) av	0
L_90~270 (65) av	3
L_90~270 (75) av	0
L_90~270 (85) av	0
L_45 (65) av	3
L_45 (75) av	0
L_45 (85) av	0

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Xie Bi
Test Date:2024-09-05

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:6.810m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Xie Bi
Test Date: 2024-09-05

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity: 65.0%
Test Distance: 6.810m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:232.29V I:0.0549A P:11.217W PF:0.8792 Freq:49.99Hz Lamp Flux:876.541x1 lm		
NAME: 2922LED	TYPE:	WEIGHT:
SPEC.:P-2922LED-2x5W3048-CI15031R90-YML100	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	1318	1319	1318	1319															
5	1310	1279	1263	1283															
10	1235	1158	1155	1191															
15	1113	981	982	1033															
20	931	774	775	835															
25	715	573	561	640															
30	513	387	361	455															
35	316	216	179	284															
40	143	90.2	57.7	137															
45	43.8	26.7	12.9	45.9															
50	7.90	4.83	1.65	9.70															
55	0.69	0.41	0.37	0.68															
60	0.21	0.11	0.12	0.20															
65	0.04	0.00	0.00	0.02															
70	0.00	0.00	0.00	0.00															
75	0.00	0.00	0.00	0.00															
80	0.00	0.00	0.00	0.00															
85	0.00	0.00	0.00	0.00															
90	0.00	0.00	0.00	0.00															
95	0.00	0.00	0.00	0.00															
100	0.00	0.00	0.00	0.00															
105	0.00	0.00	0.00	0.00															
110	0.00	0.00	0.00	0.00															
115	0.00	0.00	0.00	0.00															
120	0.00	0.05	0.01	0.00															
125	0.05	0.16	0.06	0.04															
130	0.18	0.34	0.16	0.12															
135	0.39	0.57	0.33	0.25															
140	0.66	0.88	0.56	0.44															
145	1.01	1.22	0.85	0.67															
150	1.38	1.58	1.16	0.95															
155	1.73	1.92	1.45	1.23															
160	2.05	2.23	1.73	1.54															
165	2.32	2.49	2.05	1.87															
170	2.55	2.68	2.34	2.23															
175	2.72	2.79	2.61	2.54															
180	2.81	2.79	2.81	2.79															

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Xie Bi
 Test Date:2024-09-05

γ Range: 0 - 180DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
 Humidity:65.0%
 Test Distance:6.810m [K=1.0000]
 Remarks: