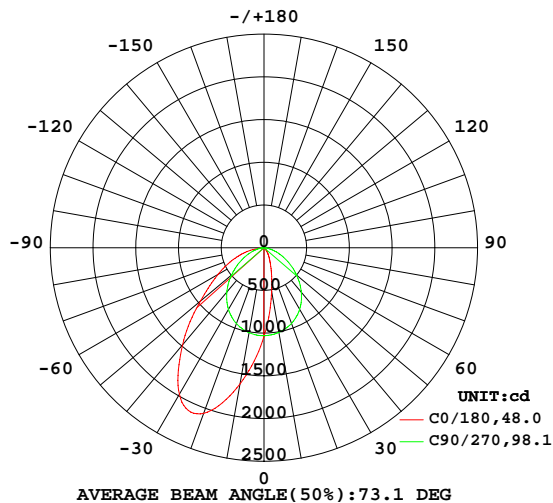


LUMINAIRE PHOTOMETRIC TEST REPORT

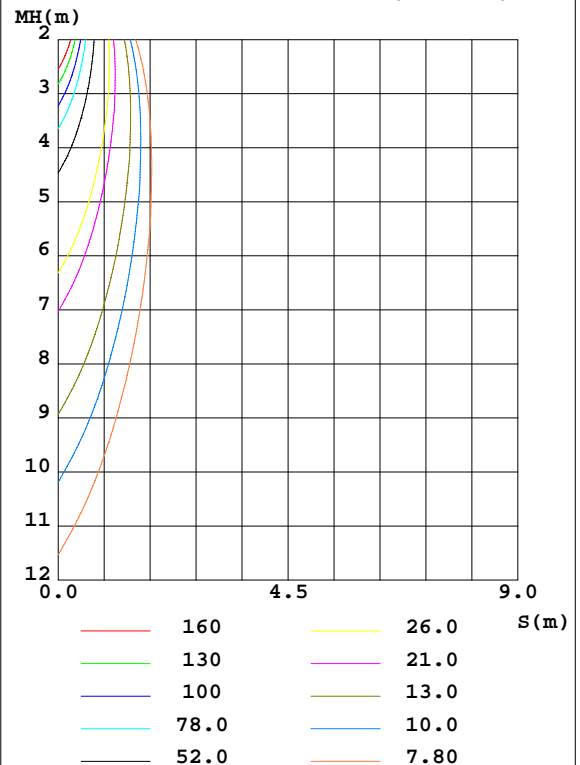
Test:U:229.70V I:0.1248A P:27.733W PF:0.9675 Freq:49.99Hz Lamp Flux:2674.56x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1205*40*80	SERIAL No.:
MFR.: MC009922013-01	SUR.:1.187*0.022	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 96.44 lm/W			
MODEL		Imax(cd)	2106	S/MH(C0/180)	0.33
NOMINAL POWER(W)	30	LOR(%)	100.0	S/MH(C90/270)	1.21
RATED VOLTAGE(V)	230.0	TOTAL FLUX(lm)	2674.6	η UP,DN(C0-180)	0.0,44.8
NOMINAL FLUX(lm)	2674.56	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,55.2
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	230.0	η down(%)	100.0	CIBSE SHR MAX	1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-06-010

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

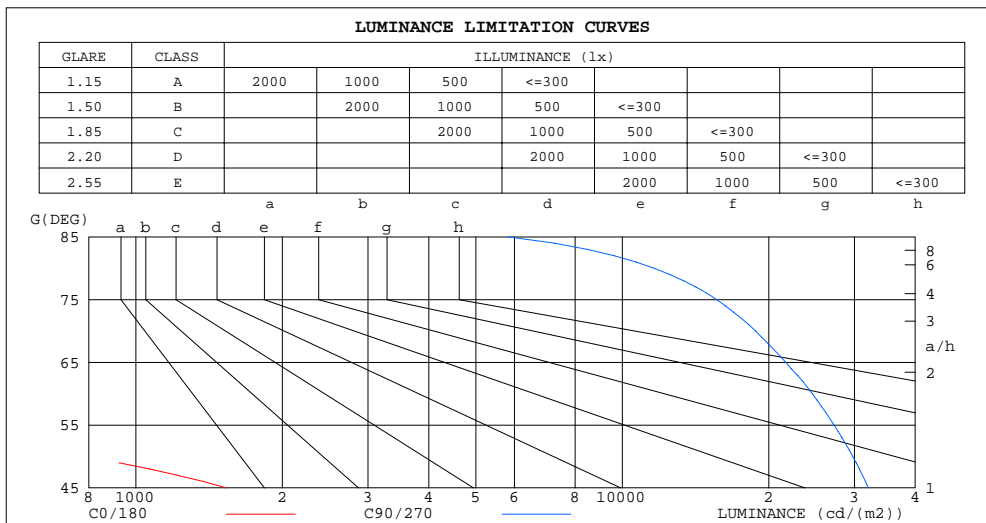
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	519.6	639.4	1006	1427	1617	1427	1010	647.4	0- 10	98.81	98.81	3.69,3.69
20	234.3	357.7	943.0	1747	2061	1728	944.7	365.8	10- 20	296.0	394.8	14.8,14.8
30	110.1	198.7	835.1	1844	1981	1786	832.9	206.8	20- 30	471.4	866.2	32.4,32.4
40	48.03	107.8	680.5	1571	1482	1498	677.4	113.5	30- 40	549.0	1415	52.9,52.9
50	13.07	48.96	499.3	1094	971.4	1043	495.0	52.37	40- 50	500.6	1916	71.6,71.6
60	0.4725	10.72	320.7	664.6	619.0	632.8	319.9	12.66	50- 60	376.5	2292	85.7,85.7
70	0.5120	0.9108	167.6	345.7	362.2	331.5	171.0	1.186	60- 70	241.3	2534	94.7,94.7
80	0.8502	1.082	52.65	126.0	138.0	122.2	56.59	1.779	70- 80	120.9	2654	99.2,99.2
90	1.649	1.804	1.297	0.4381	0.3436	0.4467	1.796	2.904	80- 90	20.10	2675	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		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-06-010

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
 Humidity:65.0%
 Test Distance:11.700m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:229.70V I:0.1248A P:27.733W PF:0.9675 Freq:49.99Hz Lamp Flux:2674.56x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1205*40*80	SERIAL No.:
MFR.: MC009922013-01	SUR.:1.187*0.022	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	528	5824
80	188	11616
75	86	15628
70	57	18780
65	44	21675
60	36	24576
55	131	27254
50	779	29760
45	1535	32052

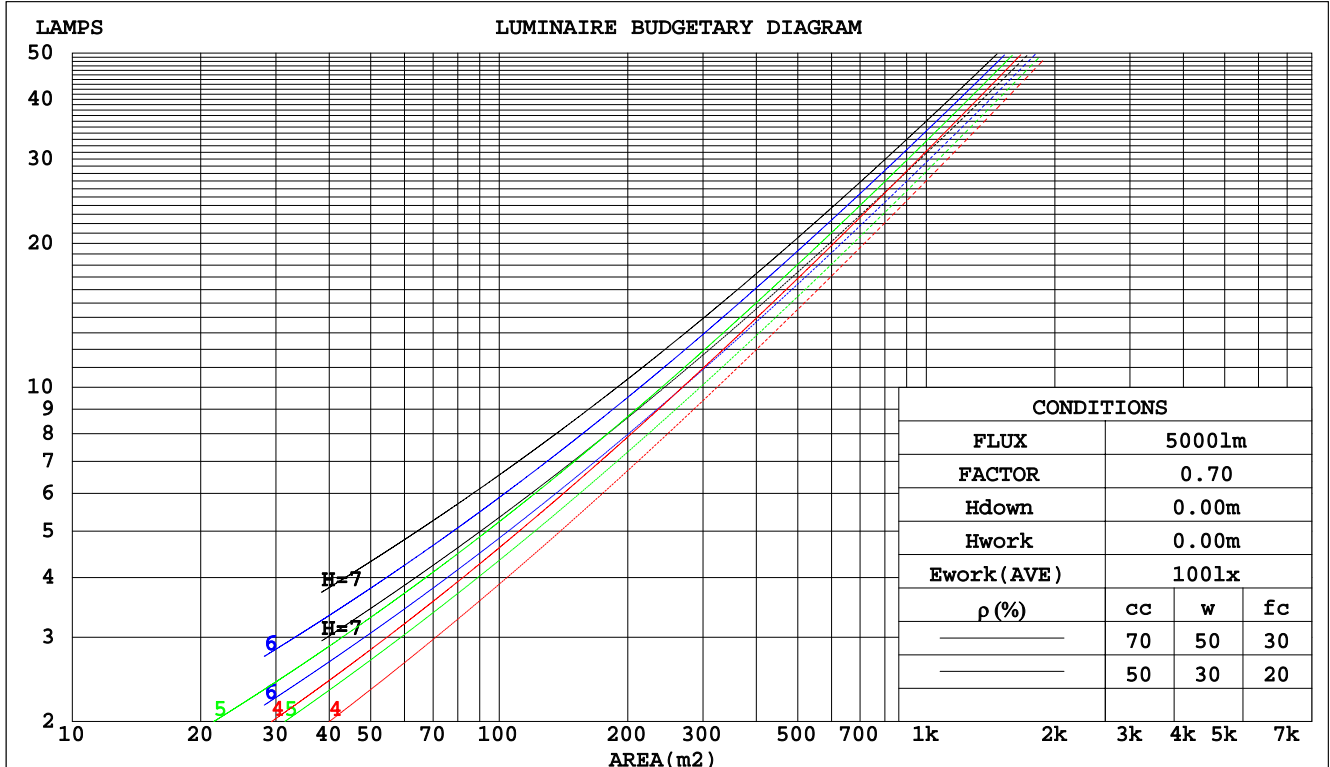
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-06-010

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:229.70V I:0.1248A P:27.733W PF:0.9675 Freq:49.99Hz Lamp Flux:2674.56x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1205*40*80	SERIAL No.:
MFR.: MC009922013-01	SUR.:1.187*0.022	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	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	1.06	1.02	.99	1.04	1.00	.97	.99	.97	.94	.95	.93	.91	.92	.90	.88	.86
2.0	.93	.87	.82	.92	.86	.81	.88	.83	.79	.85	.81	.77	.82	.79	.76	.74
3.0	.83	.75	.69	.81	.74	.69	.79	.73	.68	.76	.71	.67	.73	.69	.65	.63
4.0	.74	.66	.60	.73	.65	.59	.70	.64	.59	.68	.62	.58	.66	.61	.57	.55
5.0	.67	.58	.52	.66	.58	.52	.64	.57	.51	.62	.55	.51	.60	.54	.50	.48
6.0	.60	.52	.46	.59	.51	.46	.58	.51	.45	.56	.50	.45	.54	.49	.44	.42
7.0	.55	.47	.41	.54	.46	.41	.53	.45	.40	.51	.45	.40	.50	.44	.40	.38
8.0	.50	.42	.36	.50	.42	.36	.48	.41	.36	.47	.41	.36	.46	.40	.36	.34
9.0	.46	.38	.33	.46	.38	.33	.45	.38	.33	.43	.37	.33	.42	.37	.32	.31
10.0	.43	.35	.30	.42	.35	.30	.41	.34	.30	.40	.34	.30	.39	.34	.30	.28



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-06-010

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:229.70V I:0.1248A P:27.733W PF:0.9675 Freq:49.99Hz Lamp Flux:2674.56x1 lm					
NAME:		TYPE:		WEIGHT:	
SPEC.:		DIM.: 1205*40*80		SERIAL No.:	
MFR.: MC009922013-01		SUR.:1.187*0.022		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	.273	.155	.049	.266	.152	.048	.253	.145	.046	.241	.139	.045	.230	.133	.043	
2.0	.263	.144	.044	.257	.141	.044	.245	.136	.042	.235	.132	.041	.225	.127	.040	
3.0	.247	.131	.039	.241	.129	.039	.231	.125	.038	.222	.122	.037	.213	.118	.037	
4.0	.230	.120	.035	.226	.118	.035	.217	.115	.034	.209	.112	.034	.201	.109	.033	
5.0	.215	.110	.032	.211	.108	.032	.203	.106	.031	.196	.103	.031	.189	.101	.030	
6.0	.201	.101	.029	.197	.100	.029	.190	.098	.028	.184	.096	.028	.178	.094	.028	
7.0	.188	.093	.026	.185	.092	.026	.179	.090	.026	.173	.089	.026	.167	.087	.026	
8.0	.177	.087	.024	.174	.086	.024	.168	.084	.024	.163	.083	.024	.158	.081	.024	
9.0	.167	.081	.023	.164	.080	.022	.159	.079	.022	.154	.077	.022	.150	.076	.022	
10.0	.157	.075	.021	.155	.075	.021	.150	.074	.021	.146	.073	.021	.142	.071	.021	

pcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	.178	.156	.137	.152	.134	.118	.104	.092	.082	.060	.053	.048	.019	.017	.015	
2.0	.168	.132	.102	.144	.114	.088	.099	.079	.061	.057	.046	.036	.018	.015	.012	
3.0	.160	.114	.078	.137	.098	.067	.094	.068	.047	.054	.040	.028	.017	.013	.009	
4.0	.152	.101	.061	.131	.087	.053	.090	.061	.037	.052	.035	.022	.017	.012	.007	
5.0	.145	.090	.049	.124	.078	.043	.086	.054	.030	.050	.032	.018	.016	.010	.006	
6.0	.138	.081	.041	.119	.071	.036	.082	.049	.025	.047	.029	.015	.015	.010	.005	
7.0	.132	.075	.035	.113	.065	.030	.078	.045	.021	.045	.027	.013	.015	.009	.004	
8.0	.125	.069	.030	.108	.060	.026	.075	.042	.018	.043	.025	.011	.014	.008	.004	
9.0	.120	.064	.026	.103	.055	.023	.071	.039	.016	.042	.023	.010	.013	.008	.003	
10.0	.114	.060	.023	.099	.052	.020	.068	.036	.014	.040	.022	.009	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-06-010

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:229.70V I:0.1248A P:27.733W PF:0.9675 Freq:49.99Hz Lamp Flux:2674.56x1 lm											
NAME:					TYPE:			WEIGHT:			
SPEC.:					DIM.: 1205*40*80			SERIAL No.:			
MFR.: MC009922013-01					SUR.:1.187*0.022			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	3H	3.9	5.3	4.2	5.5	5.7	19.5	20.9	19.8	21.1	21.3
	4H	3.7	5.0	4.0	5.2	5.5	20.9	22.2	21.2	22.4	22.6
	6H	3.6	4.9	3.9	5.1	5.4	21.4	22.6	21.7	22.9	23.1
	8H	3.5	4.7	3.9	5.0	5.2	21.7	22.9	22.0	23.2	23.4
	8H	3.5	4.6	3.8	4.9	5.2	21.8	22.9	22.1	23.2	23.5
	12H	3.5	4.6	3.9	4.9	5.2	21.8	22.9	22.2	23.2	23.5
4H	2H	5.4	6.6	5.7	6.8	7.1	19.2	20.4	19.5	20.7	20.9
	3H	5.2	6.2	5.5	6.5	6.8	20.6	21.6	20.9	21.9	22.2
	4H	5.1	6.0	5.4	6.4	6.7	21.1	22.1	21.5	22.4	22.7
	6H	5.0	5.9	5.4	6.2	6.6	21.5	22.4	21.9	22.7	23.1
	8H	5.0	5.8	5.4	6.2	6.5	21.6	22.4	22.0	22.8	23.2
	12H	5.0	5.8	5.4	6.1	6.5	21.7	22.4	22.1	22.8	23.2
8H	4H	5.2	6.0	5.6	6.3	6.7	21.0	21.8	21.4	22.1	22.5
	6H	5.1	5.8	5.6	6.2	6.6	21.4	22.0	21.8	22.4	22.9
	8H	5.1	5.7	5.6	6.1	6.6	21.5	22.1	21.9	22.5	22.9
	12H	5.2	5.7	5.7	6.2	6.6	21.5	22.0	22.0	22.5	23.0
12H	4H	5.1	5.9	5.6	6.3	6.7	20.9	21.6	21.3	22.0	22.4
	6H	5.1	5.7	5.6	6.1	6.6	21.3	21.9	21.8	22.3	22.8
	8H	5.1	5.6	5.6	6.1	6.6	21.5	22.0	21.9	22.4	22.9
Variations with the observer position at spacings:											
S = 1.0H	+ 2.4 / - 8.3					+ 1.6 / - 1.3					
1.5H	+ 2.4 / - 5.0					+ 2.8 / - 3.5					
2.0H	+ 3.9 / - 7.1					+ 4.0 / - 6.0					

CIE Pub.117, 2675 lm Total Lamp Luminous Flux Corrected ($8\log(F/F_0) = 3.4$)

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-06-010

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

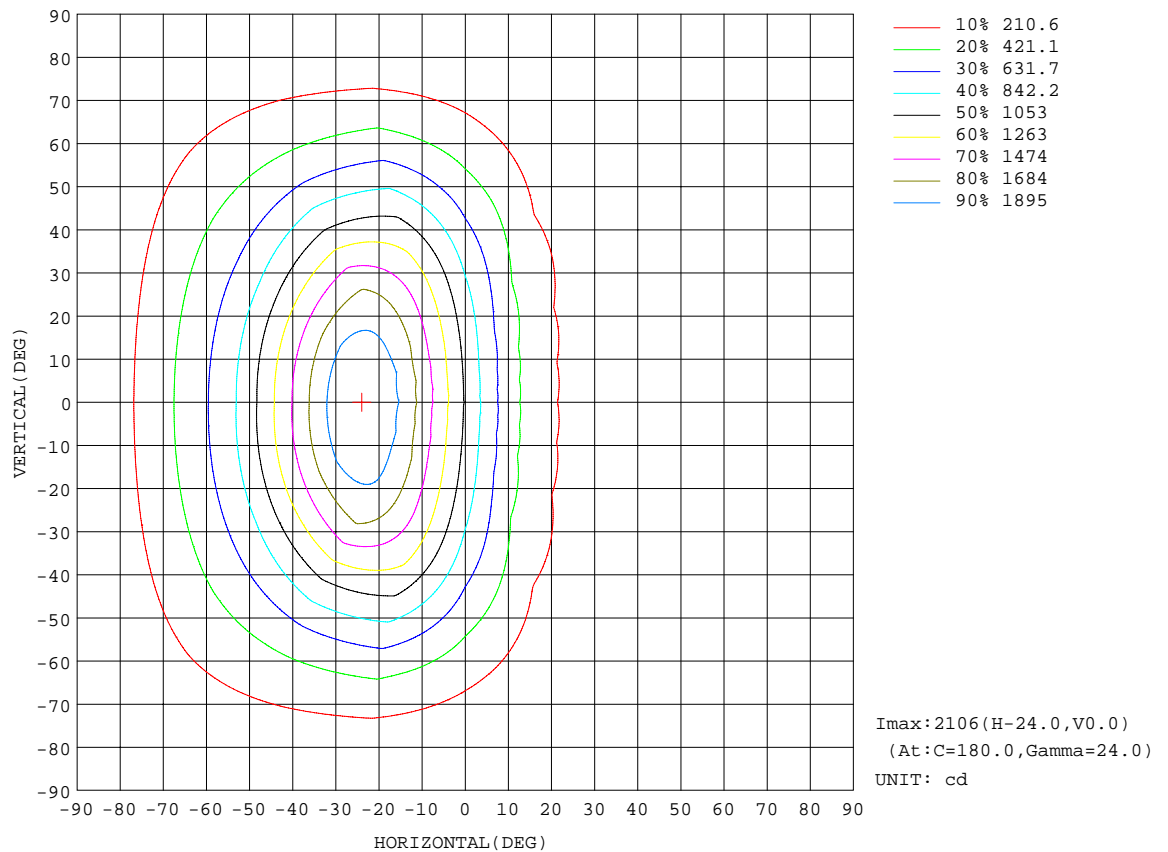
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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

```

ISOCANDELA DIAGRAM

Test:U:229.70V I:0.1248A P:27.733W PF:0.9675 Freq:49.99Hz Lamp Flux:2674.56x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1205*40*80	SERIAL No.:
MFR.: MC009922013-01	SUR.:1.187*0.022	Shielding Angle:

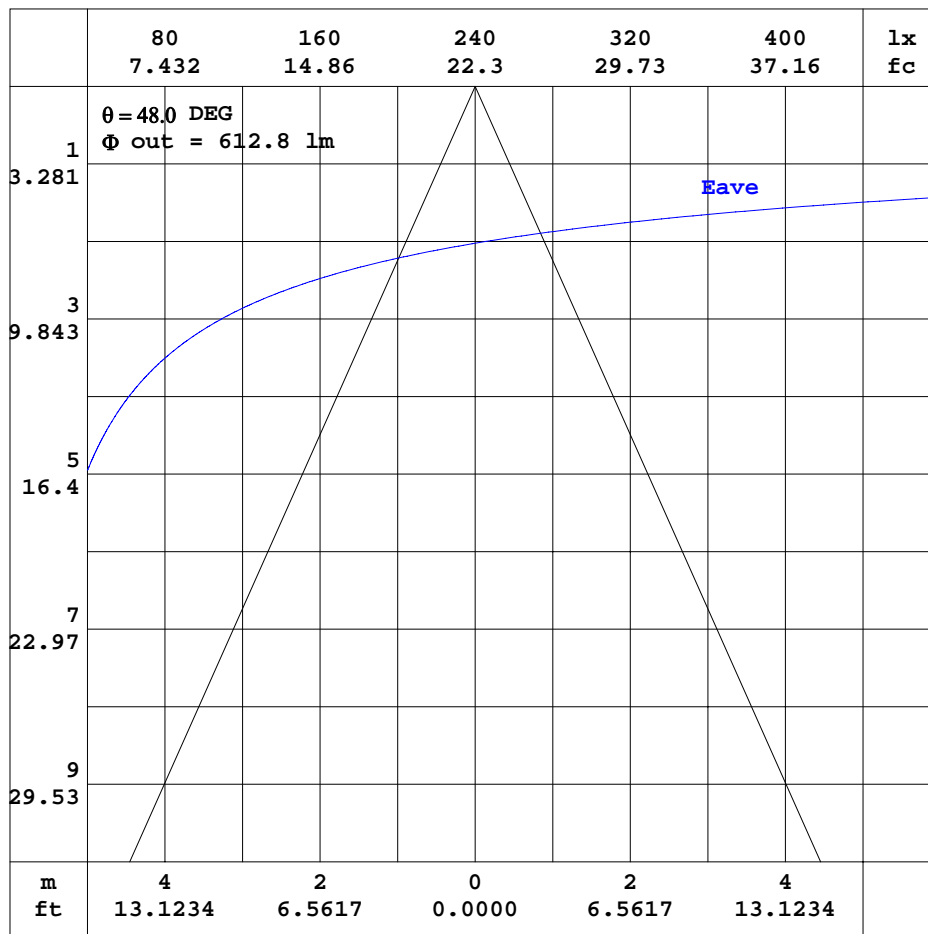


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-06-010

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

AAI CURVES

Test:U:229.70V I:0.1248A P:27.733W PF:0.9675 Freq:49.99Hz Lamp Flux:2674.56x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1205*40*80	SERIAL No.:
MFR.: MC009922013-01	SUR.:1.187*0.022	Shielding Angle:



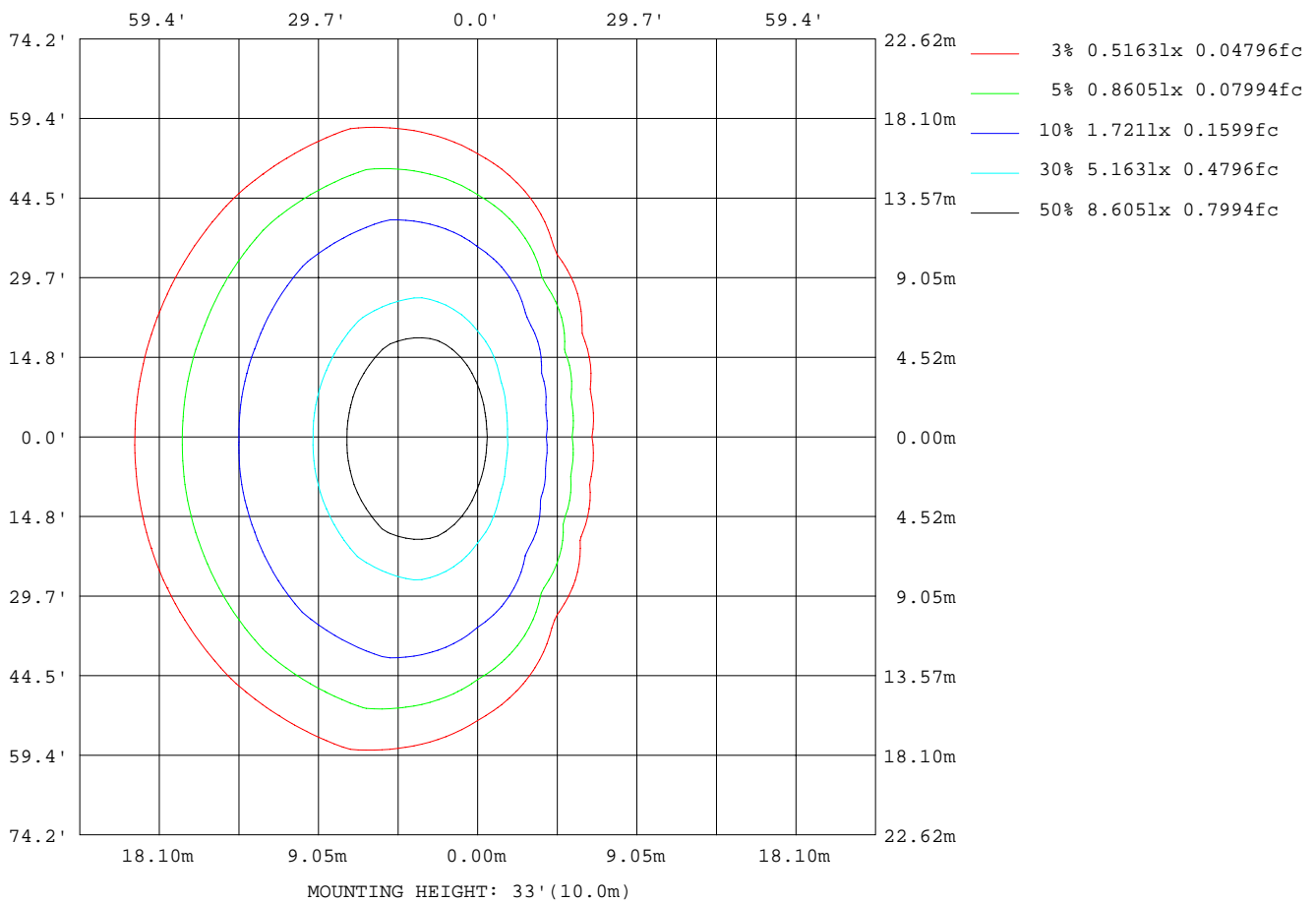
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-06-010

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:229.70V I:0.1248A P:27.733W PF:0.9675 Freq:49.99Hz Lamp Flux:2674.56x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1205*40*80	SERIAL No.:
MFR.: MC009922013-01	SUR.:1.187*0.022	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-06-010

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 γ Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:229.70V I:0.1248A P:27.733W PF:0.9675 Freq:49.99Hz Lamp Flux:2674.56x1 lm		
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.: 1205*40*80	SERIAL No.:
MFR.: MC009922013-01	SUR.:1.187*0.022	Shielding Angle:

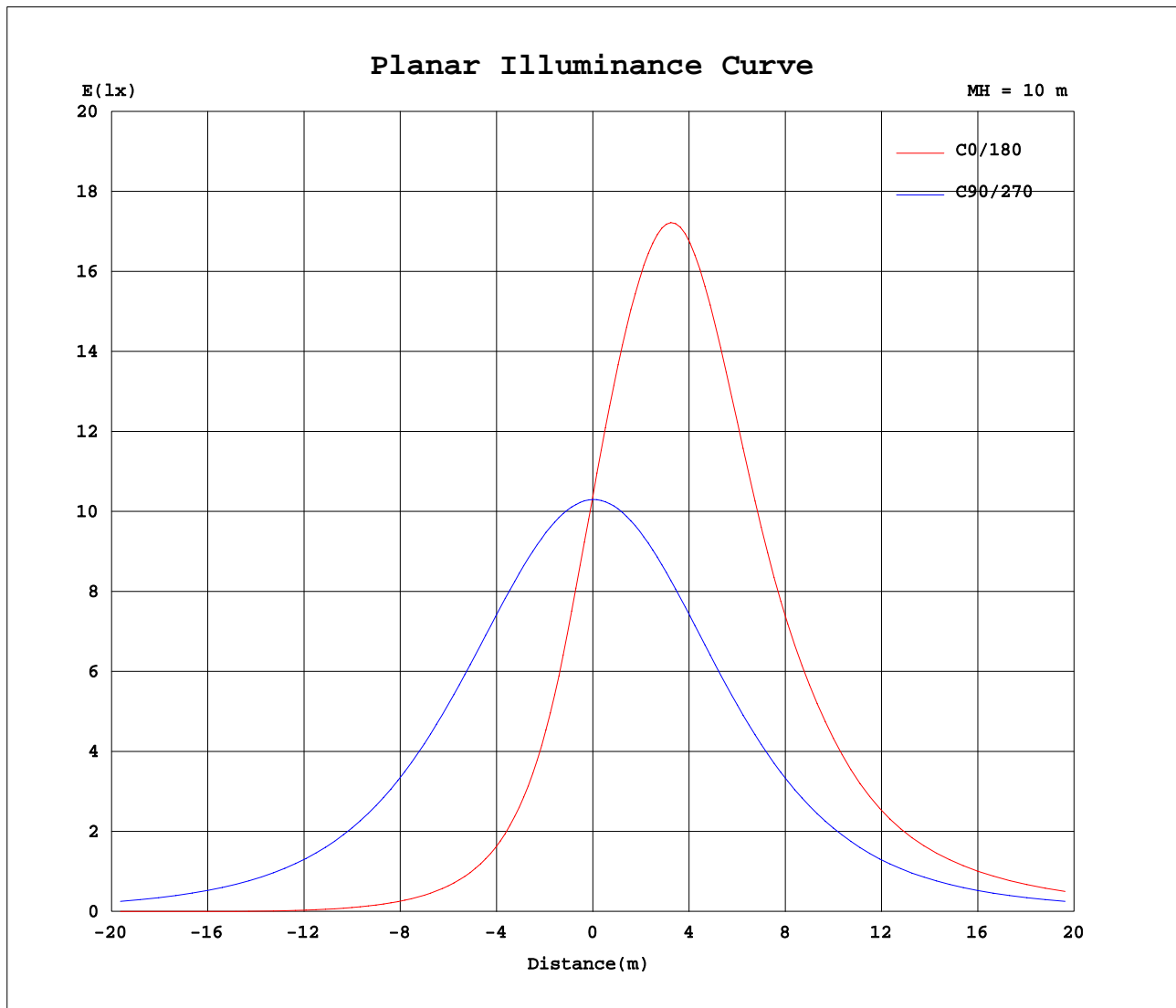
AvgL	cd/m2
L_0~180(65)av	21949
L_0~180(75)av	18518
L_0~180(85)av	713
L_90~270(65)av	21771
L_90~270(75)av	15911
L_90~270(85)av	6459
L_45(65)av	21541
L_45(75)av	16749
L_45(85)av	4097

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-06-010

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2022-06-010

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity: 65.0%
Test Distance: 11.700m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.406.10
Humidity:65.0%
Test Distance:11.700m [K=1.0000]
Remarks:

```