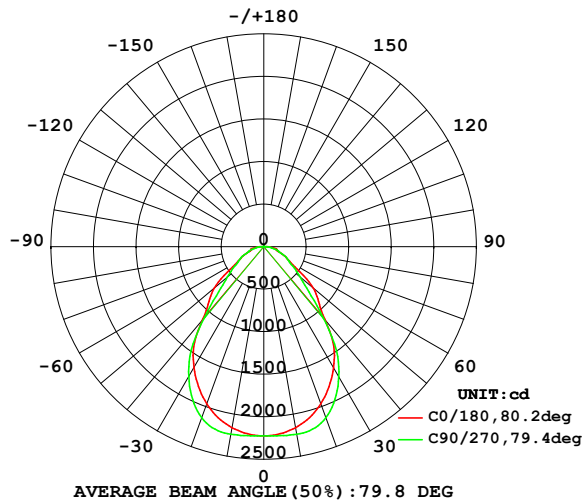


LUMINAIRE PHOTOMETRIC TEST REPORT

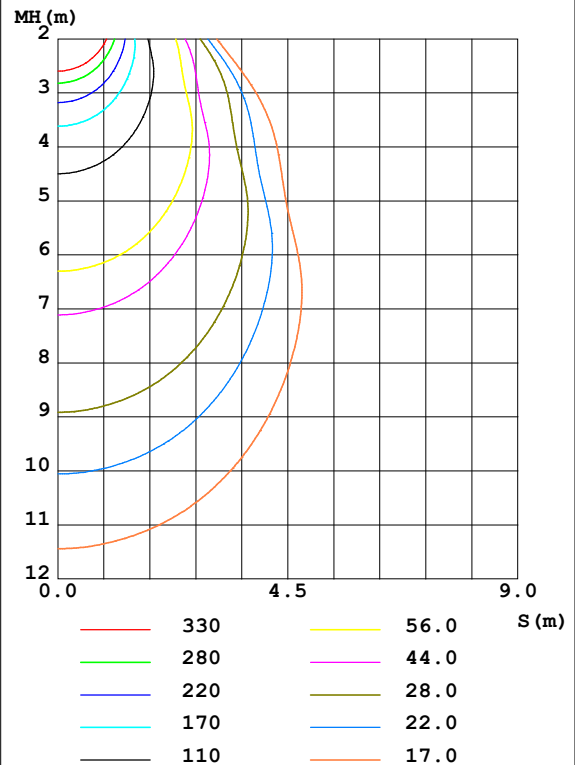
Test:U:222.4V I:0.1521A P:33.98W PF:0.9634 Lamp Flux:4181.91x1 lm		
NAME: 6060M-120LM/W- (3000K-6000K)-UGR	TYPE:LED	WEIGHT:
SPEC.:6060M-120LM/W- (3000K-6000K)-UGR	DIM.: 595*595	SERIAL No.:
MFR.: JT	SUR.:0.595*0.595	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 123.06 lm/W			
MODEL	PL-6060-36D	I _{max} (cd)	2239	S/MH (C0/180)	1.12
NOMINAL POWER(W)	36	LOR(%)	100.0	S/MH (C90/270)	1.14
RATED VOLTAGE(V)	220-240	TOTAL FLUX(lm)	4181.9	η UP,DN (C0-180)	0.0,50.0
NOMINAL FLUX(lm)	4181.91	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,50.0
LAMPS INSIDE	1	η up (%)	0.1	CIBSE SHR NOM	1.00
TEST VOLTAGE (V)	220	η down (%)	99.9	CIBSE SHR MAX	1.15

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:
Test Date:2023-11-08

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.560m [K=0.9802]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	2161	2239	2161	2239					0- 10	211.2	211.2	5.05,5.05
20	1965	2139	1965	2139					10- 20	605.0	816.2	19.5,19.5
30	1643	1766	1643	1766					20- 30	870.7	1687	40.3,40.3
40	1119	1087	1119	1087					30- 40	896.7	2584	61.8,61.8
50	763.5	560.5	763.5	560.5					40- 50	653.6	3237	77.4,77.4
60	353.3	343.8	353.3	343.8					50- 60	436.3	3674	87.8,87.8
70	196.7	200.1	196.7	200.1					60- 70	275.4	3949	94.4,94.4
80	144.1	98.38	144.1	98.38					70- 80	167.2	4116	98.4,98.4
90	0.0454	0	0.0454	0					80- 90	62.23	4178	99.9,99.9
100	0	0	0	0					90-100	0.0012	4178	99.9,99.9
110	0	0	0	0					100-110	0	4178	99.9,99.9
120	0.0594	0.1119	0.0594	0.1119					110-120	0.0095	4178	99.9,99.9
130	0.5001	0.6249	0.5001	0.6249					120-130	0.2815	4179	99.9,99.9
140	0.9751	1.130	0.9751	1.130					130-140	0.6197	4179	99.9,99.9
150	1.511	1.636	1.511	1.636					140-150	0.8175	4180	100,100
160	2.118	2.166	2.118	2.166					150-160	0.8496	4181	100,100
170	2.572	2.593	2.572	2.593					160-170	0.6674	4182	100,100
180	2.790	2.786	2.790	2.786					170-180	0.2558	4182	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

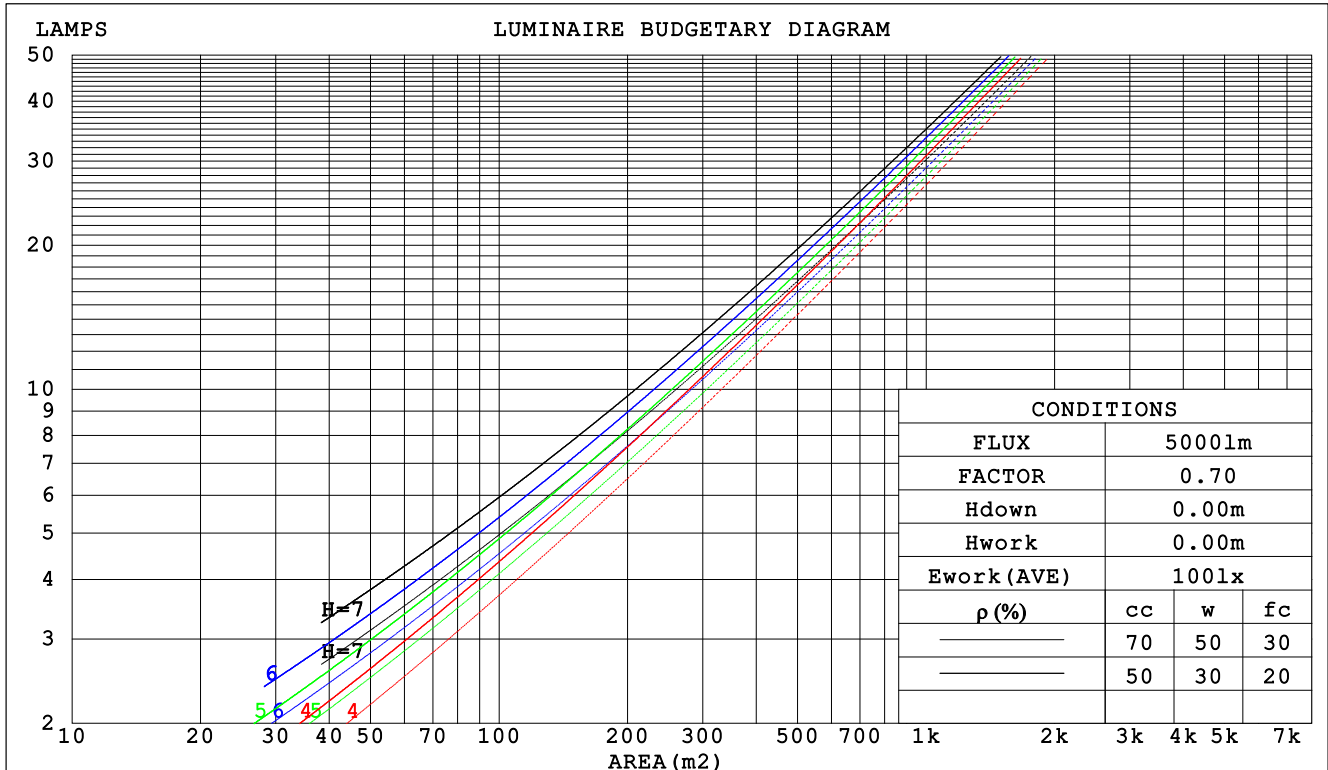
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-11-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:7.560m [K=0.9802]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:222.4V I:0.1521A P:33.98W PF:0.9634 Lamp Flux:4181.91x1 lm		
NAME: 6060M-120LM/W-(3000K-6000K)-UGR	TYPE:LED	WEIGHT:
SPEC.:6060M-120LM/W-(3000K-6000K)-UGR	DIM.: 595*595	SERIAL No.:
MFR.: JT	SUR.:0.595*0.595	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)															
RCR:Room Cavity Ratio																
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	1.06	1.03	.99	1.04	1.01	.98	.90	.97	.95	.96	.94	.92	.92	.91	.89	.87
2.0	.95	.89	.84	.93	.88	.83	.90	.85	.81	.87	.83	.80	.84	.81	.78	.76
3.0	.85	.78	.73	.84	.77	.72	.81	.75	.71	.78	.74	.70	.76	.72	.69	.67
4.0	.77	.70	.64	.76	.69	.63	.74	.67	.62	.71	.66	.62	.69	.65	.61	.59
5.0	.70	.62	.56	.69	.62	.56	.67	.61	.56	.65	.59	.55	.63	.58	.54	.53
6.0	.64	.56	.50	.63	.56	.50	.62	.55	.50	.60	.54	.49	.58	.53	.49	.47
7.0	.59	.51	.46	.58	.51	.45	.57	.50	.45	.55	.49	.45	.54	.49	.44	.43
8.0	.54	.47	.41	.54	.46	.41	.52	.46	.41	.51	.45	.41	.50	.45	.41	.39
9.0	.50	.43	.38	.50	.43	.38	.49	.42	.38	.48	.42	.37	.47	.41	.37	.35
10.0	.47	.40	.35	.46	.39	.35	.45	.39	.35	.44	.39	.34	.44	.38	.34	.33



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-11-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.560m [K=0.9802]
Remarks:

WEC AND CCEC

Test:U:222.4V I:0.1521A P:33.98W PF:0.9634 Lamp Flux:4181.91x1 lm		
NAME: 6060M-120LM/W-(3000K-6000K)-UGR	TYPE:LED	WEIGHT:
SPEC.:6060M-120LM/W-(3000K-6000K)-UGR	DIM.: 595*595	SERIAL No.:
MFR.: JT	SUR.:0.595*0.595	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	.262	.149	.047	.255	.146	.046	.242	.139	.044	.230	.133	.043	.219	.127	.041		
2.0	.247	.136	.042	.241	.133	.041	.230	.128	.040	.219	.123	.039	.210	.119	.037		
3.0	.231	.123	.037	.226	.121	.036	.216	.117	.036	.207	.113	.035	.198	.110	.034		
4.0	.216	.112	.033	.211	.110	.033	.202	.107	.032	.194	.104	.031	.187	.101	.031		
5.0	.202	.103	.030	.197	.101	.030	.190	.099	.029	.183	.096	.029	.176	.094	.028		
6.0	.189	.095	.027	.185	.094	.027	.178	.091	.027	.172	.089	.026	.166	.087	.026		
7.0	.177	.088	.025	.174	.087	.025	.168	.085	.024	.162	.083	.024	.157	.082	.024		
8.0	.167	.082	.023	.164	.081	.023	.159	.079	.023	.154	.078	.022	.149	.076	.022		
9.0	.158	.076	.021	.155	.076	.021	.150	.074	.021	.146	.073	.021	.141	.072	.021		
10.0	.149	.072	.020	.147	.071	.020	.143	.070	.020	.138	.069	.020	.134	.068	.019		

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	.191	.191	.191	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.178	.157	.139	.152	.135	.119	.104	.093	.083	.060	.054	.048	.019	.017	.016	
2.0	.167	.133	.104	.143	.114	.090	.098	.079	.063	.057	.046	.037	.018	.015	.012	
3.0	.158	.115	.080	.135	.099	.070	.093	.069	.049	.054	.040	.029	.017	.013	.009	
4.0	.149	.101	.064	.128	.087	.056	.088	.061	.039	.051	.036	.023	.016	.012	.008	
5.0	.142	.090	.052	.122	.078	.045	.084	.054	.032	.049	.032	.019	.016	.010	.006	
6.0	.135	.081	.043	.116	.071	.038	.080	.049	.027	.046	.029	.016	.015	.009	.005	
7.0	.128	.074	.037	.110	.064	.032	.076	.045	.023	.044	.027	.014	.014	.009	.004	
8.0	.122	.068	.032	.105	.059	.028	.073	.042	.020	.042	.025	.012	.014	.008	.004	
9.0	.116	.063	.028	.100	.055	.024	.069	.039	.017	.040	.023	.010	.013	.008	.003	
10.0	.111	.059	.025	.096	.051	.021	.066	.036	.015	.039	.021	.009	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-11-08

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.560m [K=0.9802]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:222.4V I:0.1521A P:33.98W PF:0.9634 Lamp Flux:4181.91x1 lm										
NAME: 6060M-120LM/W- (3000K-6000K)-UGR					TYPE:LED			WEIGHT:		
SPEC.:6060M-120LM/W- (3000K-6000K)-UGR					DIM.: 595*595			SERIAL No.:		
MFR.: JT					SUR.:0.595*0.595			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	15.1	16.5	15.4	16.7	16.8	14.7	16.0	15.0	16.2	16.4
3H	15.9	17.2	16.2	17.4	17.6	15.6	16.9	15.9	17.1	17.3
4H	16.3	17.5	16.7	17.7	18.0	16.2	17.3	16.5	17.6	17.8
6H	17.0	18.1	17.3	18.3	18.6	16.5	17.6	16.9	17.9	18.2
8H	17.3	18.3	17.6	18.6	18.9	16.7	17.8	17.0	18.0	18.3
12H	17.5	18.5	17.8	18.8	19.1	16.8	17.8	17.2	18.1	18.4
4H 2H	15.4	16.6	15.7	16.8	17.1	15.1	16.2	15.4	16.5	16.7
3H	16.4	17.4	16.8	17.7	18.0	16.2	17.2	16.6	17.5	17.8
4H	17.0	17.9	17.4	18.2	18.6	16.9	17.8	17.3	18.1	18.4
6H	17.9	18.7	18.3	19.0	19.4	17.4	18.3	17.8	18.6	19.0
8H	18.2	19.0	18.7	19.4	19.7	17.7	18.4	18.1	18.8	19.2
12H	18.5	19.2	18.9	19.6	20.0	17.9	18.6	18.3	18.9	19.3
8H 4H	17.2	18.0	17.7	18.4	18.7	17.1	17.9	17.5	18.3	18.6
6H	18.3	19.0	18.8	19.4	19.8	17.9	18.5	18.3	18.9	19.3
8H	18.8	19.4	19.3	19.8	20.2	18.2	18.8	18.7	19.2	19.7
12H	19.2	19.7	19.7	20.1	20.6	18.5	19.0	19.0	19.5	19.9
12H 4H	17.3	18.0	17.7	18.3	18.7	17.2	17.9	17.6	18.3	18.7
6H	18.4	19.0	18.9	19.4	19.8	18.0	18.6	18.5	19.0	19.4
8H	19.0	19.4	19.4	19.9	20.4	18.4	18.9	18.9	19.3	19.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.4					+ 0.4 / - 0.5				
1.5H	+ 0.2 / - 0.2					+ 0.4 / - 0.4				
2.0H	+ 0.7 / - 0.6					+ 0.4 / - 0.5				

CIE Pub.117 Corrected 4182 lm Total Lamp Luminous Flux.(8log(F/F0) = 5.0)

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-11-08

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.560m [K=0.9802]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:222.4V I:0.1521A P:33.98W PF:0.9634 Lamp Flux:4181.91x1 lm		
NAME: 6060M-120LM/W- (3000K-6000K)-UGR	TYPE:LED	WEIGHT:
SPEC.:6060M-120LM/W- (3000K-6000K)-UGR	DIM.: 595*595	SERIAL No.:
MFR.: JT	SUR.:0.595*0.595	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	58	52	67	58	52	66	57	52	46
0.80	77	68	62	76	67	61	75	67	61	55
1.00	85	75	69	83	75	69	81	76	69	63
1.25	91	82	76	89	81	76	87	80	75	69
1.50	95	87	81	93	86	81	91	84	80	73
2.00	100	93	88	98	92	87	95	90	86	79
2.50	103	97	92	101	96	91	98	93	89	82
3.00	106	100	96	104	99	95	100	96	92	85
4.00	109	104	101	107	103	99	103	99	96	88
5.00	111	107	104	109	105	102	104	101	99	90
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:
Test Date:2023-11-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.560m [K=0.9802]
Remarks:

ISOCANDELA DIAGRAM

Test:U:222.4V I:0.1521A P:33.98W PF:0.9634 Lamp Flux:4181.91x1 lm		
NAME: 6060M-120LM/W- (3000K-6000K)-UGR	TYPE:LED	WEIGHT:
SPEC.:6060M-120LM/W- (3000K-6000K)-UGR	DIM.: 595*595	SERIAL No.:
MFR.: JT	SUR.:0.595*0.595	Shielding Angle:

Conical surface Flux(90deg):

2936.9 lm

%lum = 70.2%

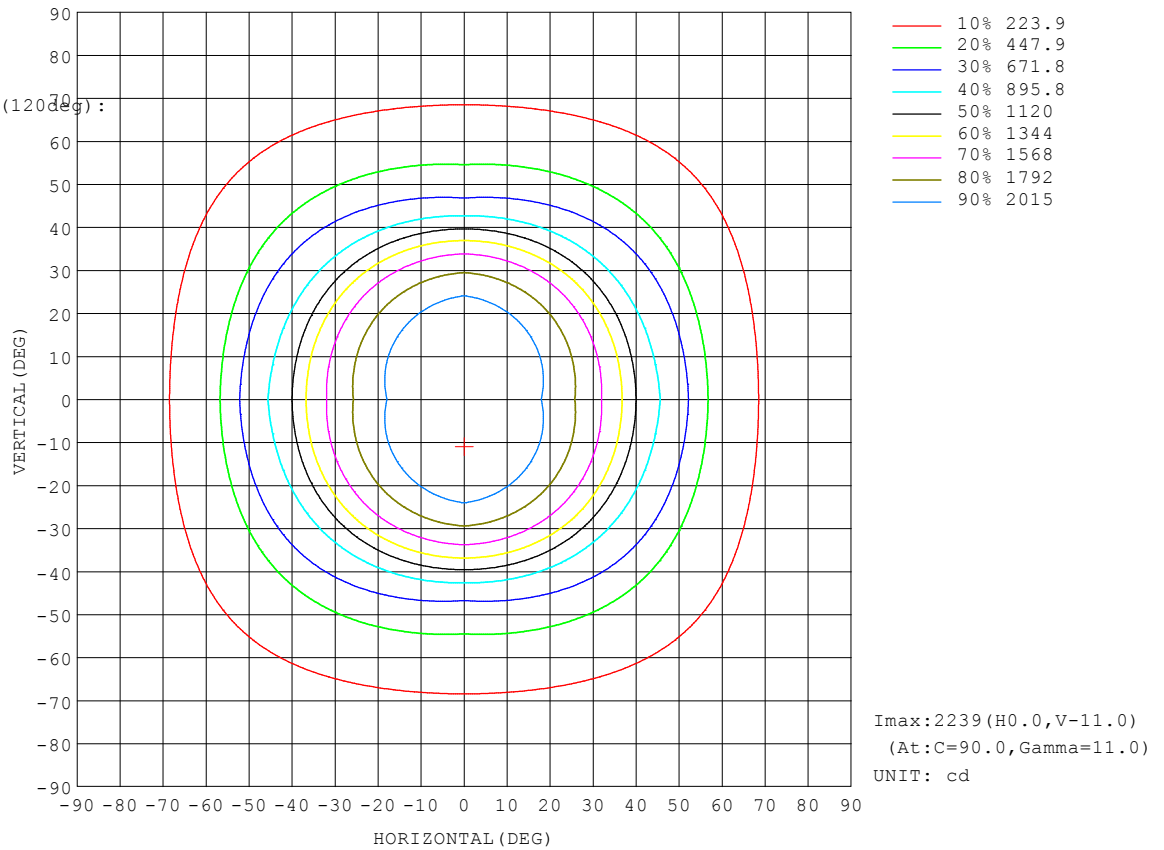
%lamp = 70.2%

Conical surface Flux(120deg):

3673.6 lm

%lum = 87.8%

%lamp = 87.8%

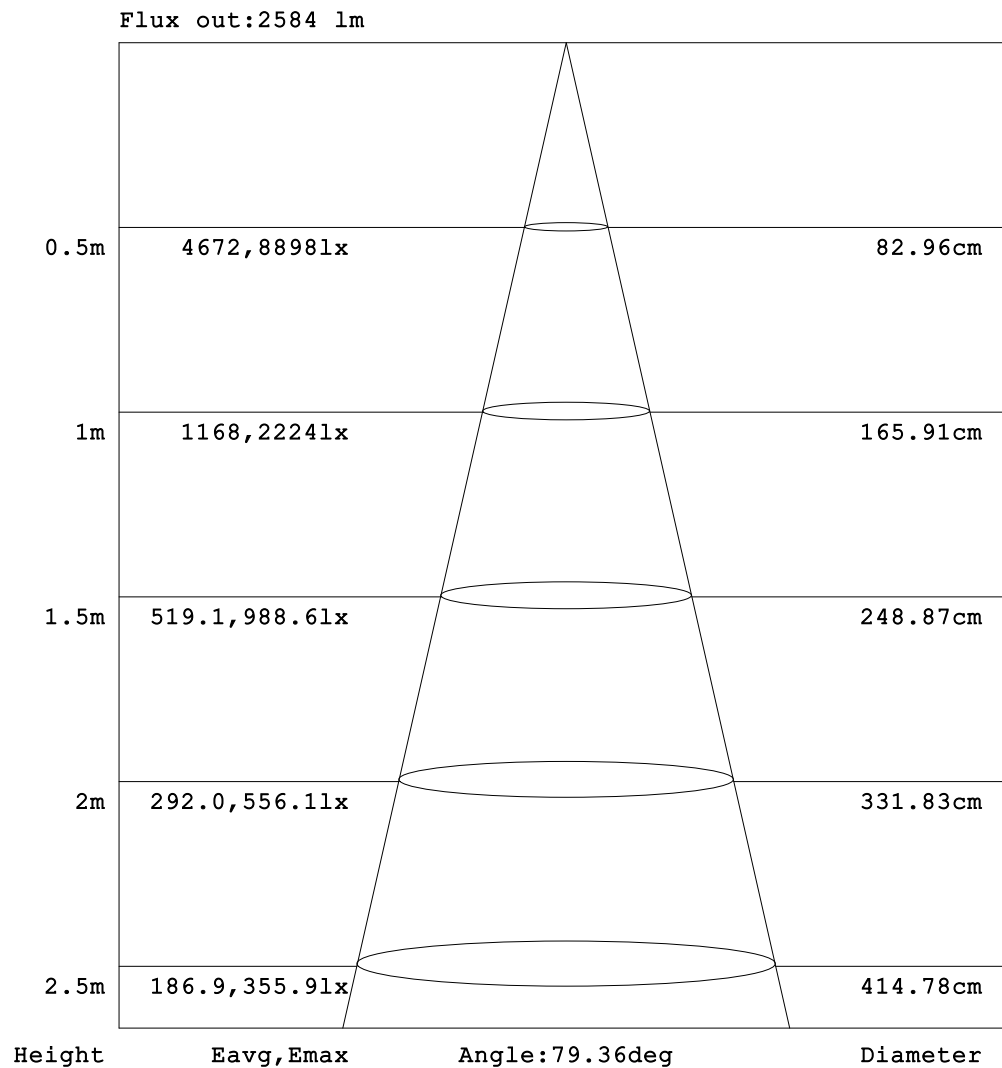


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-11-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.560m [K=0.9802]
Remarks:

AAI Figure

Test:U:222.4V I:0.1521A P:33.98W PF:0.9634 Lamp Flux:4181.91x1 lm		
NAME: 6060M-120LM/W- (3000K-6000K)-UGR	TYPE:LED	WEIGHT:
SPEC.:6060M-120LM/W- (3000K-6000K)-UGR	DIM.: 595*595	SERIAL No.:
MFR.: JT	SUR.:0.595*0.595	Shielding Angle:



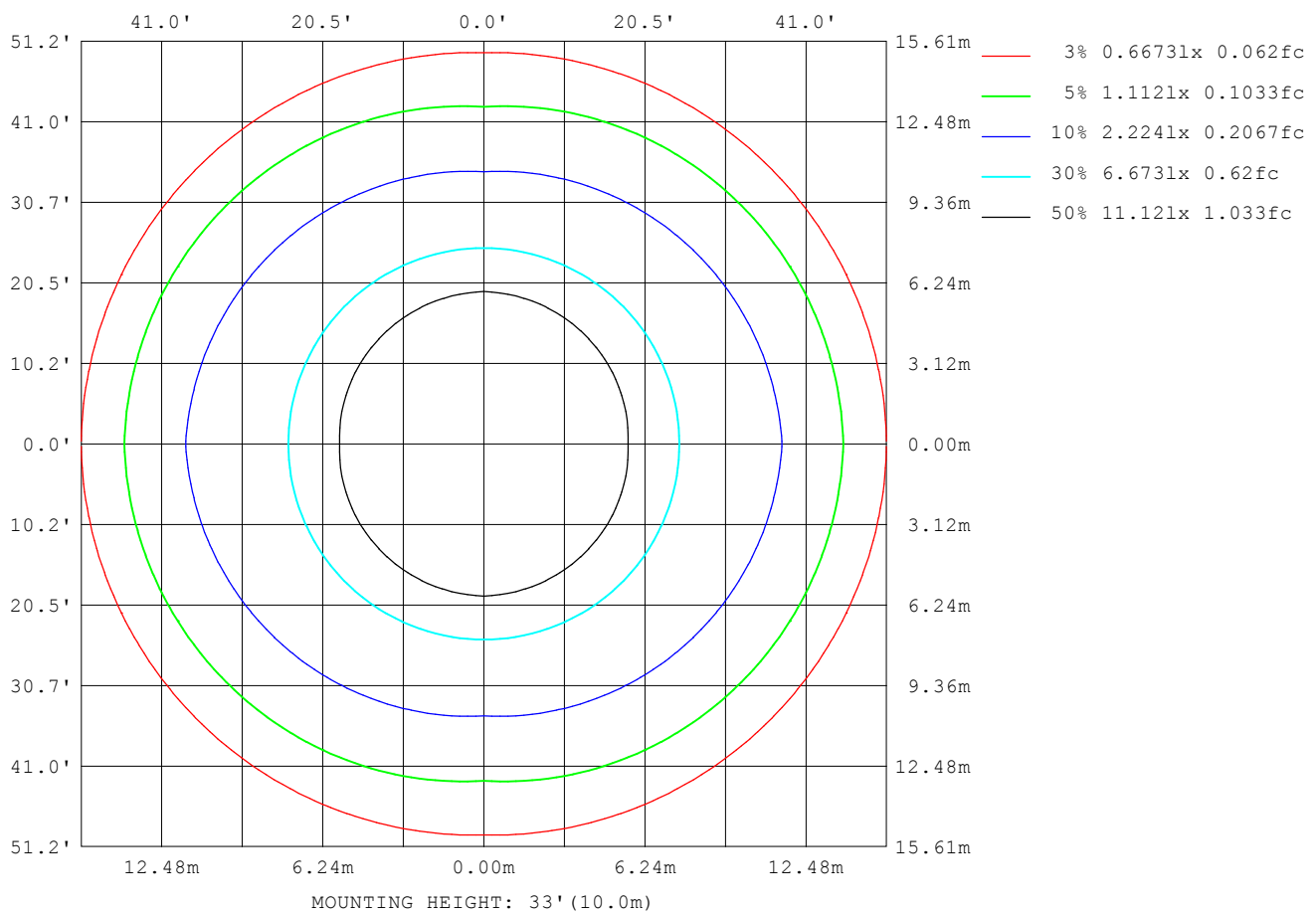
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-11-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
 Humidity:65.0%
 Test Distance:7.560m [K=0.9802]
 Remarks:

ISOLUX DIAGRAM

Test:U:222.4V I:0.1521A P:33.98W PF:0.9634 Lamp Flux:4181.91x1 lm		
NAME: 6060M-120LM/W- (3000K-6000K)-UGR	TYPE:LED	WEIGHT:
SPEC.: 6060M-120LM/W- (3000K-6000K)-UGR	DIM.: 595*595	SERIAL No.:
MFR.: JT	SUR.:0.595*0.595	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-11-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.560m [K=0.9802]
Remarks:

LED Avg.L Report

Test:U:222.4V I:0.1521A P:33.98W PF:0.9634 Lamp Flux:4181.91x1 lm		
NAME: 6060M-120LM/W- (3000K-6000K)-UGR	TYPE:LED	WEIGHT:
SPEC.:6060M-120LM/W- (3000K-6000K)-UGR	DIM.: 595*595	SERIAL No.:
MFR.: JT	SUR.:0.595*0.595	Shielding Angle:

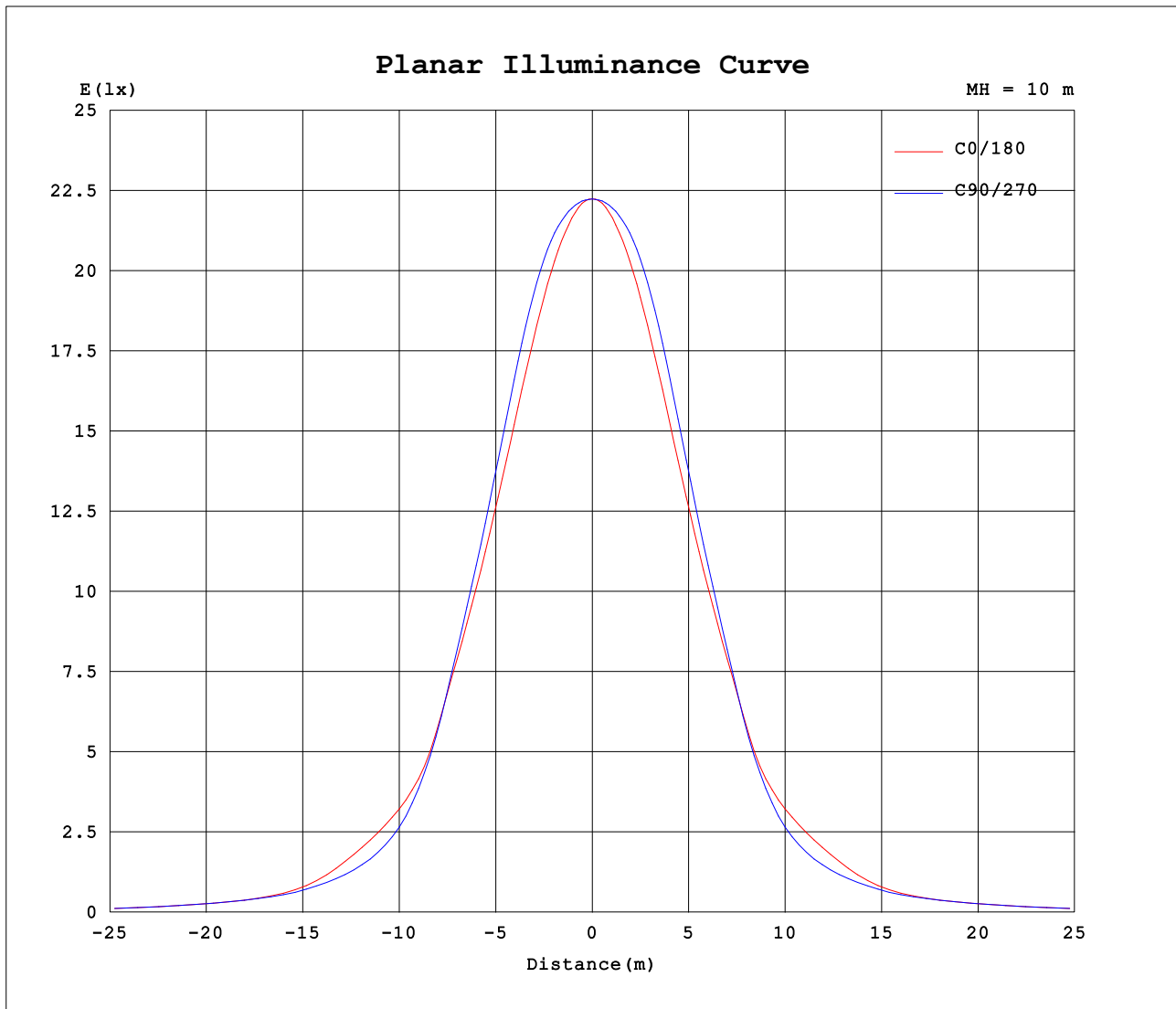
AvgL	cd/m2
L_0~180 (65) av	1892
L_0~180 (75) av	1690
L_0~180 (85) av	2117
L_90~270 (65) av	1888
L_90~270 (75) av	1797
L_90~270 (85) av	1659
L_45 (65) av	1890
L_45 (75) av	1757
L_45 (85) av	1831

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-11-08

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.560m [K=0.9802]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2023-11-08

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity: 65.0%
Test Distance: 7.560m [K=0.9802]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:222.4V I:0.1521A P:33.98W PF:0.9634 Lamp Flux:4181.91x1 lm		
NAME: 6060M-120LM/W- (3000K-6000K)-UGR	TYPE:LED	WEIGHT:
SPEC.: 6060M-120LM/W- (3000K-6000K)-UGR	DIM.: 595*595	SERIAL No.:
MFR.: JT	SUR.:0.595*0.595	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	90	180	270															
0	2224	2224	2224	2224															
5	2207	2230	2207	2230															
10	2161	2239	2161	2239															
15	2081	2222	2081	2222															
20	1965	2139	1965	2139															
25	1816	1981	1816	1981															
30	1643	1766	1643	1766															
35	1437	1491	1437	1491															
40	1119	1087	1119	1087															
45	913	751	913	751															
50	763	560	763	560															
55	526	437	526	437															
60	353	344	353	344															
65	283	282	283	282															
70	197	200	197	200															
75	155	165	155	165															
80	144	98.4	144	98.4															
85	65.3	51.2	65.3	51.2															
90	0.05	0.00	0.05	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	0.06	0.11	0.06	0.11															
125	0.27	0.36	0.27	0.36															
130	0.50	0.62	0.50	0.62															
135	0.72	0.88	0.72	0.88															
140	0.98	1.13	0.98	1.13															
145	1.24	1.39	1.24	1.39															
150	1.51	1.64	1.51	1.64															
155	1.80	1.90	1.80	1.90															
160	2.12	2.17	2.12	2.17															
165	2.38	2.40	2.38	2.40															
170	2.57	2.59	2.57	2.59															
175	2.71	2.74	2.71	2.74															
180	2.79	2.79	2.79	2.79															

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-11-08

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.295
Humidity:65.0%
Test Distance:7.560m [K=0.9802]
Remarks: