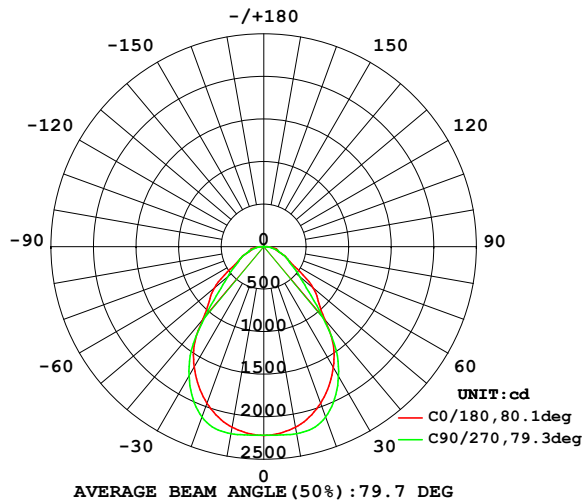


LUMINAIRE PHOTOMETRIC TEST REPORT

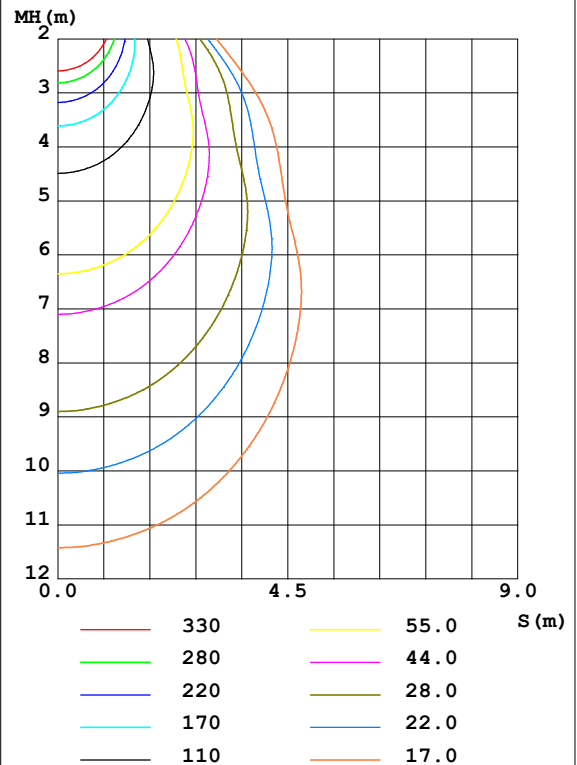
Test:U:222.4V I:0.1588A P:34.14W PF:0.9667 Lamp Flux:4164.12x1 lm		
NAME: 6060M-120LM/W- (3000K-6000K)-UGR	TYPE:LED	WEIGHT:
SPEC.:6060M-120LM/W- (3000K-6000K)-UGR	DIM.: 595*595	SERIAL No.:
MFR.: JT	SUR.:0.595*0.595	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 121.96 lm/W			
MODEL	PL-6060-36D	Imax(cd)	2231	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)	4164.1	η UP,DN(C0-180)	0.0,50.0
NOMINAL FLUX(lm)	4164.12	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=0.9868]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	2154	2231	2154	2231					0- 10	210.5	210.5	5.06, 5.06
20	1957	2130	1957	2130					10- 20	602.8	813.3	19.5, 19.5
30	1637	1758	1637	1758					20- 30	867.2	1681	40.4, 40.4
40	1113	1080	1113	1080					30- 40	892.4	2573	61.8, 61.8
50	760.3	557.4	760.3	557.4					40- 50	650.1	3223	77.4, 77.4
60	352.3	342.5	352.3	342.5					50- 60	434.5	3658	87.8, 87.8
70	196.1	199.5	196.1	199.5					60- 70	274.6	3932	94.4, 94.4
80	143.6	97.82	143.6	97.82					70- 80	166.6	4099	98.4, 98.4
90	0.0452	0	0.0452	0					80- 90	61.91	4161	99.9, 99.9
100	0	0	0	0					90-100	0.0012	4161	99.9, 99.9
110	0	0	0	0					100-110	0	4161	99.9, 99.9
120	0.0476	0.1042	0.0476	0.1042					110-120	0.0074	4161	99.9, 99.9
130	0.4854	0.6167	0.4854	0.6167					120-130	0.2699	4161	99.9, 99.9
140	0.9581	1.124	0.9581	1.124					130-140	0.6104	4162	99.9, 99.9
150	1.496	1.622	1.496	1.622					140-150	0.8085	4162	100, 100
160	2.103	2.143	2.103	2.143					150-160	0.8426	4163	100, 100
170	2.554	2.581	2.554	2.581					160-170	0.6625	4164	100, 100
180	2.772	2.767	2.772	2.767					170-180	0.2539	4164	100, 100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

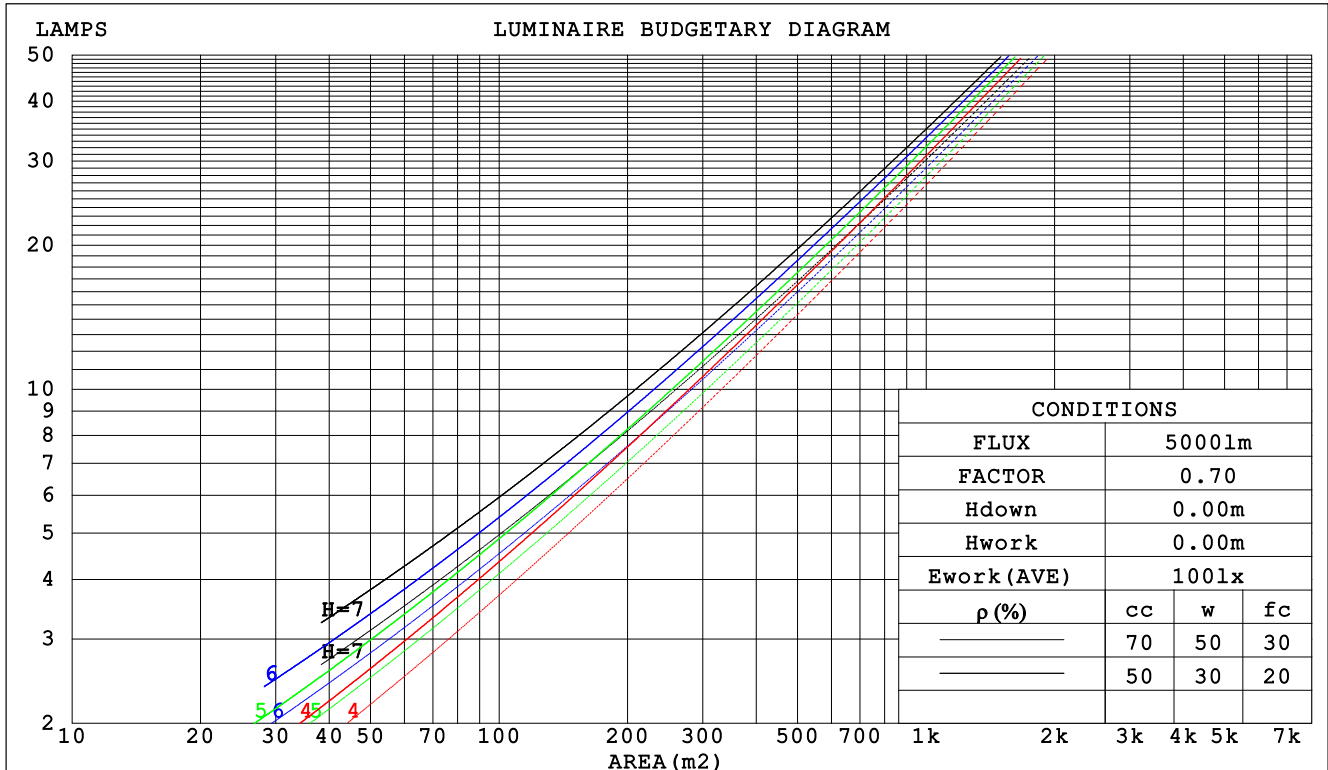
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-11-08

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=0.9868]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:222.4V I:0.1588A P:34.14W PF:0.9667 Lamp Flux:4164.12x1 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	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	.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	.36
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=0.9868]
Remarks:

WEC AND CCEC

Test:U:222.4V I:0.1588A P:34.14W PF:0.9667 Lamp Flux:4164.12x1 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	.220	.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=0.9868]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:222.4V I:0.1588A P:34.14W PF:0.9667 Lamp Flux:4164.12x1 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	16.6	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	16.8	15.9	17.1	17.3
4H	16.3	17.5	16.6	17.7	18.0	16.1	17.3	16.5	17.5	17.8
6H	17.0	18.1	17.3	18.3	18.6	16.5	17.6	16.9	17.9	18.1
8H	17.3	18.3	17.6	18.6	18.9	16.7	17.7	17.0	18.0	18.3
12H	17.5	18.5	17.8	18.7	19.0	16.8	17.8	17.2	18.1	18.4
4H 2H	15.4	16.6	15.7	16.8	17.0	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	16.5	17.5	17.8
4H	17.0	17.9	17.4	18.2	18.5	16.9	17.8	17.2	18.1	18.4
6H	17.9	18.7	18.3	19.0	19.4	17.4	18.2	17.8	18.6	18.9
8H	18.2	19.0	18.6	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	18.5	18.3	18.9	19.3
8H 4H	17.2	18.0	17.6	18.4	18.7	17.1	17.9	17.5	18.2	18.6
6H	18.3	18.9	18.8	19.3	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	19.4	19.9
12H 4H	17.3	18.0	17.7	18.3	18.7	17.2	17.9	17.6	18.2	18.6
6H	18.4	19.0	18.9	19.4	19.8	18.0	18.5	18.4	19.0	19.4
8H	18.9	19.4	19.4	19.9	20.3	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 4164 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=0.9868]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:222.4V I:0.1588A P:34.14W PF:0.9667 Lamp Flux:4164.12x1 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=0.9868]
Remarks:

ISOCANDELA DIAGRAM

Test:U:222.4V I:0.1588A P:34.14W PF:0.9667 Lamp Flux:4164.12x1 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):

2924.1 lm

%lum = 70.2%

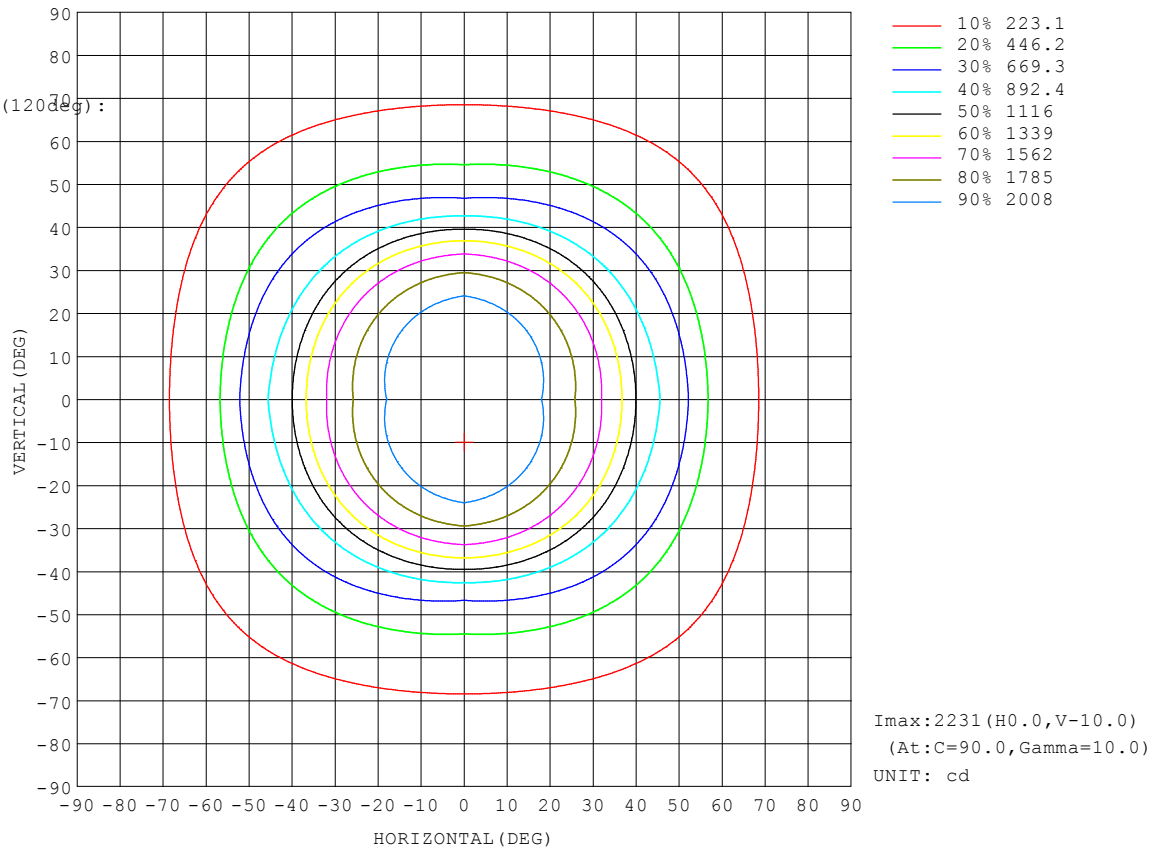
%lamp = 70.2%

Conical surface Flux(120deg):

3657.6 lm

%lum = 87.8%

%lamp = 87.8%

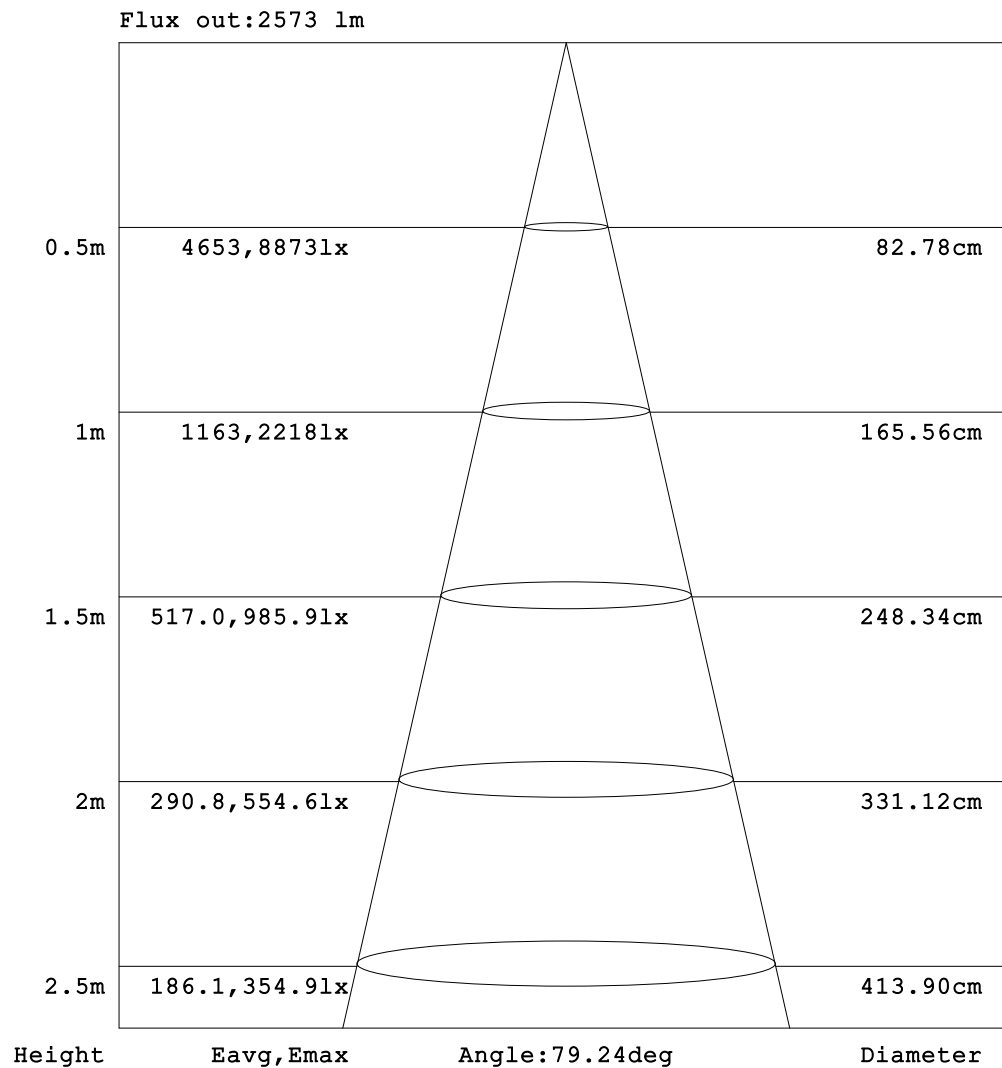


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-11-08

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=0.9868]
Remarks:

AAI Figure

Test:U:222.4V I:0.1588A P:34.14W PF:0.9667 Lamp Flux:4164.12x1 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:



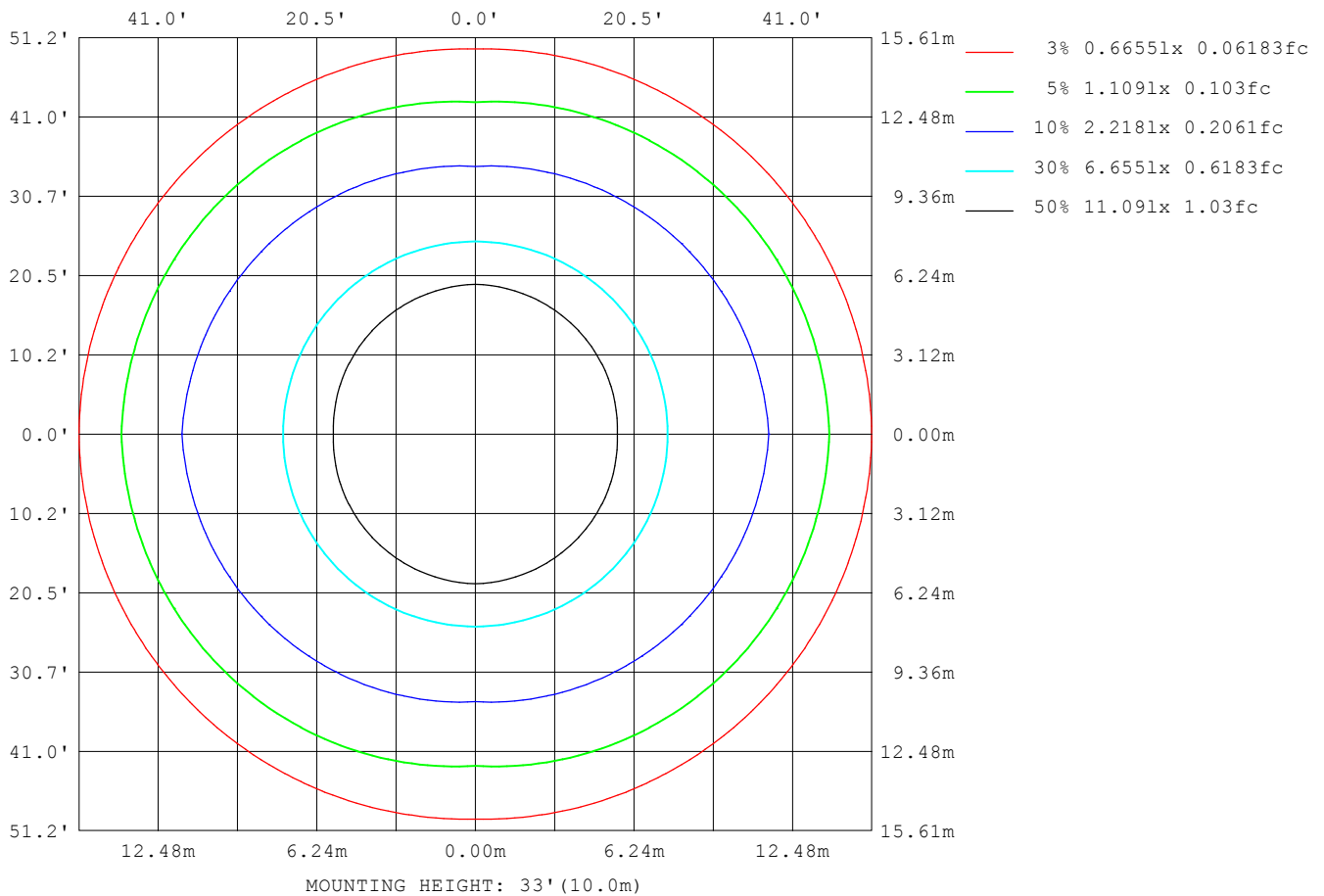
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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=0.9868]
 Remarks:

ISOLUX DIAGRAM

Test:U:222.4V I:0.1588A P:34.14W PF:0.9667 Lamp Flux:4164.12x1 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=0.9868]
 Remarks:

LED Avg.L Report

Test:U:222.4V I:0.1588A P:34.14W PF:0.9667 Lamp Flux:4164.12x1 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:

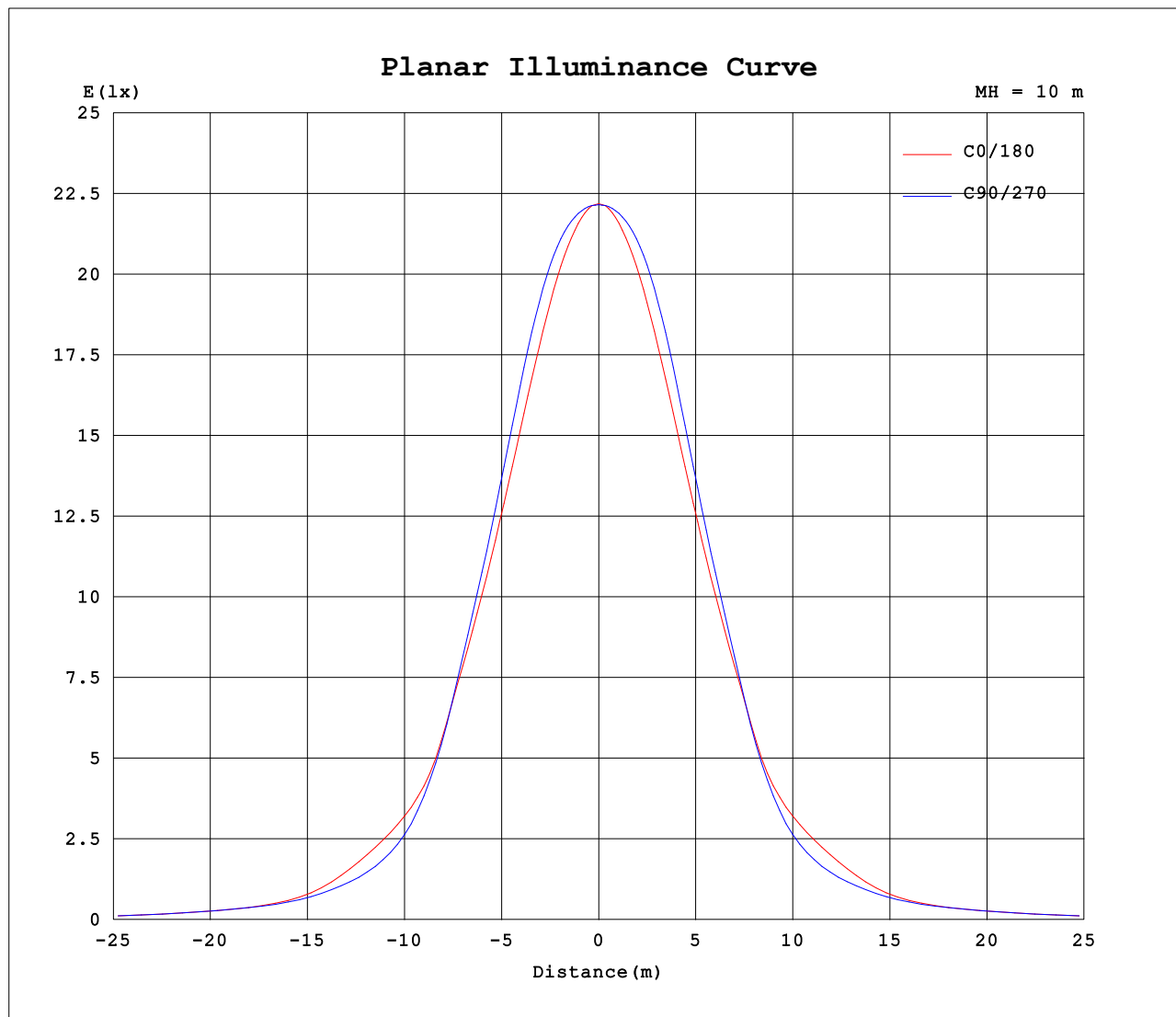
AvgL	cd/m2
L_0~180 (65) av	1886
L_0~180 (75) av	1685
L_0~180 (85) av	2108
L_90~270 (65) av	1882
L_90~270 (75) av	1789
L_90~270 (85) av	1650
L_45 (65) av	1884
L_45 (75) av	1750
L_45 (85) av	1821

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=0.9868]
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=0.9868]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:222.4V I:0.1588A P:34.14W PF:0.9667 Lamp Flux:4164.12x1 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	2218	2216	2218	2216															
5	2201	2222	2201	2222															
10	2154	2231	2154	2231															
15	2074	2213	2074	2213															
20	1957	2130	1957	2130															
25	1810	1972	1810	1972															
30	1637	1758	1637	1758															
35	1432	1484	1432	1484															
40	1113	1080	1113	1080															
45	908	746	908	746															
50	760	557	760	557															
55	523	435	523	435															
60	352	342	352	342															
65	282	282	282	282															
70	196	199	196	199															
75	154	164	154	164															
80	144	97.8	144	97.8															
85	65.0	50.9	65.0	50.9															
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	0.05	0.10	0.05	0.10															
125	0.26	0.34	0.26	0.34															
130	0.49	0.62	0.49	0.62															
135	0.72	0.87	0.72	0.87															
140	0.96	1.12	0.96	1.12															
145	1.22	1.38	1.22	1.38															
150	1.50	1.62	1.50	1.62															
155	1.79	1.88	1.79	1.88															
160	2.10	2.14	2.10	2.14															
165	2.35	2.39	2.35	2.39															
170	2.55	2.58	2.55	2.58															
175	2.69	2.72	2.69	2.72															
180	2.77	2.77	2.77	2.77															

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=0.9868]
Remarks: