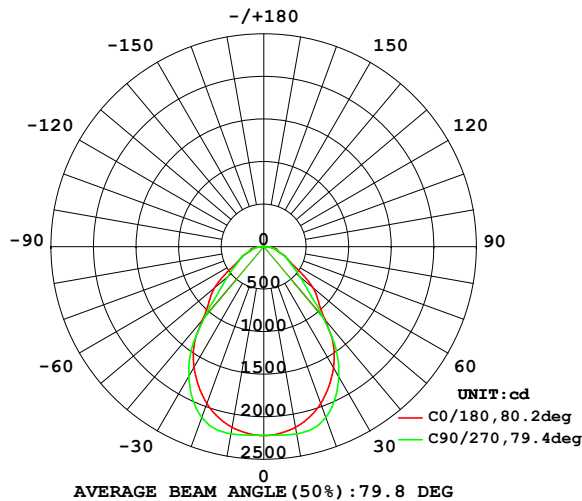


LUMINAIRE PHOTOMETRIC TEST REPORT

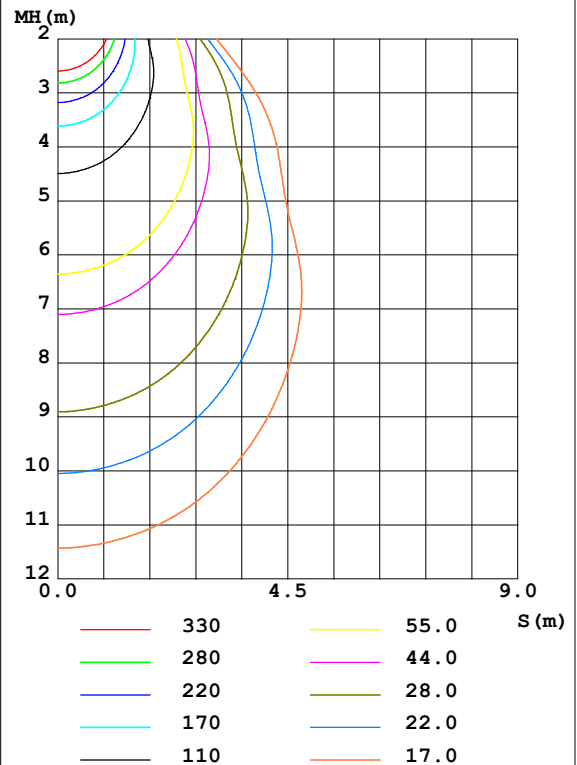
Test:U:222.2V I:0.1589A P:34.55W PF:0.9644 Lamp Flux:4172.46x1 lm		
NAME: 6060M-120LM/W- (3000K-6000K)-UGR	TYPE:LED	WEIGHT:
SPEC.:6060M-120LM/W- (3000K-6000K)-UGR	DIM.: 595*595	SERIAL No.:
MFR.: JT	SUR.:0.595*0.595	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 120.76 lm/W			
MODEL	PL-6060-36D	I _{max} (cd)	2234	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)	4172.5	η UP,DN(C0-180)	0.0,50.0
NOMINAL FLUX(lm)	4172.46	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=1.0159]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	%lum, lamp
10	2157	2234	2157	2234					0- 10	210.7	210.7	5.05,5.05
20	1960	2135	1960	2135					10- 20	603.8	814.6	19.5,19.5
30	1640	1762	1640	1762					20- 30	869.3	1684	40.4,40.4
40	1118	1085	1118	1085					30- 40	895.2	2579	61.8,61.8
50	761.8	558.9	761.8	558.9					40- 50	652.4	3231	77.4,77.4
60	352.3	342.7	352.3	342.7					50- 60	435.1	3667	87.9,87.9
70	195.9	199.1	195.9	199.1					60- 70	274.3	3941	94.4,94.4
80	140.7	98.07	140.7	98.07					70- 80	166.5	4107	98.4,98.4
90	0.0439	0	0.0439	0					80- 90	61.88	4169	99.9,99.9
100	0	0	0	0					90-100	0.0012	4169	99.9,99.9
110	0	0	0	0					100-110	0	4169	99.9,99.9
120	0	0.0558	0	0.0558					110-120	0.0018	4169	99.9,99.9
130	0.4364	0.5659	0.4364	0.5659					120-130	0.2259	4169	99.9,99.9
140	0.9053	1.076	0.9053	1.076					130-140	0.5727	4170	99.9,99.9
150	1.443	1.572	1.443	1.572					140-150	0.7751	4171	100,100
160	2.041	2.097	2.041	2.097					150-160	0.8183	4172	100,100
170	2.501	2.519	2.501	2.519					160-170	0.6481	4172	100,100
180	2.717	2.712	2.717	2.712					170-180	0.2490	4172	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

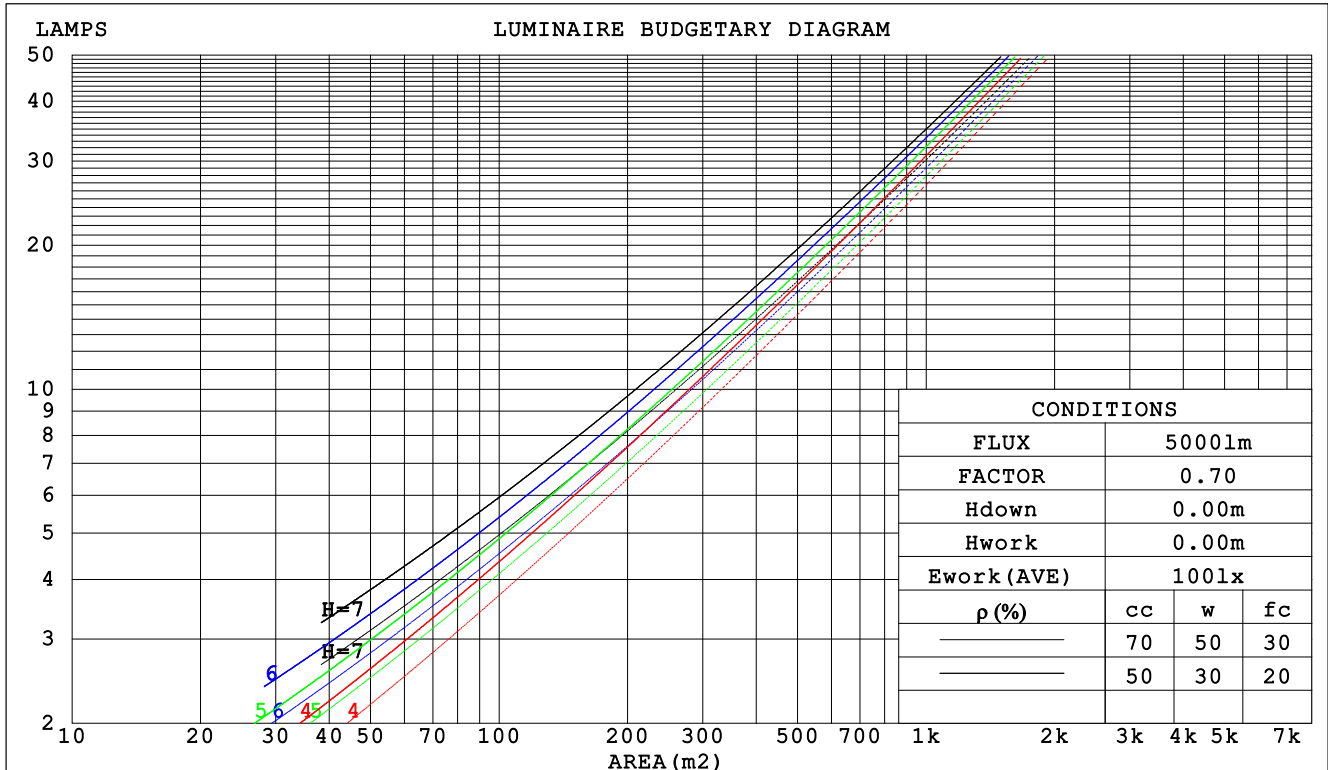
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2023-11-08

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=1.0159]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:222.2V I:0.1589A P:34.55W PF:0.9644 Lamp Flux:4172.46x1 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=1.0159]
Remarks:

WEC AND CCEC

Test:U:222.2V I:0.1589A P:34.55W PF:0.9644 Lamp Flux:4172.46x1 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	.145	.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	.056	.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	.134	.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=1.0159]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:222.2V I:0.1589A P:34.55W PF:0.9644 Lamp Flux:4172.46x1 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	16.4	17.5	17.8
6H	17.0	18.1	17.3	18.3	18.6	16.5	17.6	16.8	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	17.4	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	17.1	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	16.5	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	18.2	19.0	19.4	17.4	18.2	17.8	18.6	18.9
8H	18.2	19.0	18.6	19.3	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	18.3	18.7	17.1	17.9	17.5	18.2	18.6
6H	18.3	18.9	18.7	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	19.6
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	17.9	17.7	18.3	18.7	17.2	17.9	17.6	18.2	18.6
6H	18.4	18.9	18.8	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 4172 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=1.0159]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:222.2V I:0.1589A P:34.55W PF:0.9644 Lamp Flux:4172.46x1 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	70	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=1.0159]
Remarks:

ISOCANDELA DIAGRAM

Test:U:222.2V I:0.1589A P:34.55W PF:0.9644 Lamp Flux:4172.46x1 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):

2931.7 lm

%lum = 70.3%

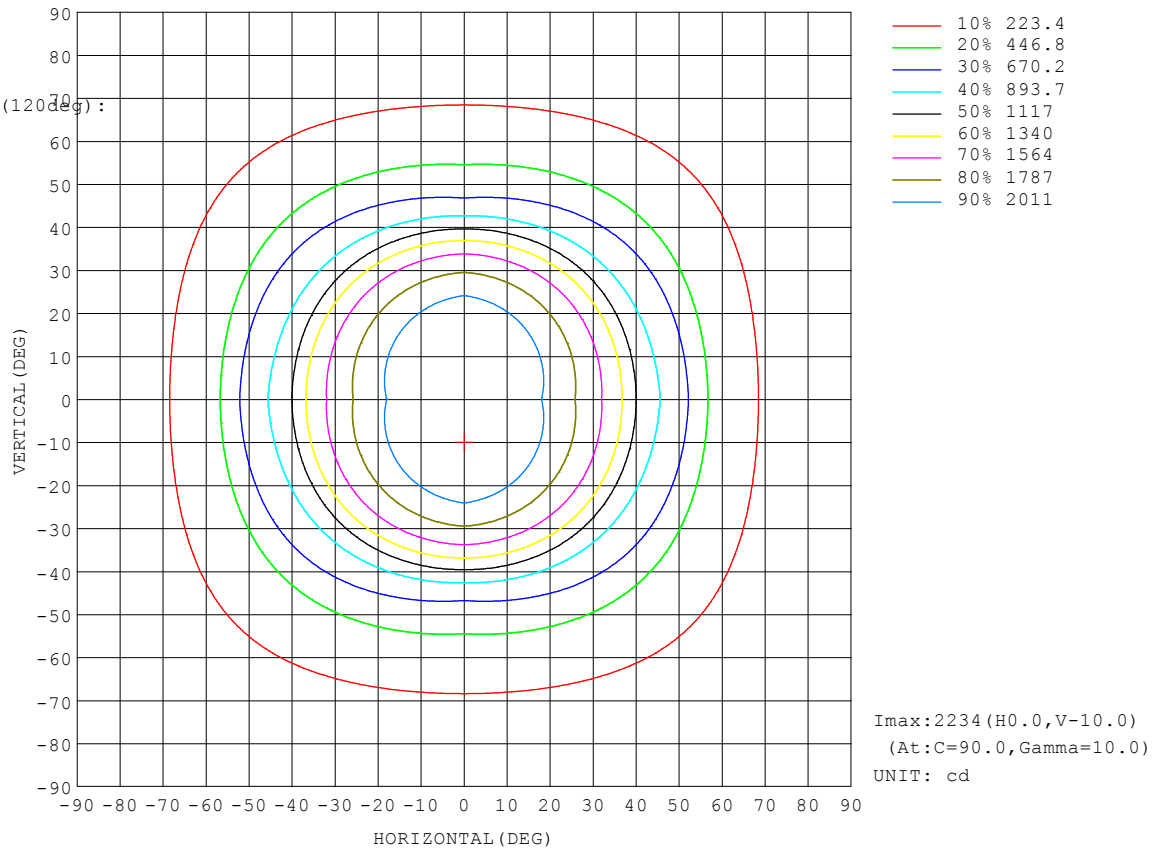
%lamp = 70.3%

Conical surface Flux(120deg):

3666.5 lm

%lum = 87.9%

%lamp = 87.9%

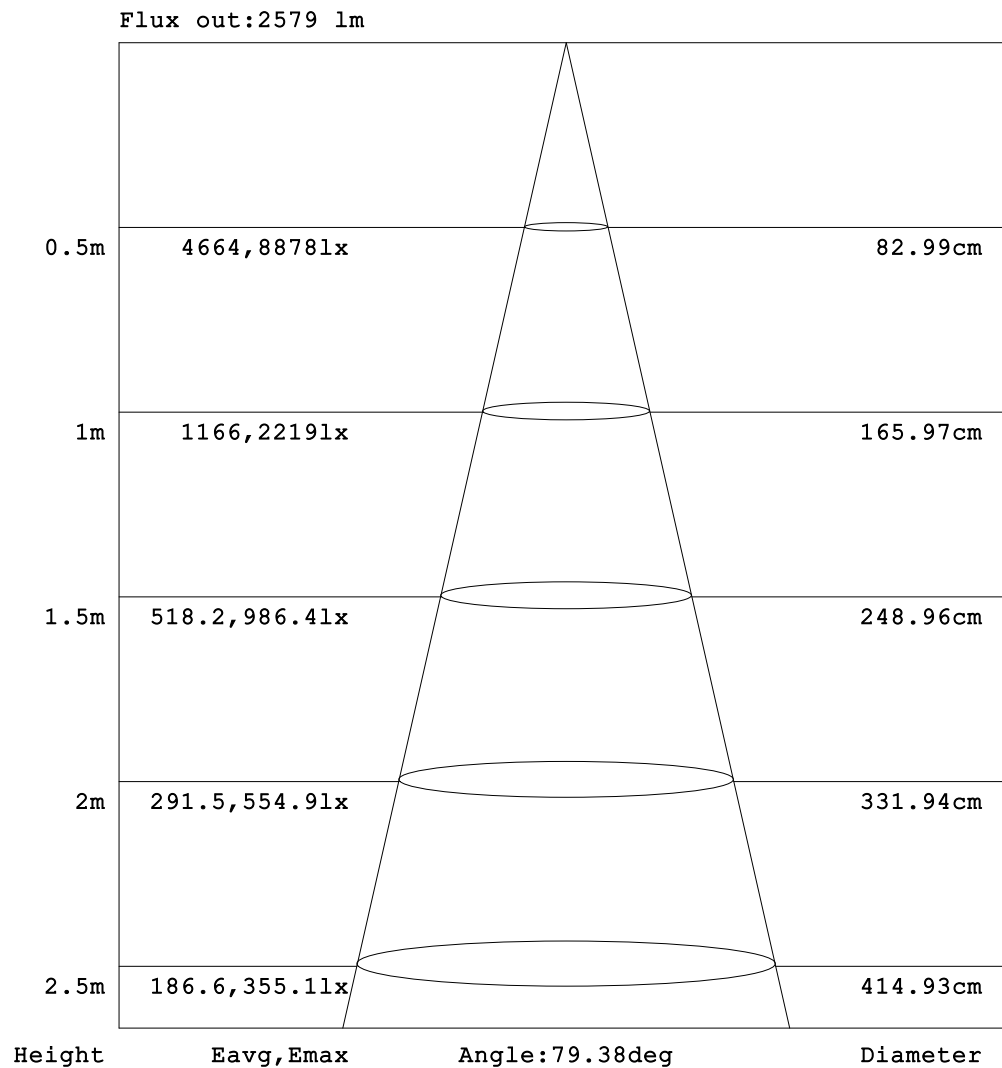


C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2023-11-08

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=1.0159]
Remarks:

AAI Figure

Test:U:222.2V I:0.1589A P:34.55W PF:0.9644 Lamp Flux:4172.46x1 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:



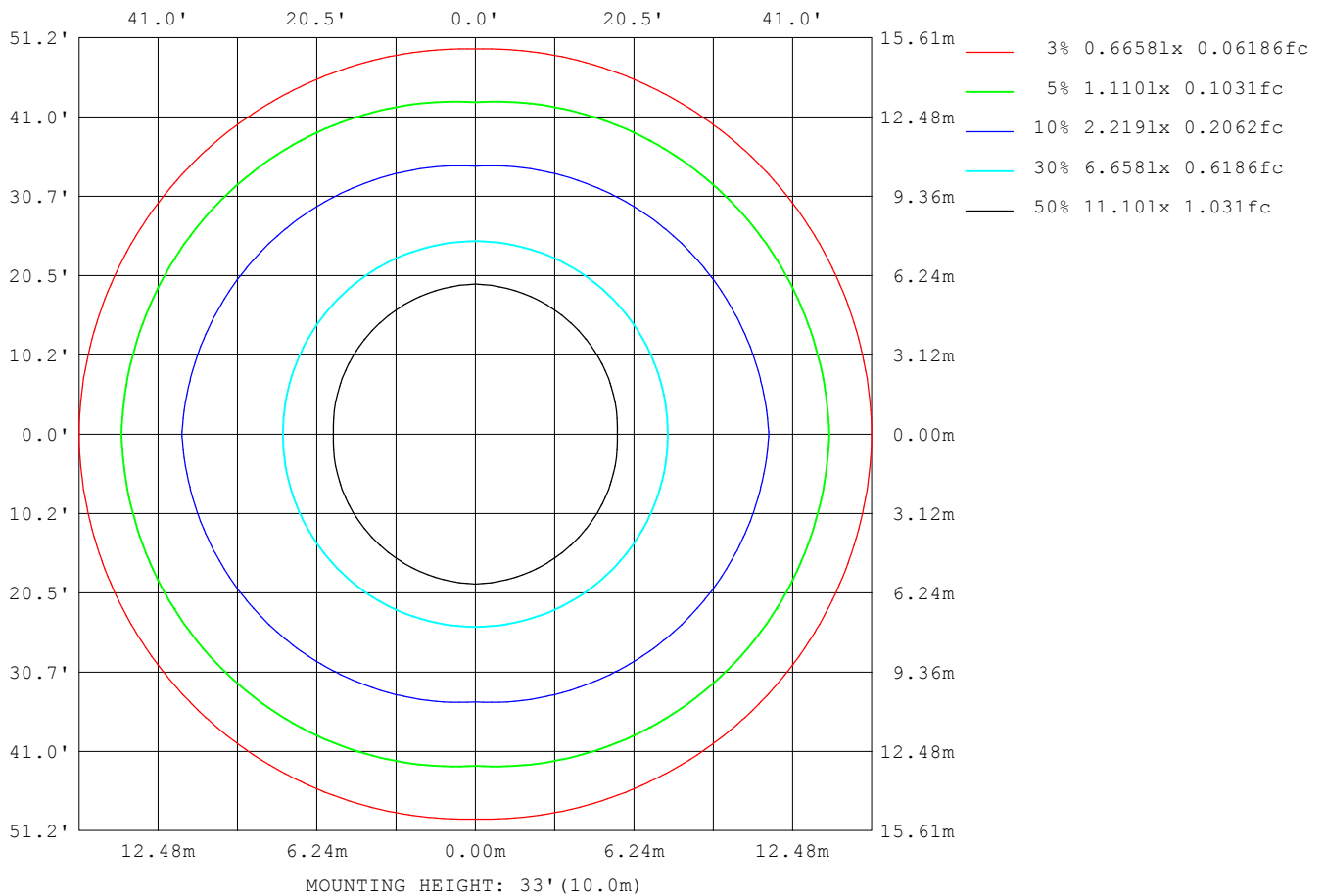
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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=1.0159]
Remarks:

ISOLUX DIAGRAM

Test:U:222.2V I:0.1589A P:34.55W PF:0.9644 Lamp Flux:4172.46x1 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=1.0159]
Remarks:

LED Avg.L Report

Test:U:222.2V I:0.1589A P:34.55W PF:0.9644 Lamp Flux:4172.46x1 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:

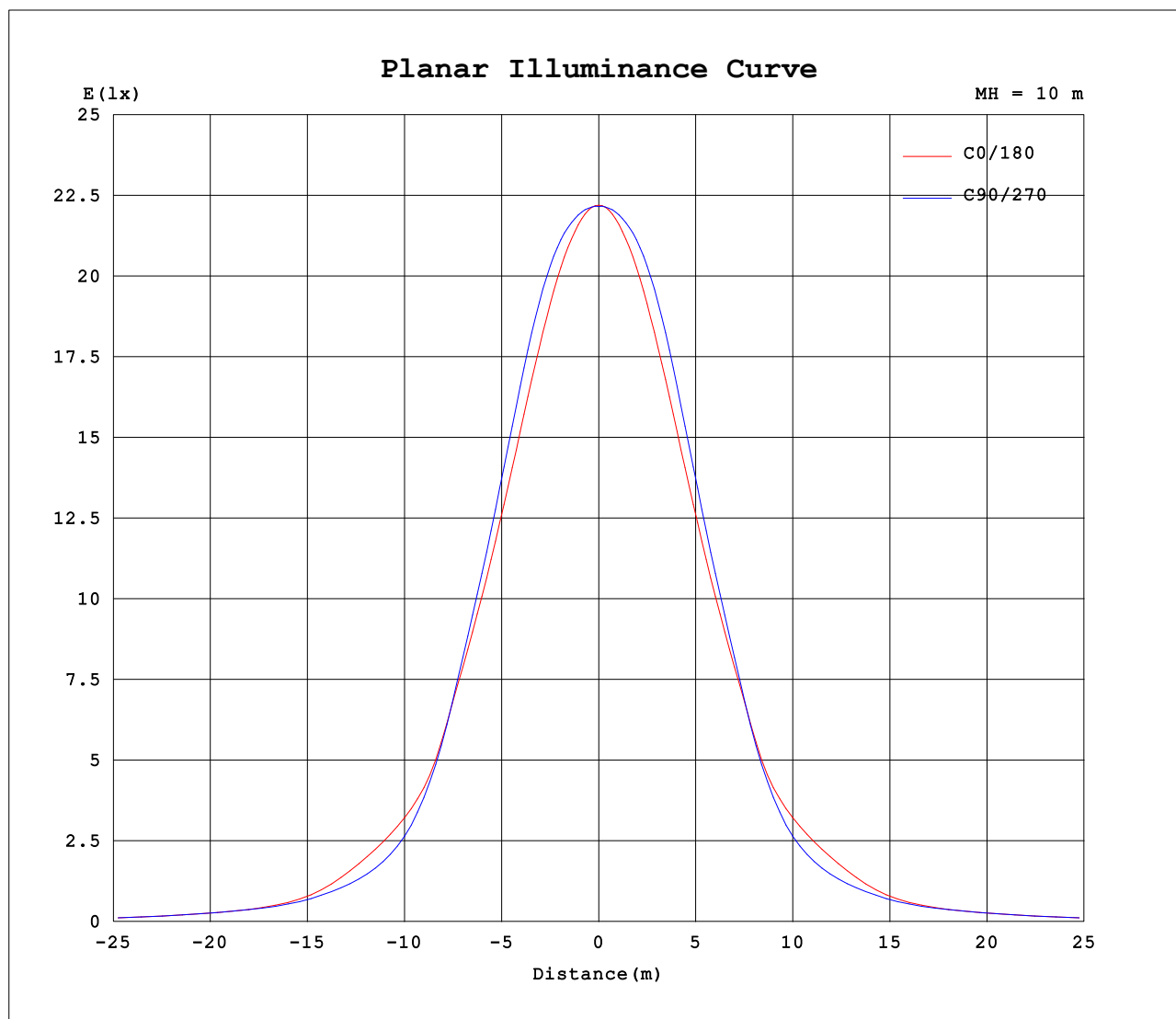
AvgL	cd/m2
L_0~180 (65) av	1885
L_0~180 (75) av	1685
L_0~180 (85) av	2107
L_90~270 (65) av	1876
L_90~270 (75) av	1788
L_90~270 (85) av	1652
L_45 (65) av	1879
L_45 (75) av	1749
L_45 (85) av	1822

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=1.0159]
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=1.0159]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:222.2V I:0.1589A P:34.55W PF:0.9644 Lamp Flux:4172.46x1 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	2219	2216	2219	2216															
5	2203	2224	2203	2224															
10	2157	2234	2157	2234															
15	2076	2217	2076	2217															
20	1960	2135	1960	2135															
25	1813	1979	1813	1979															
30	1640	1762	1640	1762															
35	1435	1489	1435	1489															
40	1118	1085	1118	1085															
45	911	750	911	750															
50	762	559	762	559															
55	524	435	524	435															
60	352	343	352	343															
65	282	281	282	281															
70	196	199	196	199															
75	154	164	154	164															
80	141	98.1	141	98.1															
85	65.0	51.0	65.0	51.0															
90	0.04	0.00	0.04	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	0.06	0.00	0.06															
125	0.21	0.30	0.21	0.30															
130	0.44	0.57	0.44	0.57															
135	0.68	0.81	0.68	0.81															
140	0.91	1.08	0.91	1.08															
145	1.16	1.32	1.16	1.32															
150	1.44	1.57	1.44	1.57															
155	1.74	1.83	1.74	1.83															
160	2.04	2.10	2.04	2.10															
165	2.31	2.34	2.31	2.34															
170	2.50	2.52	2.50	2.52															
175	2.64	2.67	2.64	2.67															
180	2.72	2.71	2.72	2.71															

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=1.0159]
Remarks: