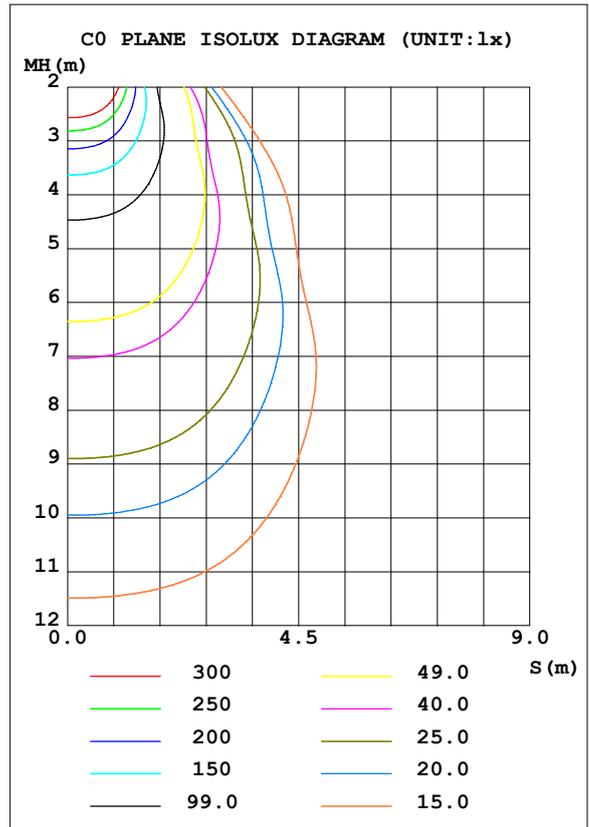
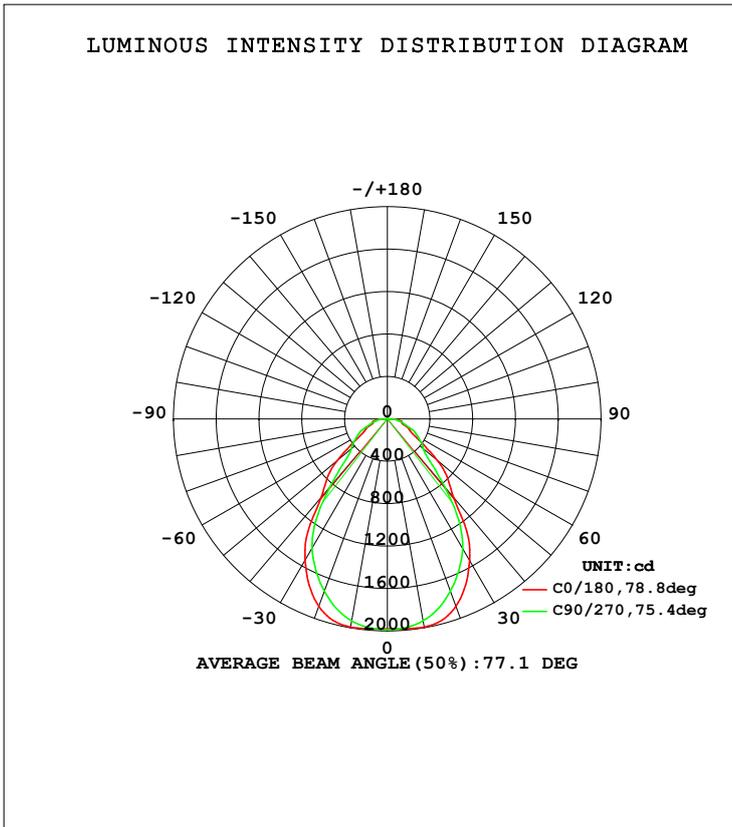


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:221.8V I:0.1149A P:25.48W PF:0.9586 Lamp Flux:3600.91x1 lm		
NAME: 3012M	TYPE:LED	WEIGHT:
SPEC.:3012M-140LM/W-6000K-UGR	DIM.: 295*1195	SERIAL No.:
MFR.: JT	SUR.:0.295*1.195	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 141.30 lm/W			
MODEL	PL-3012-26S	I _{max} (cd)	1992	S/MH (C0/180)	1.13
NOMINAL POWER (W)	26	LOR (%)	100.0	S/MH (C90/270)	1.09
RATED VOLTAGE (V)	220-240	TOTAL FLUX (lm)	3600.9	η UP, DN (C0-180)	0.0, 50.0
NOMINAL FLUX (lm)	3600.91	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



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: TJC
 Test Date: 2023-01-09

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=1.0397]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270				γ	Φ zone	Φ total	%lum,lamp
10	1992	1931	1992	1931				0- 10	188.5	188.5	5.23,5.23
20	1880	1727	1880	1727				10- 20	535.9	724.4	20.1,20.1
30	1541	1409	1541	1409				20- 30	758.9	1483	41.2,41.2
40	967.0	835.9	967.0	835.9				30- 40	753.6	2237	62.1,62.1
50	613.1	443.1	613.1	443.1				40- 50	532.8	2770	76.9,76.9
60	265.2	327.8	265.2	327.8				50- 60	353.9	3124	86.7,86.7
70	169.2	197.1	169.2	197.1				60- 70	242.4	3366	93.5,93.5
80	131.9	107.0	131.9	107.0				70- 80	154.9	3521	97.8,97.8
90	3.341	3.532	3.341	3.532				80- 90	77.85	3599	99.9,99.9
100	0	0	0	0				90-100	0.1913	3599	99.9,99.9
110	0	0	0	0				100-110	0	3599	99.9,99.9
120	0	0	0	0				110-120	0	3599	99.9,99.9
130	0.0830	0.2502	0.0830	0.2502				120-130	0.0425	3599	99.9,99.9
140	0.5290	0.6432	0.5290	0.6432				130-140	0.2836	3599	100,100
150	0.9171	1.045	0.9171	1.045				140-150	0.4897	3600	100,100
160	1.353	1.477	1.353	1.477				150-160	0.5483	3600	100,100
170	1.864	1.845	1.864	1.845				160-170	0.4582	3601	100,100
180	2.193	2.036	2.193	2.036				170-180	0.1883	3601	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm		

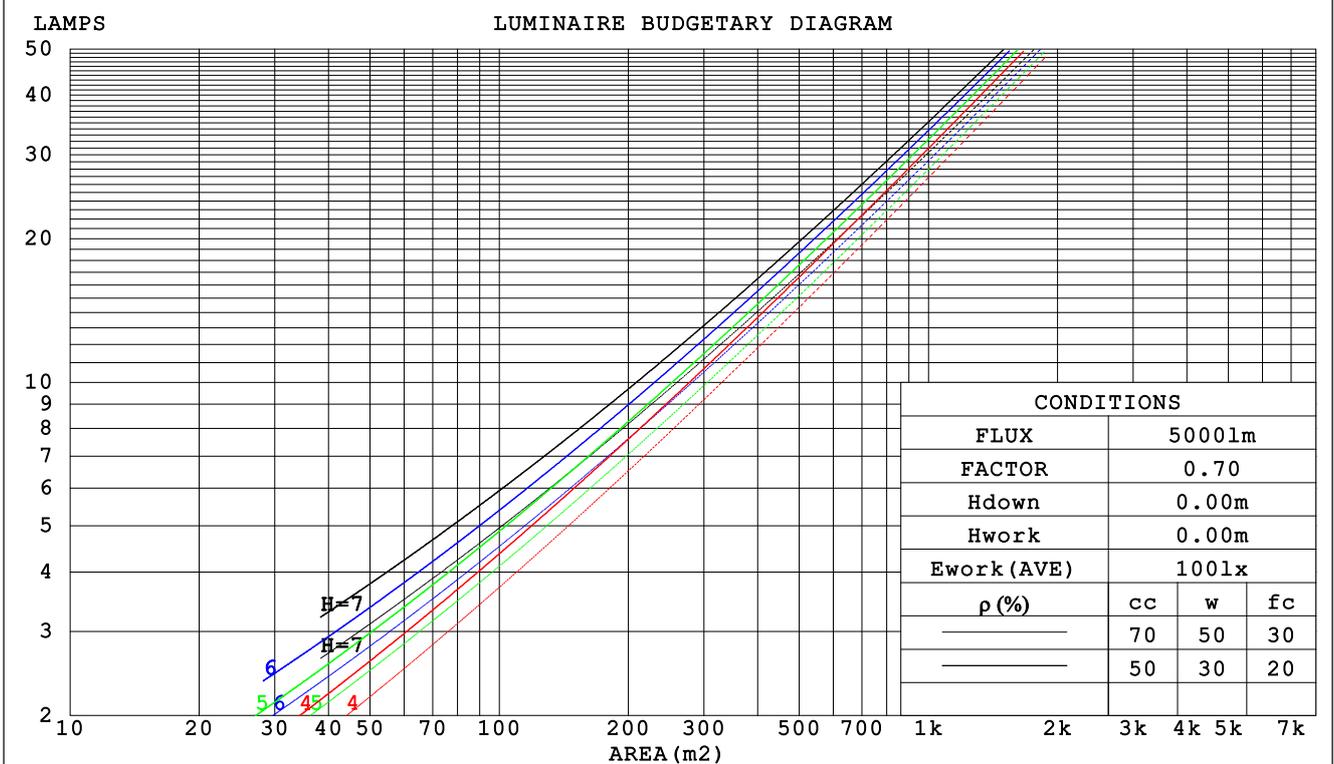
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:TJC
 Test Date:2023-01-09

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=1.0397]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:221.8V I:0.1149A P:25.48W PF:0.9586 Lamp Flux:3600.91x1 lm		
NAME: 3012M	TYPE:LED	WEIGHT:
SPEC.:3012M-140LM/W-6000K-UGR	DIM.: 295*1195	SERIAL No.:
MFR.: JT	SUR.:0.295*1.195	Shielding Angle:

ρcc	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						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	1.02	.99	1.04	1.00	.97	.90	.97	.94	.96	.93	.91	.92	.90	.89	.87
2.0	.95	.89	.84	.93	.87	.83	.89	.85	.81	.86	.82	.79	.83	.80	.77	.75
3.0	.85	.78	.72	.84	.77	.72	.81	.75	.71	.78	.73	.69	.76	.72	.68	.66
4.0	.77	.69	.63	.76	.69	.63	.73	.67	.62	.71	.66	.61	.69	.64	.61	.59
5.0	.70	.62	.56	.69	.62	.56	.67	.60	.55	.65	.59	.55	.63	.58	.54	.52
6.0	.64	.56	.51	.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	.45	.43
8.0	.54	.47	.42	.54	.47	.41	.53	.46	.41	.51	.45	.41	.50	.45	.41	.39
9.0	.51	.43	.38	.50	.43	.38	.49	.42	.38	.48	.42	.38	.47	.41	.37	.36
10.0	.47	.40	.35	.47	.40	.35	.46	.39	.35	.45	.39	.35	.44	.38	.35	.33



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:TJC
 Test Date:2023-01-09

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=1.0397]
 Remarks:

WEC AND CCEC

Test:U:221.8V I:0.1149A P:25.48W PF:0.9586 Lamp Flux:3600.91x1 lm		
NAME: 3012M	TYPE:LED	WEIGHT:
SPEC.:3012M-140LM/W-6000K-UGR	DIM.: 295*1195	SERIAL No.:
MFR.: JT	SUR.:0.295*1.195	Shielding Angle:

ρcc	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						Wall Exitance Coefficients (WEC)									
0.0																
1.0	.269	.153	.049	.262	.150	.048	.249	.143	.046	.237	.137	.044	.226	.131	.042	
2.0	.251	.137	.042	.245	.135	.042	.233	.130	.040	.223	.125	.039	.213	.121	.038	
3.0	.233	.124	.037	.228	.122	.037	.218	.118	.036	.208	.114	.035	.200	.111	.034	
4.0	.216	.112	.033	.212	.111	.033	.203	.108	.032	.195	.105	.032	.187	.102	.031	
5.0	.202	.103	.030	.198	.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	.081	.024	
8.0	.167	.081	.023	.164	.081	.023	.158	.079	.023	.153	.078	.022	.148	.076	.022	
9.0	.157	.076	.021	.155	.075	.021	.150	.074	.021	.145	.073	.021	.141	.072	.021	
10.0	.149	.071	.020	.147	.071	.020	.142	.070	.020	.138	.069	.019	.134	.067	.019	

ρcc	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	.191	.191	.191	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.178	.157	.138	.152	.135	.119	.104	.093	.082	.060	.054	.048	.019	.017	.015	
2.0	.167	.133	.103	.143	.114	.089	.098	.079	.062	.057	.046	.037	.018	.015	.012	
3.0	.158	.115	.080	.135	.099	.069	.093	.069	.049	.054	.040	.029	.017	.013	.009	
4.0	.149	.101	.064	.128	.087	.055	.088	.061	.039	.051	.036	.023	.016	.012	.008	
5.0	.141	.090	.052	.121	.078	.045	.084	.054	.032	.048	.032	.019	.016	.010	.006	
6.0	.134	.081	.043	.115	.070	.038	.080	.049	.027	.046	.029	.016	.015	.009	.005	
7.0	.128	.074	.037	.110	.064	.032	.076	.045	.023	.044	.027	.013	.014	.009	.004	
8.0	.122	.068	.032	.105	.059	.028	.072	.042	.020	.042	.025	.012	.014	.008	.004	
9.0	.116	.063	.028	.100	.055	.024	.069	.039	.017	.040	.023	.010	.013	.007	.003	
10.0	.111	.059	.024	.095	.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:TJC
 Test Date:2023-01-09

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=1.0397]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:221.8V I:0.1149A P:25.48W PF:0.9586 Lamp Flux:3600.91x1 lm										
NAME: 3012M					TYPE:LED			WEIGHT:		
SPEC.:3012M-140LM/W-6000K-UGR					DIM.: 295*1195			SERIAL No.:		
MFR.: JT					SUR.:0.295*1.195			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	14.3	15.6	14.5	15.8	16.0	14.1	15.4	14.4	15.6	15.8
3H	15.2	16.4	15.4	16.6	16.8	15.3	16.5	15.6	16.7	17.0
4H	15.6	16.8	15.9	17.0	17.3	15.9	17.0	16.2	17.3	17.5
6H	16.4	17.5	16.7	17.8	18.0	16.4	17.5	16.7	17.8	18.0
8H	16.8	17.9	17.2	18.2	18.4	16.7	17.7	17.0	18.0	18.3
12H	17.2	18.2	17.6	18.5	18.8	17.0	18.0	17.3	18.3	18.6
4H 2H	14.6	15.8	14.9	16.0	16.3	14.5	15.6	14.8	15.9	16.1
3H	15.7	16.7	16.1	17.0	17.3	15.9	16.9	16.2	17.2	17.5
4H	16.4	17.3	16.8	17.6	18.0	16.6	17.6	17.0	17.9	18.2
6H	17.4	18.2	17.8	18.6	18.9	17.4	18.2	17.8	18.5	18.9
8H	18.0	18.7	18.4	19.1	19.5	17.8	18.5	18.2	18.9	19.3
12H	18.5	19.2	18.9	19.6	20.0	18.2	18.9	18.6	19.3	19.7
8H 4H	16.7	17.5	17.1	17.9	18.2	16.9	17.7	17.3	18.0	18.4
6H	18.0	18.6	18.4	19.0	19.4	17.9	18.5	18.3	18.9	19.4
8H	18.7	19.3	19.1	19.7	20.1	18.5	19.0	18.9	19.4	19.9
12H	19.4	19.9	19.9	20.3	20.8	19.0	19.5	19.5	20.0	20.5
12H 4H	16.8	17.5	17.2	17.9	18.3	17.0	17.7	17.4	18.1	18.5
6H	18.1	18.7	18.6	19.1	19.6	18.0	18.6	18.5	19.0	19.5
8H	18.9	19.4	19.4	19.8	20.3	18.7	19.2	19.2	19.6	20.1
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.3				
1.5H	+ 0.2 / - 0.2					+ 0.3 / - 0.3				
2.0H	+ 0.6 / - 0.5					+ 0.2 / - 0.3				

CIE Pub.117 Corrected 3601 lm Total Lamp Luminous Flux. (8log(F/F0) = 4.5)

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:TJC
 Test Date:2023-01-09

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=1.0397]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:221.8V I:0.1149A P:25.48W PF:0.9586 Lamp Flux:3600.91x1 lm		
NAME: 3012M	TYPE:LED	WEIGHT:
SPEC.:3012M-140LM/W-6000K-UGR	DIM.: 295*1195	SERIAL No.:
MFR.: JT	SUR.:0.295*1.195	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	53	67	58	52	66	58	52	47
0.80	77	68	62	76	67	62	75	67	61	55
1.00	84	75	69	83	75	69	81	76	69	63
1.25	90	82	76	89	81	76	87	80	75	69
1.50	95	87	81	93	86	80	90	84	79	73
2.00	100	93	88	98	92	87	95	90	85	78
2.50	103	96	92	101	95	91	97	93	89	81
3.00	105	100	95	103	98	94	100	95	92	84
4.00	109	104	100	106	102	99	102	99	96	88
5.00	111	107	103	108	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:TJC
 Test Date:2023-01-09

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=1.0397]
 Remarks:

ISOCANDELA DIAGRAM

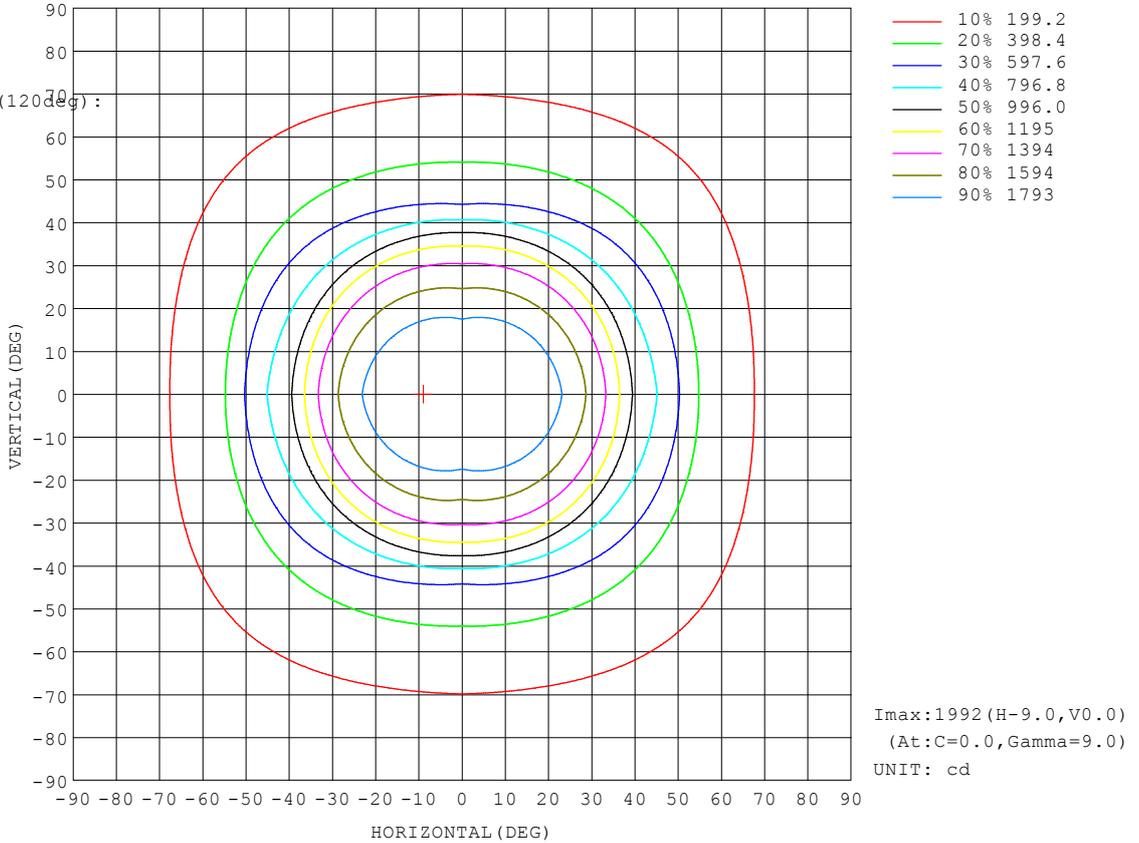
Test:U:221.8V I:0.1149A P:25.48W PF:0.9586 Lamp Flux:3600.91x1 lm		
NAME: 3012M	TYPE:LED	WEIGHT:
SPEC.:3012M-140LM/W-6000K-UGR	DIM.: 295*1195	SERIAL No.:
MFR.: JT	SUR.:0.295*1.195	Shielding Angle:

Conical surface Flux(90deg):

2526.5 lm
 %lum = 70.2%
 %lamp = 70.2%

Conical surface Flux(120deg):

3123.6 lm
 %lum = 86.7%
 %lamp = 86.7%

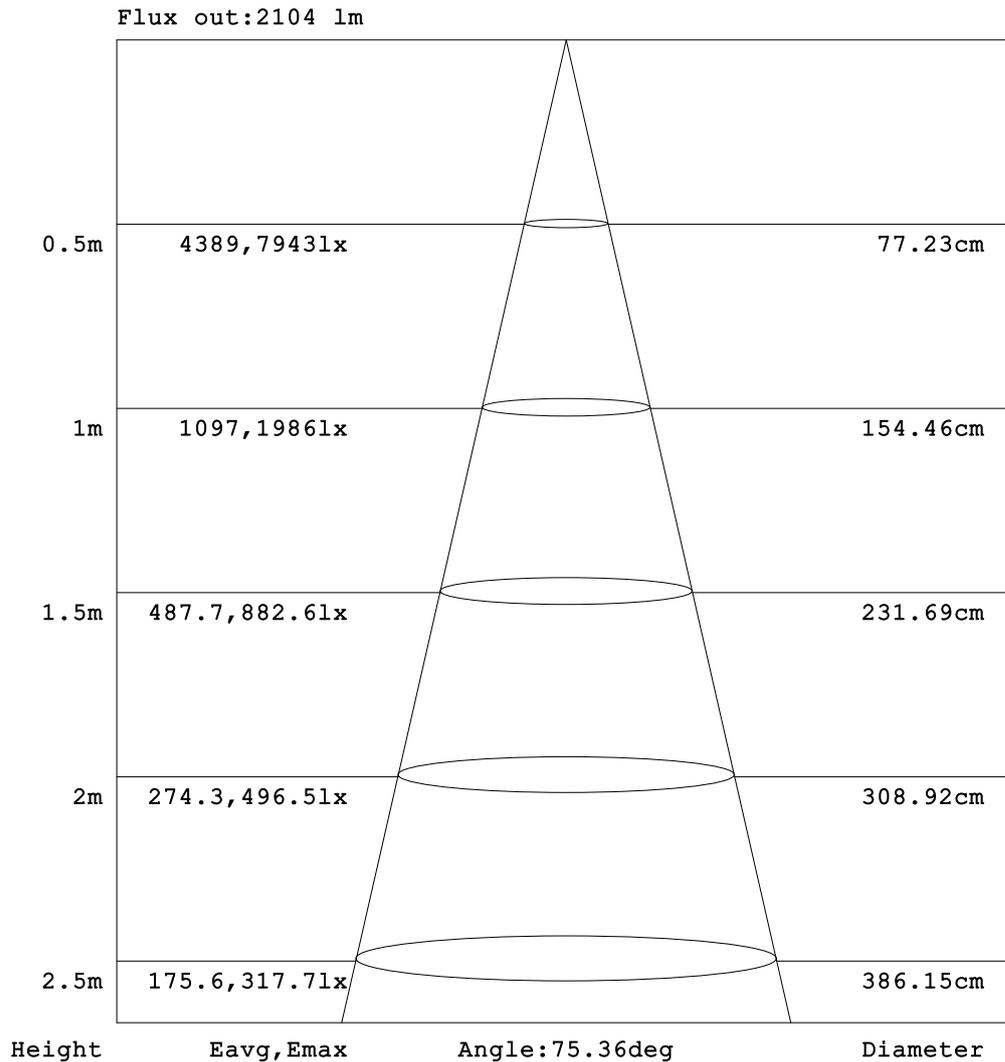


C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:TJC
 Test Date:2023-01-09

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=1.0397]
 Remarks:

AAI Figure

Test:U:221.8V I:0.1149A P:25.48W PF:0.9586 Lamp Flux:3600.91x1 lm		
NAME: 3012M	TYPE:LED	WEIGHT:
SPEC.:3012M-140LM/W-6000K-UGR	DIM.: 295*1195	SERIAL No.:
MFR.: JT	SUR.:0.295*1.195	Shielding Angle:



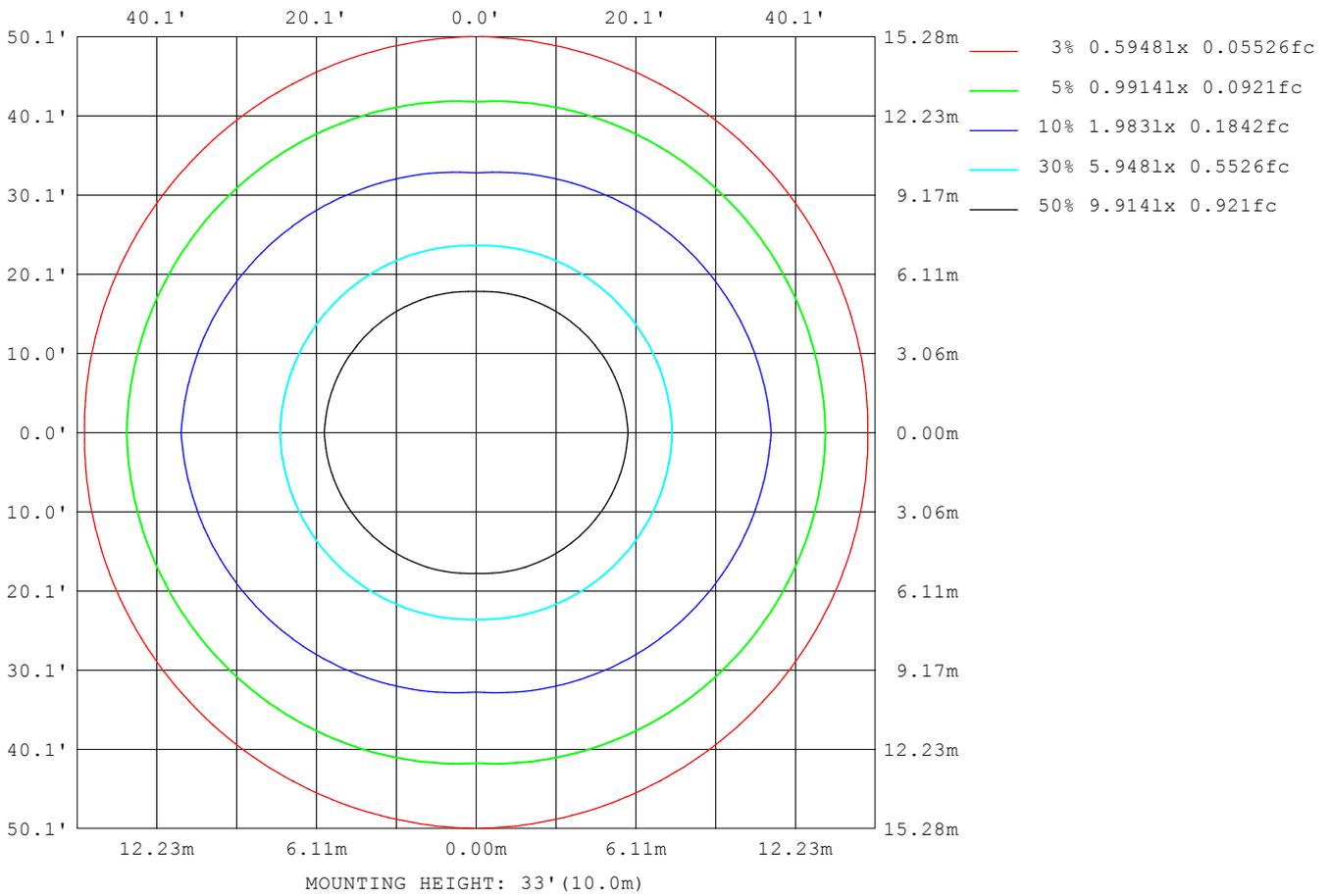
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:TJC
 Test Date:2023-01-09

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=1.0397]
 Remarks:

ISOLUX DIAGRAM

Test:U:221.8V I:0.1149A P:25.48W PF:0.9586 Lamp Flux:3600.91x1 lm		
NAME: 3012M	TYPE:LED	WEIGHT:
SPEC.:3012M-140LM/W-6000K-UGR	DIM.: 295*1195	SERIAL No.:
MFR.: JT	SUR.:0.295*1.195	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:TJC
 Test Date:2023-01-09

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=1.0397]
 Remarks:

LED Avg.L Report

Test:U:221.8V I:0.1149A P:25.48W PF:0.9586 Lamp Flux:3600.91x1 lm		
NAME: 3012M	TYPE:LED	WEIGHT:
SPEC.:3012M-140LM/W-6000K-UGR	DIM.: 295*1195	SERIAL No.:
MFR.: JT	SUR.:0.295*1.195	Shielding Angle:

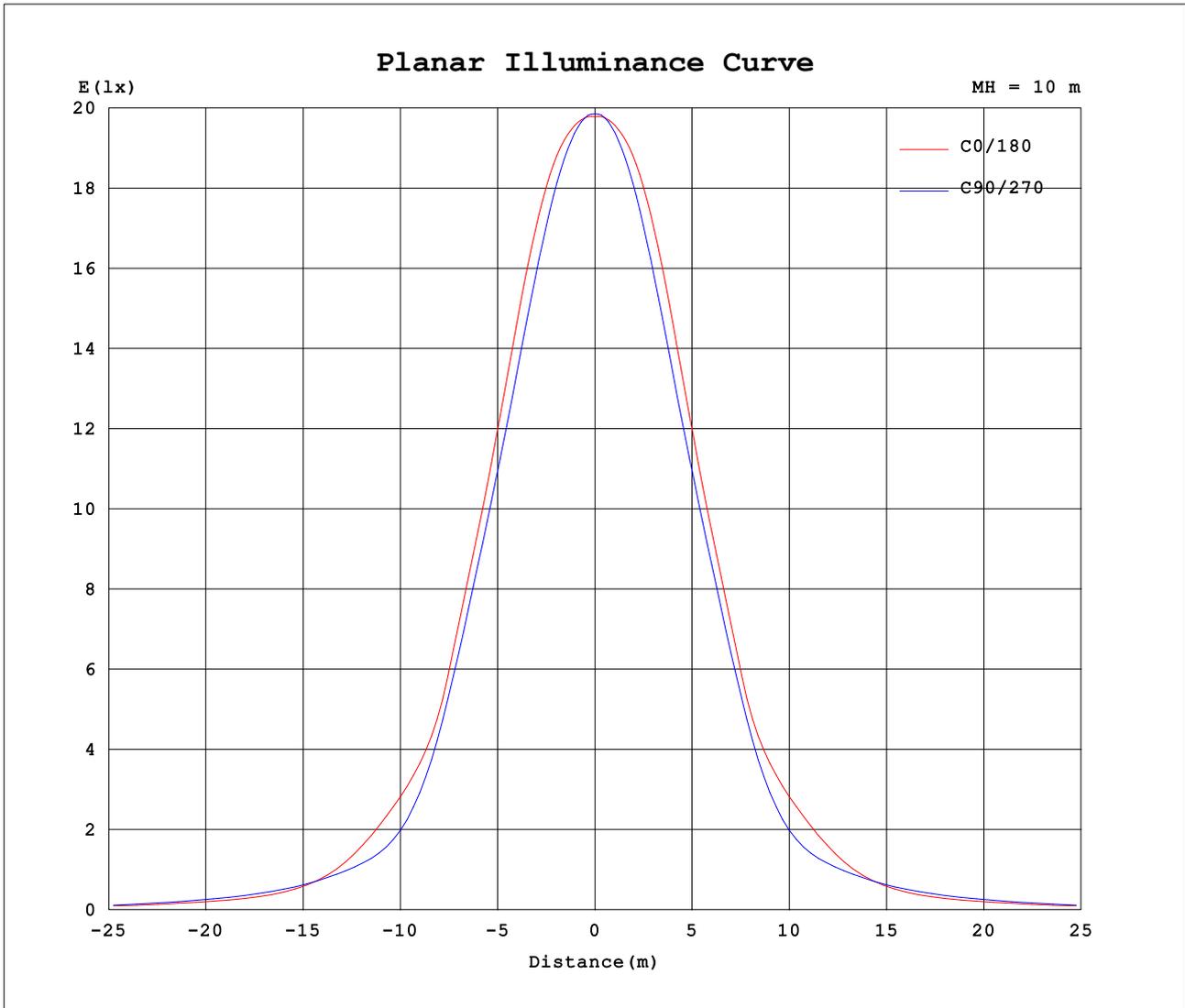
AvgL	cd/m2
L_0~180 (65) av	1509
L_0~180 (75) av	1543
L_0~180 (85) av	2753
L_90~270 (65) av	1868
L_90~270 (75) av	1662
L_90~270 (85) av	2366
L_45 (65) av	1733
L_45 (75) av	1617
L_45 (85) av	2511

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:TJC
 Test Date:2023-01-09

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=1.0397]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: TJC
 Test Date: 2023-01-09

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=1.0397]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:221.8V I:0.1149A P:25.48W PF:0.9586 Lamp Flux:3600.91x1 lm		
NAME: 3012M	TYPE:LED	WEIGHT:
SPEC.:3012M-140LM/W-6000K-UGR	DIM.: 295*1195	SERIAL No.:
MFR.: JT	SUR.:0.295*1.195	Shielding Angle:

Table--1

UNIT: cd

C (DEG) \ γ (DEG)	0	90	180	270															
0	1978	1986	1978	1986															
5	1987	1975	1987	1975															
10	1992	1931	1992	1931															
15	1966	1849	1966	1849															
20	1880	1727	1880	1727															
25	1730	1580	1730	1580															
30	1541	1409	1541	1409															
35	1297	1166	1297	1166															
40	967	836	967	836															
45	800	563	800	563															
50	613	443	613	443															
55	390	386	390	386															
60	265	328	265	328															
65	223	276	223	276															
70	169	197	169	197															
75	140	151	140	151															
80	132	107	132	107															
85	84.0	72.2	84.0	72.2															
90	3.34	3.53	3.34	3.53															
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	0.00	0.00	0.00															
125	0.00	0.08	0.00	0.08															
130	0.08	0.25	0.08	0.25															
135	0.29	0.45	0.29	0.45															
140	0.53	0.64	0.53	0.64															
145	0.73	0.86	0.73	0.86															
150	0.92	1.05	0.92	1.05															
155	1.13	1.26	1.13	1.26															
160	1.35	1.48	1.35	1.48															
165	1.61	1.67	1.61	1.67															
170	1.86	1.84	1.86	1.84															
175	2.09	1.98	2.09	1.98															
180	2.19	2.04	2.19	2.04															

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:TJC
 Test Date:2023-01-09

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=1.0397]
 Remarks: