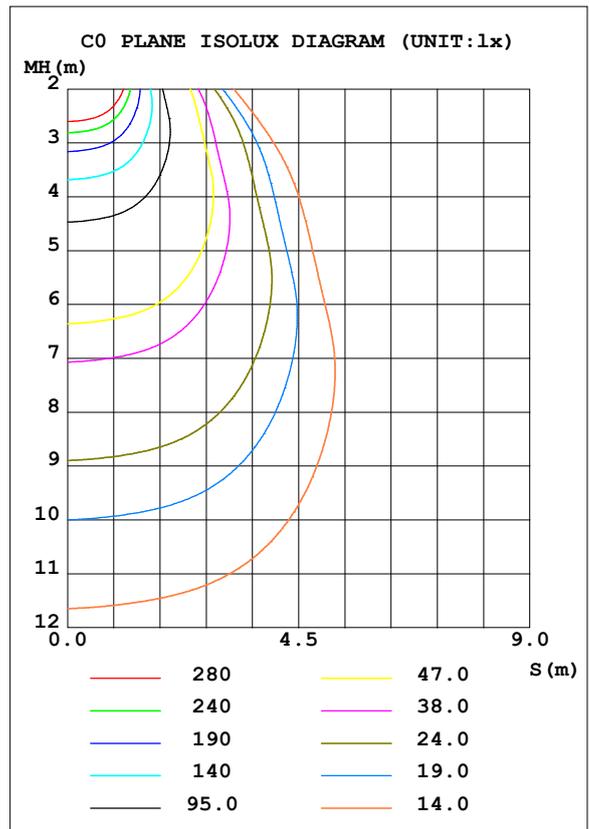
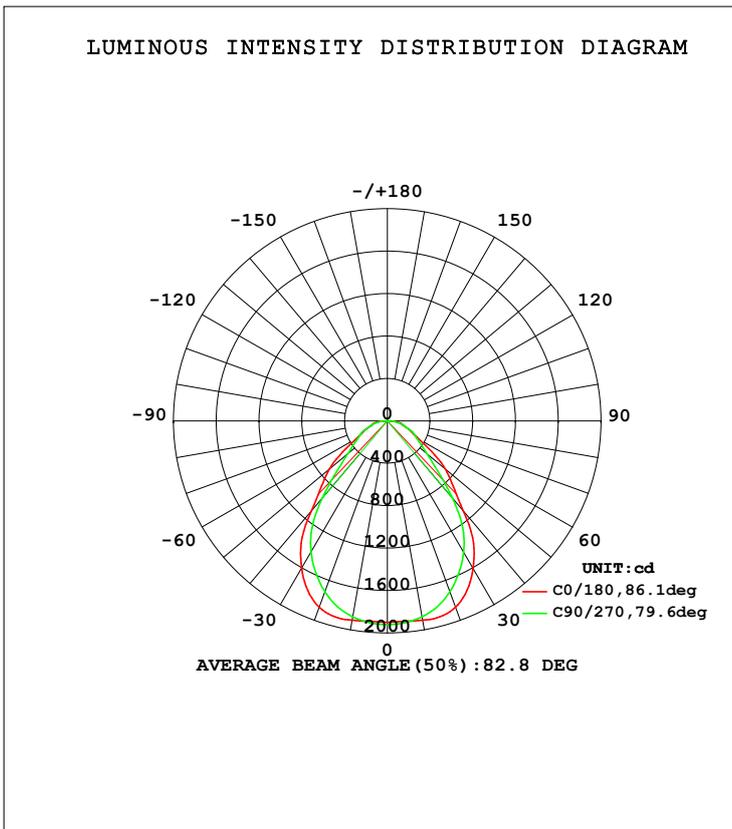


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:221.9V I:0.1174A P:26.05W PF:0.9584 Lamp Flux:3773.41x1 lm		
NAME: 3012M	TYPE:LED	WEIGHT:
SPEC.:3012M-140LM/W-4000K-UGR	DIM.: 295*1195	SERIAL No.:
MFR.: JT	SUR.:0.295*1.195	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 144.85 lm/W			
MODEL	PL-3012-26S	Imax (cd)	1919	S/MH (C0/180)	1.21
NOMINAL POWER (W)	26	LOR (%)	100.0	S/MH (C90/270)	1.13
RATED VOLTAGE (V)	220-240	TOTAL FLUX (lm)	3773.4	η UP, DN (C0-180)	0.0, 50.0
NOMINAL FLUX (lm)	3773.41	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	1909	1875	1909	1875				0- 10	181.3	181.3	4.81,4.81
20	1869	1714	1869	1714				10- 20	524.3	705.6	18.7,18.7
30	1606	1430	1606	1430				20- 30	767.8	1473	39,39
40	1108	949.0	1108	949.0				30- 40	811.6	2285	60.6,60.6
50	711.2	488.1	711.2	488.1				40- 50	603.6	2889	76.6,76.6
60	338.6	309.9	338.6	309.9				50- 60	403.0	3292	87.2,87.2
70	198.1	196.2	198.1	196.2				60- 70	257.5	3549	94.1,94.1
80	125.6	97.44	125.6	97.44				70- 80	160.0	3709	98.3,98.3
90	1.808	1.350	1.808	1.350				80- 90	61.89	3771	99.9,99.9
100	0	0	0	0				90-100	0.0871	3771	99.9,99.9
110	0	0	0	0				100-110	0	3771	99.9,99.9
120	0	0	0	0				110-120	0	3771	99.9,99.9
130	0.2393	0.3336	0.2393	0.3336				120-130	0.0906	3771	99.9,99.9
140	0.7004	0.7611	0.7004	0.7611				130-140	0.3889	3772	100,100
150	1.084	1.168	1.084	1.168				140-150	0.5759	3772	100,100
160	1.505	1.599	1.505	1.599				150-160	0.6123	3773	100,100
170	1.981	1.943	1.981	1.943				160-170	0.4939	3773	100,100
180	2.256	2.119	2.256	2.119				170-180	0.1969	3773	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm		

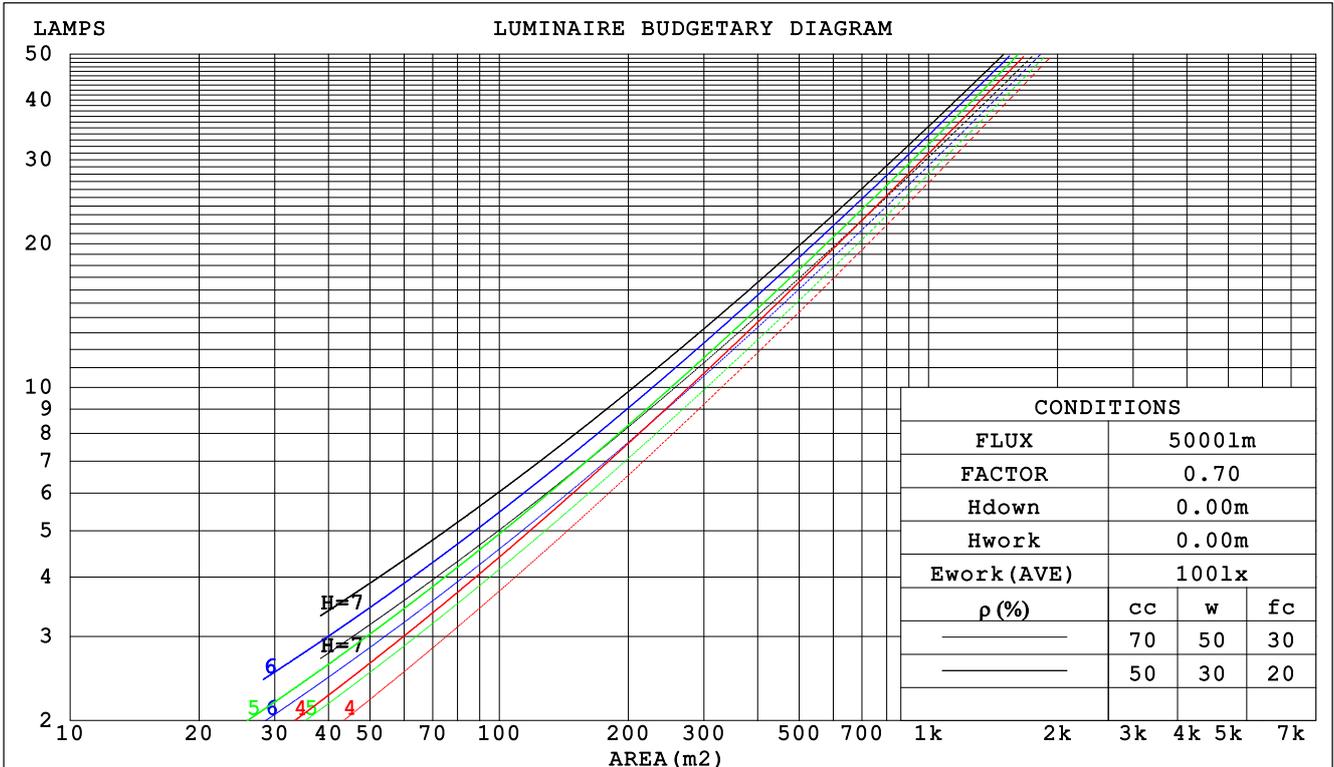
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:TJC
 Test Date:2023-01-09

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:221.9V I:0.1174A P:26.05W PF:0.9584 Lamp Flux:3773.4lx1 lm		
NAME: 3012M	TYPE:LED	WEIGHT:
SPEC.:3012M-140LM/W-4000K-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	.94	.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	.83	.77	.71	.81	.75	.70	.78	.73	.69	.75	.71	.68	.66
4.0	.77	.69	.63	.75	.68	.63	.73	.67	.62	.71	.65	.61	.69	.64	.60	.58
5.0	.70	.62	.56	.69	.61	.55	.66	.60	.55	.65	.59	.54	.63	.58	.54	.52
6.0	.63	.55	.50	.63	.55	.49	.61	.54	.49	.59	.53	.49	.58	.52	.48	.46
7.0	.58	.50	.45	.57	.50	.45	.56	.49	.44	.55	.49	.44	.53	.48	.44	.42
8.0	.54	.46	.41	.53	.46	.40	.52	.45	.40	.51	.44	.40	.49	.44	.40	.38
9.0	.50	.42	.37	.49	.42	.37	.48	.41	.37	.47	.41	.37	.46	.40	.36	.35
10.0	.46	.39	.34	.46	.39	.34	.45	.38	.34	.44	.38	.34	.43	.37	.33	.32



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:221.9V I:0.1174A P:26.05W PF:0.9584 Lamp Flux:3773.41x1 lm		
NAME: 3012M	TYPE:LED	WEIGHT:
SPEC.:3012M-140LM/W-4000K-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	.267	.152	.048	.260	.148	.047	.247	.142	.045	.235	.135	.043	.224	.130	.042	
2.0	.251	.138	.042	.245	.135	.042	.234	.130	.040	.223	.125	.039	.214	.121	.038	
3.0	.234	.125	.037	.229	.123	.037	.219	.119	.036	.210	.115	.035	.201	.111	.034	
4.0	.218	.113	.033	.214	.112	.033	.205	.109	.032	.197	.106	.032	.189	.103	.031	
5.0	.204	.104	.030	.200	.103	.030	.192	.100	.029	.185	.098	.029	.178	.095	.029	
6.0	.191	.096	.027	.187	.095	.027	.180	.092	.027	.174	.090	.027	.168	.088	.026	
7.0	.179	.089	.025	.176	.088	.025	.170	.086	.025	.164	.084	.024	.159	.082	.024	
8.0	.169	.082	.023	.166	.082	.023	.160	.080	.023	.155	.079	.023	.150	.077	.022	
9.0	.159	.077	.022	.157	.076	.021	.152	.075	.021	.147	.074	.021	.143	.072	.021	
10.0	.151	.072	.020	.148	.072	.020	.144	.071	.020	.140	.069	.020	.136	.068	.020	

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	.136	.099	.069	.093	.069	.049	.054	.040	.029	.017	.013	.009	
4.0	.150	.101	.063	.129	.087	.055	.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	.037	.080	.049	.026	.046	.029	.016	.015	.009	.005	
7.0	.129	.074	.036	.111	.064	.032	.076	.045	.022	.044	.027	.013	.014	.009	.004	
8.0	.122	.068	.031	.105	.059	.027	.073	.042	.019	.042	.025	.012	.014	.008	.004	
9.0	.117	.063	.027	.101	.055	.024	.070	.039	.017	.041	.023	.010	.013	.008	.003	
10.0	.112	.059	.024	.096	.051	.021	.067	.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:221.9V I:0.1174A P:26.05W PF:0.9584 Lamp Flux:3773.41x1 lm										
NAME: 3012M					TYPE:LED			WEIGHT:		
SPEC.:3012M-140LM/W-4000K-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	15.1	16.4	15.4	16.6	16.8	14.4	15.7	14.6	15.9	16.1
3H	15.9	17.2	16.2	17.4	17.6	15.4	16.7	15.7	16.9	17.1
4H	16.4	17.5	16.7	17.8	18.0	16.0	17.1	16.3	17.4	17.6
6H	16.9	18.0	17.2	18.3	18.6	16.5	17.6	16.8	17.8	18.1
8H	17.2	18.3	17.5	18.5	18.8	16.6	17.7	17.0	18.0	18.3
12H	17.4	18.4	17.8	18.7	19.0	16.8	17.8	17.1	18.1	18.4
4H 2H	15.4	16.5	15.7	16.8	17.0	14.8	15.9	15.1	16.2	16.4
3H	16.4	17.5	16.8	17.7	18.0	16.1	17.1	16.4	17.4	17.7
4H	17.0	18.0	17.4	18.3	18.6	16.8	17.7	17.1	18.0	18.3
6H	17.8	18.6	18.2	19.0	19.3	17.4	18.2	17.8	18.6	18.9
8H	18.2	18.9	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	18.6	18.3	19.0	19.4
8H 4H	17.3	18.0	17.7	18.4	18.8	17.0	17.8	17.4	18.2	18.5
6H	18.3	18.9	18.7	19.3	19.7	17.9	18.5	18.3	18.9	19.3
8H	18.8	19.3	19.2	19.7	20.2	18.3	18.8	18.7	19.2	19.7
12H	19.2	19.6	19.6	20.1	20.6	18.6	19.1	19.1	19.5	20.0
12H 4H	17.3	18.0	17.7	18.4	18.8	17.1	17.8	17.5	18.2	18.6
6H	18.3	18.9	18.8	19.3	19.8	18.0	18.6	18.4	19.0	19.4
8H	18.9	19.4	19.4	19.8	20.3	18.4	18.9	18.9	19.4	19.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.4					+ 0.3 / - 0.4				
1.5H	+ 0.2 / - 0.3					+ 0.4 / - 0.5				
2.0H	+ 0.7 / - 0.5					+ 0.4 / - 0.4				

CIE Pub.117 Corrected 3773 lm Total Lamp Luminous Flux. (8log(F/F0) = 4.6)

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:221.9V I:0.1174A P:26.05W PF:0.9584 Lamp Flux:3773.41x1 lm		
NAME: 3012M	TYPE:LED	WEIGHT:
SPEC.:3012M-140LM/W-4000K-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	67	57	51	66	57	51	65	56	51	45
0.80	77	67	61	76	66	60	74	66	60	54
1.00	84	75	69	83	74	68	81	75	68	62
1.25	90	81	76	89	81	75	86	79	74	68
1.50	94	86	81	93	85	80	90	84	79	72
2.00	100	93	87	98	92	87	95	89	85	78
2.50	103	96	91	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

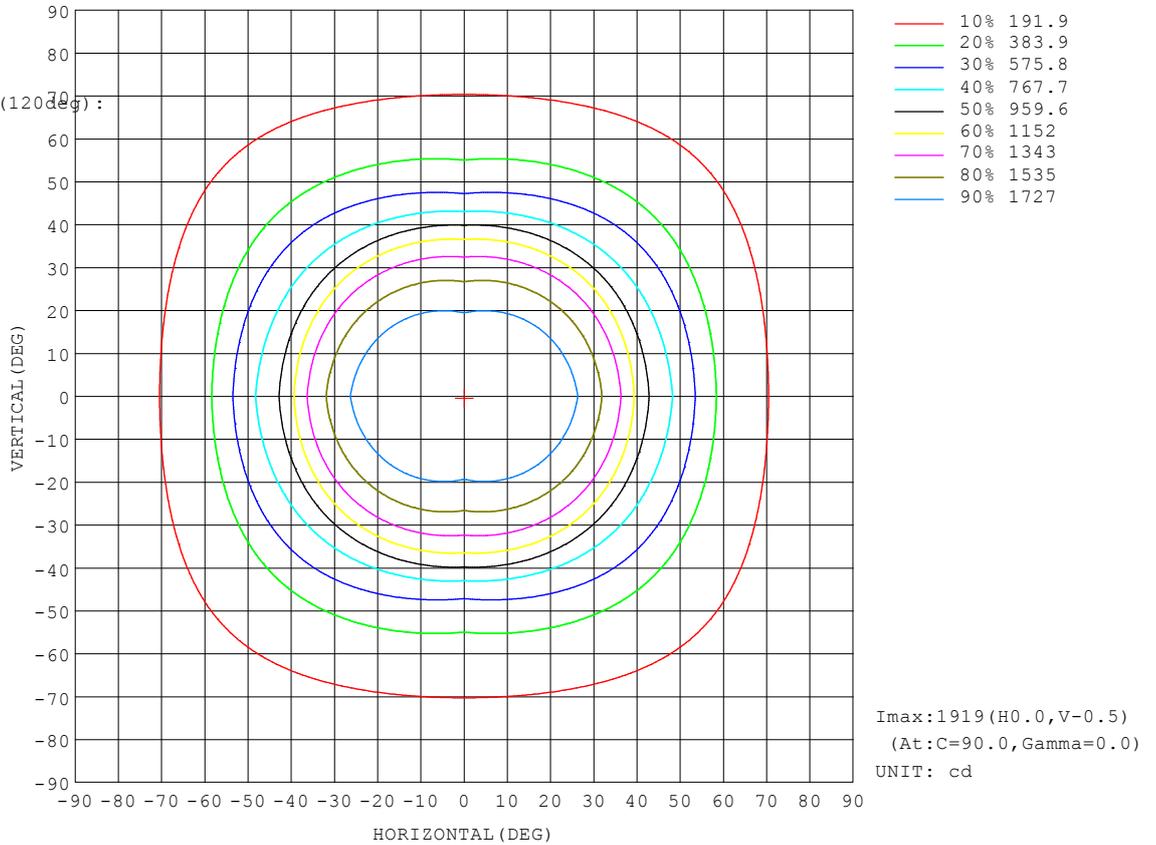
Test:U:221.9V I:0.1174A P:26.05W PF:0.9584 Lamp Flux:3773.4lx1 lm		
NAME: 3012M	TYPE:LED	WEIGHT:
SPEC.:3012M-140LM/W-4000K-UGR	DIM.: 295*1195	SERIAL No.:
MFR.: JT	SUR.:0.295*1.195	Shielding Angle:

Conical surface Flux(90deg):

2614 lm
 %lum = 69.3%
 %lamp = 69.3%

Conical surface Flux(120deg):

3291.6 lm
 %lum = 87.2%
 %lamp = 87.2%

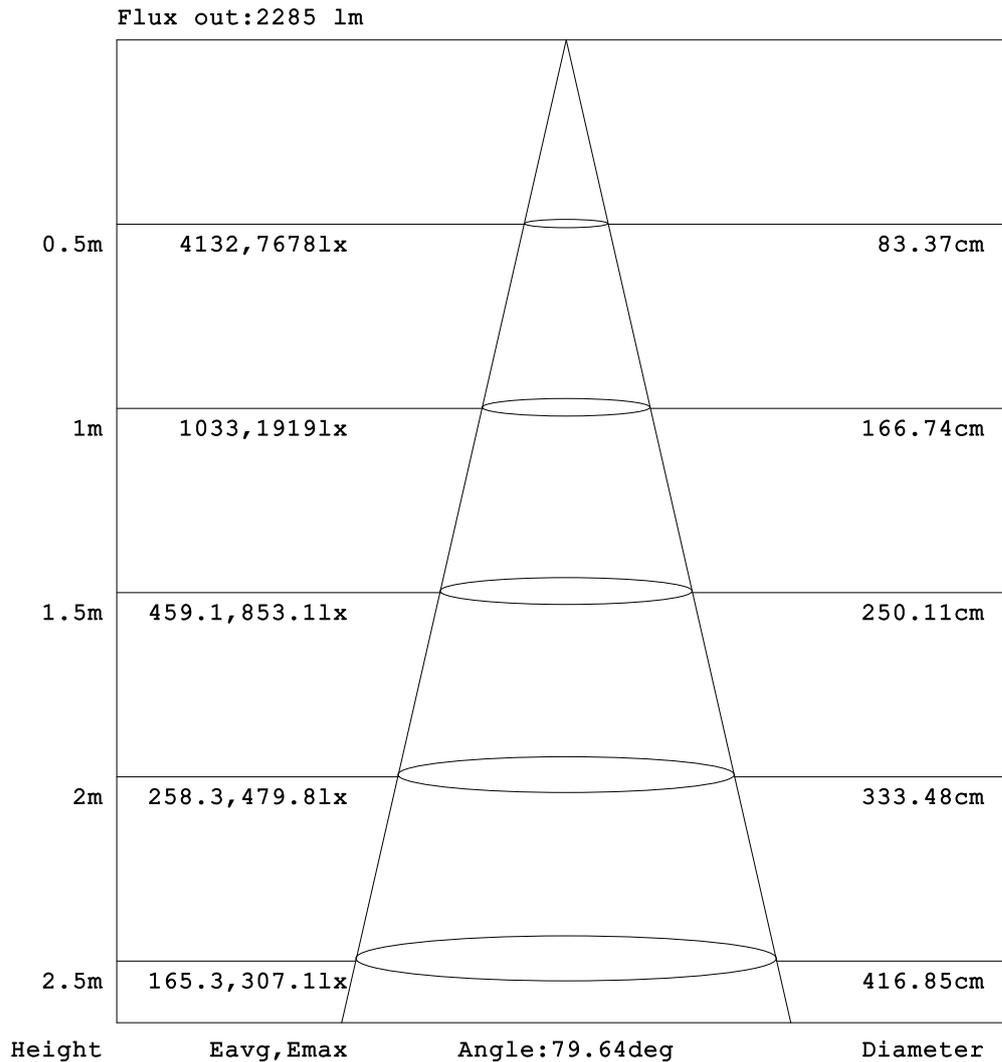


C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:TJC
 Test Date:2023-01-09

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:221.9V I:0.1174A P:26.05W PF:0.9584 Lamp Flux:3773.41x1 lm		
NAME: 3012M	TYPE:LED	WEIGHT:
SPEC.:3012M-140LM/W-4000K-UGR	DIM.: 295*1195	SERIAL No.:
MFR.: JT	SUR.:0.295*1.195	Shielding Angle:



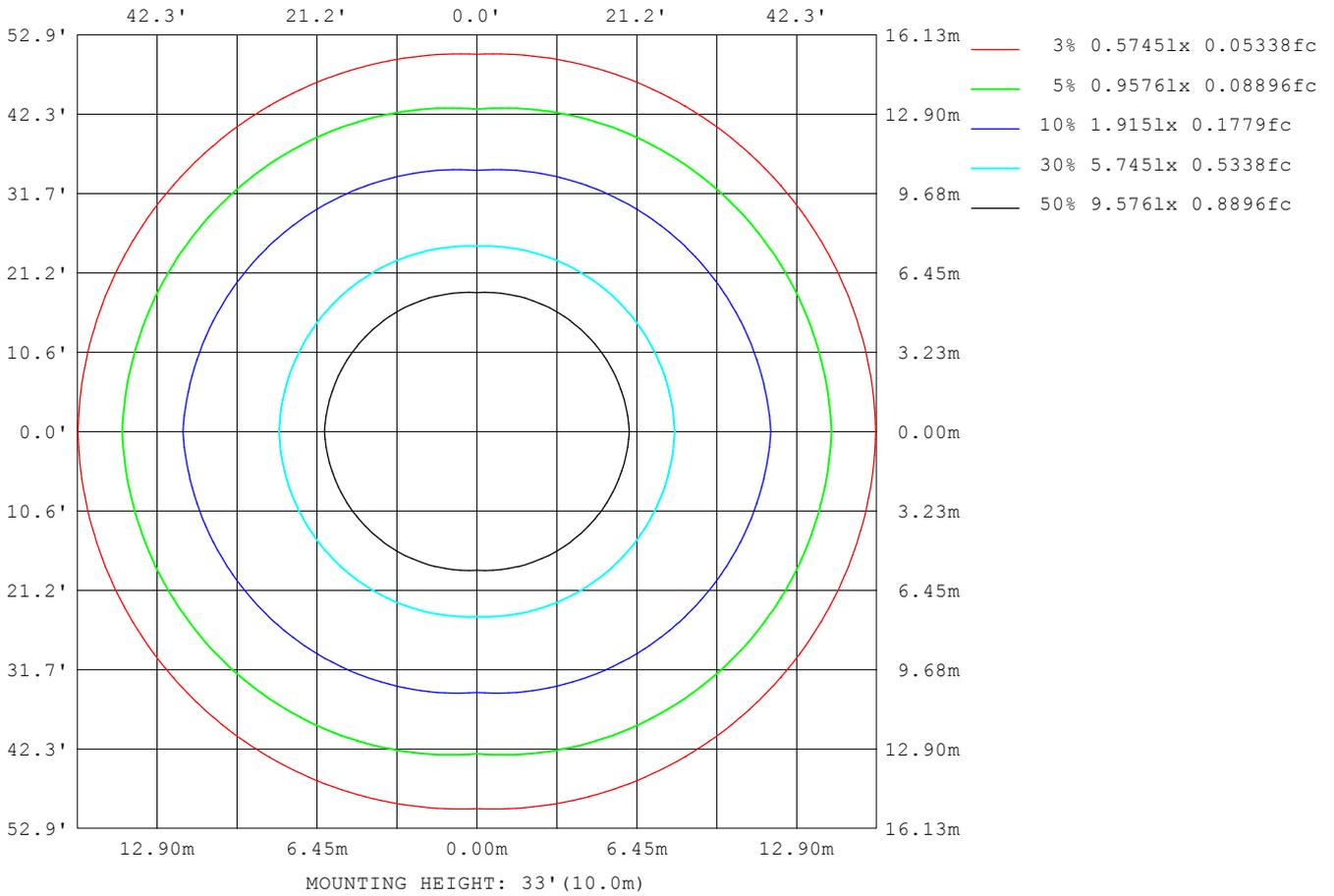
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:221.9V I:0.1174A P:26.05W PF:0.9584 Lamp Flux:3773.41x1 lm		
NAME: 3012M	TYPE:LED	WEIGHT:
SPEC.:3012M-140LM/W-4000K-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:221.9V I:0.1174A P:26.05W PF:0.9584 Lamp Flux:3773.41x1 lm		
NAME: 3012M	TYPE:LED	WEIGHT:
SPEC.:3012M-140LM/W-4000K-UGR	DIM.: 295*1195	SERIAL No.:
MFR.: JT	SUR.:0.295*1.195	Shielding Angle:

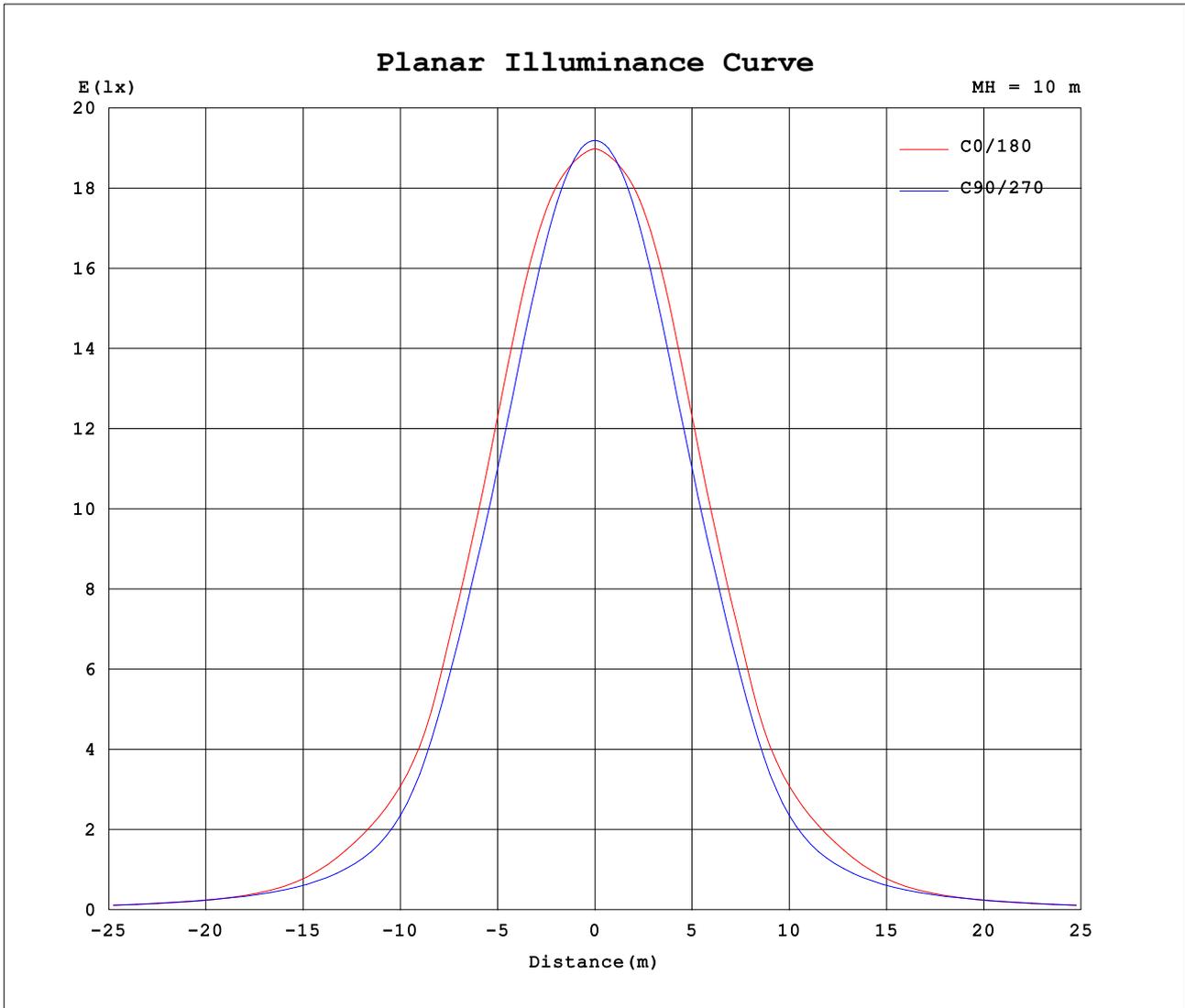
AvgL	cd/m2
L_0~180 (65) av	1711
L_0~180 (75) av	1645
L_0~180 (85) av	2059
L_90~270 (65) av	1810
L_90~270 (75) av	1725
L_90~270 (85) av	1713
L_45 (65) av	1773
L_45 (75) av	1695
L_45 (85) av	1843

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:221.9V I:0.1174A P:26.05W PF:0.9584 Lamp Flux:3773.41x1 lm		
NAME: 3012M	TYPE:LED	WEIGHT:
SPEC.:3012M-140LM/W-4000K-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	1899	1919	1899	1919															
5	1897	1909	1897	1909															
10	1909	1875	1909	1875															
15	1911	1812	1911	1812															
20	1869	1714	1869	1714															
25	1764	1584	1764	1584															
30	1606	1430	1606	1430															
35	1407	1229	1407	1229															
40	1108	949	1108	949															
45	874	667	874	667															
50	711	488	711	488															
55	511	384	511	384															
60	339	310	339	310															
65	253	268	253	268															
70	198	196	198	196															
75	149	156	149	156															
80	126	97.4	126	97.4															
85	62.8	52.2	62.8	52.2															
90	1.81	1.35	1.81	1.35															
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	0.01	0.14	0.01	0.14															
130	0.24	0.33	0.24	0.33															
135	0.47	0.55	0.47	0.55															
140	0.70	0.76	0.70	0.76															
145	0.88	0.96	0.88	0.96															
150	1.08	1.17	1.08	1.17															
155	1.28	1.38	1.28	1.38															
160	1.51	1.60	1.51	1.60															
165	1.74	1.79	1.74	1.79															
170	1.98	1.94	1.98	1.94															
175	2.18	2.06	2.18	2.06															
180	2.26	2.12	2.26	2.12															

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: