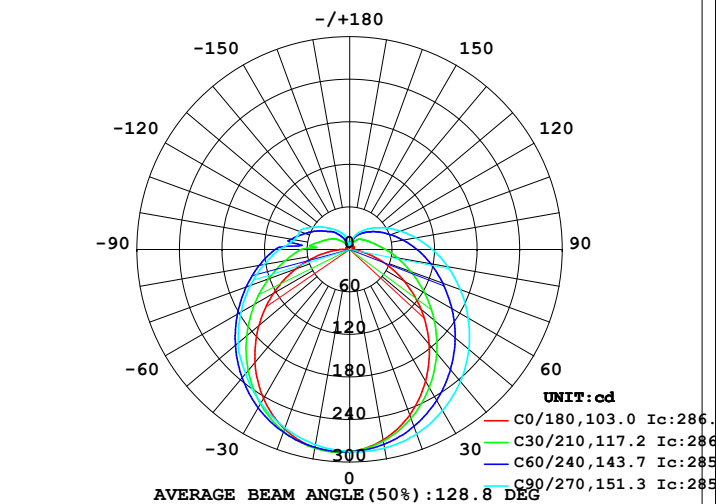


## LUMINAIRE PHOTOMETRIC TEST REPORT

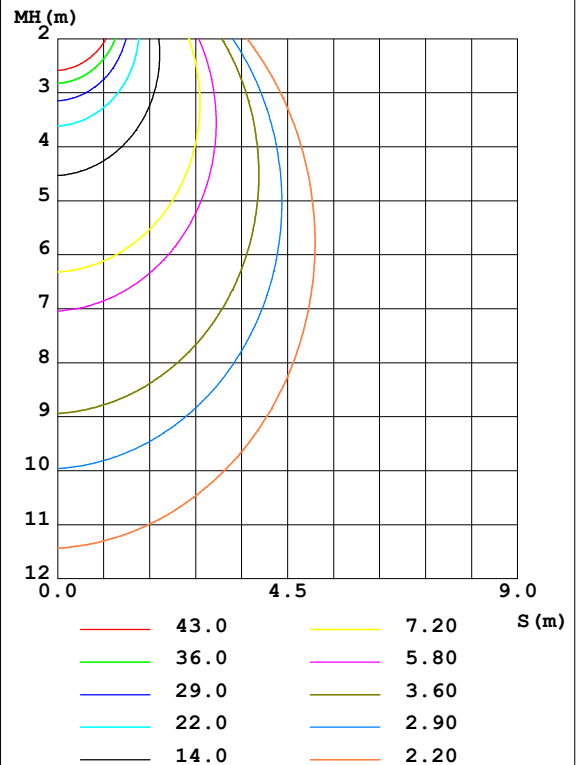
Test:U:48.00V I:0.2149A P:10.32W PF:1.000 Freq:50.00Hz Lamp Flux:1233.61x1 lm		
NAME: M20-T44006-12G40-120D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:602*27.7	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 119.59 lm/W			
MODEL	4000K CRI90	I <sub>max</sub> (cd)	286.4	S/MH (C0/180)	1.26
NOMINAL POWER (W)	12	LOR (%)	100.0	S/MH (C90/270)	1.31
RATED VOLTAGE (V)	226	TOTAL FLUX (lm)	1233.6	η UP, DN (C0-180)	9.2, 39.8
NOMINAL FLUX (lm)	1233.61	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	9.4, 41.7
LAMPS INSIDE	1	η up (%)	18.6	CIBSE SHR NOM	1.50
TEST VOLTAGE (V)	225.1	η down (%)	81.4	CIBSE SHR MAX	1.50

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT: lx)



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: ZR  
 Test Date: 2021-08-18

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.354  
 Humidity: 65.0%  
 Test Distance: 8.402m [K=1.0000]  
 Remarks:

## ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	272.7	276.3	284.4	281.8	283.9	284.3	279.5	278.2	0- 10	26.98	26.98	2.19,2.19
20	248.3	258.9	276.6	268.6	269.3	274.5	267.9	261.9	10- 20	77.38	104.4	8.46,8.46
30	214.3	234.4	262.3	246.8	243.0	256.4	250.5	237.9	20- 30	117.8	222.2	18,18
40	174.4	205.4	242.9	218.6	207.9	231.8	228.7	208.7	30- 40	143.9	366.1	29.7,29.7
50	131.5	175.0	219.3	187.1	167.3	203.0	205.3	176.9	40- 50	154.3	520.4	42.2,42.2
60	88.28	144.7	193.0	154.9	124.3	172.6	177.1	145.4	50- 60	149.8	670.2	54.3,54.3
70	47.26	117.2	166.1	124.4	81.28	142.9	149.2	116.3	60- 70	134.1	804.3	65.2,65.2
80	14.87	94.04	140.4	97.83	41.20	115.6	122.5	91.15	70- 80	111.8	916.2	74.3,74.3
90	4.812	74.84	116.6	76.25	11.81	91.50	98.89	70.14	80- 90	88.54	1005	81.4,81.4
100	4.241	59.38	95.01	59.15	5.213	71.13	79.86	53.93	90-100	65.38	1070	86.7,86.7
110	4.810	47.50	76.42	46.40	5.449	55.50	75.26	42.40	100-110	52.11	1122	91,91
120	5.333	38.43	60.85	37.21	5.459	43.24	62.53	33.97	110-120	39.87	1162	94.2,94.2
130	5.902	31.27	47.95	28.60	5.590	33.29	49.02	27.64	120-130	29.08	1191	96.6,96.6
140	6.446	25.42	37.16	20.71	5.872	22.20	37.91	22.90	130-140	19.75	1211	98.2,98.2
150	7.077	20.00	28.21	14.94	6.269	13.33	28.92	18.82	140-150	12.31	1223	99.2,99.2
160	7.902	12.74	20.12	11.15	6.913	7.913	20.17	13.65	150-160	6.704	1230	99.7,99.7
170	9.083	9.747	9.925	9.388	8.589	7.084	7.609	9.488	160-170	2.871	1233	99.9,99.9
180	9.742	9.401	7.886	9.434	9.758	9.365	7.996	9.392	170-180	0.8267	1234	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 442.91 lm

%lum = 35.9%

%lamp = 35.9%

Conical surface Flux(120deg): 670.21 lm

%lum = 54.3%

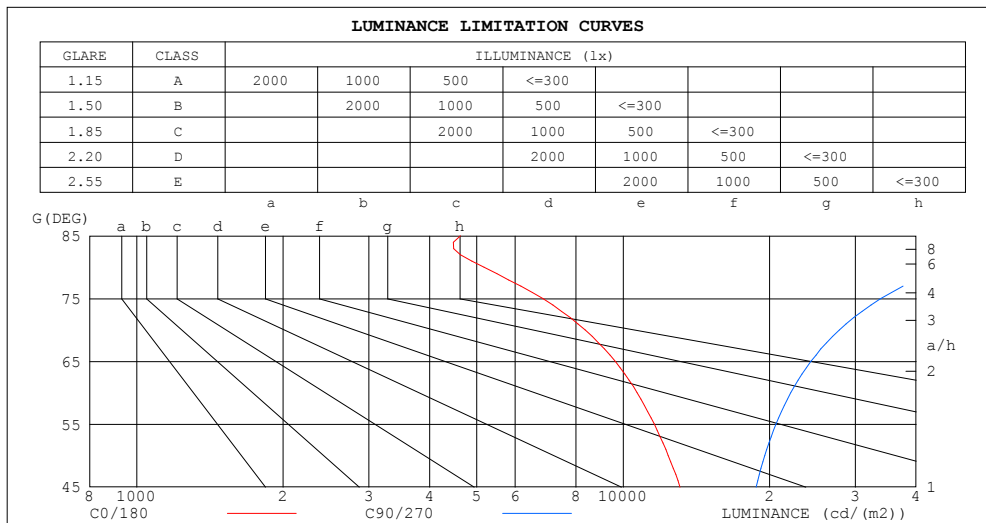
%lamp = 54.3%

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:ZR  
 Test Date:2021-08-18

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.354  
 Humidity:65.0%  
 Test Distance:8.402m [K=1.0000]  
 Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:48.00V I:0.2149A P:10.32W PF:1.000 Freq:50.00Hz Lamp Flux:1233.61x1 lm		
NAME: M20-T44006-12G40-120D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:602*27.7	Shielding Angle:



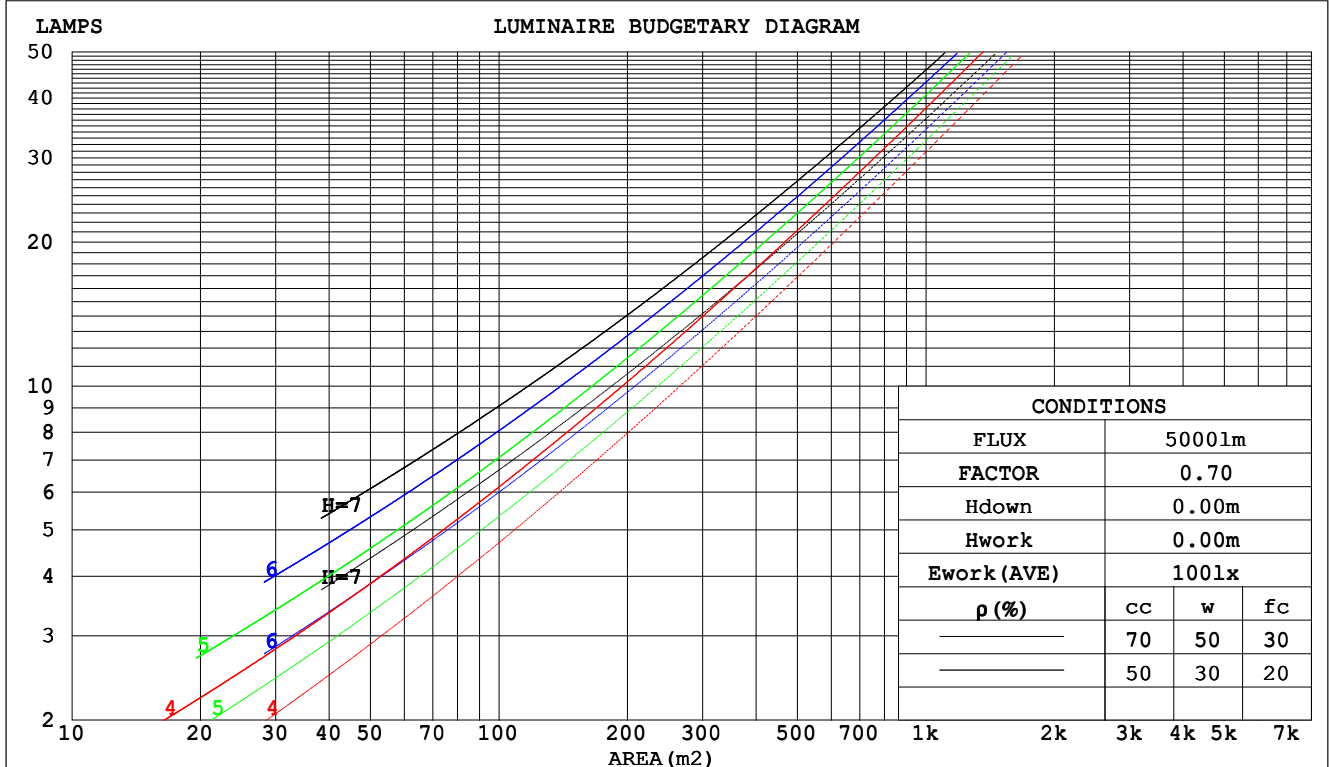
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZR  
Test Date:2021-08-18

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.354  
Humidity:65.0%  
Test Distance:8.402m [K=1.0000]  
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:48.00V I:0.2149A P:10.32W PF:1.000 Freq:50.00Hz Lamp Flux:1233.61x1 lm		
NAME: M20-T44006-12G40-120D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:602*27.7	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						Coefficients of Utilization(CU)									
0.0	1.15	1.15	1.15	1.10	1.10	1.10	1.01	1.01	1.01	.93	.93	.93	.85	.85	.85	.81
1.0	.96	.91	.86	.92	.87	.83	.84	.80	.77	.77	.74	.71	.70	.68	.66	.62
2.0	.82	.74	.68	.79	.72	.66	.72	.66	.61	.66	.61	.57	.60	.57	.53	.50
3.0	.71	.63	.55	.68	.60	.54	.63	.56	.50	.57	.52	.47	.53	.48	.44	.41
4.0	.63	.53	.46	.60	.52	.45	.55	.48	.42	.51	.45	.40	.47	.42	.37	.34
5.0	.56	.46	.39	.54	.45	.38	.49	.42	.36	.45	.39	.34	.42	.36	.32	.29
6.0	.50	.41	.34	.48	.39	.33	.44	.37	.31	.41	.35	.30	.38	.32	.28	.26
7.0	.45	.36	.30	.43	.35	.29	.40	.33	.28	.37	.31	.26	.34	.29	.25	.22
8.0	.41	.32	.26	.40	.31	.26	.37	.30	.25	.34	.28	.23	.32	.26	.22	.20
9.0	.38	.29	.24	.36	.28	.23	.34	.27	.22	.31	.25	.21	.29	.24	.20	.18
10.0	.35	.27	.21	.33	.26	.21	.31	.24	.20	.29	.23	.19	.27	.22	.18	.16



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:ZR  
 Test Date:2021-08-18

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.354  
 Humidity:65.0%  
 Test Distance:8.402m [K=1.0000]  
 Remarks:

### WEC AND CCEC

Test:U:48.00V I:0.2149A P:10.32W PF:1.000 Freq:50.00Hz Lamp Flux:1233.61x1 lm					
NAME: M20-T44006-12G40-120D			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.:			SUR.:602*27.7		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	.378	.215	.068	.365	.208	.066	.341	.196	.063	.319	.184	.059	.299	.173	.056	
2.0	.328	.180	.055	.316	.174	.054	.295	.164	.051	.275	.154	.048	.256	.145	.046	
3.0	.292	.155	.047	.281	.151	.045	.262	.142	.043	.244	.133	.041	.227	.125	.039	
4.0	.263	.137	.040	.254	.133	.039	.236	.125	.037	.219	.118	.036	.204	.111	.034	
5.0	.240	.122	.035	.231	.119	.035	.215	.112	.033	.200	.105	.031	.185	.099	.030	
6.0	.220	.110	.032	.212	.107	.031	.197	.101	.029	.183	.095	.028	.170	.090	.027	
7.0	.203	.100	.028	.196	.097	.028	.182	.092	.027	.169	.087	.025	.158	.082	.024	
8.0	.188	.092	.026	.182	.089	.025	.169	.085	.024	.158	.080	.023	.147	.075	.022	
9.0	.175	.085	.024	.169	.083	.023	.158	.078	.022	.147	.074	.021	.137	.070	.020	
10.0	.164	.079	.022	.159	.077	.021	.148	.073	.020	.138	.069	.020	.129	.065	.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	.332	.332	.332	.284	.284	.284	.194	.194	.194	.111	.111	.111	.036	.036	.036	
1.0	.328	.298	.272	.280	.256	.234	.192	.176	.162	.110	.102	.094	.035	.033	.030	
2.0	.321	.275	.237	.275	.237	.205	.188	.164	.143	.109	.095	.084	.035	.031	.027	
3.0	.313	.259	.215	.268	.223	.187	.184	.155	.131	.106	.091	.077	.034	.029	.025	
4.0	.305	.246	.201	.262	.213	.175	.180	.148	.123	.104	.087	.073	.034	.028	.024	
5.0	.298	.236	.191	.256	.205	.166	.176	.143	.117	.102	.084	.070	.033	.027	.023	
6.0	.290	.228	.184	.249	.198	.160	.172	.138	.113	.100	.081	.067	.032	.027	.022	
7.0	.283	.222	.179	.244	.192	.156	.168	.135	.110	.098	.079	.066	.032	.026	.022	
8.0	.276	.216	.175	.238	.188	.152	.165	.132	.108	.096	.078	.064	.031	.025	.021	
9.0	.270	.211	.172	.233	.184	.150	.161	.129	.106	.094	.076	.063	.030	.025	.021	
10.0	.264	.207	.169	.228	.180	.148	.158	.127	.105	.092	.075	.063	.030	.025	.021	

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZR  
Test Date:2021-08-18

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.354  
Humidity:65.0%  
Test Distance:8.402m [K=1.0000]  
Remarks:

UGR(Unified Glare Rating) Table

Test:U:48.00V I:0.2149A P:10.32W PF:1.000 Freq:50.00Hz Lamp Flux:1233.61x1 lm											
NAME: M20-T44006-12G40-120D						TYPE:		WEIGHT:			
SPEC.:						DIM.:		SERIAL No.:			
MFR.:						SUR.:602*27.7		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		18.9	20.3	19.4	20.8	21.3	21.8	23.2	22.3	23.7	24.2
	3H	20.1	21.4	20.7	21.9	22.5	24.4	25.7	25.0	26.2	26.8
	4H	20.6	21.8	21.2	22.3	23.0	25.9	27.0	26.4	27.6	28.2
	6H	20.9	22.0	21.5	22.6	23.2	27.4	28.6	28.0	29.1	29.8
	8H	21.0	22.0	21.6	22.6	23.3	28.3	29.4	28.9	30.0	30.7
	12H	21.0	22.0	21.6	22.6	23.3	29.3	30.4	29.9	31.0	31.7
4H	2H	20.2	21.4	20.8	21.9	22.6	22.3	23.5	22.8	24.0	24.6
	3H	21.8	22.8	22.4	23.4	24.1	25.1	26.2	25.8	26.8	27.5
	4H	22.5	23.4	23.1	24.0	24.8	26.8	27.8	27.4	28.4	29.1
	6H	23.0	23.8	23.6	24.5	25.2	28.6	29.5	29.3	30.1	30.9
	8H	23.2	24.0	23.8	24.6	25.4	29.7	30.5	30.3	31.1	31.9
	12H	23.3	24.0	24.0	24.7	25.5	30.8	31.6	31.5	32.3	33.0
8H	4H	23.7	24.5	24.4	25.2	26.0	27.1	27.9	27.8	28.6	29.3
	6H	24.7	25.4	25.4	26.1	26.9	29.3	29.9	30.0	30.6	31.4
	8H	25.2	25.8	25.9	26.5	27.3	30.5	31.1	31.2	31.8	32.7
	12H	25.5	26.1	26.3	26.8	27.6	32.0	32.5	32.7	33.2	34.1
12H	4H	24.1	24.9	24.8	25.6	26.3	27.1	27.9	27.8	28.5	29.3
	6H	25.4	26.0	26.1	26.7	27.6	29.4	30.0	30.1	30.7	31.5
	8H	26.1	26.6	26.8	27.3	28.2	30.7	31.3	31.5	32.0	32.8
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.4					

CIE Pub.117, 1234 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.7)

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZR  
Test Date:2021-08-18

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.354  
Humidity:65.0%  
Test Distance:8.402m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:48.00V I:0.2149A P:10.32W PF:1.000 Freq:50.00Hz Lamp Flux:1233.61x1 lm		
NAME: M20-T44006-12G40-120D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:602*27.7	Shielding Angle:

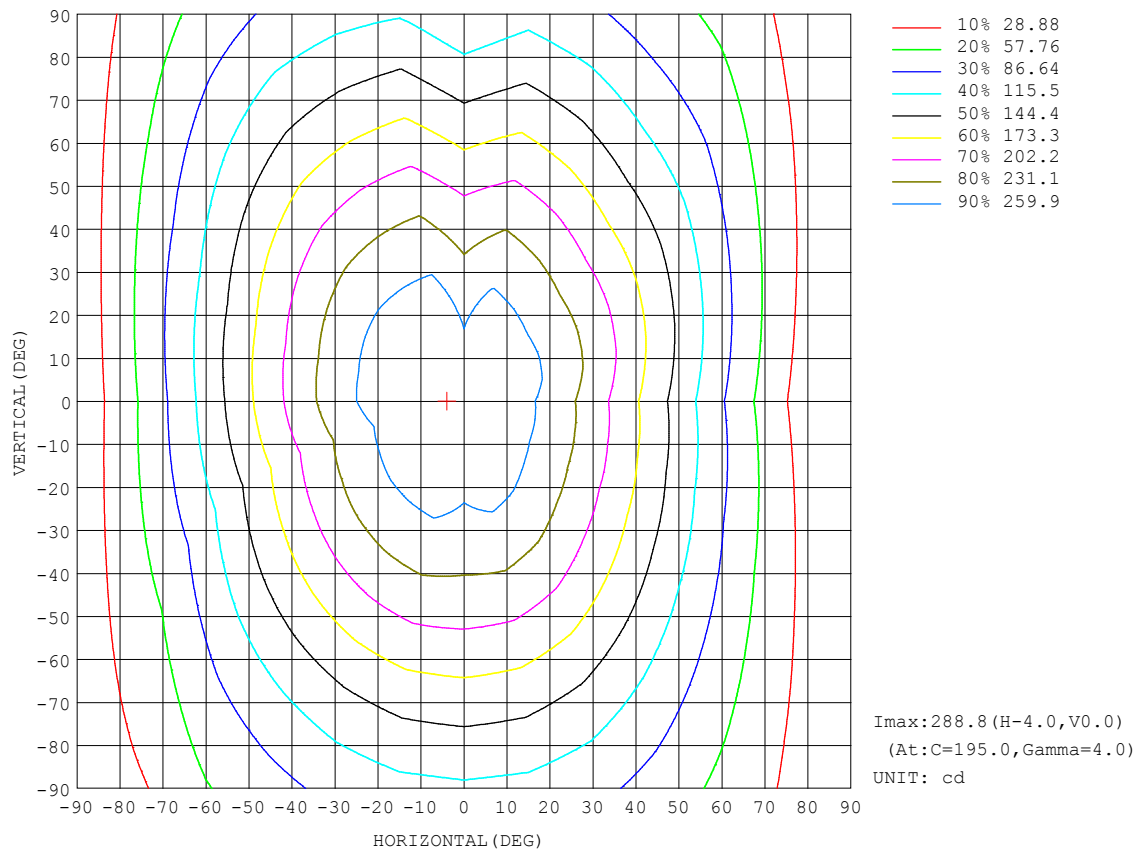
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	48	36	29	47	36	29	45	35	28	21
0.80	58	45	37	56	44	36	53	42	35	28
1.00	65	52	44	63	51	44	60	52	42	34
1.25	72	60	51	70	58	50	65	56	49	39
1.50	77	65	57	74	63	56	69	60	53	43
2.00	84	73	65	81	71	64	75	67	61	49
2.50	89	79	71	85	76	69	79	72	66	53
3.00	92	83	76	89	81	74	82	75	70	56
4.00	97	89	83	93	86	80	86	80	75	61
5.00	100	93	87	96	90	85	88	83	79	64
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZR  
Test Date:2021-08-18

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.354  
Humidity:65.0%  
Test Distance:8.402m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

Test:U:48.00V I:0.2149A P:10.32W PF:1.000 Freq:50.00Hz Lamp Flux:1233.61x1 lm		
NAME: M20-T44006-12G40-120D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:602*27.7	Shielding Angle:



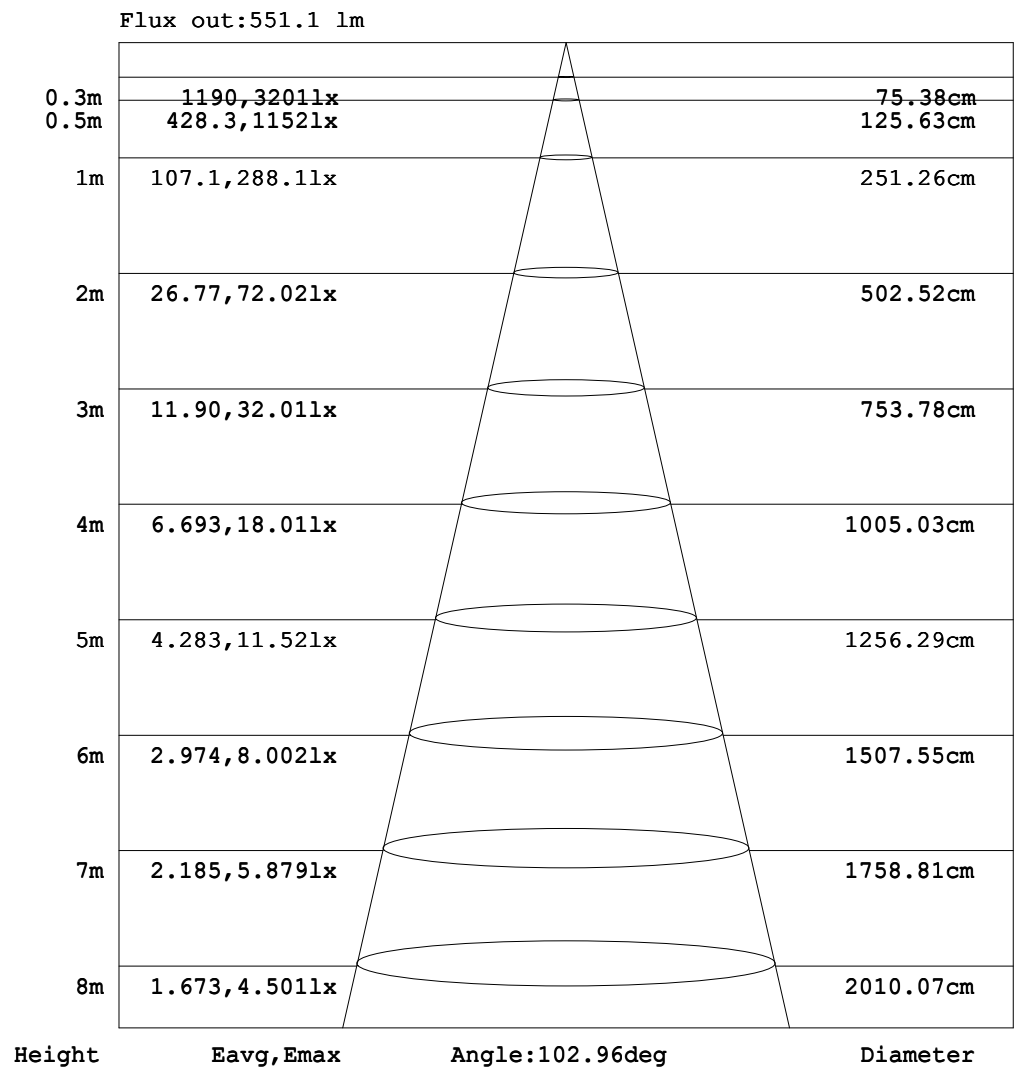
C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZR  
Test Date:2021-08-18

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.354  
Humidity:65.0%  
Test Distance:8.402m [K=1.0000]  
Remarks:



### AAI Figure

Test:U:48.00V I:0.2149A P:10.32W PF:1.000 Freq:50.00Hz Lamp Flux:1233.61x1 lm		
NAME: M20-T44006-12G40-120D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:602*27.7	Shielding Angle:



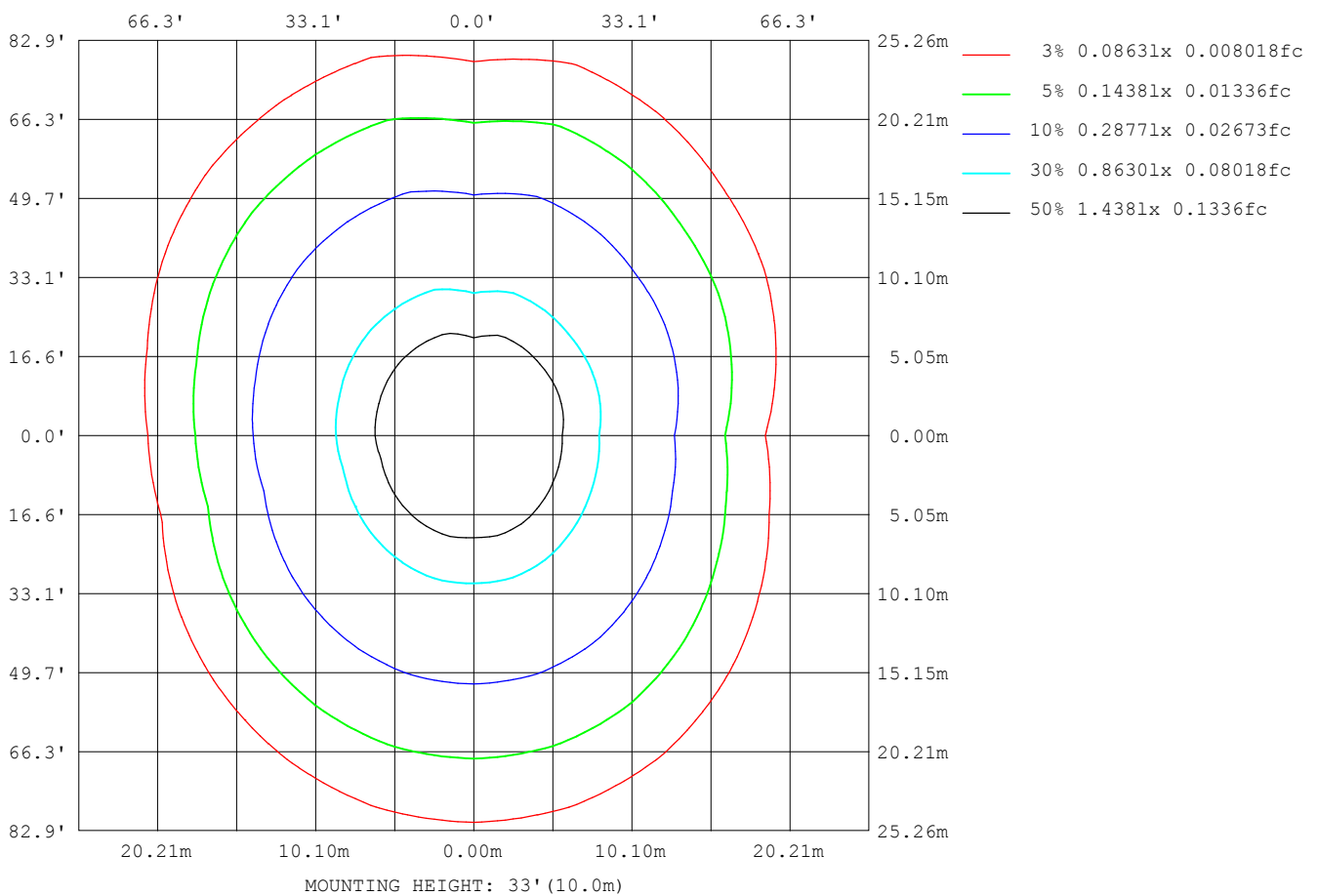
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZR  
Test Date:2021-08-18

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.354  
Humidity:65.0%  
Test Distance:8.402m [K=1.0000]  
Remarks:

## ISOLUX DIAGRAM

Test:U:48.00V I:0.2149A P:10.32W PF:1.000 Freq:50.00Hz Lamp Flux:1233.61x1 lm		
NAME: M20-T44006-12G40-120D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:602*27.7	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: ZR  
 Test Date: 2021-08-18

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.354  
 Humidity: 65.0%  
 Test Distance: 8.402m [K=1.0000]  
 Remarks:

## LED Avg.L Report

Test:U:48.00V I:0.2149A P:10.32W PF:1.000 Freq:50.00Hz Lamp Flux:1233.61x1 lm		
NAME: M20-T44006-12G40-120D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:602*27.7	Shielding Angle:

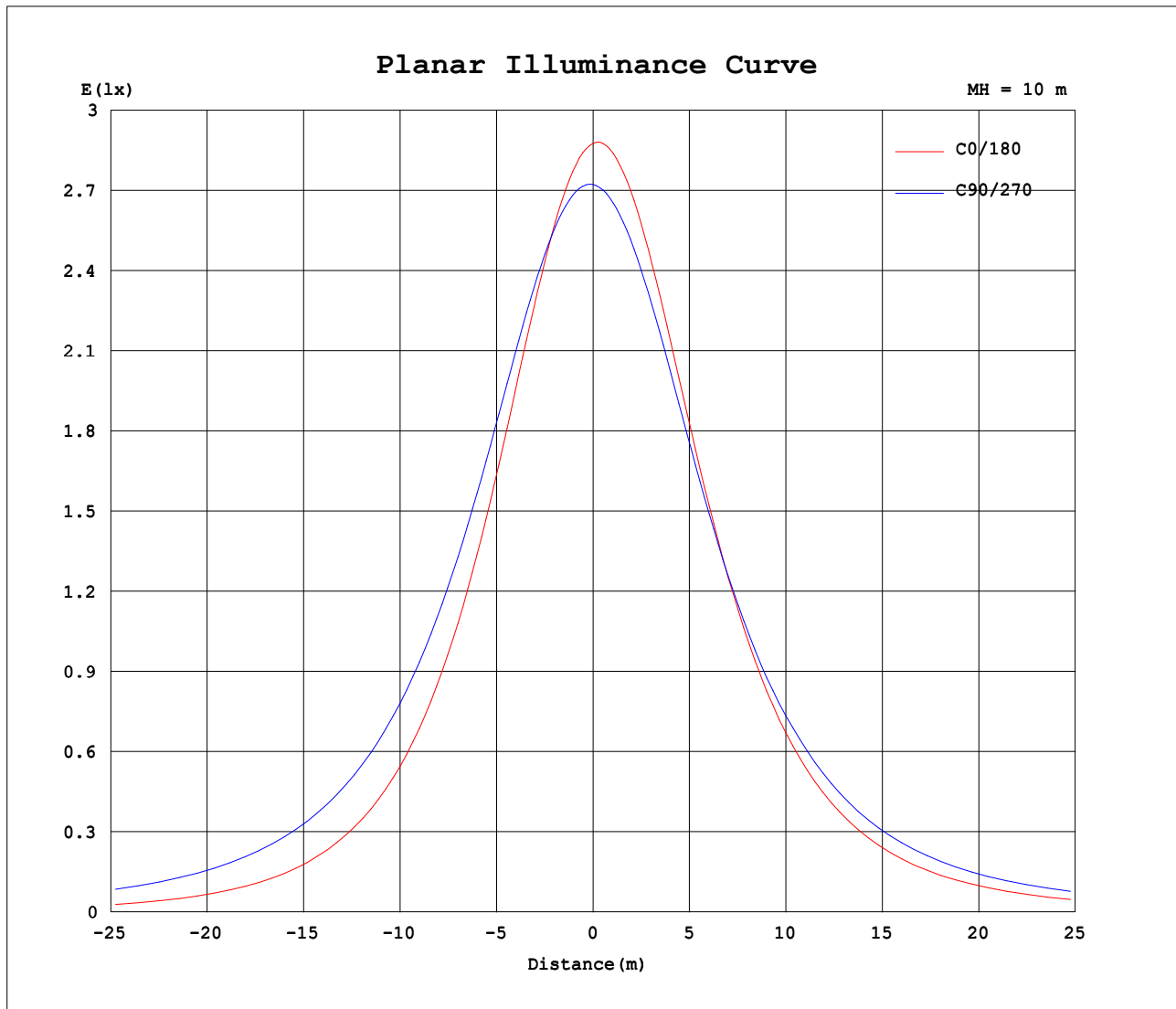
AvgL	cd/m2
L_0~180 (65) av	12059
L_0~180 (75) av	10422
L_0~180 (85) av	10606
L_90~270 (65) av	24307
L_90~270 (75) av	33432
L_90~270 (85) av	82127
L_45 (65) av	19792
L_45 (75) av	25936
L_45 (85) av	60842

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:ZR  
 Test Date:2021-08-18

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.354  
 Humidity:65.0%  
 Test Distance:8.402m [K=1.0000]  
 Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: ZR  
Test Date: 2021-08-18

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.354  
Humidity: 65.0%  
Test Distance: 8.402m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:48.00V I:0.2149A P:10.32W PF:1.000 Freq:50.00Hz Lamp Flux:1233.61x1 lm		
NAME: M20-T44006-12G40-120D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:602*27.7	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285	285
5	280	281	281	282	283	284	286	284	285	285	284	284	286	286	286	286	285	285	283
10	273	273	274	276	279	281	284	282	282	282	281	280	284	284	285	284	283	283	279
15	262	263	265	269	273	276	281	278	277	276	274	273	278	279	280	281	280	279	274
20	248	250	253	259	265	270	277	272	271	269	265	263	269	270	273	274	274	274	268
25	232	235	240	247	256	262	270	264	262	259	254	250	258	259	264	266	267	268	260
30	214	218	225	234	245	253	262	255	252	247	240	235	243	246	252	256	258	260	251
35	195	200	208	220	234	242	253	245	240	233	225	219	226	230	238	245	248	250	240
40	174	180	191	205	221	231	243	234	227	219	209	200	208	213	223	232	236	240	229
45	153	160	173	190	208	219	232	222	214	203	191	181	188	194	207	218	224	228	218
50	131	140	156	175	194	206	219	209	200	187	173	160	167	175	190	203	210	216	205
55	110	120	139	160	180	193	206	195	185	171	156	140	146	155	172	188	197	203	191
60	88.3	101	122	145	166	180	193	182	171	155	138	120	124	136	155	173	183	190	177
65	67.3	83.2	106	131	153	167	179	168	156	139	121	100	103	116	138	157	169	177	163
70	47.3	66.5	91.8	117	140	154	166	155	142	124	105	81.6	81.3	97.7	122	143	156	164	149
75	29.3	52.0	79.1	105	128	142	153	142	129	111	89.9	64.2	60.7	80.2	107	129	142	151	136
80	14.9	40.1	68.1	94.0	116	130	140	130	117	97.8	76.7	48.9	41.2	64.1	92.6	116	129	138	123
85	6.66	31.2	58.8	84.0	105	118	128	118	106	86.5	65.5	36.5	24.2	50.3	79.7	103	117	126	110
90	4.81	25.0	50.9	74.8	95.0	107	117	107	94.9	76.2	55.6	25.5	11.8	39.1	68.3	91.5	105	108	98.9
95	4.63	20.9	44.3	66.7	85.5	97.3	105	91.8	66.6	47.5	47.6	21.5	5.50	30.6	56.7	61.7	67.9	81.1	87.6
100	4.24	18.4	38.9	59.4	76.8	87.8	95.0	61.4	66.3	59.1	41.3	18.0	5.21	24.9	50.1	71.1	84.2	91.7	79.9
105	4.56	16.8	34.6	53.0	68.8	78.9	85.4	68.4	67.1	52.3	36.2	16.1	5.27	21.2	43.5	62.7	75.0	82.2	75.9
110	4.81	15.8	31.2	47.5	61.6	70.7	76.4	62.4	60.3	46.4	32.2	15.0	5.45	18.7	38.2	55.5	66.8	73.4	75.3
115	5.06	15.2	28.4	42.7	55.1	63.1	68.2	57.7	53.8	41.5	29.1	14.4	5.47	16.3	33.8	49.2	59.5	65.5	70.2
120	5.33	14.6	26.1	38.4	49.3	56.4	60.8	54.1	48.1	37.2	26.5	13.9	5.46	14.5	30.1	43.2	52.4	58.3	62.5
125	5.60	13.4	24.1	34.7	44.0	50.2	54.1	49.5	42.9	33.3	23.6	12.9	5.51	12.8	26.4	38.0	45.4	51.7	55.5
130	5.90	11.6	22.3	31.3	39.2	44.6	48.0	44.0	38.2	28.6	20.6	11.7	5.59	10.8	21.8	33.3	39.6	45.6	49.0
135	6.15	10.2	20.6	28.2	34.9	39.5	42.3	38.9	33.6	24.5	17.9	10.4	5.72	9.16	17.5	27.8	35.9	39.2	43.2
140	6.45	9.42	18.9	25.4	31.0	34.8	37.2	34.4	27.6	20.7	15.7	9.80	5.87	7.53	14.1	22.2	30.8	33.8	37.9
145	6.74	8.74	15.9	22.9	27.4	30.5	32.5	30.2	22.5	17.7	13.7	9.12	6.05	6.91	11.5	17.1	24.9	29.3	33.2
150	7.08	8.46	13.1	20.0	24.1	26.7	28.2	23.9	18.6	14.9	11.8	8.27	6.27	6.55	9.13	13.3	19.3	25.4	28.9
155	7.35	8.39	11.4	15.8	20.6	23.0	24.3	18.7	15.1	12.5	10.7	7.39	6.51	6.39	7.60	10.3	14.3	19.8	25.0
160	7.90	8.38	10.1	12.7	15.6	18.4	20.1	13.9	12.1	11.1	9.46	6.70	6.91	6.38	6.90	7.91	9.76	12.8	20.2
165	8.52	8.54	9.61	10.7	12.2	13.6	11.5	11.0	10.7	10.1	8.28	6.79	7.77	7.32	6.92	6.99	7.53	7.88	14.2
170	9.08	9.09	9.40	9.75	10.1	10.1	9.92	9.74	9.60	9.39	7.58	7.19	8.59	8.23	7.99	7.08	6.71	6.81	7.61
175	9.51	9.55	9.56	9.63	9.46	8.52	8.78	8.62	9.22	9.30	7.60	7.90	9.28	9.11	8.95	8.36	7.03	6.80	6.87
180	9.74	9.74	9.62	9.40	8.85	7.74	7.89	8.76	9.40	9.43	8.56	8.59	9.76	9.66	9.64	9.36	8.85	7.70	8.00

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZR  
Test Date:2021-08-18

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.354  
Humidity:65.0%  
Test Distance:8.402m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:48.00V I:0.2149A P:10.32W PF:1.000 Freq:50.00Hz Lamp Flux:1233.61x1 lm		
NAME: M20-T44006-12G40-120D	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:602*27.7	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	285	300	315	330	345														
0	285	285	285	285	285														
5	284	284	283	283	282														
10	281	280	278	278	277														
15	277	274	271	270	268														
20	271	267	262	260	256														
25	263	257	251	247	242														
30	254	247	238	233	226														
35	244	235	224	217	208														
40	232	222	209	200	189														
45	220	208	193	182	170														
50	208	194	177	165	149														
55	195	180	161	147	129														
60	181	166	145	130	109														
65	168	152	130	113	90.2														
70	155	139	116	97.6	72.3														
75	143	126	103	83.5	55.9														
80	130	114	91.1	70.9	42.0														
85	118	102	80.1	59.9	31.0														
90	107	91.6	70.1	50.5	23.3														
95	96.2	81.8	61.4	42.9	18.6														
100	86.1	72.7	53.9	37.1	15.9														
105	77.1	64.8	47.7	32.6	14.4														
110	68.9	57.8	42.4	29.0	13.6														
115	61.5	51.6	37.9	26.1	13.0														
120	54.8	46.0	34.0	23.8	12.7														
125	48.7	41.0	30.6	22.0	12.2														
130	43.1	36.5	27.6	20.4	11.2														
135	38.0	32.5	25.1	19.0	10.8														
140	33.5	28.9	22.9	17.6	9.98														
145	29.4	25.8	20.9	15.9	9.56														
150	25.8	23.0	18.8	14.3	9.03														
155	22.5	20.2	15.9	13.0	8.11														
160	18.5	16.1	13.7	11.8	7.26														
165	14.1	12.8	11.2	10.2	6.86														
170	10.5	10.2	9.49	8.21	7.23														
175	8.78	9.20	9.04	7.90	8.08														
180	8.79	9.39	9.39	8.57	8.61														

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:ZR  
Test Date:2021-08-18

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.354  
Humidity:65.0%  
Test Distance:8.402m [K=1.0000]  
Remarks: