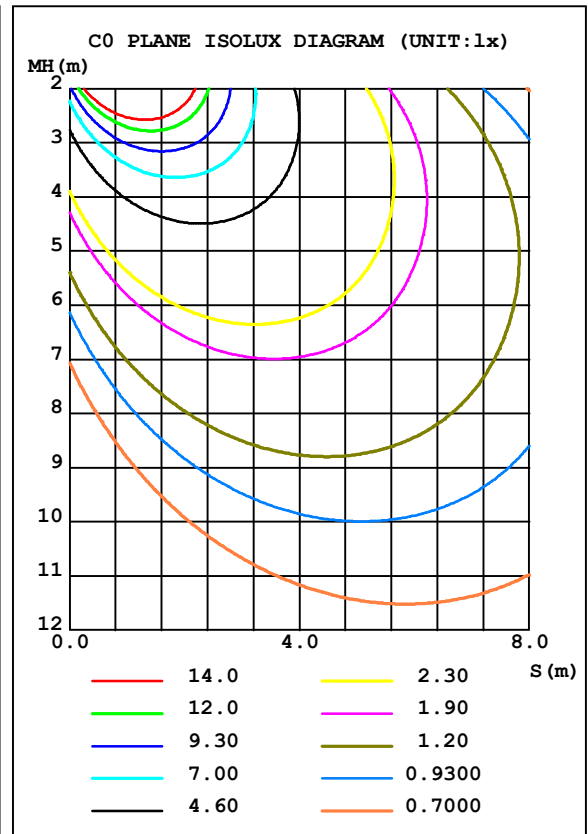
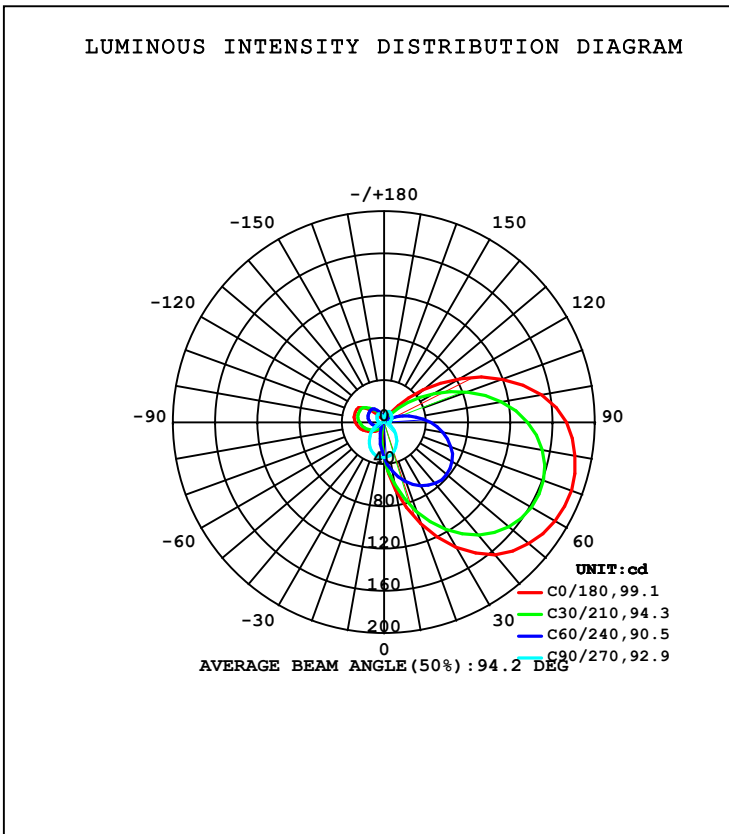


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:230.47V I:0.0578A P:12.398W PF:0.9313 Freq:49.99Hz Lamp Flux:556.56x1 lm		
NAME: 5651-3000	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ATC MIDDLE EAST FZCO	SUR.:0.01	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	5651-3000	I _{max} (cd)	196.4	S/MH (C0/180)	0.25
NOMINAL POWER (W)	13	LOR (%)	100.0	S/MH (C90/270)	1.21
RATED VOLTAGE (V)	0	TOTAL FLUX (lm)	556.56	η UP, DN (C0-180)	17.5, 35.0
NOMINAL FLUX (lm)	556.56	CIE CLASS	SEMI-D.	η UP, DN (C180-360)	16.2, 31.4
LAMPS INSIDE	1	η up (%)	33.7	CIBSE SHR NOM	0.00
TEST VOLTAGE (V)	230	η down (%)	66.3	CIBSE SHR MAX	1.15



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2022-06-07

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
 Humidity: 65.0%
 Test Distance: 9.735m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	65.77	54.27	32.24	16.42	12.11	17.30	33.52	55.95	0- 10	3.334	3.334	0.60,0.60
20	102.2	75.73	28.89	6.087	4.461	6.818	31.35	79.71	10- 20	11.07	14.41	2.59,2.59
30	136.8	95.11	24.17	5.365	7.058	4.903	27.49	101.7	20- 30	21.55	35.96	6.46,6.46
40	163.8	110.0	18.71	7.574	10.39	6.858	22.42	119.2	30- 40	34.23	70.19	12.6,12.6
50	179.1	119.0	13.18	10.08	14.09	9.195	16.82	130.5	40- 50	46.78	117.0	21,21
60	187.4	121.5	8.327	12.74	17.95	11.71	11.48	134.7	50- 60	57.08	174.1	31.3,31.3
70	189.3	117.5	5.076	15.46	21.70	14.28	7.105	131.7	60- 70	63.96	238.0	42.8,42.8
80	184.0	107.1	4.405	18.08	24.97	16.72	4.600	121.6	70- 80	66.55	304.6	54.7,54.7
90	172.9	91.27	5.246	20.37	27.44	18.88	4.766	105.0	80- 90	64.47	369.0	66.3,66.3
100	151.5	71.49	6.307	22.13	29.01	20.62	5.775	83.68	90-100	57.73	426.8	76.7,76.7
110	119.9	50.06	7.471	23.23	29.55	21.74	6.900	59.91	100-110	47.16	473.9	85.2,85.2
120	83.52	30.06	8.629	23.53	28.26	22.17	8.058	37.07	110-120	34.83	508.8	91.4,91.4
130	48.31	14.38	9.716	22.34	19.88	21.46	9.222	18.45	120-130	22.79	531.5	95.5,95.5
140	20.80	5.472	10.69	18.17	9.166	18.01	10.27	6.906	130-140	12.85	544.4	97.8,97.8
150	5.533	5.156	11.51	13.72	3.626	13.31	9.645	5.020	140-150	6.665	551.1	99,99
160	4.452	6.611	11.47	10.04	3.014	8.675	6.742	3.601	150-160	3.617	554.7	99.7,99.7
170	3.686	6.152	7.989	2.115	0.6658	3.388	3.503	3.223	160-170	1.588	556.3	99.9,99.9
180	4.596	3.995	0.5433	1.099	4.602	4.008	0.5304	1.083	170-180	0.2949	556.6	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 92.113 lm

%lum = 16.6%

%lamp = 16.6%

Conical surface Flux(120deg): 174.05 lm

%lum = 31.3%

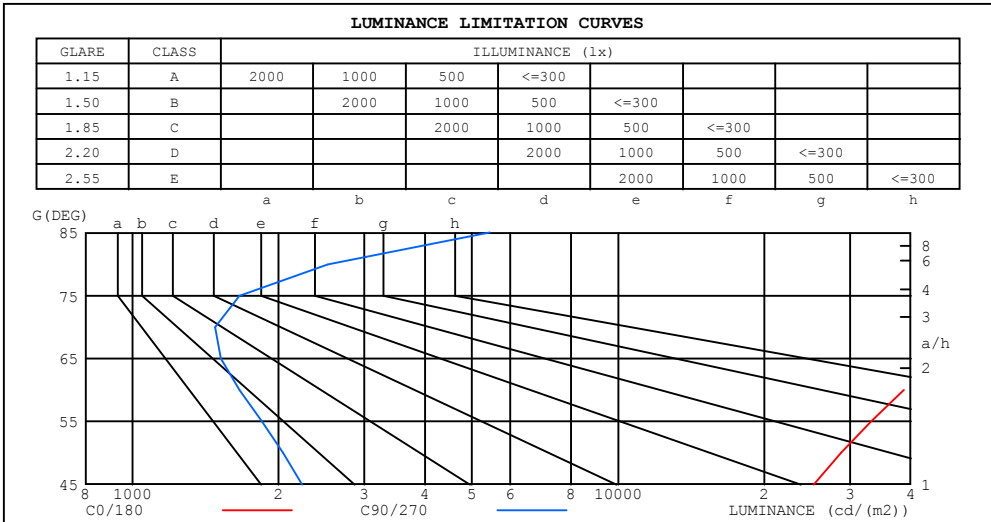
%lamp = 31.3%

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2022-06-07

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:9.735m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.47V I:0.0578A P:12.398W PF:0.9313 Freq:49.99Hz Lamp Flux:556.56x1 lm		
NAME: 5651-3000	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ATC MIDDLE EAST FZCO	SUR.:0.01	Shielding Angle:



LUMINANCE cd/ (m2)		
G (DEG)	C0/180	C90/270
85	212445	5430
80	109539	2525
75	74879	1661
70	57205	1477
65	46290	1520
60	38756	1658
55	33164	1843
50	28803	2041
45	25261	2237

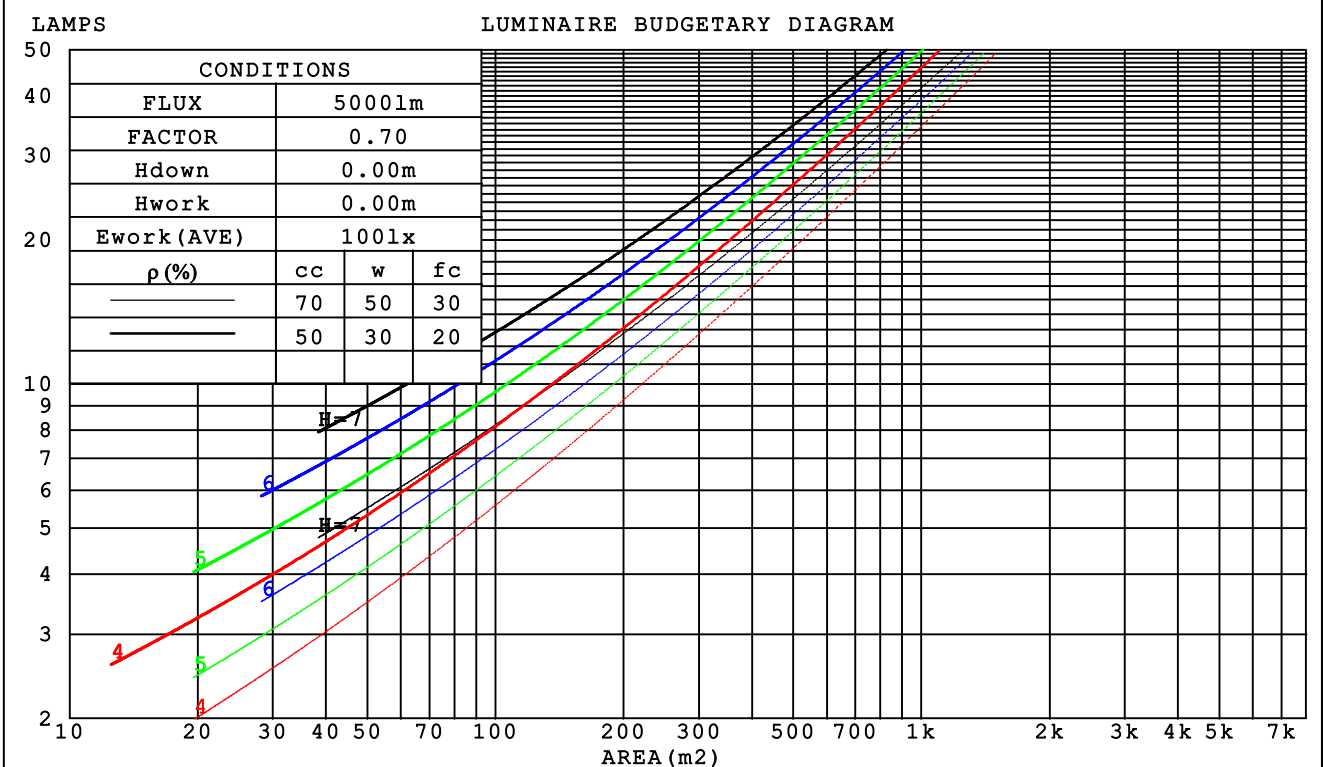
C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2022-06-07

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:9.735m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.47V I:0.0578A P:12.398W PF:0.9313 Freq:49.99Hz Lamp Flux:556.56x1 lm		
NAME: 5651-3000	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ATC MIDDLE EAST FZCO	SUR.:0.01	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	1.11	1.11	1.11	1.05	1.05	1.05	.92	.92	.92	.81	.81	.81	.71	.71	.71	.66
1.0	.89	.82	.77	.83	.77	.72	.72	.68	.64	.62	.59	.56	.53	.51	.48	.44
2.0	.74	.65	.58	.69	.61	.54	.60	.54	.48	.51	.46	.42	.44	.40	.36	.32
3.0	.63	.53	.45	.59	.50	.43	.51	.44	.38	.44	.38	.33	.37	.32	.28	.24
4.0	.55	.44	.37	.51	.42	.35	.44	.36	.30	.38	.31	.26	.32	.27	.23	.19
5.0	.48	.38	.30	.45	.35	.29	.39	.31	.25	.33	.27	.22	.28	.23	.19	.15
6.0	.42	.33	.26	.40	.31	.24	.34	.27	.21	.29	.23	.18	.25	.20	.16	.13
7.0	.38	.28	.22	.35	.27	.21	.31	.23	.18	.26	.20	.16	.22	.17	.13	.11
8.0	.34	.25	.19	.32	.24	.18	.28	.21	.16	.24	.18	.14	.20	.15	.12	.09
9.0	.31	.22	.17	.29	.21	.16	.25	.19	.14	.22	.16	.12	.19	.14	.10	.08
10.0	.28	.20	.15	.27	.19	.14	.23	.17	.12	.20	.15	.11	.17	.12	.09	.07



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2022-06-07

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:9.735m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:230.47V I:0.0578A P:12.398W PF:0.9313 Freq:49.99Hz Lamp Flux:556.56x1 lm		
NAME: 5651-3000	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ATC MIDDLE EAST FZCO	SUR.:0.01	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	.449	.256	.081	.432	.246	.078	.399	.229	.073	.368	.212	.068	.340	.197	.064	
2.0	.372	.204	.063	.356	.196	.060	.326	.181	.056	.298	.167	.052	.272	.154	.049	
3.0	.322	.171	.051	.308	.165	.050	.280	.152	.046	.255	.140	.043	.231	.128	.040	
4.0	.285	.148	.044	.272	.142	.042	.247	.131	.039	.223	.120	.036	.202	.110	.033	
5.0	.256	.130	.038	.244	.125	.036	.221	.115	.034	.199	.105	.031	.180	.096	.029	
6.0	.232	.116	.033	.221	.112	.032	.200	.103	.030	.180	.094	.028	.162	.085	.025	
7.0	.213	.105	.030	.202	.101	.029	.183	.093	.027	.165	.084	.025	.148	.077	.023	
8.0	.196	.096	.027	.187	.092	.026	.169	.084	.024	.152	.077	.022	.136	.070	.020	
9.0	.182	.088	.025	.173	.084	.024	.156	.077	.022	.141	.071	.020	.126	.064	.018	
10.0	.169	.081	.023	.161	.078	.022	.146	.071	.020	.131	.065	.019	.117	.059	.017	

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	.447	.447	.447	.382	.382	.382	.261	.261	.261	.150	.150	.150	.048	.048	.048	
1.0	.449	.414	.382	.384	.355	.329	.263	.244	.227	.151	.141	.132	.048	.046	.043	
2.0	.444	.392	.349	.380	.338	.302	.260	.234	.210	.150	.136	.123	.048	.044	.040	
3.0	.437	.377	.329	.374	.325	.285	.257	.226	.200	.148	.132	.118	.048	.043	.039	
4.0	.429	.365	.316	.368	.315	.275	.253	.220	.193	.146	.129	.114	.047	.042	.038	
5.0	.421	.356	.307	.362	.308	.267	.249	.215	.189	.144	.126	.112	.046	.041	.037	
6.0	.413	.348	.301	.355	.302	.262	.245	.211	.186	.142	.124	.110	.046	.041	.036	
7.0	.406	.342	.297	.349	.296	.259	.241	.208	.183	.140	.122	.109	.045	.040	.036	
8.0	.399	.336	.293	.344	.292	.256	.238	.205	.181	.138	.121	.108	.045	.040	.036	
9.0	.393	.332	.291	.338	.288	.254	.234	.202	.180	.137	.120	.107	.044	.039	.036	
10.0	.387	.328	.289	.333	.285	.252	.231	.200	.179	.135	.118	.107	.044	.039	.035	

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2022-06-07

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:9.735m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.47V I:0.0578A P:12.398W PF:0.9313 Freq:49.99Hz Lamp Flux:556.56x1 lm										
NAME: 5651-3000					TYPE:			WEIGHT:		
SPEC.:					DIM.:			SERIAL No.:		
MFR.: ATC MIDDLE EAST FZCO					SUR.:0.01			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	28.6	29.9	29.3	30.6	31.5	20.3	21.6	21.0	22.3	23.2
3H	32.1	33.3	32.8	34.0	35.0	21.0	22.2	21.8	23.0	23.9
4H	34.0	35.1	34.7	35.9	36.8	21.2	22.4	22.0	23.2	24.1
6H	36.0	37.1	36.8	37.9	38.9	21.3	22.4	22.1	23.2	24.2
8H	37.2	38.2	37.9	39.0	40.0	21.4	22.4	22.1	23.2	24.2
12H	38.4	39.4	39.2	40.2	41.2	21.4	22.4	22.2	23.2	24.2
4H 2H	29.0	30.1	29.7	30.9	31.8	24.3	25.4	25.1	26.2	27.2
3H	32.8	33.8	33.5	34.6	35.6	25.7	26.6	26.4	27.5	28.4
4H	34.9	35.8	35.7	36.6	37.7	26.1	27.0	26.9	27.9	28.9
6H	37.2	38.0	38.0	38.9	39.9	26.4	27.2	27.2	28.0	29.1
8H	38.5	39.3	39.3	40.1	41.2	26.4	27.2	27.2	28.0	29.1
12H	39.9	40.6	40.8	41.5	42.6	26.4	27.1	27.3	28.0	29.1
8H 4H	35.1	35.9	36.0	36.8	37.8	29.3	30.1	30.1	30.9	32.0
6H	37.8	38.5	38.7	39.3	40.4	30.1	30.8	31.0	31.7	32.7
8H	39.3	39.9	40.2	40.8	41.9	30.4	31.0	31.2	31.9	33.0
12H	41.0	41.6	41.9	42.5	43.6	30.5	31.0	31.4	31.9	33.1
12H 4H	35.1	35.8	35.9	36.7	37.8	30.3	31.0	31.2	31.9	33.0
6H	37.9	38.5	38.7	39.3	40.4	31.6	32.2	32.5	33.1	34.2
8H	39.5	40.0	40.4	40.9	42.0	32.1	32.7	33.0	33.6	34.7
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.1 / - 0.1				
2.0H	+ 0.3 / - 0.4					+ 0.2 / - 0.3				

CIE Pub.117, 556.6 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.0)

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2022-06-07

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:9.735m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.47V I:0.0578A P:12.398W PF:0.9313 Freq:49.99Hz Lamp Flux:556.56x1 lm		
NAME: 5651-3000	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ATC MIDDLE EAST FZCO	SUR.:0.01	Shielding Angle:

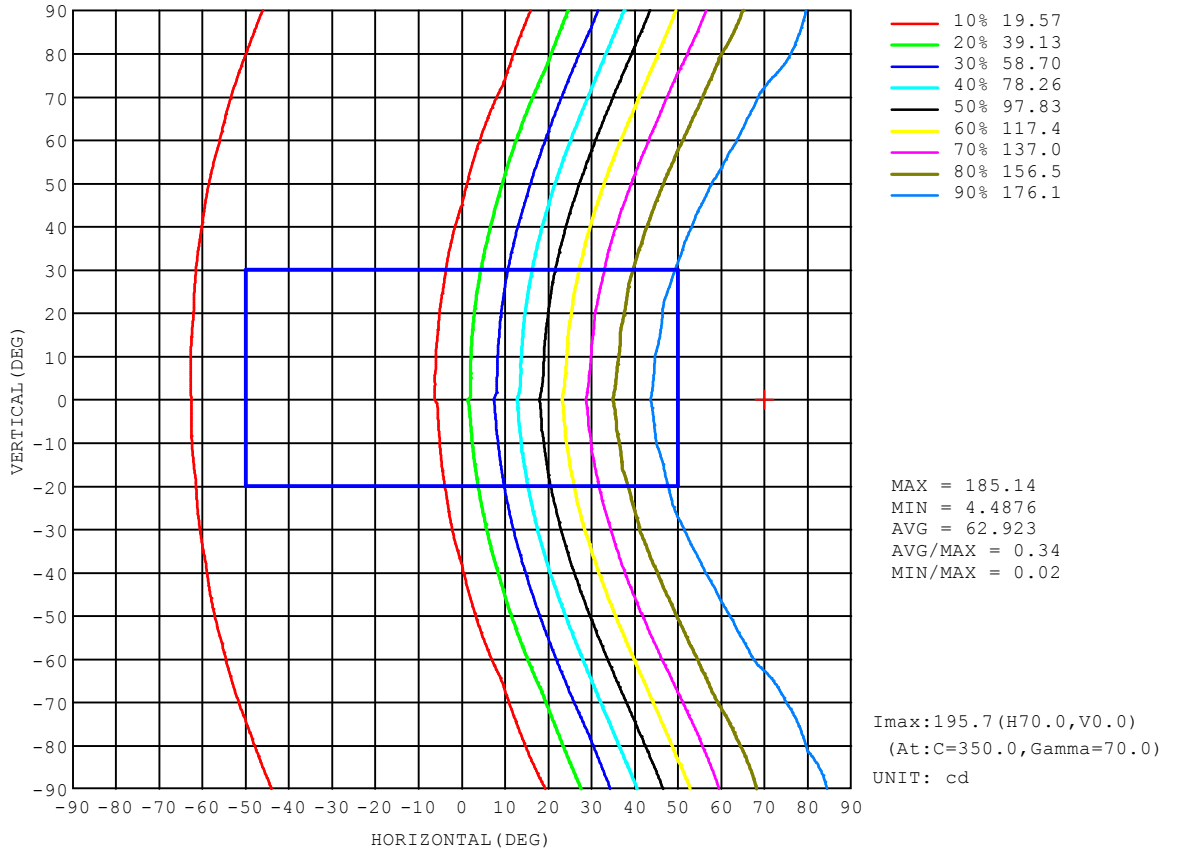
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	38	25	17	36	24	17	34	23	16	9
0.80	46	32	23	44	31	23	41	29	21	13
1.00	54	39	30	51	38	29	47	37	27	17
1.25	61	46	36	58	44	35	52	41	33	21
1.50	66	52	42	63	49	40	56	45	37	24
2.00	74	61	51	70	58	49	62	52	45	30
2.50	79	67	57	75	63	55	66	57	50	33
3.00	83	72	63	78	68	60	69	61	54	37
4.00	89	79	71	83	75	67	74	67	61	41
5.00	92	84	76	87	79	72	77	70	65	45
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2022-06-07

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:9.735m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:230.47V I:0.0578A P:12.398W PF:0.9313 Freq:49.99Hz Lamp Flux:556.56x1 lm		
NAME: 5651-3000	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ATC MIDDLE EAST FZCO	SUR.:0.01	Shielding Angle:

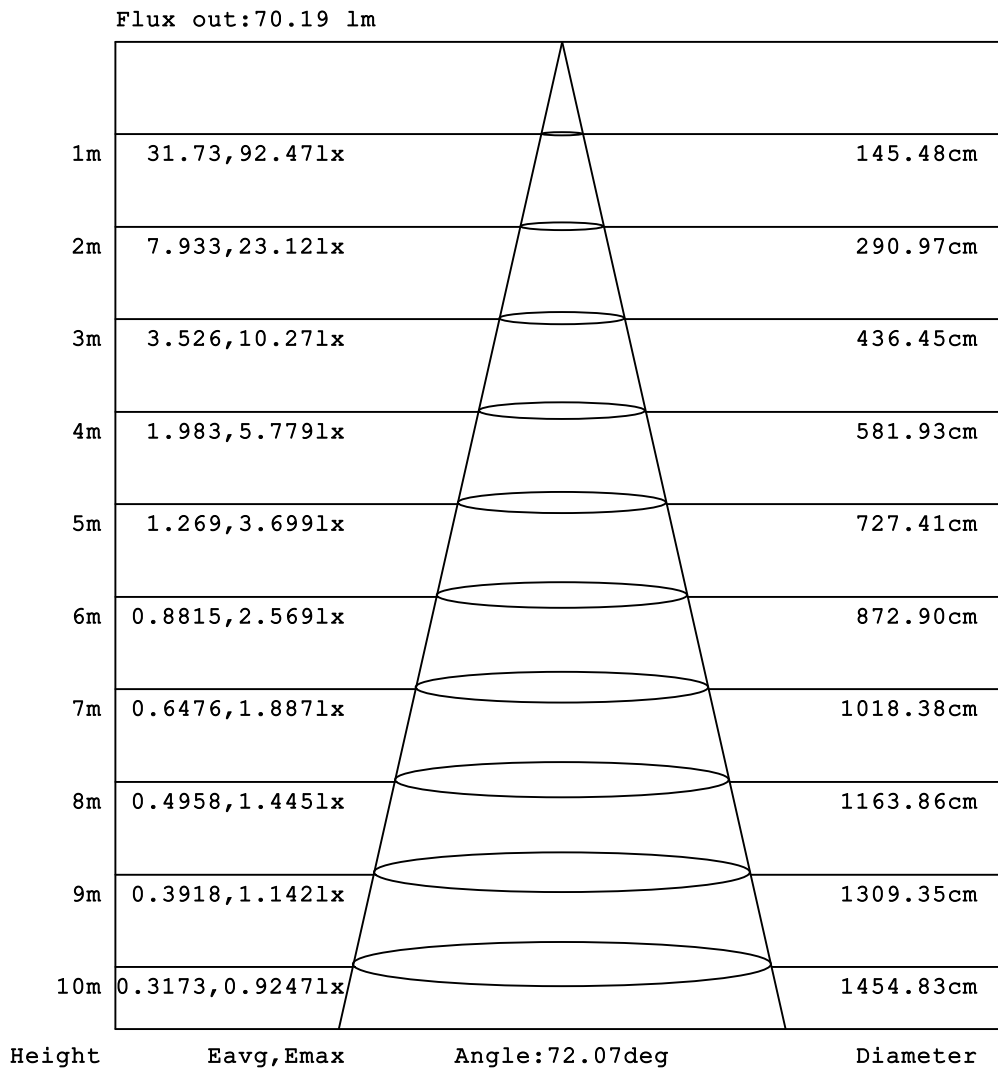


C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2022-06-07

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:9.735m [K=1.0000]
 Remarks:

AAI Figure

Test:U:230.47V I:0.0578A P:12.398W PF:0.9313 Freq:49.99Hz Lamp Flux:556.56x1 lm		
NAME: 5651-3000	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ATC MIDDLE EAST FZCO	SUR.:0.01	Shielding Angle:



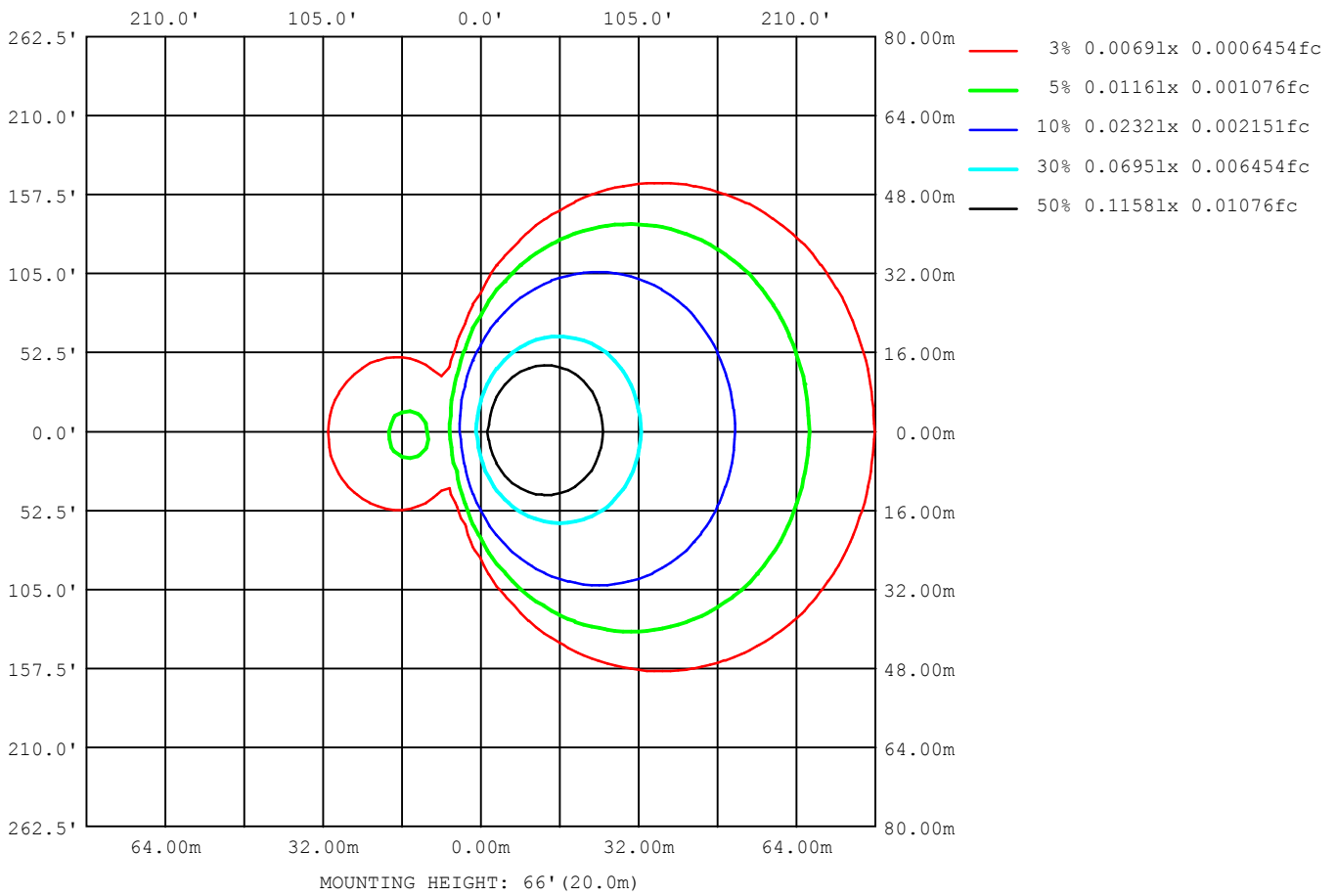
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2022-06-07

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:9.735m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:230.47V I:0.0578A P:12.398W PF:0.9313 Freq:49.99Hz Lamp Flux:556.56x1 lm		
NAME: 5651-3000	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ATC MIDDLE EAST FZCO	SUR.:0.01	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2022-06-07

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:9.735m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:230.47V I:0.0578A P:12.398W PF:0.9313 Freq:49.99Hz Lamp Flux:556.56x1 lm		
NAME: 5651-3000	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ATC MIDDLE EAST FZCO	SUR.:0.01	Shielding Angle:

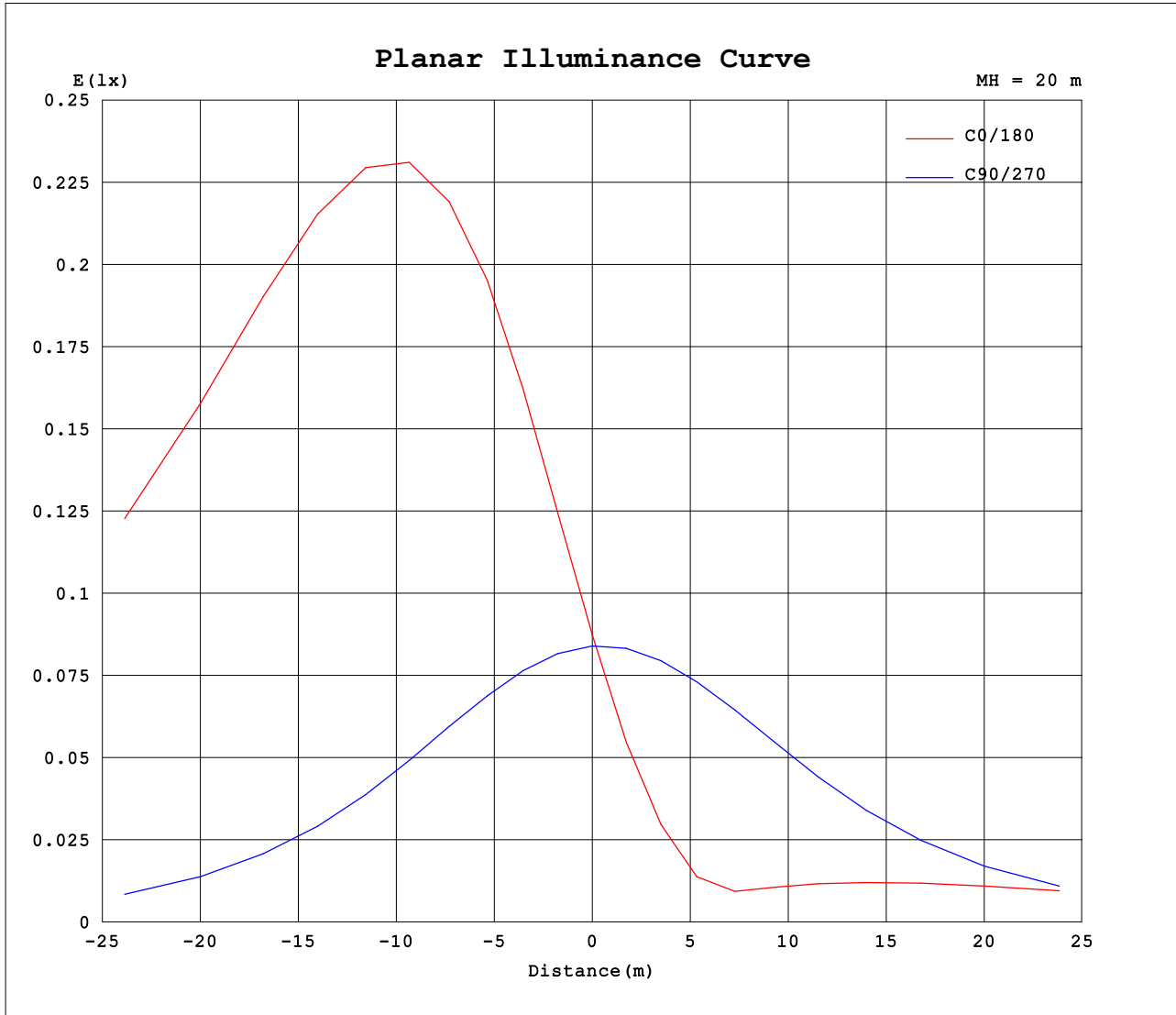
AvgL	cd/m2
L_0~180 (65) av	24738
L_0~180 (75) av	40743
L_0~180 (85) av	117855
L_90~270 (65) av	1843
L_90~270 (75) av	1909
L_90~270 (85) av	5284
L_45 (65) av	16717
L_45 (75) av	26450
L_45 (85) av	72173

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2022-06-07

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:9.735m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2022-06-07

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
 Humidity: 65.0%
 Test Distance: 9.735m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.47V I:0.0578A P:12.398W PF:0.9313 Freq:49.99Hz Lamp Flux:556.56x1 lm		
NAME: 5651-3000	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ATC MIDDLE EAST FZCO	SUR.:0.01	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
0	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8
5	48.8	48.5	47.6	46.4	44.7	42.7	40.5	38.1	35.7	33.3	31.0	28.8	26.8	25.1	23.7	22.6	21.8	21.4	21.5
10	65.8	65.1	63.1	60.3	56.5	52.0	47.2	42.1	37.0	32.2	27.7	23.8	20.3	17.6	15.2	13.7	12.5	11.9	12.1
15	83.8	82.9	79.6	75.0	68.7	61.5	53.6	45.7	37.9	30.7	24.4	19.0	14.7	11.4	8.95	7.44	6.43	6.00	6.05
20	102	101	96.2	89.7	80.8	70.7	59.6	48.6	38.1	28.9	20.9	14.7	10.00	6.97	5.20	4.56	4.67	4.72	4.46
25	120	118	112	104	92.3	79.3	65.0	51.0	37.9	26.7	17.5	10.9	6.57	4.66	4.81	5.25	5.78	5.96	5.61
30	137	135	127	117	103	87.1	69.6	52.6	37.0	24.2	14.3	7.78	4.72	4.91	5.83	6.53	7.21	7.47	7.06
35	152	149	141	129	113	93.8	73.2	53.4	35.6	21.5	11.3	5.57	4.77	5.83	7.02	7.91	8.79	9.13	8.65
40	164	162	152	140	121	99.3	75.8	53.5	33.7	18.7	8.62	4.48	5.49	6.85	8.30	9.41	10.5	10.9	10.4
45	173	171	161	148	127	103	77.2	52.6	31.4	15.9	6.50	4.71	6.31	7.94	9.64	11.0	12.2	12.8	12.2
50	179	178	168	154	132	106	77.5	51.1	28.7	13.2	4.98	5.27	7.21	9.07	11.1	12.6	14.1	14.7	14.1
55	184	182	173	159	135	107	76.6	48.7	25.8	10.6	4.33	5.93	8.12	10.3	12.5	14.3	16.0	16.7	16.0
60	187	185	175	161	136	107	74.7	45.7	22.7	8.33	4.60	6.64	9.10	11.5	14.0	16.0	17.8	18.7	18.0
65	189	187	177	162	135	105	71.6	42.2	19.5	6.45	5.06	7.37	10.08	12.7	15.5	17.7	19.7	20.6	19.9
70	189	187	176	161	133	102	67.6	38.2	16.3	5.08	5.60	8.12	11.1	14.0	17.0	19.4	21.5	22.5	21.7
75	187	185	174	158	129	96.9	62.7	33.8	13.3	4.32	6.17	8.91	12.1	15.2	18.4	21.0	23.3	24.3	23.4
80	184	182	170	152	123	90.9	57.0	29.4	10.5	4.41	6.77	9.70	13.1	16.4	19.8	22.5	24.9	25.9	25.0
85	179	177	164	145	116	83.7	50.9	24.8	8.10	4.75	7.39	10.5	14.0	17.5	21.1	23.8	26.3	27.3	26.3
90	173	170	156	136	107	75.6	44.4	20.4	6.14	5.25	8.03	11.3	15.0	18.5	22.2	25.0	27.4	28.5	27.4
95	164	160	145	125	96.7	66.7	37.7	16.2	4.80	5.76	8.66	12.0	15.8	19.5	23.2	25.9	28.4	29.4	28.3
100	151	148	133	113	85.4	57.4	31.0	12.4	4.24	6.31	9.31	12.7	16.6	20.3	24.0	26.6	29.0	30.0	29.0
105	137	133	118	99.4	73.6	48.0	24.7	9.16	4.51	6.90	9.93	13.4	17.2	20.9	24.6	27.1	29.4	30.4	29.4
110	120	116	102	84.9	61.3	38.7	18.9	6.59	4.98	7.47	10.5	14.0	17.8	21.4	25.0	27.2	29.5	30.5	29.5
115	102	98.5	85.8	70.0	49.3	30.0	13.7	4.85	5.53	8.05	11.1	14.5	18.2	21.8	25.2	27.1	29.3	30.3	29.4
120	83.5	80.4	69.2	55.5	37.9	22.1	9.45	4.25	6.11	8.63	11.6	14.9	18.5	21.9	25.1	26.7	28.4	28.4	28.3
125	65.3	62.7	53.2	41.9	27.6	15.3	6.24	4.65	6.70	9.18	12.1	15.2	18.7	21.9	24.8	25.2	25.2	24.8	24.8
130	48.3	46.2	38.7	29.7	18.8	9.88	4.43	5.27	7.30	9.72	12.5	15.5	18.7	21.6	23.1	22.4	20.7	19.6	19.9
135	33.3	31.6	26.0	19.4	11.7	6.01	4.43	5.94	7.90	10.2	12.8	15.6	18.6	20.3	20.7	19.1	16.5	14.2	13.9
140	20.8	19.7	15.8	11.5	6.70	4.23	5.10	6.65	8.51	10.7	13.1	15.7	17.9	18.4	17.9	15.9	12.7	8.59	9.17
145	11.4	10.8	8.43	6.12	4.26	4.69	5.90	7.38	9.14	11.1	13.3	15.6	16.6	16.3	15.1	13.3	10.5	6.23	6.36
150	5.53	5.30	4.48	4.20	4.70	5.61	6.76	8.14	9.74	11.5	13.5	15.2	15.1	14.3	13.2	11.1	8.14	4.73	3.63
155	4.28	4.38	4.61	5.08	5.73	6.59	7.66	8.90	10.3	11.8	13.4	13.9	13.4	12.8	11.3	9.05	6.46	3.92	2.55
160	4.45	4.76	5.12	5.62	6.15	7.07	8.05	9.17	10.3	11.5	12.1	12.2	11.8	10.8	9.32	7.43	5.55	3.96	3.01
165	3.96	4.39	4.75	5.43	6.17	7.05	7.84	8.74	9.55	10.1	10.3	10.04	9.51	8.26	6.41	4.57	3.03	2.15	2.08
170	3.69	4.23	4.73	5.32	5.85	6.46	6.96	7.55	7.96	7.99	7.30	6.12	4.35	2.83	1.40	0.85	0.61	0.64	0.67
175	4.16	4.41	4.68	5.05	5.32	5.68	5.90	6.21	5.72	4.40	2.72	1.46	0.45	0.44	0.45	0.48	0.49	0.51	0.49
180	4.60	4.52	4.30	4.30	4.16	3.82	2.82	1.67	0.87	0.54	0.49	0.47	0.47	0.66	1.54	2.70	3.98	4.99	4.60

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2022-06-07

γ Range: 0 - 180DEG
 γ Interval: 5.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.404.7
 Humidity:65.0%
 Test Distance:9.735m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.47V I:0.0578A P:12.398W PF:0.9313 Freq:49.99Hz Lamp Flux:556.56x1 lm		
NAME: 5651-3000	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: ATC MIDDLE EAST FZCO	SUR.:0.01	Shielding Angle:

Table--2

UNIT: cd

C (DEG) γ (DEG)	190	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350		
0	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8	33.8		
5	21.6	22.2	23.0	24.2	25.6	27.4	29.4	31.6	33.9	36.4	38.9	41.3	43.6	45.6	47.2	48.4	49.1		
10	12.3	13.2	14.3	16.2	18.4	21.5	24.9	29.0	33.5	38.5	43.7	48.9	53.7	58.2	61.9	64.7	66.3		
15	6.26	6.93	8.06	9.88	12.5	16.1	20.6	26.2	32.7	40.1	48.1	56.4	64.1	71.6	77.5	82.3	84.8		
20	4.49	4.36	4.69	5.78	7.87	11.5	16.4	23.2	31.3	41.2	52.0	63.5	74.5	84.9	93.6	100	104		
25	5.60	5.23	4.89	4.43	5.04	7.77	12.6	20.0	29.6	41.6	55.2	70.0	84.3	98.0	109	118	123		
30	7.01	6.54	6.03	5.22	4.58	5.30	9.42	16.9	27.5	41.4	57.7	75.8	93.3	110	124	134	140		
35	8.59	7.98	7.32	6.30	5.32	4.42	6.80	13.8	25.0	40.6	59.4	80.6	101	121	137	149	156		
40	10.3	9.53	8.72	7.46	6.25	4.91	5.06	11.1	22.4	39.2	60.2	84.2	108	131	148	162	168		
45	12.1	11.2	10.2	8.72	7.26	5.66	4.44	8.57	19.6	37.2	60.0	86.7	113	138	158	173	179		
50	13.9	12.9	11.8	10.0	8.35	6.49	4.83	6.58	16.8	34.7	59.0	87.9	117	144	165	180	186		
55	15.8	14.7	13.4	11.4	9.48	7.34	5.44	5.14	14.1	31.9	57.1	87.8	119	148	170	185	191		
60	17.7	16.5	15.0	12.8	10.6	8.26	6.10	4.45	11.5	28.7	54.3	86.4	119	150	173	188	194		
65	19.6	18.2	16.6	14.2	11.8	9.18	6.79	4.67	9.12	25.4	50.9	83.7	118	151	174	190	196		
70	21.4	19.9	18.2	15.6	13.0	10.1	7.51	5.08	7.10	21.9	46.7	79.8	115	149	173	190	196		
75	23.1	21.6	19.7	16.9	14.1	11.0	8.23	5.60	5.56	18.4	42.2	74.8	110	145	171	188	195		
80	24.7	23.1	21.1	18.2	15.2	12.0	8.97	6.15	4.60	15.1	37.3	68.9	104	139	166	185	191		
85	26.0	24.4	22.5	19.4	16.3	12.9	9.71	6.74	4.46	12.0	32.1	62.2	96.5	132	159	179	186		
90	27.1	25.6	23.6	20.5	17.3	13.7	10.4	7.32	4.77	9.21	27.0	55.0	87.9	122	150	171	180		
95	28.0	26.5	24.6	21.5	18.2	14.5	11.1	7.91	5.25	6.94	22.0	47.4	78.3	111	138	160	170		
100	28.7	27.1	25.4	22.3	19.0	15.3	11.8	8.53	5.78	5.30	17.3	39.9	68.1	99.4	125	147	157		
105	29.0	27.5	25.9	22.9	19.6	15.9	12.4	9.14	6.32	4.43	13.1	32.4	57.6	86.3	111	132	142		
110	29.2	27.6	26.1	23.3	20.1	16.5	13.0	9.73	6.90	4.60	9.50	25.4	47.1	72.9	95.3	115	125		
115	29.0	27.4	26.0	23.6	20.5	17.0	13.6	10.3	7.48	5.05	6.70	19.0	37.1	59.3	79.4	97.2	106		
120	28.4	27.0	25.7	23.6	20.7	17.3	14.0	10.8	8.06	5.65	4.92	13.4	27.9	46.3	63.6	79.1	87.1		
125	25.5	25.1	24.5	23.5	20.7	17.5	14.4	11.3	8.64	6.25	4.48	8.95	19.8	34.4	48.4	61.4	68.1		
130	21.4	22.5	22.2	22.3	20.6	17.6	14.7	11.8	9.22	6.89	4.97	5.87	13.0	24.0	34.6	45.2	50.6		
135	16.5	18.7	19.4	20.3	19.7	17.5	14.8	12.2	9.76	7.55	5.67	4.46	7.97	15.2	23.1	30.7	35.0		
140	12.3	14.8	16.4	17.8	18.2	17.2	14.9	12.5	10.3	8.17	6.41	4.90	4.96	8.87	13.9	19.1	22.0		
145	9.14	11.6	13.7	15.2	16.1	16.1	14.7	12.5	10.3	8.25	6.91	5.72	4.64	5.05	7.38	10.4	12.2		
150	6.33	9.16	11.6	13.0	13.6	13.9	13.3	11.6	9.65	7.78	6.40	5.82	5.37	4.67	4.40	5.29	5.98		
155	4.48	6.75	8.95	10.7	11.5	11.6	11.2	10.0	8.40	6.87	5.43	4.84	4.61	4.74	4.68	4.59	4.47		
160	3.66	5.18	6.85	8.28	9.07	9.25	8.72	7.97	6.74	5.64	4.47	3.74	3.49	3.71	4.01	4.41	4.60		
165	2.35	3.68	4.93	6.02	6.67	6.81	6.55	6.05	5.25	4.63	3.90	3.33	2.90	2.90	3.15	3.68	4.14		
170	0.60	0.58	0.97	2.64	4.15	4.50	4.30	4.06	3.50	3.52	3.71	3.43	3.25	3.19	3.28	3.52	3.88		
175	0.47	0.46	0.44	0.43	0.42	0.99	2.08	1.97	1.70	1.57	1.49	2.49	3.68	4.11	4.24	4.41	4.62		
180	4.52	4.29	4.31	4.17	3.84	2.84	1.70	0.86	0.53	0.50	0.47	0.48	0.65	1.52	2.69	3.98	4.99		

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 Humidity:65.0%
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