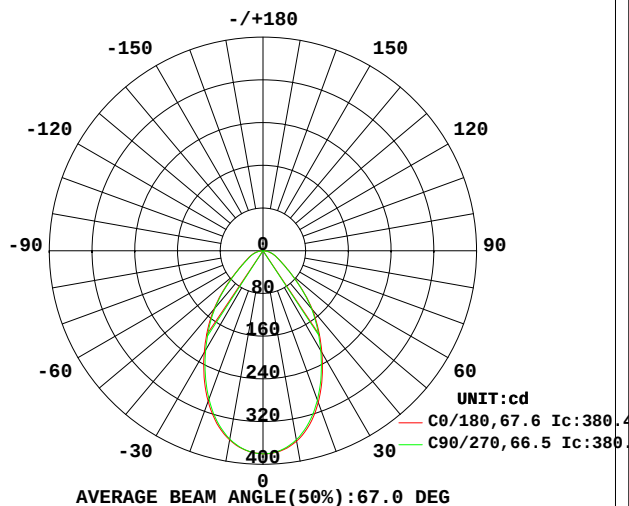


LUMINAIRE PHOTOMETRIC TEST REPORT

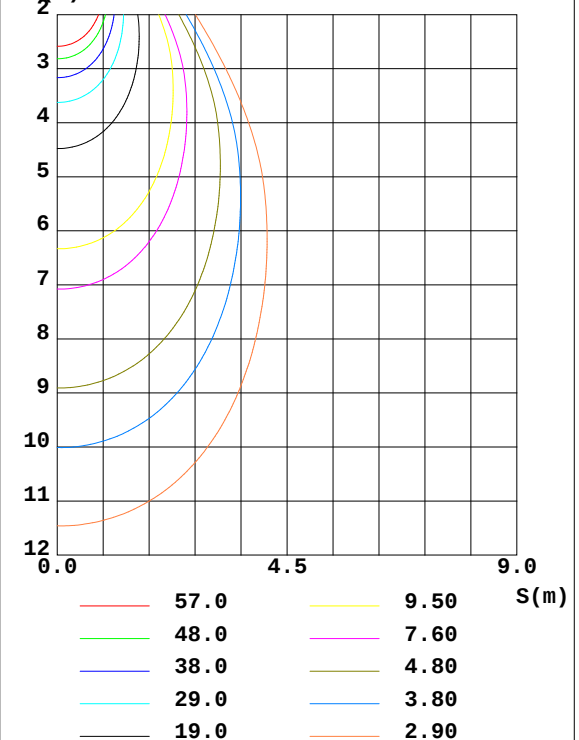
Test:U:230.07V I:0.0355A P:7.6230W PF:0.9340 Freq:49.99Hz Lamp Flux:533.517x1 lm		
NAME: AL5006-WHTC7S02-TS	TYPE:	WEIGHT:
SPEC.:white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.:75mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 69.99 lm/W			
MODEL	2835 16 3000K	I _{max} (cd)	380.4	S/MH(C0/180)	0.95
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)	0.94
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	533.52	η UP, DN(C0-180)	0.0, 50.2
NOMINAL FLUX(lm)	533.517	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 49.8
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	120.0	η down(%)	100.0	CIBSE SHR MAX	1.05

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2024-07-11

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.402
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

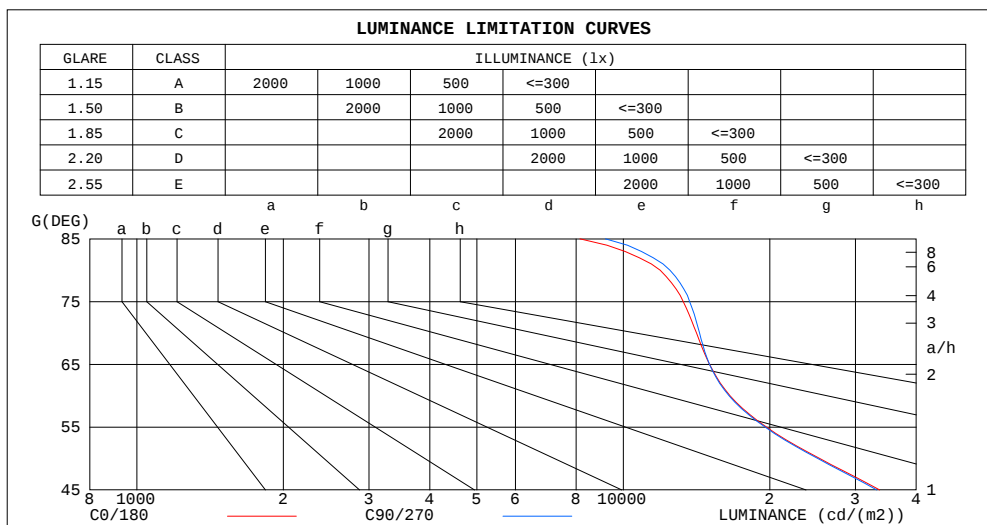
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	362.1	360.6	359.6	360.0	359.9	357.6	358.3	361.6	0- 10	35.33	35.33	6.62, 6.62
20	302.6	299.6	297.9	299.7	300.4	295.8	295.8	301.6	10- 20	93.32	128.7	24.1, 24.1
30	220.7	218.6	216.7	218.6	220.1	215.8	214.7	219.2	20- 30	118.7	247.4	46.4, 46.4
40	144.0	143.7	141.4	141.4	143.0	140.7	139.6	142.3	30- 40	111.7	359.1	67.3, 67.3
50	71.88	73.00	71.28	70.97	71.84	71.60	69.79	71.20	40- 50	80.38	439.5	82.4, 82.4
60	36.57	39.11	36.43	35.13	37.21	38.85	35.42	34.57	50- 60	45.69	485.2	90.9, 90.9
70	21.34	22.35	21.68	20.48	22.21	22.53	21.12	19.57	60- 70	28.04	513.2	96.2, 96.2
80	9.124	9.584	9.572	9.557	9.710	9.638	9.143	9.014	70- 80	16.25	529.5	99.2, 99.2
90	0.1350	0.1274	0.1313	0.1391	0.0308	0.0270	0.0232	0.0270	80- 90	4.049	533.5	100, 100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2024-07-11

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.402
Humidity: 65.0%
Test Distance: 7.450m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.07V I:0.0355A P:7.6230W PF:0.9340 Freq:49.99Hz Lamp Flux:533.517x1 lm		
NAME: AL5006-WHTC7S02-TS	TYPE:	WEIGHT:
SPEC.:white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.:75mm	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	8143	9186
80	11902	12471
75	13281	13686
70	14136	14339
65	15034	15037
60	16566	16484
55	19685	19563
50	25329	25087
45	33629	33177

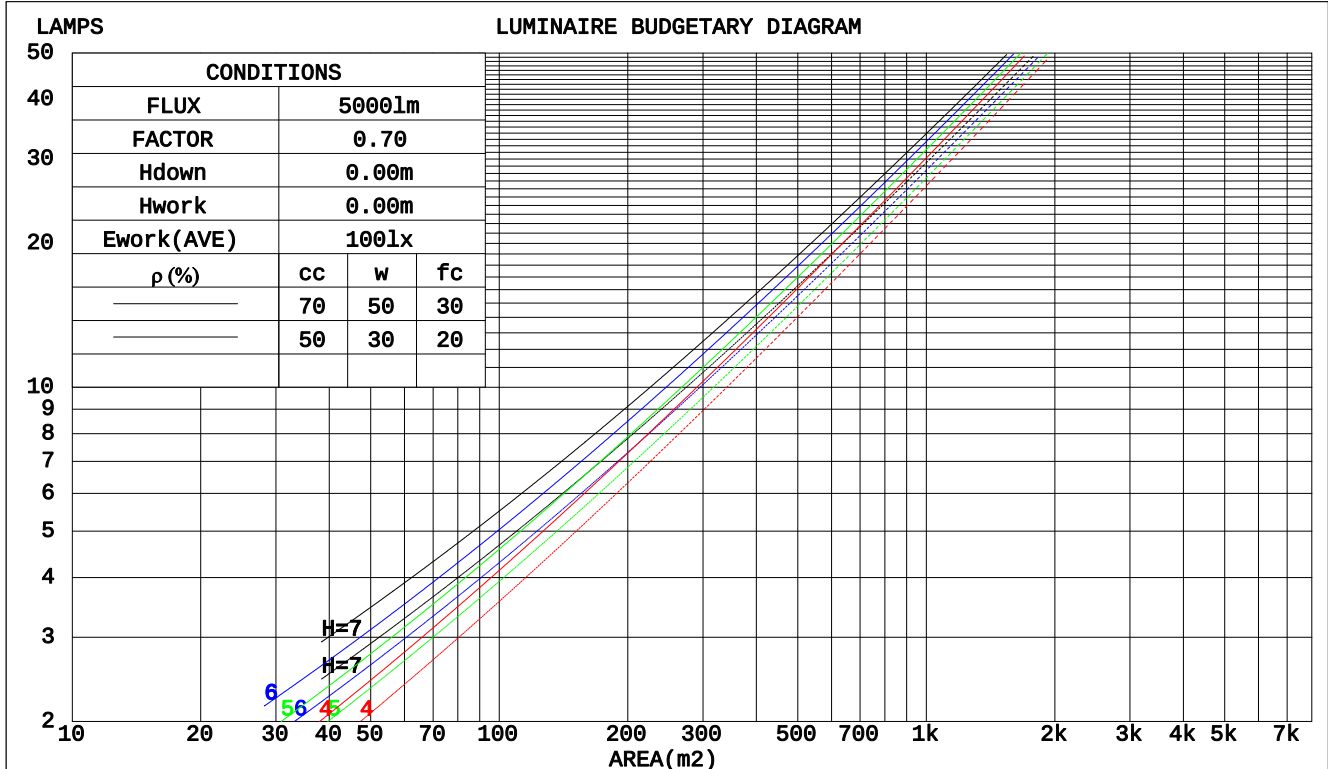
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2024-07-11

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.402
Humidity: 65.0%
Test Distance: 7.450m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.07V I:0.0355A P:7.6230W PF:0.9340 Freq:49.99Hz Lamp Flux:533.517x1 lm		
NAME: AL5006-WHTC7S02-TS	TYPE:	WEIGHT:
SPEC.:white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.:75mm	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	Coefficients of Utilization(CU)															
RCR:Room Cavity Ratio																
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	1.08	1.04	1.01	1.05	1.02	.00	1.01	.99	.96	.97	.95	.94	.94	.92	.91	.89
2.0	.97	.92	.87	.95	.90	.86	.92	.88	.84	.89	.85	.82	.86	.83	.80	.79
3.0	.88	.81	.76	.86	.80	.75	.84	.78	.74	.81	.77	.73	.79	.75	.72	.70
4.0	.80	.73	.67	.79	.72	.67	.76	.71	.66	.74	.69	.65	.72	.68	.64	.63
5.0	.73	.66	.60	.72	.65	.60	.70	.64	.59	.68	.63	.59	.67	.62	.58	.56
6.0	.67	.60	.54	.66	.59	.54	.65	.59	.54	.63	.58	.53	.62	.57	.53	.51
7.0	.62	.55	.50	.61	.54	.49	.60	.54	.49	.59	.53	.49	.57	.52	.48	.47
8.0	.58	.50	.45	.57	.50	.45	.56	.50	.45	.55	.49	.45	.54	.48	.45	.43
9.0	.54	.47	.42	.53	.46	.42	.52	.46	.41	.51	.45	.41	.50	.45	.41	.40
10.0	.50	.43	.39	.50	.43	.39	.49	.43	.38	.48	.42	.38	.47	.42	.38	.37



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2024-07-11

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.402
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:230.07V I:0.0355A P:7.6230W PF:0.9340 Freq:49.99Hz Lamp Flux:533.517x1 lm					
NAME: AL5006-WHTC7S02-TS			TYPE:		WEIGHT:
SPEC.:white RA90 3000K+5700K			DIM.:		SERIAL No.:
MFR.:			SUR.:75mm		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						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.240	.136	.043	.233	.133	.042	.220	.126	.040	.208	.120	.039	.197	.114	.037	
2.0	.229	.125	.038	.223	.123	.038	.212	.118	.037	.202	.113	.035	.192	.109	.034	
3.0	.215	.115	.034	.210	.113	.034	.201	.109	.033	.192	.105	.032	.183	.101	.031	
4.0	.202	.105	.031	.198	.103	.031	.189	.100	.030	.181	.097	.029	.174	.094	.029	
5.0	.190	.097	.028	.186	.095	.028	.178	.093	.027	.171	.090	.027	.165	.088	.026	
6.0	.179	.089	.026	.175	.088	.025	.168	.086	.025	.162	.084	.025	.156	.082	.024	
7.0	.168	.083	.024	.165	.082	.023	.159	.081	.023	.154	.079	.023	.148	.077	.023	
8.0	.159	.078	.022	.156	.077	.022	.151	.075	.022	.146	.074	.021	.141	.073	.021	
9.0	.151	.073	.020	.148	.072	.020	.143	.071	.020	.139	.070	.020	.135	.068	.020	
10.0	.143	.069	.019	.141	.068	.019	.136	.067	.019	.132	.066	.019	.128	.065	.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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.175	.157	.140	.150	.135	.120	.103	.093	.083	.059	.054	.048	.019	.017	.016	
2.0	.164	.132	.106	.140	.114	.091	.096	.079	.064	.055	.046	.037	.018	.015	.012	
3.0	.154	.114	.082	.132	.098	.071	.091	.068	.050	.052	.040	.029	.017	.013	.010	
4.0	.145	.100	.065	.125	.086	.057	.086	.060	.040	.050	.035	.024	.016	.011	.008	
5.0	.137	.089	.053	.118	.077	.046	.081	.054	.033	.047	.032	.019	.015	.010	.006	
6.0	.130	.080	.044	.112	.069	.038	.077	.049	.027	.045	.029	.016	.014	.009	.005	
7.0	.124	.073	.037	.107	.063	.033	.074	.044	.023	.043	.026	.014	.014	.009	.005	
8.0	.118	.067	.032	.102	.058	.028	.070	.041	.020	.041	.024	.012	.013	.008	.004	
9.0	.112	.062	.028	.097	.054	.024	.067	.038	.017	.039	.022	.010	.013	.007	.003	
10.0	.107	.058	.025	.093	.050	.022	.064	.035	.015	.037	.021	.009	.012	.007	.003	

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2024-07-11

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.450m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.07V I:0.0355A P:7.6230W PF:0.9340 Freq:49.99Hz Lamp Flux:533.517x1 lm											
NAME: AL5006-WHTC7S02-TS						TYPE:			WEIGHT:		
SPEC.:white RA90 3000K+5700K						DIM.:			SERIAL No.:		
MFR.:						SUR.:75mm			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	24.3	25.6	24.6	25.8	25.9	24.3	25.5	24.5	25.7	25.9	
	3H	25.0	26.2	25.3	26.4	26.6	25.0	26.2	25.3	26.4	26.6
	4H	25.4	26.4	25.7	26.7	26.9	25.4	26.5	25.7	26.7	26.9
	6H	25.6	26.6	25.9	26.9	27.2	25.7	26.7	26.0	27.0	27.2
	8H	25.7	26.7	26.0	27.0	27.2	25.8	26.8	26.1	27.0	27.3
	12H	25.7	26.7	26.1	26.9	27.2	25.8	26.7	26.1	27.0	27.3
4H	2H	24.6	25.7	24.9	25.9	26.1	24.5	25.6	24.8	25.9	26.1
	3H	25.5	26.4	25.8	26.7	27.0	25.5	26.4	25.8	26.7	27.0
	4H	25.9	26.8	26.3	27.1	27.4	26.0	26.8	26.4	27.2	27.5
	6H	26.3	27.1	26.7	27.4	27.8	26.4	27.2	26.8	27.5	27.9
	8H	26.5	27.2	26.9	27.5	27.9	26.6	27.3	27.0	27.6	28.0
	12H	26.5	27.2	26.9	27.5	27.9	26.6	27.3	27.1	27.7	28.1
8H	4H	26.1	26.8	26.5	27.2	27.6	26.2	26.9	26.6	27.2	27.6
	6H	26.6	27.2	27.1	27.6	28.0	26.7	27.3	27.2	27.7	28.1
	8H	26.8	27.3	27.3	27.8	28.2	26.9	27.4	27.4	27.9	28.3
	12H	26.9	27.4	27.4	27.8	28.3	27.1	27.5	27.5	27.9	28.4
12H	4H	26.1	26.8	26.5	27.1	27.5	26.2	26.8	26.6	27.2	27.6
	6H	26.7	27.2	27.1	27.6	28.1	26.8	27.3	27.2	27.7	28.1
	8H	26.9	27.3	27.4	27.8	28.3	27.0	27.4	27.5	27.9	28.3
Variations with the observer position at spacings:											
S = 1.0H	+ 0.6 / - 0.7					+ 0.6 / - 0.7					
1.5H	+ 0.6 / - 0.5					+ 0.6 / - 0.5					
2.0H	+ 1.3 / - 0.7					+ 1.3 / - 0.7					

CIE Pub.117, 533.5 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = -2.2$)

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2024-07-11

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.450m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.07V I:0.0355A P:7.6230W PF:0.9340 Freq:49.99Hz Lamp Flux:533.517x1 lm		
NAME: AL5006-WHTC7S02-TS	TYPE:	WEIGHT:
SPEC.:white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.:75mm	Shielding Angle:

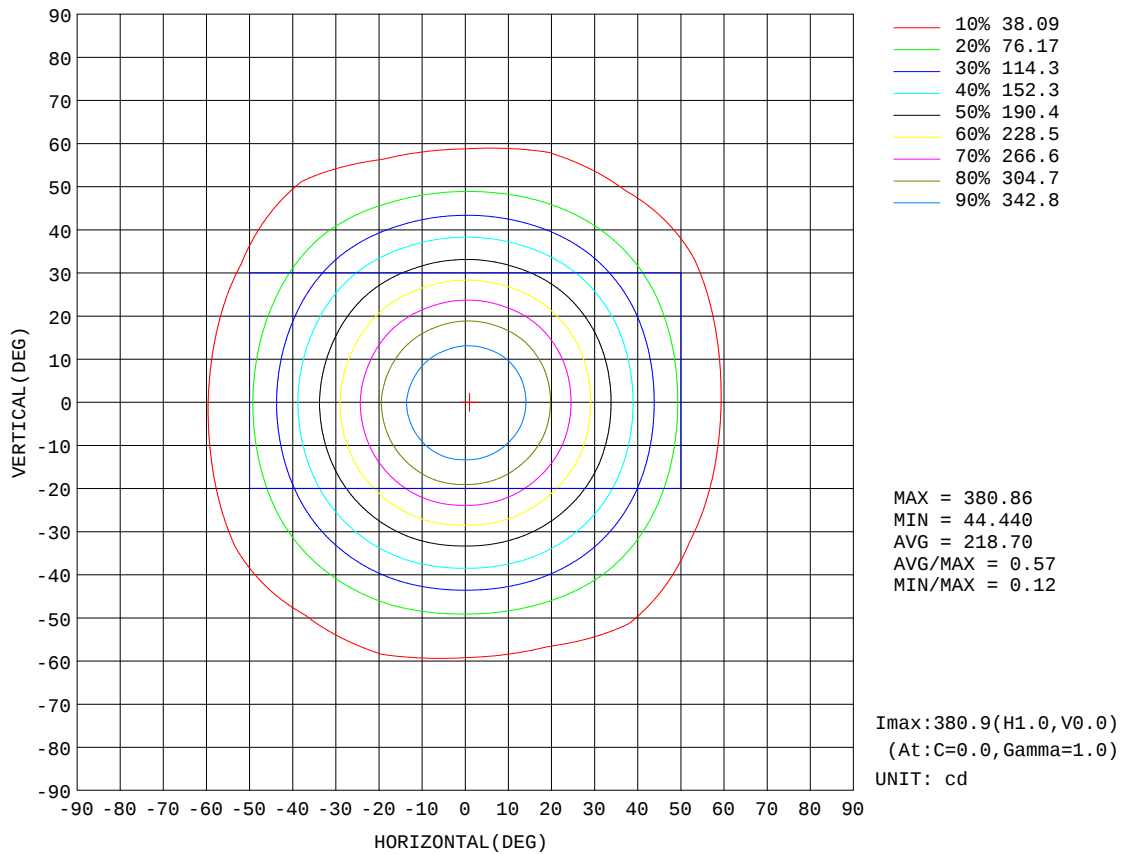
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	71	62	56	71	62	56	70	61	56	51
0.80	80	71	66	80	71	66	78	70	65	60
1.00	87	79	73	86	78	73	84	79	73	67
1.25	93	85	80	92	85	80	90	83	79	73
1.50	97	90	85	96	89	84	93	87	83	77
2.00	102	96	91	100	95	90	97	92	89	82
2.50	105	99	94	103	98	94	99	95	92	85
3.00	107	102	98	105	101	97	101	98	95	87
4.00	110	106	102	108	104	101	104	101	98	90
5.00	112	108	105	110	106	104	105	103	101	92
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2024-07-11

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.402
 Humidity:65.0%
 Test Distance:7.450m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:230.07V I:0.0355A P:7.6230W PF:0.9340 Freq:49.99Hz Lamp Flux:533.517x1 lm		
NAME: AL5006-WHTC7S02-TS	TYPE:	WEIGHT:
SPEC.:white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.:75mm	Shielding Angle:

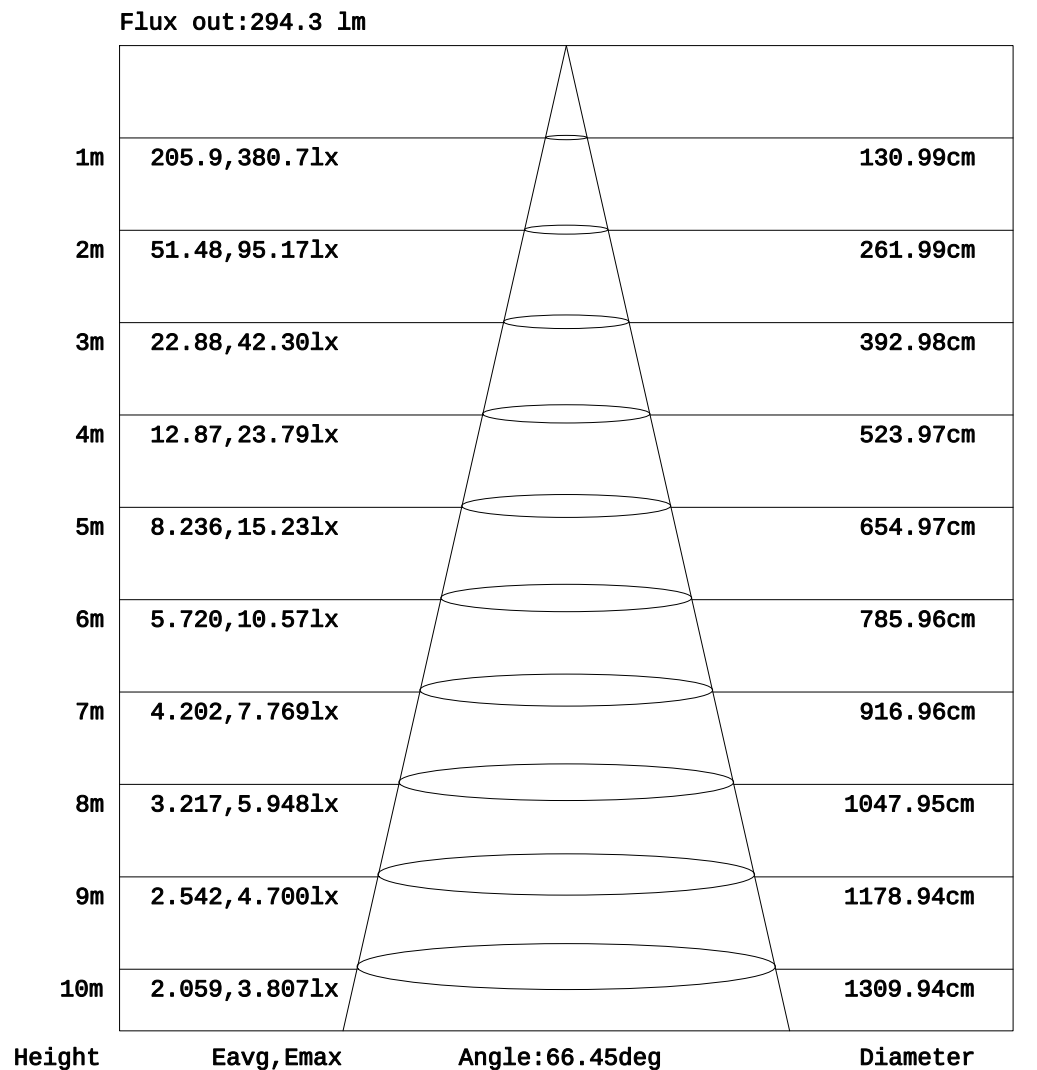


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2024-07-11

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.402
Humidity: 65.0%
Test Distance: 7.450m [K=1.0000]
Remarks:

AAI Figure

Test:U:230.07V I:0.0355A P:7.6230W PF:0.9340 Freq:49.99Hz Lamp Flux:533.517x1 lm		
NAME: AL5006-WHTC7S02-TS	TYPE:	WEIGHT:
SPEC.:white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.:75mm	Shielding Angle:



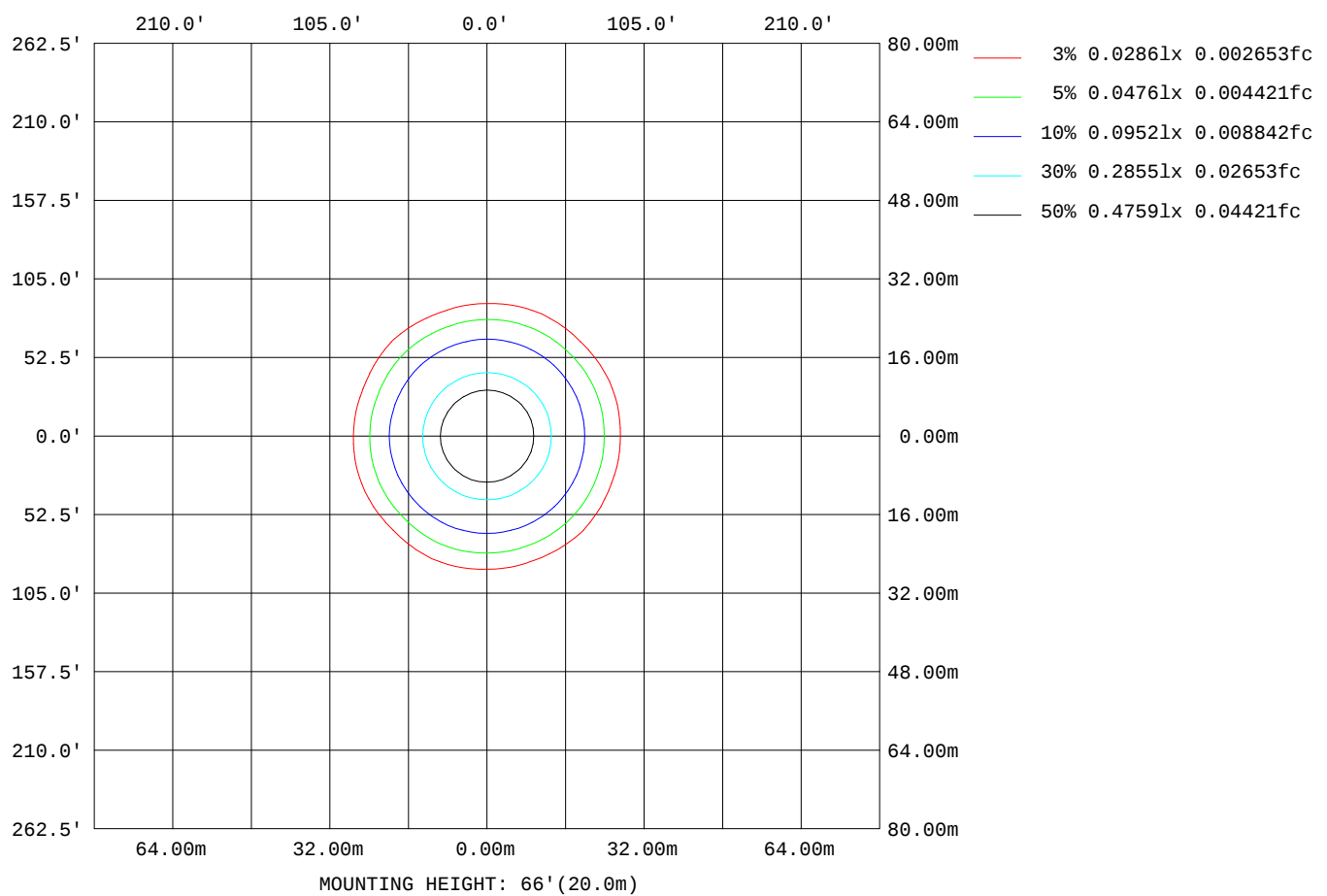
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2024-07-11

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.402
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:230.07V I:0.0355A P:7.6230W PF:0.9340 Freq:49.99Hz Lamp Flux:533.517x1 lm		
NAME: AL5006-WHTC7S02-TS	TYPE:	WEIGHT:
SPEC.:white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.:75mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2024-07-11

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.402
Humidity: 65.0%
Test Distance: 7.450m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:230.07V I:0.0355A P:7.6230W PF:0.9340 Freq:49.99Hz Lamp Flux:533.517x1 lm		
NAME: AL5006-WHTC7S02-TS	TYPE:	WEIGHT:
SPEC.:white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.:75mm	Shielding Angle:

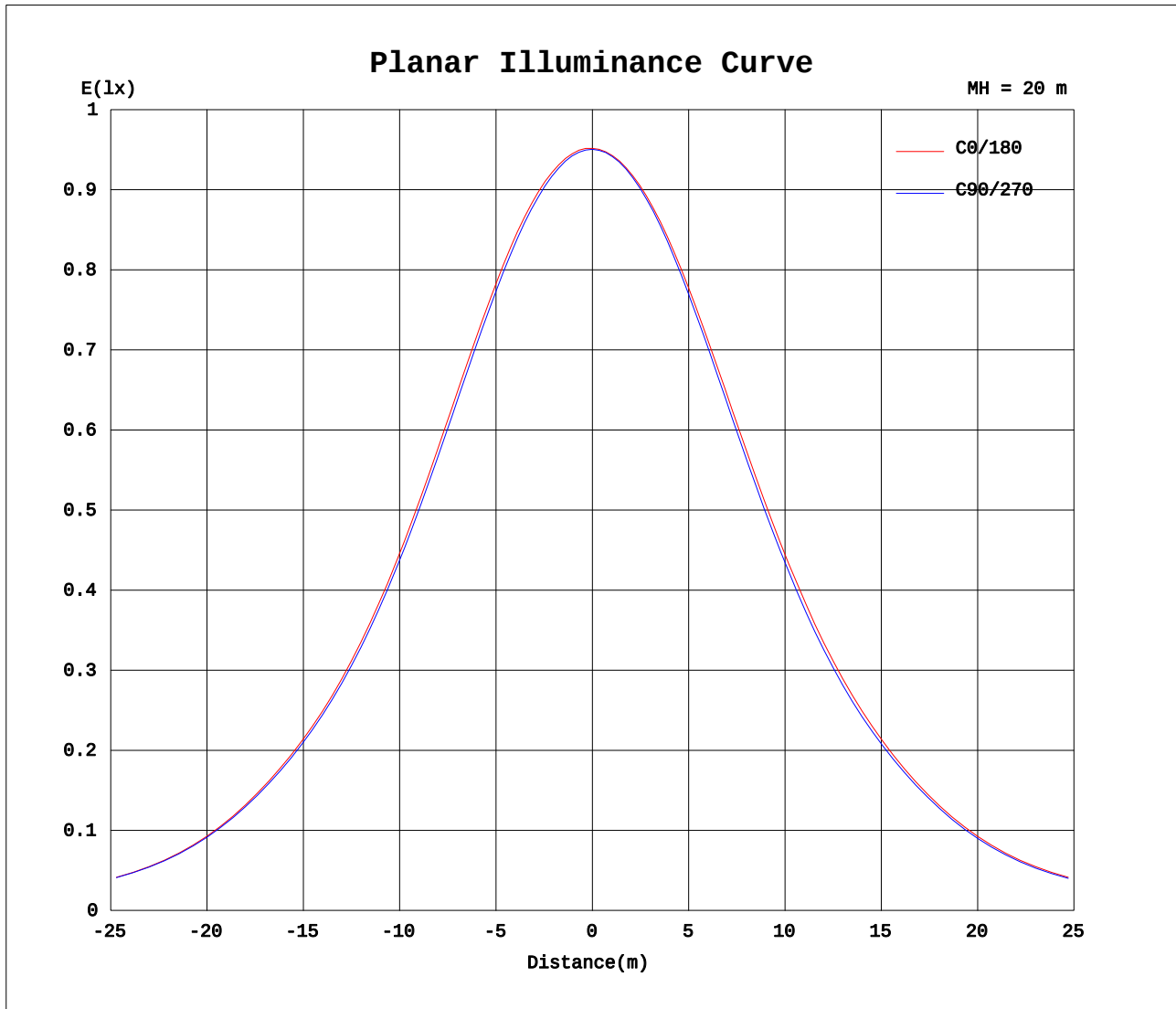
AvgL	cd/m2
L_0~180(65)av	15230
L_0~180(75)av	13621
L_0~180(85)av	8607
L_90~270(65)av	14851
L_90~270(75)av	13468
L_90~270(85)av	8884
L_45(65)av	14947
L_45(75)av	13450
L_45(85)av	8727

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2024-07-11

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.402
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2024-07-11

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000A_V1 SYSTEM V2.0.402
Humidity: 65.0%
Test Distance: 7.450m [K=1.0000]
Remarks:

```

Range: 0 - 90DEG
Interval: 1.0DEG
Test System:EVERFINE G0-2000A_V1 SYSTEM V2.0.402
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

```