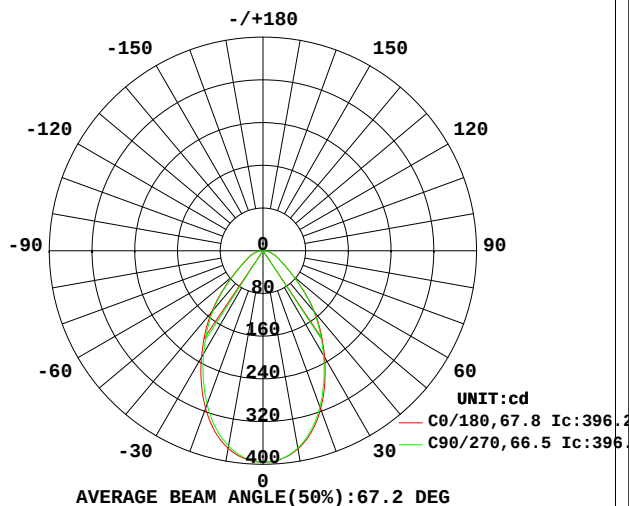


LUMINAIRE PHOTOMETRIC TEST REPORT

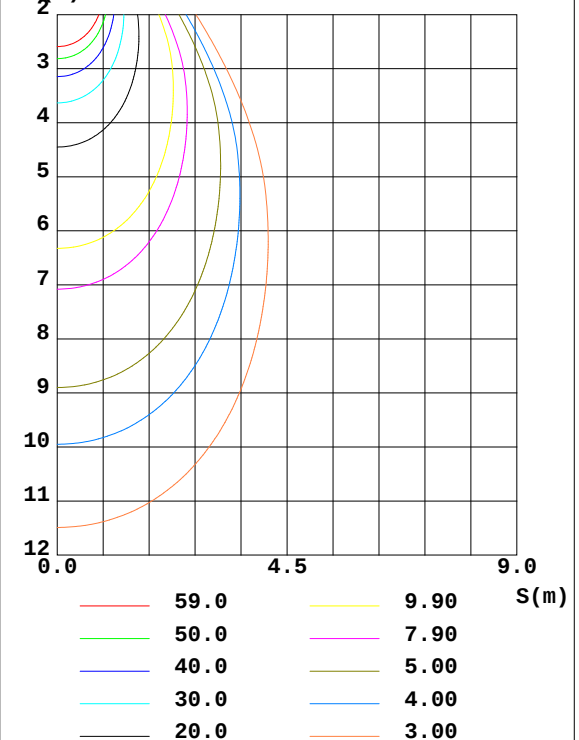
Test:U:230.05V I:0.0347A P:7.4783W PF:0.9373 Freq:49.99Hz Lamp Flux:557.417x1 lm		
NAME: AL5006-WHTC7S02-TS	TYPE:	WEIGHT:
SPEC.:white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.:75mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 74.54 lm/W			
MODEL	2835 16 5700K	I _{max} (cd)	396.3	S/MH(C0/180)	0.95
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)	0.93
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	557.42	η UP, DN(C0-180)	0.0, 50.4
NOMINAL FLUX(lm)	557.417	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 49.6
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:

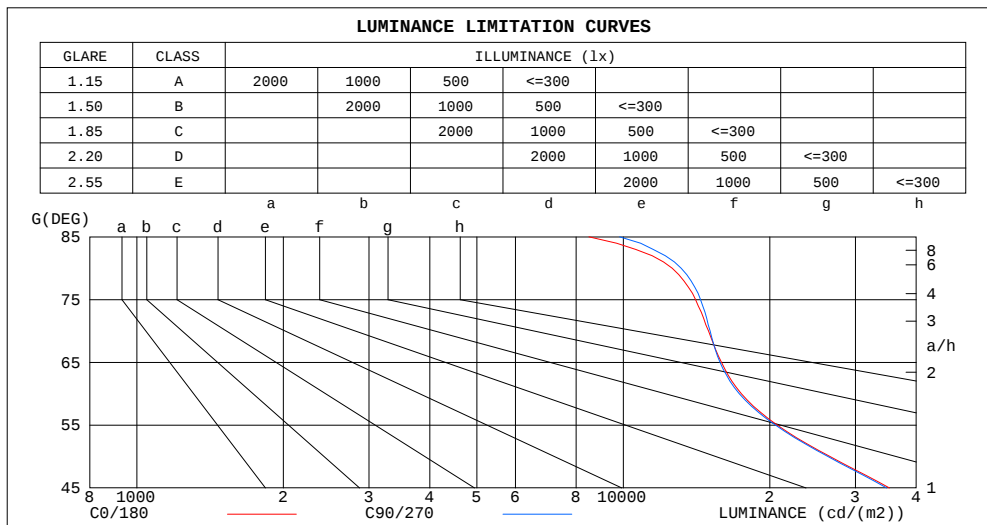
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	376.8	376.6	375.3	375.7	375.8	372.5	371.2	374.9	0- 10	36.81	36.81	6.6,6.6
20	315.7	314.4	311.6	313.3	314.4	308.6	306.3	311.9	10- 20	97.25	134.1	24.1,24.1
30	230.8	229.8	226.9	228.6	230.7	225.1	222.3	227.0	20- 30	123.9	257.9	46.3,46.3
40	150.8	151.0	148.2	147.8	149.5	146.6	144.9	147.9	30- 40	116.7	374.6	67.2,67.2
50	75.57	76.86	74.78	74.28	75.08	74.70	72.74	74.55	40- 50	84.03	458.7	82.3,82.3
60	38.64	41.24	38.26	36.79	38.91	40.61	37.20	36.45	50- 60	47.90	506.6	90.9,90.9
70	22.63	23.54	22.78	21.42	23.19	23.54	22.29	20.78	60- 70	29.47	536.0	96.2,96.2
80	9.677	10.09	10.09	10.03	10.09	9.998	9.693	9.628	70- 80	17.10	553.1	99.2,99.2
90	0.1468	0.1429	0.1428	0.1467	0.0386	0.0348	0.0347	0.0347	80- 90	4.277	557.4	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:230.05V I:0.0347A P:7.4783W PF:0.9373 Freq:49.99Hz Lamp Flux:557.417x1 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	8496	9829
80	12602	13145
75	14075	14409
70	14961	15075
65	15912	15801
60	17476	17314
55	20721	20546
50	26587	26327
45	35230	34774

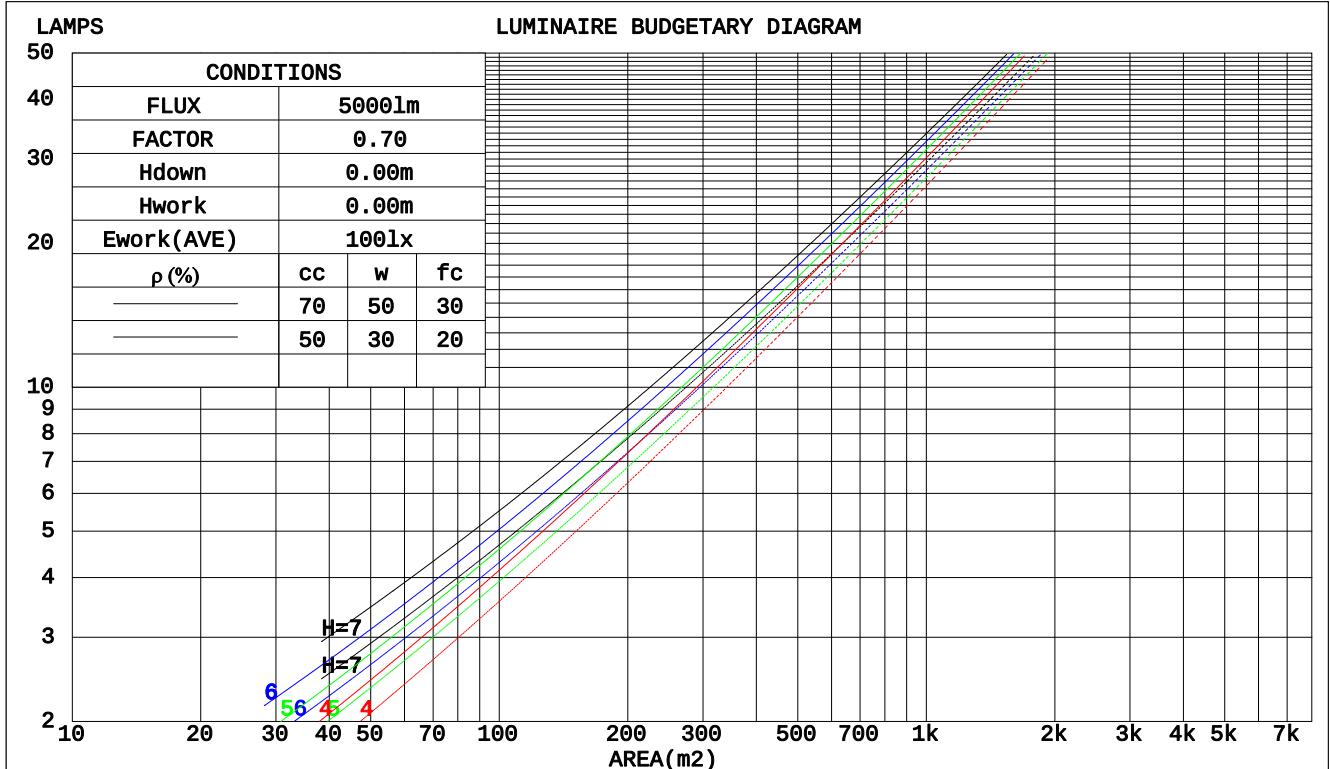
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2024-07-11

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:230.05V I:0.0347A P:7.4783W PF:0.9373 Freq:49.99Hz Lamp Flux:557.417x1 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)															
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	1.00
1.0	1.08	1.04	1.01	1.05	1.02	.90	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	.58	.54	.63	.58	.53	.62	.57	.53	.51
7.0	.62	.55	.49	.61	.54	.49	.60	.54	.49	.59	.53	.49	.57	.52	.48	.47
8.0	.58	.50	.45	.57	.50	.45	.56	.49	.45	.55	.49	.45	.54	.48	.44	.43
9.0	.54	.47	.42	.53	.46	.42	.52	.46	.41	.51	.45	.41	.50	.45	.41	.39
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:230.05V I:0.0347A P:7.4783W PF:0.9373 Freq:49.99Hz Lamp Flux:557.417x1 lm					
NAME: AL5006-WHTC7S02-TS			TYPE:		WEIGHT:
SPEC.:white RA90 3000K+5700K			DIM.:		SERIAL No.:
MFR.:			SUR.:75mm		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	.240	.137	.043	.233	.133	.042	.220	.126	.040	.208	.120	.039	.197	.114	.037			
2.0	.229	.126	.039	.223	.123	.038	.212	.118	.037	.202	.113	.035	.192	.109	.034			
3.0	.216	.115	.034	.210	.113	.034	.201	.109	.033	.192	.105	.032	.184	.102	.031			
4.0	.202	.105	.031	.198	.104	.031	.189	.100	.030	.181	.097	.029	.174	.095	.029			
5.0	.190	.097	.028	.186	.095	.028	.179	.093	.027	.172	.091	.027	.165	.088	.026			
6.0	.179	.090	.026	.175	.088	.025	.169	.086	.025	.162	.084	.025	.157	.082	.024			
7.0	.168	.083	.024	.165	.082	.023	.159	.081	.023	.154	.079	.023	.149	.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	.129	.065	.019			

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						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	.113	.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:230.05V I:0.0347A P:7.4783W PF:0.9373 Freq:49.99Hz Lamp Flux:557.417x1 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	24.4	25.6	24.6	25.8	26.0	24.3	25.6	24.6	25.8	25.9
3H	25.1	26.2	25.3	26.4	26.6	25.1	26.2	25.3	26.4	26.6
4H	25.4	26.5	25.7	26.7	27.0	25.4	26.5	25.7	26.7	27.0
6H	25.7	26.7	26.0	27.0	27.2	25.7	26.7	26.0	27.0	27.3
8H	25.8	26.7	26.1	27.0	27.3	25.8	26.8	26.1	27.1	27.3
12H	25.8	26.7	26.1	27.0	27.3	25.9	26.8	26.2	27.1	27.4
4H 2H	24.6	25.7	24.9	25.9	26.2	24.6	25.7	24.9	25.9	26.1
3H	25.5	26.5	25.9	26.7	27.0	25.5	26.5	25.9	26.8	27.0
4H	26.0	26.9	26.4	27.2	27.5	26.0	26.9	26.4	27.2	27.5
6H	26.4	27.2	26.8	27.5	27.9	26.5	27.2	26.9	27.6	27.9
8H	26.5	27.2	26.9	27.6	28.0	26.6	27.3	27.0	27.7	28.0
12H	26.6	27.2	27.0	27.6	28.0	26.7	27.3	27.1	27.7	28.1
8H 4H	26.2	26.9	26.6	27.2	27.6	26.2	26.9	26.6	27.3	27.6
6H	26.7	27.3	27.1	27.7	28.1	26.8	27.3	27.2	27.7	28.2
8H	26.9	27.4	27.3	27.8	28.3	27.0	27.5	27.4	27.9	28.4
12H	27.0	27.4	27.5	27.9	28.4	27.1	27.6	27.6	28.0	28.5
12H 4H	26.2	26.8	26.6	27.2	27.6	26.2	26.9	26.6	27.2	27.6
6H	26.7	27.3	27.2	27.7	28.1	26.8	27.3	27.3	27.7	28.2
8H	27.0	27.4	27.4	27.8	28.3	27.0	27.5	27.5	27.9	28.4
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, 557.4 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.0)

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:230.05V I:0.0347A P:7.4783W PF:0.9373 Freq:49.99Hz Lamp Flux:557.417x1 lm		
NAME: AL5006-WHTC7S02-TS	TYPE:	WEIGHT:
SPEC.:white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.:75mm	Shielding Angle:

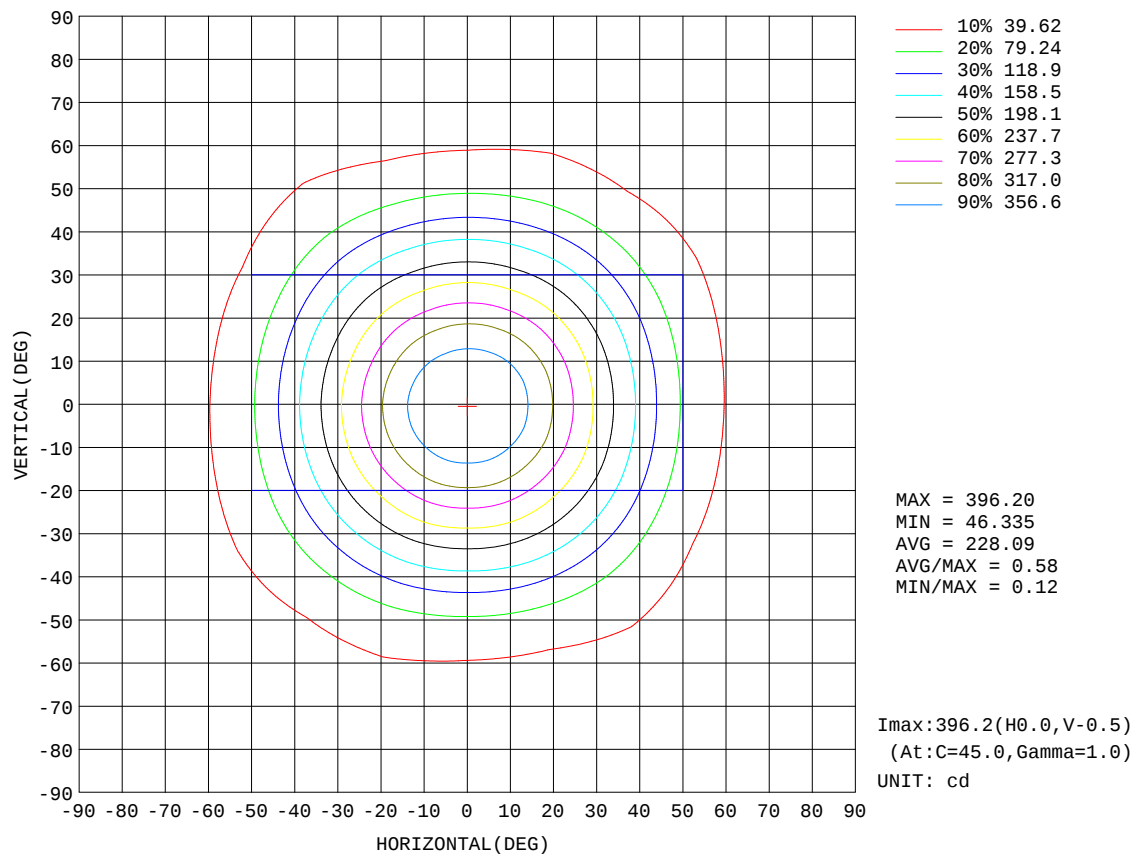
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	71	62	56	70	62	56	69	61	56	51
0.80	80	71	66	79	71	66	78	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:230.05V I:0.0347A P:7.4783W PF:0.9373 Freq:49.99Hz Lamp Flux:557.417x1 lm		
NAME: AL5006-WHTC7S02-TS	TYPE:	WEIGHT:
SPEC.:white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.:75mm	Shielding Angle:

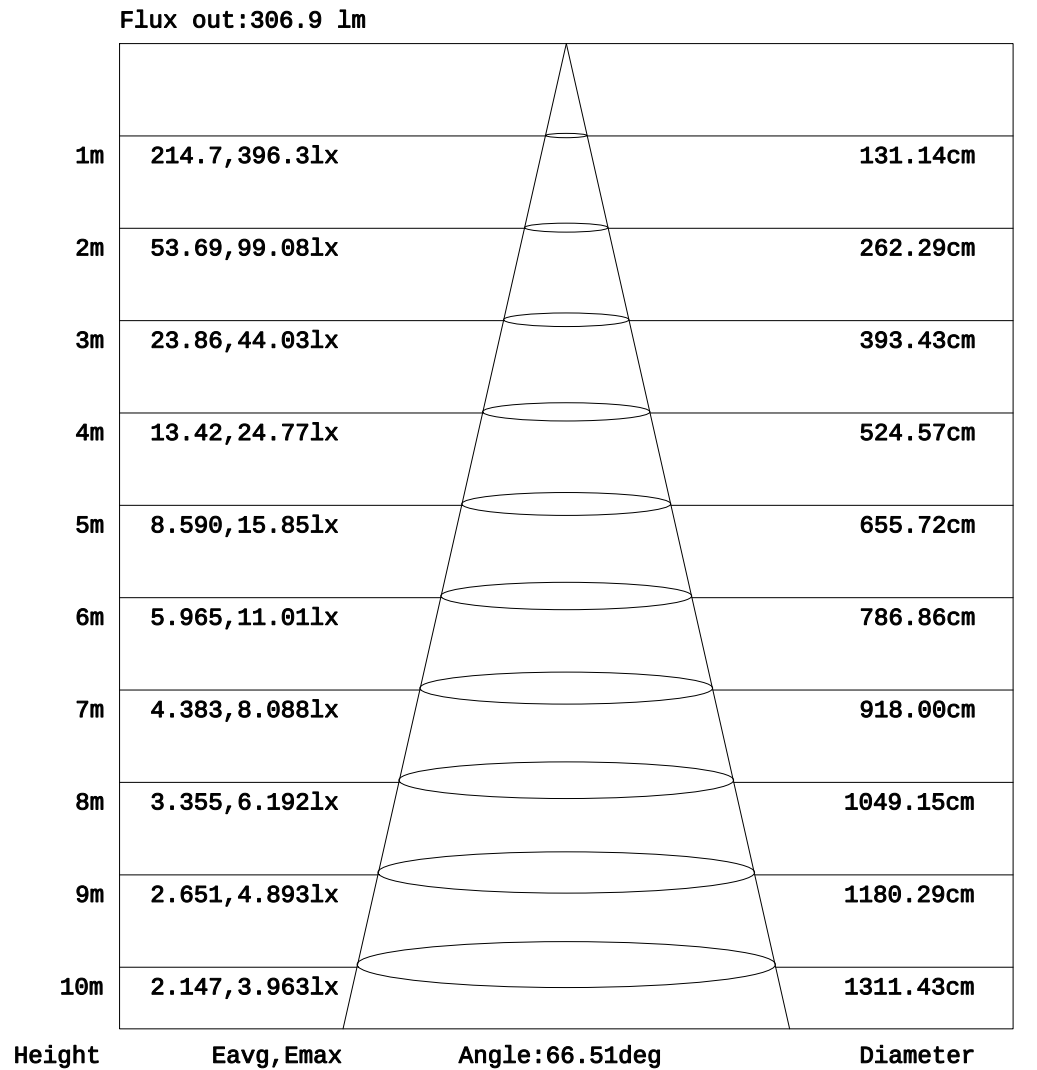


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2024-07-11

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:230.05V I:0.0347A P:7.4783W PF:0.9373 Freq:49.99Hz Lamp Flux:557.417x1 lm		
NAME: AL5006-WHTC7S02-TS	TYPE:	WEIGHT:
SPEC.:white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.:75mm	Shielding Angle:



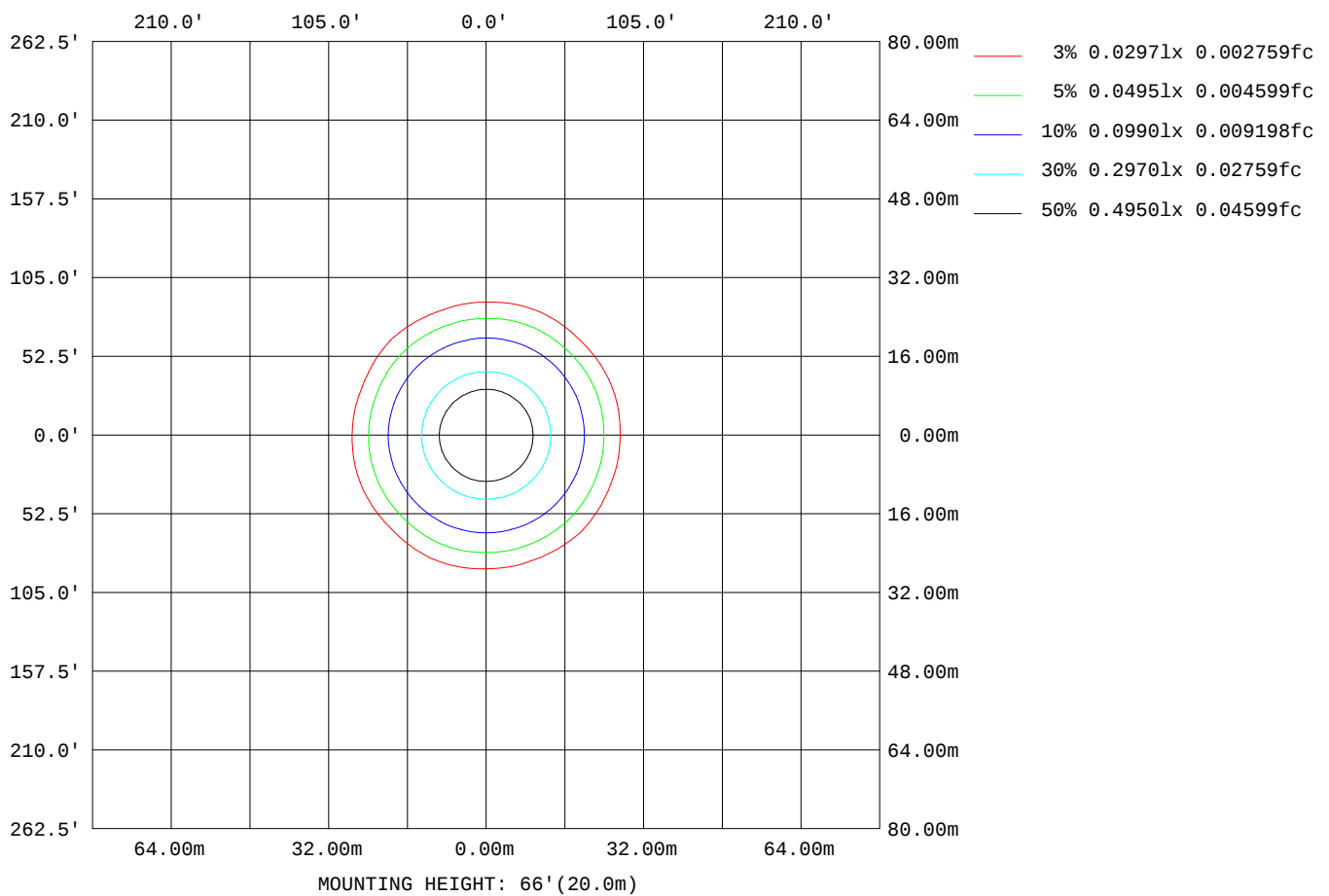
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:230.05V I:0.0347A P:7.4783W PF:0.9373 Freq:49.99Hz Lamp Flux:557.417x1 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:230.05V I:0.0347A P:7.4783W PF:0.9373 Freq:49.99Hz Lamp Flux:557.417x1 lm		
NAME: AL5006-WHTC7S02-TS	TYPE:	WEIGHT:
SPEC.:white RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.:75mm	Shielding Angle:

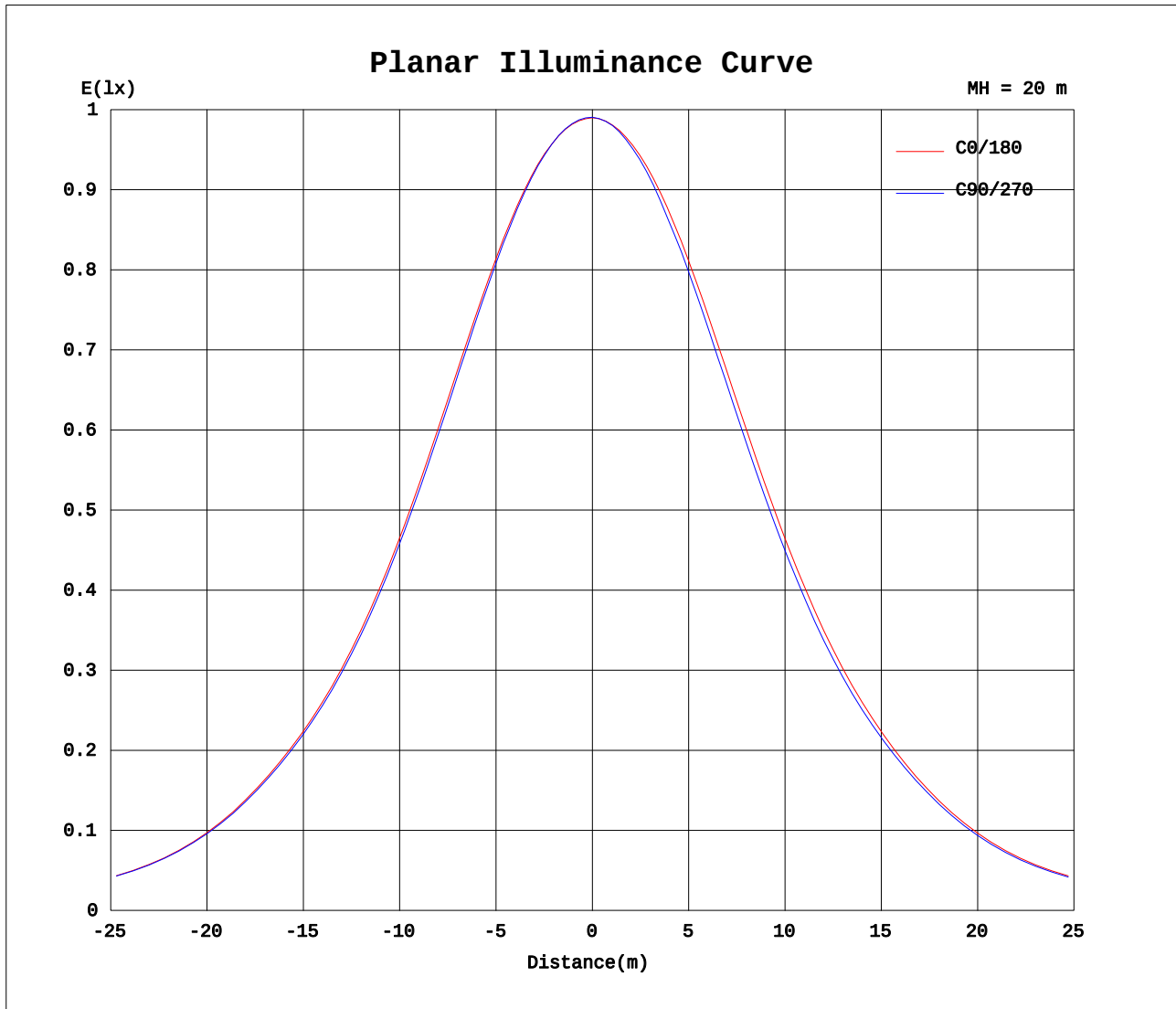
AvgL	cd/m2
L_0~180(65)av	16028
L_0~180(75)av	14323
L_0~180(85)av	8852
L_90~270(65)av	15623
L_90~270(75)av	14208
L_90~270(85)av	9533
L_45(65)av	15703
L_45(75)av	14140
L_45(85)av	9295

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:

```