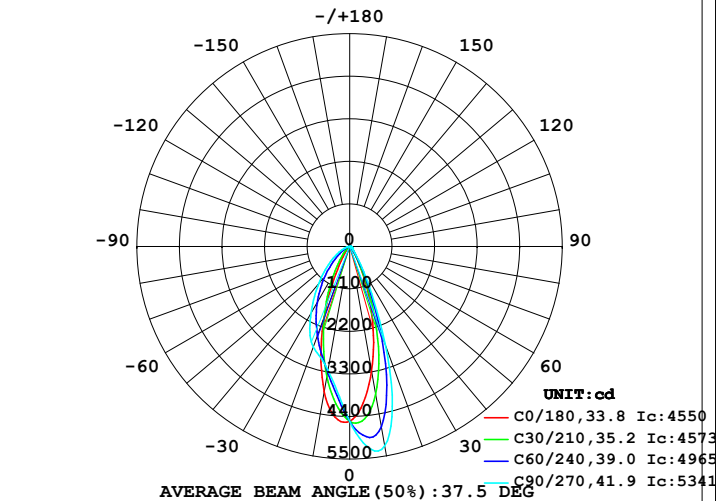


LUMINAIRE PHOTOMETRIC TEST REPORT

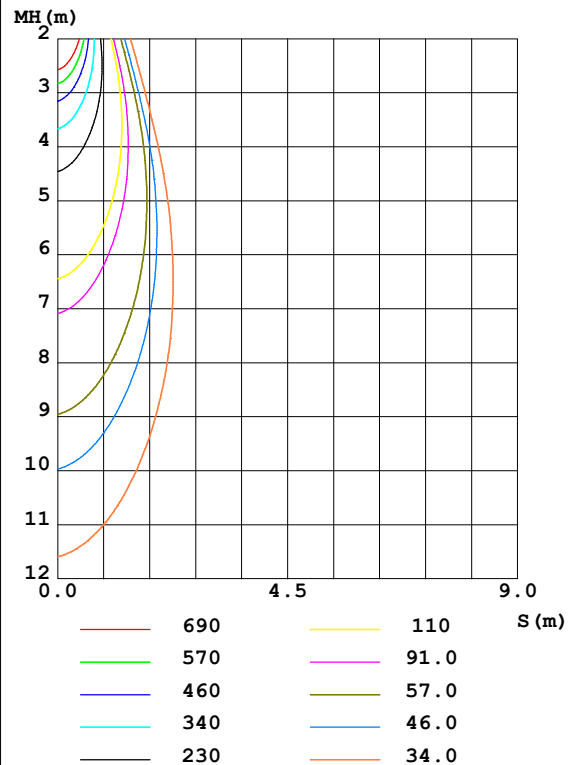
Test:U:225.1V I:0.1600A P:34.30W PF:0.9500 Freq:50.00Hz Lamp Flux:2766.38x1 lm		
NAME: ALT85W-35G30-F	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:72	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 80.65 lm/W			
MODEL	3000K CRI90	I _{max} (cd)	5369	S/MH(C0/180)	0.59
NOMINAL POWER(W)	35	LOR(%)	100.0	S/MH(C90/270)	0.75
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	2766.4	η UP,DN(C0-180)	0.0,42.6
NOMINAL FLUX(lm)	2766.38	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,57.4
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	225.2	η down(%)	100.0	CIBSE SHR MAX	0.55

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: AE
 Test Date: 2020-05-28

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.265
 Humidity: 65.0%
 Test Distance: 7.240m [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	3265	4334	5236	4860	3811	3319	3250	3066	0- 10	401.7	401.7	14.5,14.5
20	1558	2115	2690	2561	1933	2131	2765	1977	10- 20	851.2	1253	45.3,45.3
30	445.9	495.8	652.4	597.9	502.3	1186	2010	1183	20- 30	661.8	1915	69.2,69.2
40	173.3	148.0	195.5	152.0	164.5	549.2	1246	575.1	30- 40	380.3	2295	83,83
50	90.14	76.55	95.72	76.58	93.45	207.2	696.3	225.3	40- 50	227.5	2522	91.2,91.2
60	45.22	43.03	57.86	46.50	53.16	90.52	348.3	95.08	50- 60	130.7	2653	95.9,95.9
70	24.05	25.67	41.49	29.04	29.34	43.44	145.8	41.74	60- 70	71.32	2724	98.5,98.5
80	9.641	10.75	20.01	14.45	13.89	16.27	39.06	12.94	70- 80	33.44	2758	99.7,99.7
90	2.908	4.066	5.622	4.336	2.424	2.189	1.925	1.696	80- 90	8.502	2766	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		

Conical surface Flux(90deg): 2423.7 lm

%lum = 87.6%

%lamp = 87.6%

Conical surface Flux(120deg): 2653.1 lm

%lum = 95.9%

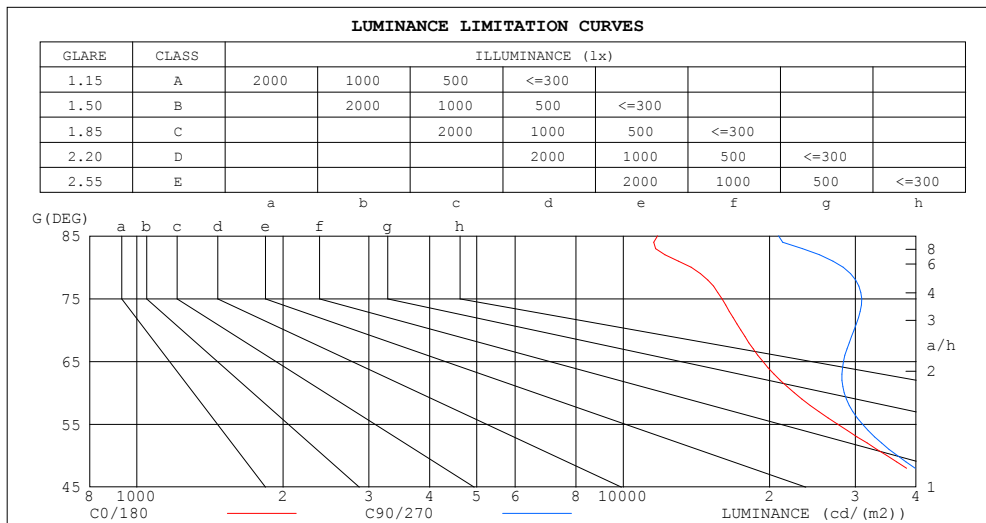
%lamp = 95.9%

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:AE
 Test Date:2020-05-28

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
 Humidity:65.0%
 Test Distance:7.240m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:225.1V I:0.1600A P:34.30W PF:0.9500 Freq:50.00Hz Lamp Flux:2766.38x1 lm		
NAME: ALT85W-35G30-F	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:72	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	11766	20867
80	13790	28331
75	15964	30935
70	17463	29819
65	19377	28360
60	22462	28447
55	27569	31012
50	34830	36608
45	44148	46271

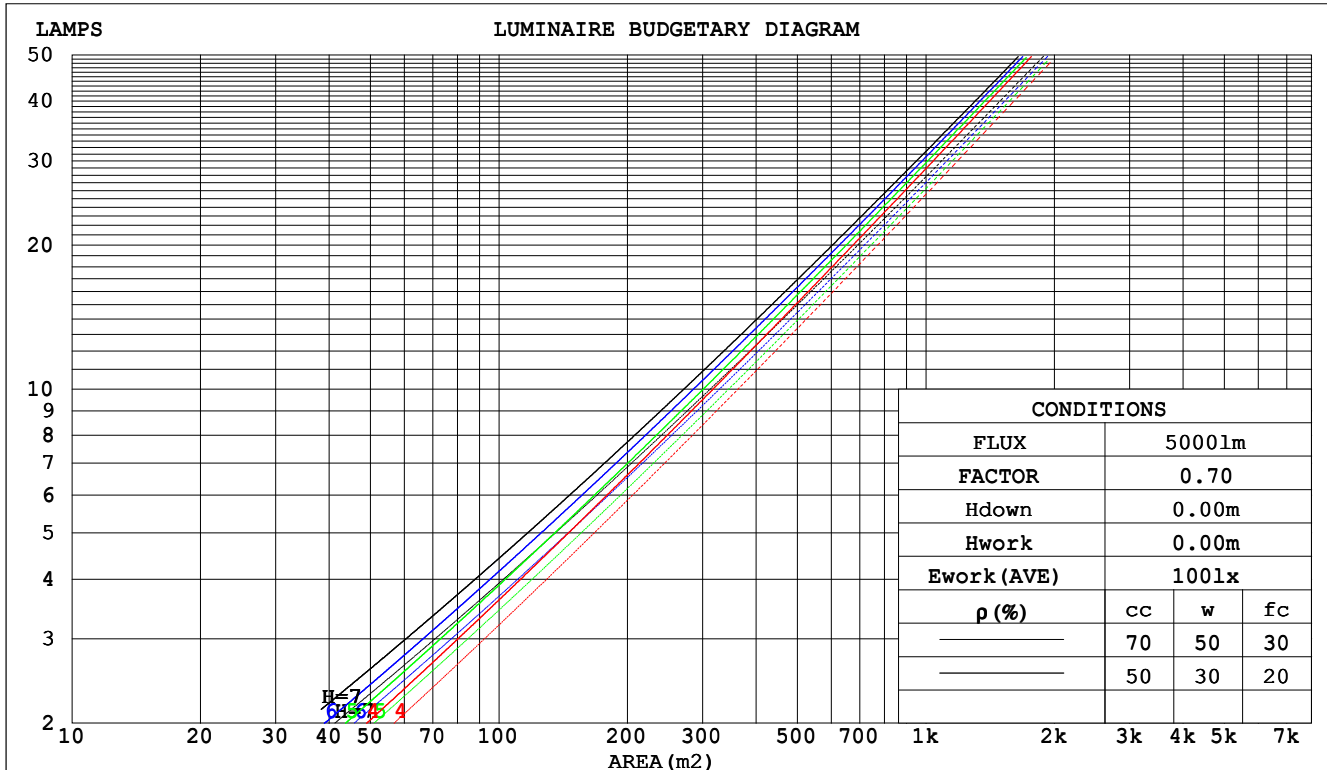
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:AE
Test Date:2020-05-28

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:7.240m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:225.1V I:0.1600A P:34.30W PF:0.9500 Freq:50.00Hz Lamp Flux:2766.38x1 lm		
NAME: ALT85W-35G30-F	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:72	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	1.19	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	1.10	1.07	1.05	1.08	1.05	1.03	1.04	1.02	1.00	1.00	.98	.97	.97	.95	.94	.92
2.0	1.02	.97	.94	1.00	.96	.93	.97	.94	.91	.94	.91	.89	.91	.89	.87	.85
3.0	.95	.89	.85	.93	.88	.84	.90	.86	.83	.88	.85	.82	.86	.83	.80	.79
4.0	.88	.82	.78	.87	.82	.78	.85	.80	.77	.83	.79	.76	.81	.78	.75	.73
5.0	.83	.77	.72	.82	.76	.72	.80	.75	.71	.78	.74	.71	.77	.73	.70	.68
6.0	.78	.72	.67	.77	.71	.67	.75	.70	.67	.74	.69	.66	.73	.69	.66	.64
7.0	.73	.67	.63	.73	.67	.63	.71	.66	.62	.70	.66	.62	.69	.65	.62	.60
8.0	.69	.63	.59	.69	.63	.59	.68	.63	.59	.67	.62	.59	.66	.61	.58	.57
9.0	.66	.60	.56	.65	.60	.56	.64	.59	.56	.64	.59	.55	.63	.58	.55	.54
10.0	.63	.57	.53	.62	.57	.53	.61	.56	.53	.61	.56	.53	.60	.56	.53	.51



C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:AE
 Test Date:2020-05-28

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
 Humidity:65.0%
 Test Distance:7.240m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:225.1V I:0.1600A P:34.30W PF:0.9500 Freq:50.00Hz Lamp Flux:2766.38x1 lm					
NAME: ALT85W-35G30-F			TYPE:		WEIGHT:
SPEC.:			DIM.:		SERIAL No.:
MFR.:			SUR.:72		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	.192	.109	.035	.186	.106	.034	.173	.099	.032	.161	.093	.030	.151	.087	.028	
2.0	.183	.100	.031	.177	.098	.030	.167	.093	.029	.157	.088	.028	.148	.083	.026	
3.0	.173	.092	.028	.168	.090	.027	.159	.086	.026	.150	.082	.025	.142	.079	.024	
4.0	.163	.085	.025	.158	.083	.025	.151	.080	.024	.143	.077	.023	.136	.074	.023	
5.0	.154	.078	.023	.150	.077	.022	.143	.074	.022	.137	.072	.021	.130	.070	.021	
6.0	.145	.073	.021	.142	.072	.021	.136	.070	.020	.130	.068	.020	.125	.066	.020	
7.0	.138	.068	.019	.135	.067	.019	.129	.065	.019	.124	.064	.019	.120	.062	.018	
8.0	.131	.064	.018	.128	.063	.018	.123	.062	.018	.119	.060	.017	.115	.059	.017	
9.0	.124	.060	.017	.122	.060	.017	.118	.058	.017	.114	.057	.016	.110	.056	.016	
10.0	.119	.057	.016	.117	.056	.016	.113	.055	.016	.109	.054	.015	.106	.053	.015	

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.172	.157	.144	.147	.135	.124	.101	.093	.086	.058	.054	.050	.019	.017	.016	
2.0	.158	.132	.111	.135	.114	.096	.093	.079	.067	.053	.046	.039	.017	.015	.013	
3.0	.146	.114	.088	.125	.098	.076	.086	.068	.054	.050	.040	.032	.016	.013	.010	
4.0	.136	.099	.071	.116	.086	.062	.080	.060	.044	.046	.035	.026	.015	.011	.008	
5.0	.127	.088	.059	.109	.076	.051	.075	.053	.036	.043	.031	.021	.014	.010	.007	
6.0	.119	.078	.049	.102	.068	.043	.071	.047	.030	.041	.028	.018	.013	.009	.006	
7.0	.112	.071	.042	.097	.061	.036	.067	.043	.026	.039	.025	.015	.013	.008	.005	
8.0	.106	.064	.036	.091	.056	.031	.063	.039	.022	.037	.023	.013	.012	.008	.004	
9.0	.101	.059	.031	.087	.051	.027	.060	.036	.019	.035	.021	.011	.011	.007	.004	
10.0	.096	.055	.027	.083	.048	.024	.057	.033	.017	.033	.020	.010	.011	.006	.003	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:AE
Test Date:2020-05-28

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:7.240m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:225.1V I:0.1600A P:34.30W PF:0.9500 Freq:50.00Hz Lamp Flux:2766.38x1 lm											
NAME: ALT85W-35G30-F					TYPE:			WEIGHT:			
SPEC.:					DIM.:			SERIAL No.:			
MFR.:					SUR.:72			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		14.3	15.3	14.5	15.4	15.6	15.7	16.6	15.9	16.8	17.0
	3H	15.0	15.9	15.2	16.1	16.3	16.8	17.7	17.0	17.9	18.1
	4H	15.3	16.2	15.6	16.4	16.6	17.4	18.3	17.7	18.5	18.7
	6H	15.5	16.4	15.8	16.6	16.9	17.9	18.8	18.2	19.0	19.3
	8H	15.6	16.4	15.9	16.6	16.9	18.1	18.9	18.4	19.1	19.4
	12H	15.6	16.4	16.0	16.7	16.9	18.2	18.9	18.5	19.2	19.5
4H	2H	14.6	15.4	14.9	15.7	15.9	15.8	16.6	16.1	16.9	17.1
	3H	15.5	16.2	15.8	16.5	16.8	17.1	17.8	17.4	18.1	18.4
	4H	15.9	16.6	16.2	16.9	17.2	17.9	18.5	18.2	18.8	19.2
	6H	16.2	16.8	16.6	17.2	17.5	18.5	19.1	18.9	19.5	19.8
	8H	16.3	16.9	16.7	17.2	17.6	18.8	19.3	19.1	19.7	20.0
	12H	16.4	16.9	16.8	17.3	17.7	18.9	19.4	19.3	19.7	20.1
8H	4H	16.1	16.7	16.5	17.0	17.4	17.9	18.5	18.3	18.8	19.2
	6H	16.6	17.0	17.0	17.4	17.8	18.7	19.1	19.1	19.5	20.0
	8H	16.7	17.1	17.1	17.5	18.0	19.0	19.4	19.4	19.8	20.2
	12H	16.8	17.1	17.3	17.6	18.1	19.1	19.5	19.6	19.9	20.4
12H	4H	16.1	16.6	16.5	17.0	17.4	17.9	18.4	18.3	18.8	19.2
	6H	16.6	17.0	17.0	17.4	17.9	18.7	19.1	19.1	19.5	19.9
	8H	16.8	17.1	17.2	17.6	18.0	19.0	19.3	19.4	19.8	20.2
Variations with the observer position at spacings:											
S = 1.0H	+ 0.7 / - 0.6					+ 0.5 / - 0.5					
1.5H	+ 1.2 / - 0.6					+ 1.1 / - 0.4					
2.0H	+ 1.5 / - 0.8					+ 0.9 / - 0.6					

CIE Pub.117, 2766 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.5)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:AE
Test Date:2020-05-28

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:7.240m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:225.1V I:0.1600A P:34.30W PF:0.9500 Freq:50.00Hz Lamp Flux:2766.38x1 lm		
NAME: ALT85W-35G30-F	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:72	Shielding Angle:

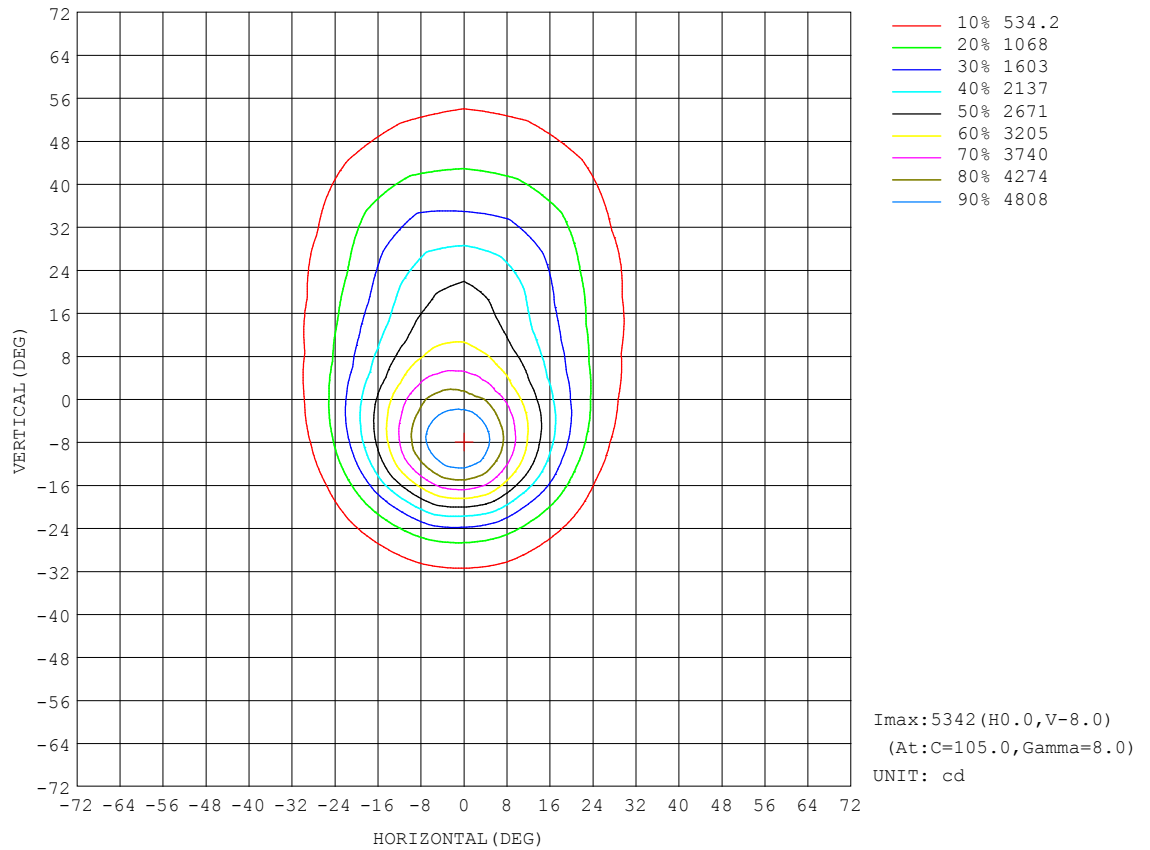
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	81	73	69	80	73	69	79	73	69	64
0.80	89	82	77	88	82	77	87	81	77	73
1.00	94	88	83	94	87	83	92	87	83	78
1.25	99	93	89	98	92	88	96	91	88	83
1.50	102	97	93	101	96	92	99	94	91	86
2.00	106	101	97	104	100	96	102	98	95	89
2.50	108	104	100	106	102	99	103	100	97	91
3.00	110	106	103	108	104	102	105	102	99	93
4.00	112	109	106	110	107	105	107	104	102	95
5.00	114	111	109	112	109	107	108	106	104	96
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:AE
Test Date:2020-05-28

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:7.240m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:225.1V I:0.1600A P:34.30W PF:0.9500 Freq:50.00Hz Lamp Flux:2766.38x1 lm		
NAME: ALT85W-35G30-F	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:72	Shielding Angle:

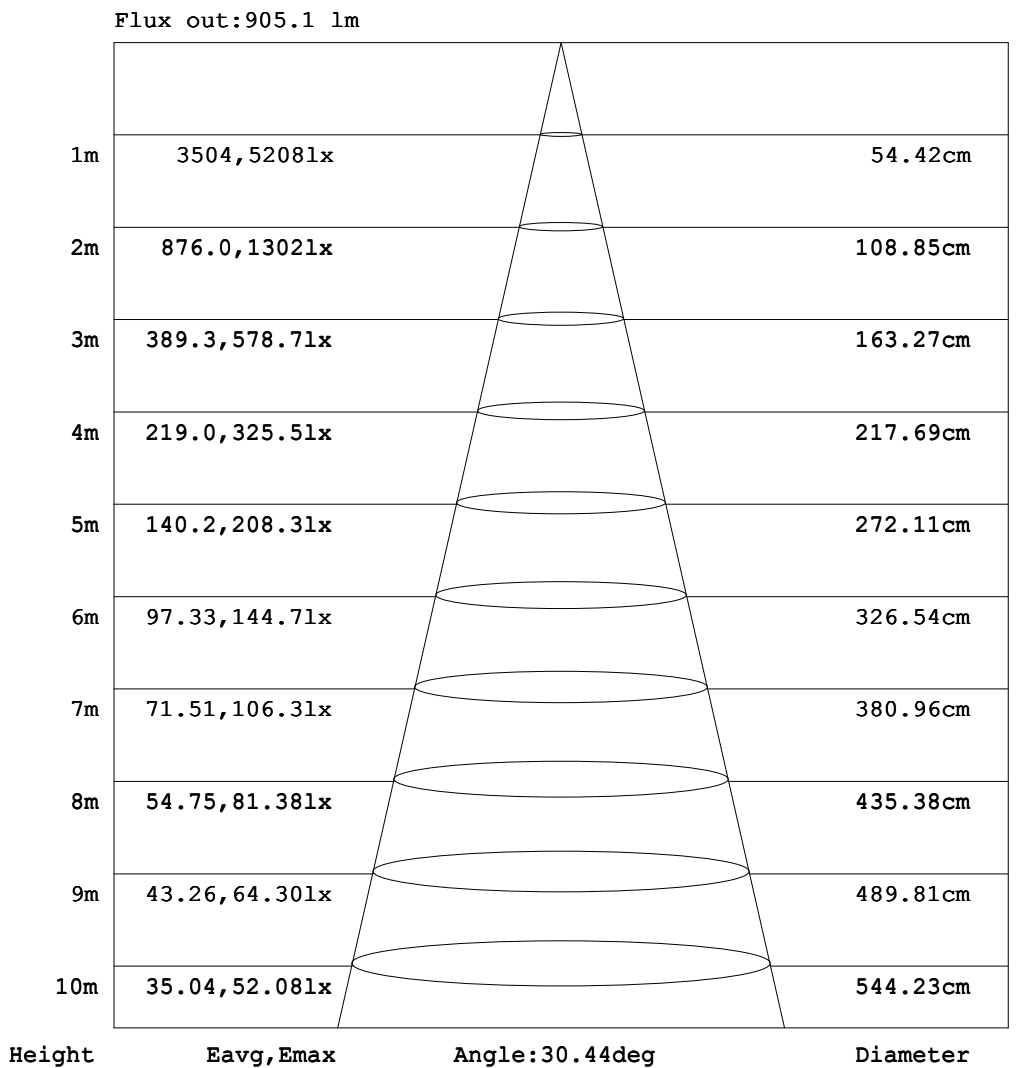


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:AE
Test Date:2020-05-28

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:7.240m [K=1.0000]
Remarks:

AAI Figure

Test:U:225.1V I:0.1600A P:34.30W PF:0.9500 Freq:50.00Hz Lamp Flux:2766.38x1 lm		
NAME: ALT85W-35G30-F	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:72	Shielding Angle:



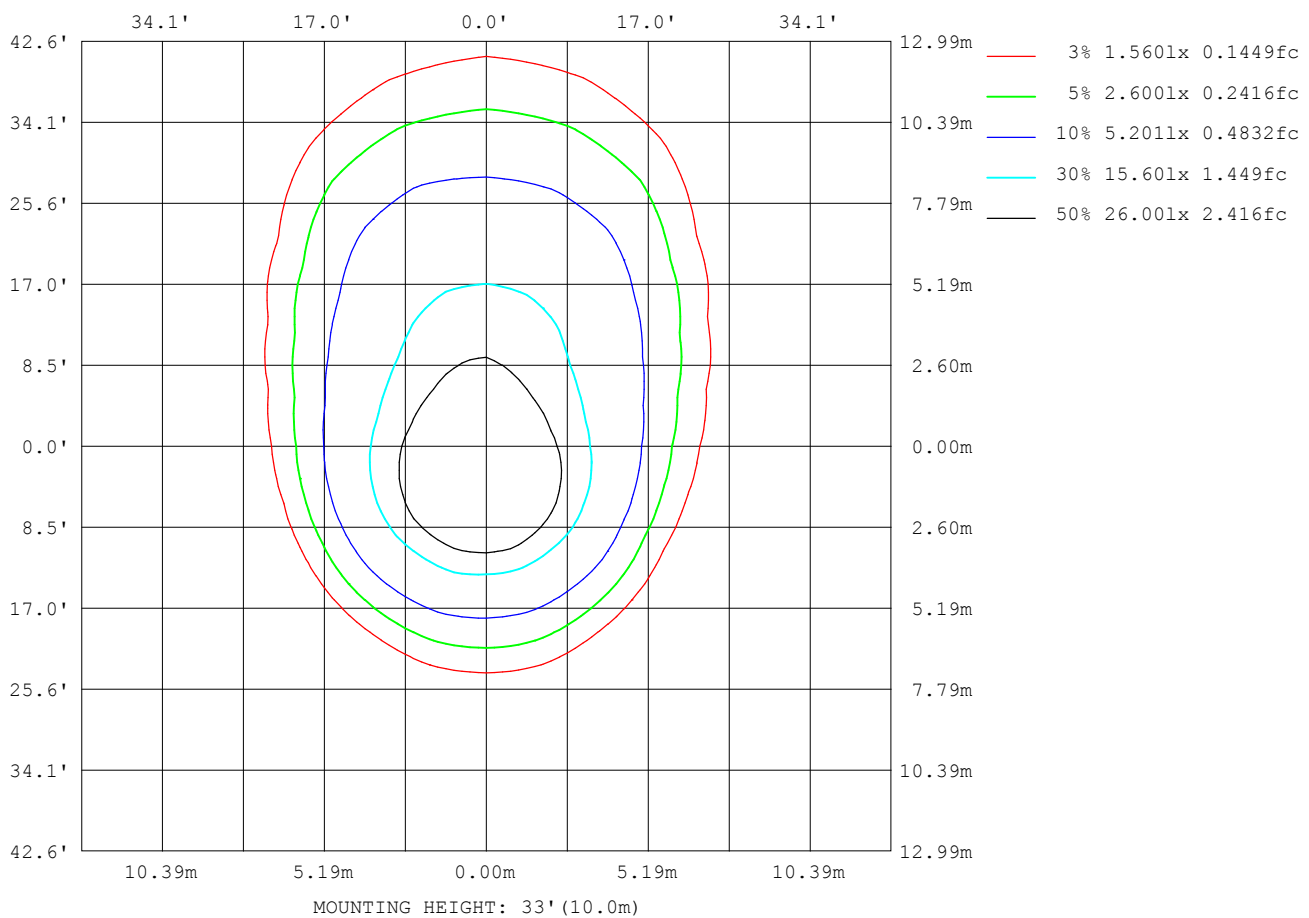
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: AE
 Test Date: 2020-05-28

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.265
 Humidity: 65.0%
 Test Distance: 7.240m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:225.1V I:0.1600A P:34.30W PF:0.9500 Freq:50.00Hz Lamp Flux:2766.38x1 lm		
NAME: ALT85W-35G30-F	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:72	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: AE
Test Date: 2020-05-28

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity: 65.0%
Test Distance: 7.240m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:225.1V I:0.1600A P:34.30W PF:0.9500 Freq:50.00Hz Lamp Flux:2766.38x1 lm		
NAME: ALT85W-35G30-F	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.:72	Shielding Angle:

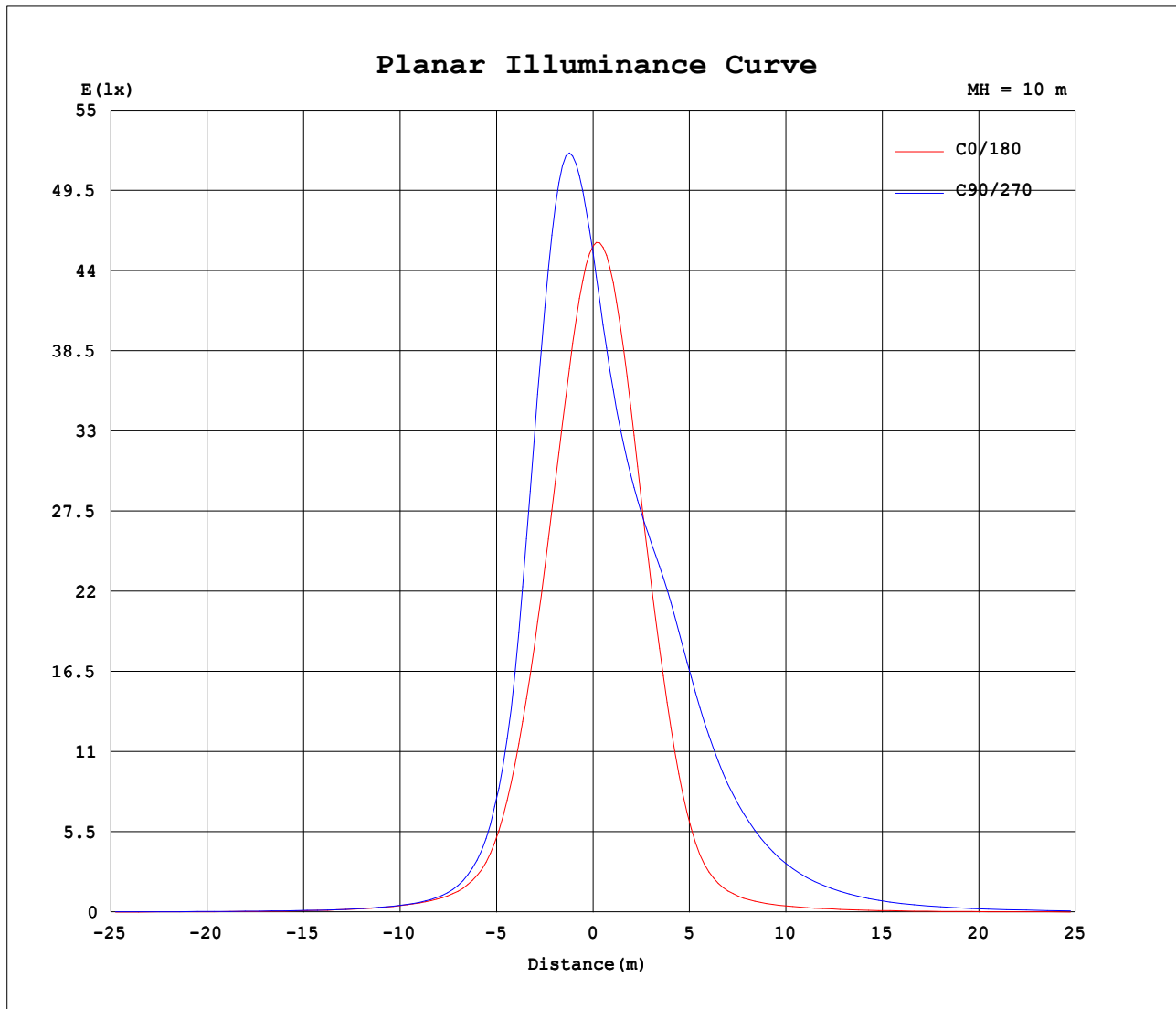
AvgL	cd/m2
L_0~180 (65) av	21026
L_0~180 (75) av	18052
L_0~180 (85) av	14666
L_90~270 (65) av	82208
L_90~270 (75) av	54302
L_90~270 (85) av	22839
L_45 (65) av	28588
L_45 (75) av	22321
L_45 (85) av	16396

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:AE
Test Date:2020-05-28

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:7.240m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: AE
Test Date: 2020-05-28

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
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Humidity: 65.0%
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