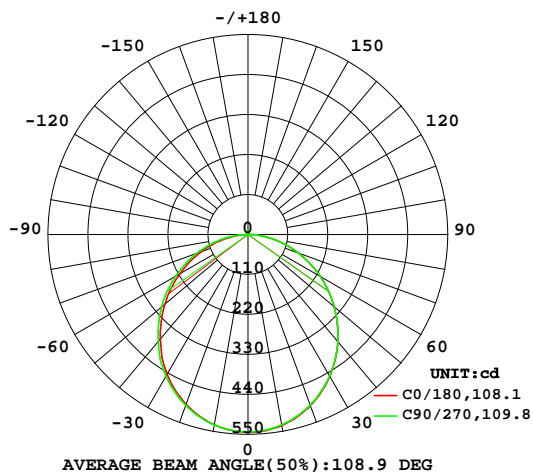


LUMINAIRE PHOTOMETRIC TEST REPORT

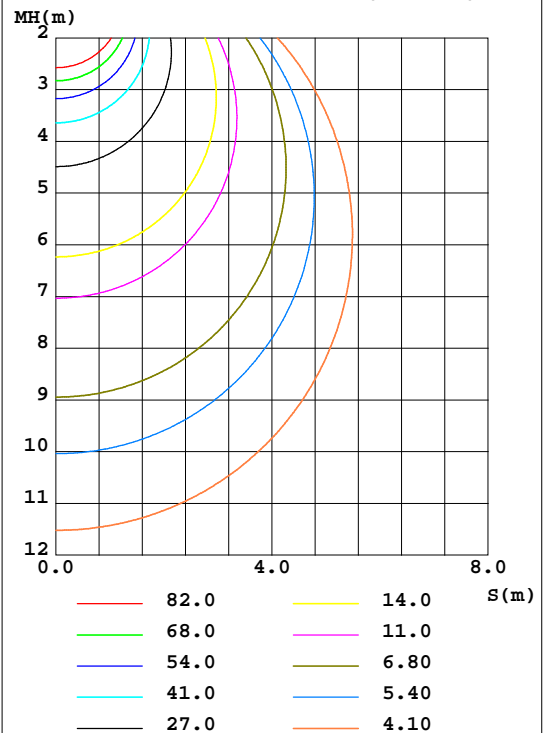
Test:U:24.00V I:0.9100A P:21.84W PF:1.000 Freq:0Hz Lamp Flux:1529.97x1 lm		
NAME: AS3535-15A90	TYPE:	WEIGHT:
SPEC.:AS3535-15A90	DIM.: 1000*35*35	SERIAL No.:
MFR.: COLORS	SUR.:1000*35	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 70.05 lm/W			
MODEL	AS3535-15A90	I _{max} (cd)	543.9	S/MH(C0/180)	1.22
NOMINAL POWER(W)	21.84	LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	1530.0	h UP,DN(C0-180)	0.7,49.4
NOMINAL FLUX(lm)	1529.97	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.7,49.1
LAMPS INSIDE	1	h up(%)	1.4	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	24	h down(%)	98.6	CIBSE SHR MAX	1.35

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2020-04-09

Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.950m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

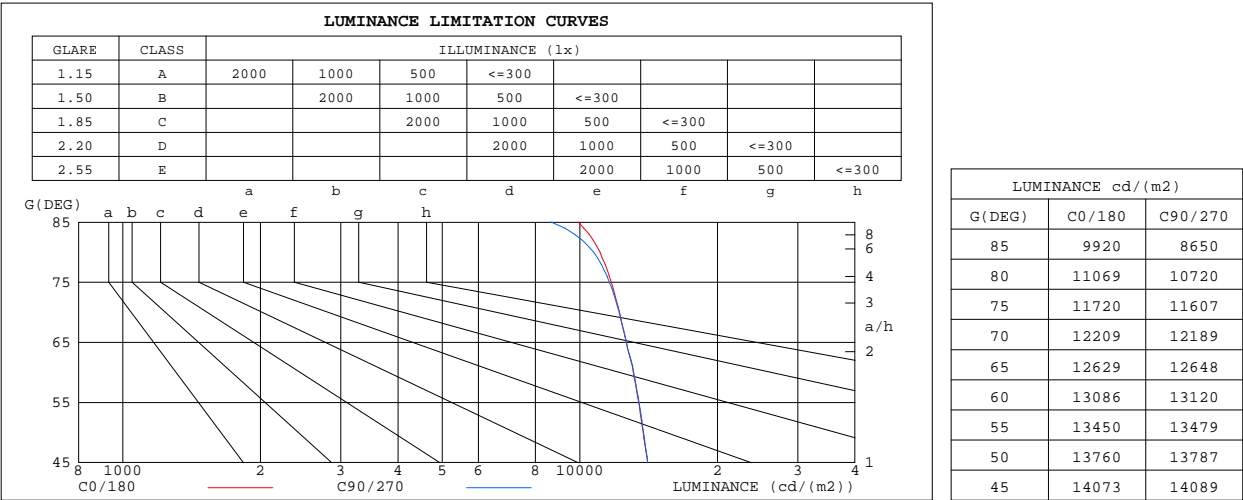
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	533.6	534.3	531.9	531.2	531.7	530.7	532.3	534.3	0- 10	51.36	51.36	3.36,3.36
20	501.6	503.6	499.9	497.5	497.7	496.9	500.6	503.2	10- 20	146.3	197.7	12.9,12.9
30	450.5	454.0	449.4	445.2	445.0	444.8	450.8	453.2	20- 30	219.6	417.3	27.3,27.3
40	384.9	387.6	384.8	376.4	375.3	378.4	384.4	388.7	30- 40	261.2	678.4	44.3,44.3
50	309.6	313.1	310.2	300.3	298.9	302.2	310.5	313.8	40- 50	266.8	945.2	61.8,61.8
60	229.0	233.0	229.6	219.0	217.3	220.9	230.4	233.3	50- 60	239.1	1184	77.4,77.4
70	146.2	151.1	145.9	136.6	135.0	137.6	148.3	150.3	60- 70	183.1	1367	89.4,89.4
80	67.28	70.91	65.15	56.68	56.34	59.25	69.33	71.82	70- 80	109.6	1477	96.5,96.5
90	2.708	3.027	1.558	1.202	0.3483	0.3845	0.4463	2.463	80- 90	31.17	1508	98.6,98.6
100	1.362	1.690	1.469	1.450	1.083	0.9617	1.018	1.039	90-100	1.104	1509	98.6,98.6
110	2.523	2.622	2.313	2.052	1.933	1.775	2.225	2.164	100-110	1.787	1511	98.8,98.8
120	3.613	3.714	3.473	2.966	2.900	2.744	3.241	3.290	110-120	2.711	1514	98.9,98.9
130	4.569	4.335	4.446	4.145	3.890	3.981	4.144	3.780	120-130	3.320	1517	99.2,99.2
140	5.130	4.535	5.329	5.571	4.912	5.488	5.003	3.927	130-140	3.541	1521	99.4,99.4
150	5.630	4.909	6.255	7.034	5.852	7.062	6.175	4.382	140-150	3.394	1524	99.6,99.6
160	6.285	5.645	7.853	8.389	6.880	8.421	7.925	5.109	150-160	2.995	1527	99.8,99.8
170	6.933	7.590	8.928	9.312	7.528	9.377	9.018	7.459	160-170	2.150	1529	99.9,99.9
180	7.888	9.558	9.832	9.505	7.942	9.558	9.886	9.472	170-180	0.8241	1530	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-04-09

g Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:24.00V I:0.9100A P:21.84W PF:1.000 Freq:0Hz Lamp Flux:1529.97x1 lm		
NAME: AS3535-15A90	TYPE:	WEIGHT:
SPEC.:AS3535-15A90	DIM.: 1000*35*35	SERIAL No.:
MFR.: COLORS	SUR.:1000*35	Shielding Angle:



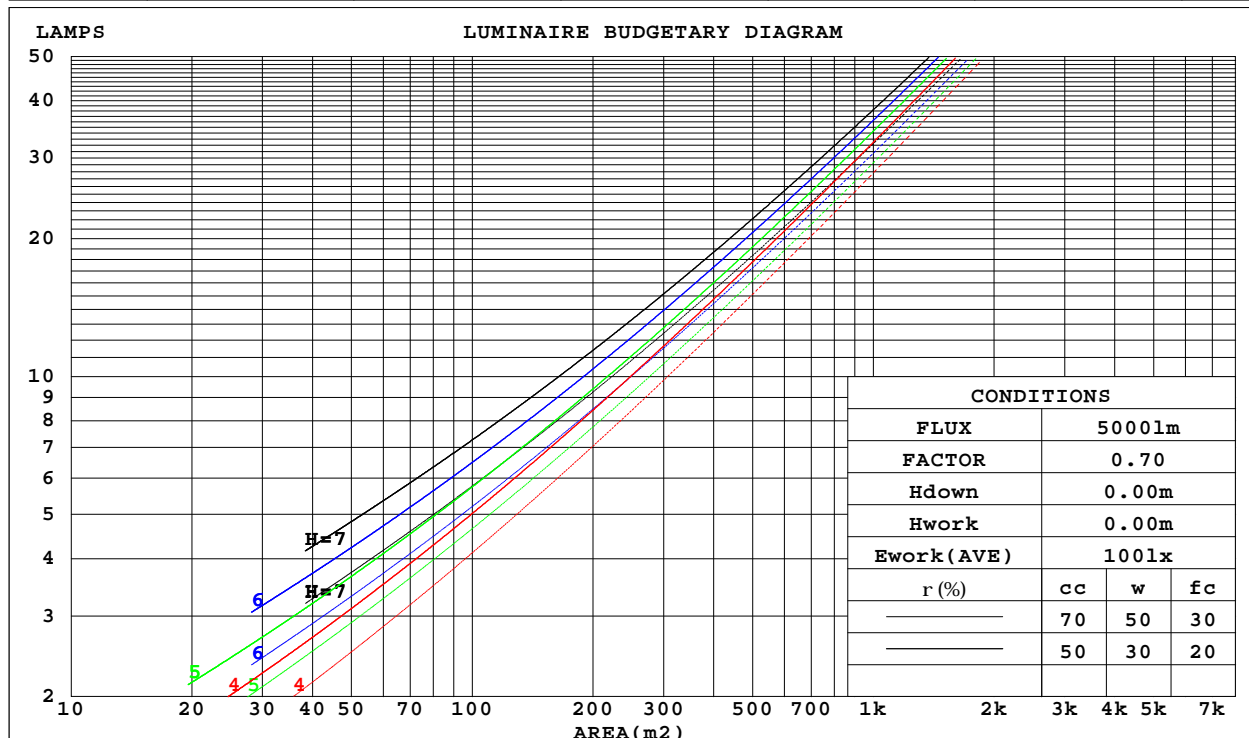
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-04-09

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.00V I:0.9100A P:21.84W PF:1.000 Freq:0Hz Lamp Flux:1529.97x1 lm		
NAME: AS3535-15A90	TYPE:	WEIGHT:
SPEC.:AS3535-15A90	DIM.: 1000*35*35	SERIAL No.:
MFR.: COLORS	SUR.:1000*35	Shielding Angle:

r _{cc}	80%			70%			50%			30%			10%			0
r _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2020-04-09

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.950m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:24.00V I:0.9100A P:21.84W PF:1.000 Freq:0Hz Lamp Flux:1529.97x1 lm		
NAME: AS3535-15A90	TYPE:	WEIGHT:
SPEC.:AS3535-15A90	DIM.: 1000*35*35	SERIAL No.:
MFR.: COLORS	SUR.:1000*35	Shielding Angle:

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.201	.201	.201	.172	.172	.172	.117	.117	.117	.067	.067	.067	.022	.022	.022	
1.0	.191	.167	.145	.164	.143	.125	.112	.099	.086	.064	.057	.050	.021	.018	.016	
2.0	.183	.143	.109	.157	.123	.094	.108	.085	.066	.062	.050	.039	.020	.016	.013	
3.0	.175	.125	.085	.150	.108	.074	.103	.075	.052	.060	.044	.031	.019	.014	.010	
4.0	.168	.112	.070	.144	.097	.060	.099	.068	.043	.057	.040	.025	.018	.013	.008	
5.0	.160	.102	.058	.138	.088	.051	.095	.061	.036	.055	.036	.021	.018	.012	.007	
6.0	.153	.093	.050	.132	.081	.044	.091	.057	.031	.053	.033	.018	.017	.011	.006	
7.0	.146	.086	.045	.126	.075	.039	.087	.053	.028	.051	.031	.016	.016	.010	.005	
8.0	.140	.081	.040	.120	.070	.035	.083	.049	.025	.048	.029	.015	.016	.010	.005	
9.0	.134	.076	.037	.115	.066	.032	.080	.046	.023	.047	.027	.014	.015	.009	.004	
10.0	.128	.071	.034	.110	.062	.029	.077	.044	.021	.045	.026	.013	.014	.008	.004	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-04-09

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:24.00V I:0.9100A P:21.84W PF:1.000 Freq:0Hz Lamp Flux:1529.97x1 lm										
NAME: AS3535-15A90					TYPE:			WEIGHT:		
SPEC.:AS3535-15A90					DIM.: 1000*35*35			SERIAL No.:		
MFR.: COLORS					SUR.:1000*35			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	20.4	21.9	20.7	22.1	22.3	20.4	21.9	20.7	22.1	22.3
3H	21.9	23.3	22.2	23.6	23.8	21.9	23.3	22.2	23.6	23.8
4H	22.6	23.9	22.9	24.2	24.5	22.6	23.9	22.9	24.2	24.5
6H	23.1	24.3	23.5	24.6	24.9	23.1	24.3	23.4	24.6	24.9
8H	23.3	24.5	23.6	24.8	25.1	23.2	24.4	23.6	24.7	25.1
12H	23.4	24.5	23.8	24.9	25.2	23.3	24.5	23.7	24.8	25.1
4H 2H	21.0	22.3	21.3	22.6	22.9	21.0	22.3	21.3	22.6	22.9
3H	22.8	23.9	23.1	24.2	24.6	22.8	23.9	23.1	24.2	24.6
4H	23.6	24.6	24.0	25.0	25.3	23.6	24.6	23.9	25.0	25.3
6H	24.2	25.1	24.6	25.5	25.9	24.2	25.1	24.6	25.5	25.9
8H	24.4	25.3	24.9	25.7	26.1	24.4	25.3	24.8	25.7	26.1
12H	24.6	25.4	25.1	25.8	26.3	24.5	25.3	25.0	25.7	26.2
8H 4H	23.9	24.7	24.3	25.1	25.6	23.9	24.7	24.3	25.1	25.5
6H	24.7	25.4	25.2	25.8	26.3	24.7	25.4	25.1	25.8	26.3
8H	25.0	25.7	25.5	26.1	26.6	25.0	25.6	25.5	26.1	26.5
12H	25.3	25.8	25.8	26.3	26.8	25.2	25.7	25.7	26.2	26.7
12H 4H	23.9	24.7	24.3	25.1	25.5	23.9	24.7	24.3	25.1	25.5
6H	24.8	25.4	25.3	25.9	26.3	24.7	25.4	25.2	25.8	26.3
8H	25.2	25.7	25.7	26.2	26.7	25.1	25.7	25.6	26.1	26.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.3					+ 0.1 / - 0.3				

CIE Pub.117, 1530 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 1.5)

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-04-09

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:24.00V I:0.9100A P:21.84W PF:1.000 Freq:0Hz Lamp Flux:1529.97x1 lm		
NAME: AS3535-15A90	TYPE:	WEIGHT:
SPEC.:AS3535-15A90	DIM.: 1000*35*35	SERIAL No.:
MFR.: COLORS	SUR.:1000*35	Shielding Angle:

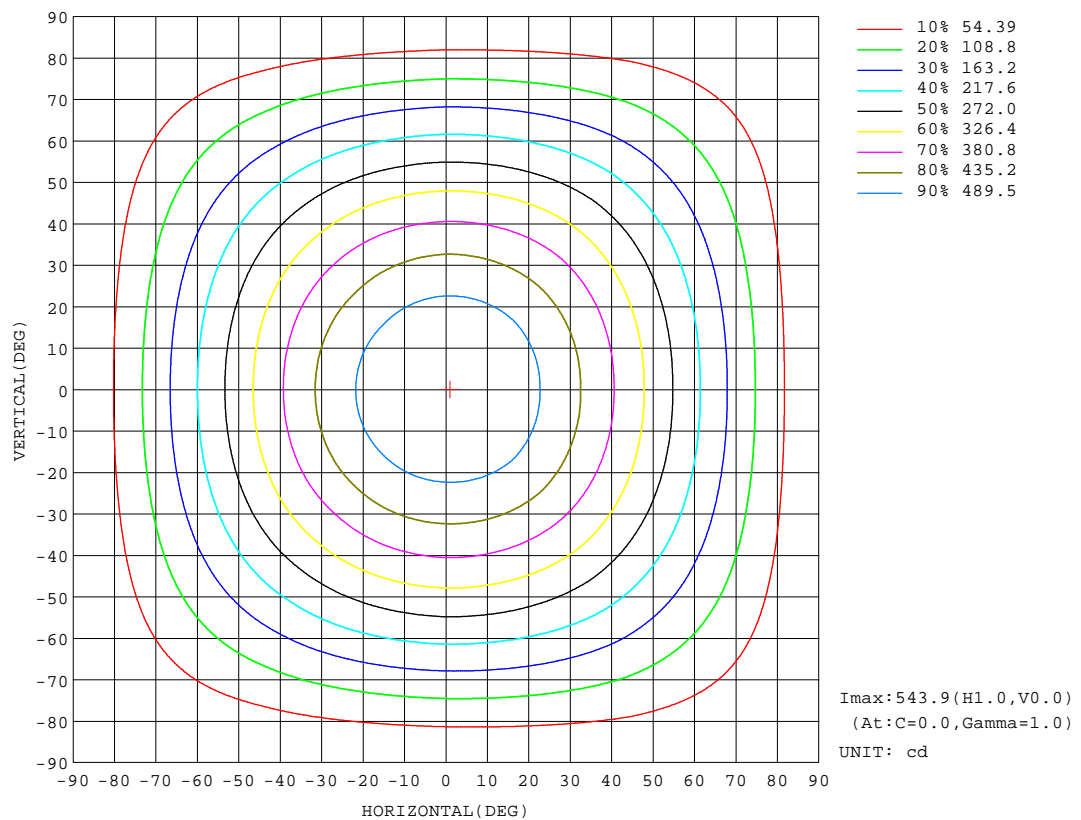
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	57	46	39	57	46	39	55	45	39	32
0.80	67	56	48	66	55	48	64	54	48	41
1.00	76	65	57	74	64	57	72	65	56	49
1.25	83	72	65	81	71	65	78	70	64	56
1.50	88	78	71	86	77	70	83	75	69	61
2.00	94	86	79	93	85	79	89	82	77	69
2.50	98	91	85	96	89	84	92	86	81	73
3.00	102	95	89	99	93	88	95	90	86	77
4.00	106	100	95	103	98	94	99	95	91	82
5.00	108	103	99	106	101	98	101	97	94	85
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-04-09

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:24.00V I:0.9100A P:21.84W PF:1.000 Freq:0Hz Lamp Flux:1529.97x1 lm		
NAME: AS3535-15A90	TYPE:	WEIGHT:
SPEC.:AS3535-15A90	DIM.: 1000*35*35	SERIAL No.:
MFR.: COLORS	SUR.:1000*35	Shielding Angle:



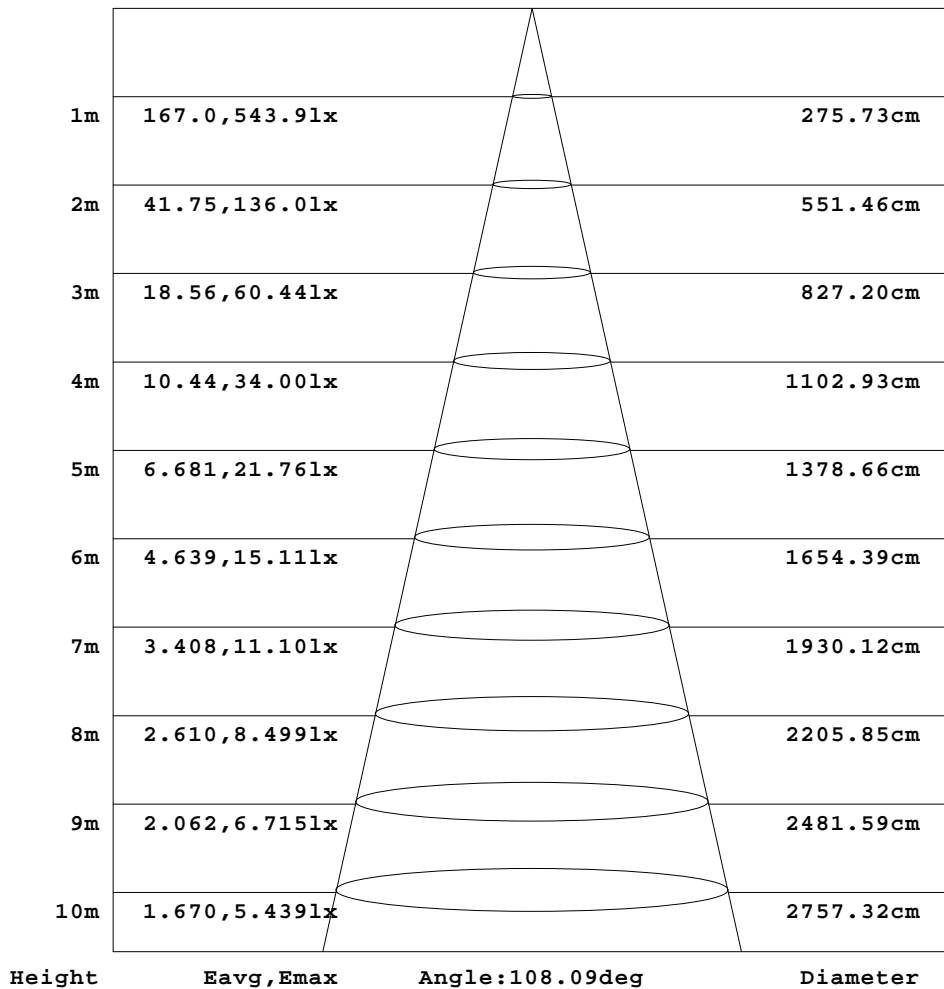
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-04-09

Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

AAI Figure

Test:U:24.00V I:0.9100A P:21.84W PF:1.000 Freq:0Hz Lamp Flux:1529.97x1 lm		
NAME: AS3535-15A90	TYPE:	WEIGHT:
SPEC.:AS3535-15A90	DIM.: 1000*35*35	SERIAL No.:
MFR.: COLORS	SUR.:1000*35	Shielding Angle:

Flux out:1070 lm



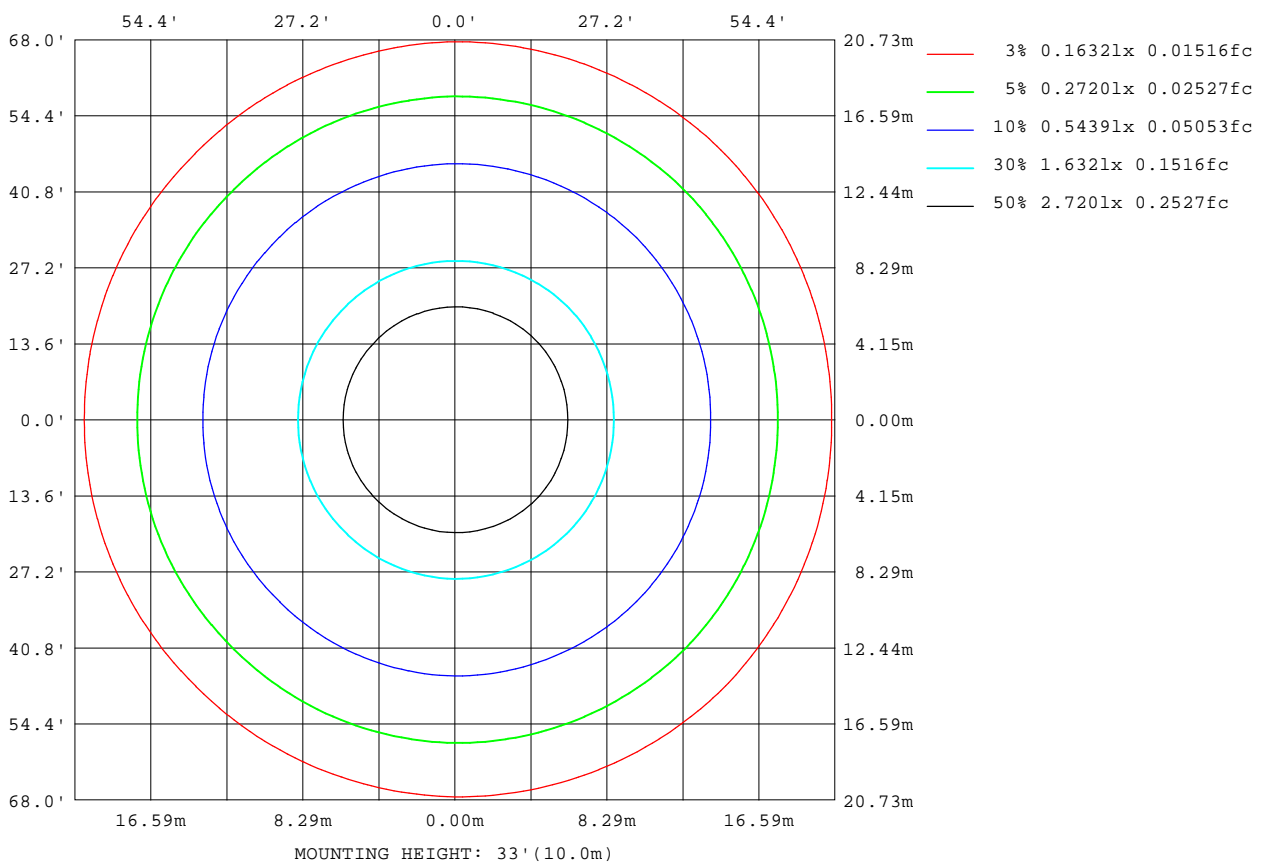
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-04-09

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:24.00V I:0.9100A P:21.84W PF:1.000 Freq:0Hz Lamp Flux:1529.97x1 lm		
NAME: AS3535-15A90	TYPE:	WEIGHT:
SPEC.:AS3535-15A90	DIM.: 1000*35*35	SERIAL No.:
MFR.: COLORS	SUR.:1000*35	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2020-04-09

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.950m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:24.00V I:0.9100A P:21.84W PF:1.000 Freq:0Hz Lamp Flux:1529.97x1 lm		
NAME: AS3535-15A90	TYPE:	WEIGHT:
SPEC.:AS3535-15A90	DIM.: 1000*35*35	SERIAL No.:
MFR.: COLORS	SUR.:1000*35	Shielding Angle:

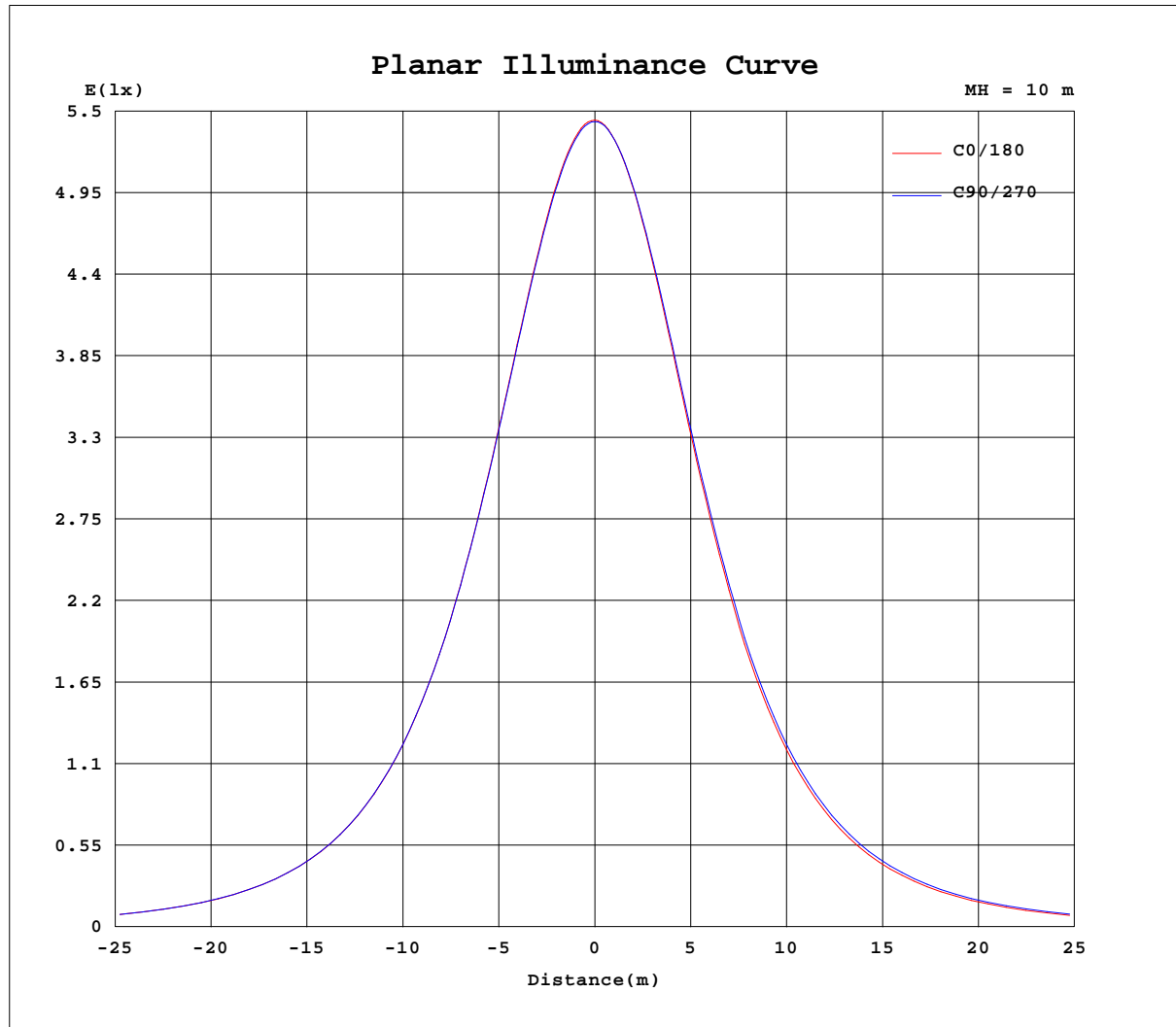
AvgL	cd/m2
L_0~180(65)av	12264
L_0~180(75)av	11113
L_0~180(85)av	8181
L_90~270(65)av	12721
L_90~270(75)av	11784
L_90~270(85)av	9477
L_45(65)av	12491
L_45(75)av	11456
L_45(85)av	8898

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-04-09

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JYH
Test Date: 2020-04-09

Range: 0 - 180DEG
Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 10.950m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:24.00V I:0.9100A P:21.84W PF:1.000 Freq:0Hz Lamp Flux:1529.97x1 lm		
NAME: AS3535-15A90	TYPE:	WEIGHT:
SPEC.:AS3535-15A90	DIM.: 1000*35*35	SERIAL No.:
MFR.: COLORS	SUR.:1000*35	Shielding Angle:

Table--1

UNIT: cd

C(DEG) g (DEG)	0	45	90	135	180	225	270	315										
0	544	544	543	544	544	544	543	544										
5	542	542	540	540	541	540	540	542										
10	534	534	532	531	532	531	532	534										
15	520	521	518	517	517	516	519	521										
20	502	504	500	497	498	497	501	503										
25	478	481	477	473	473	473	478	480										
30	450	454	449	445	445	445	451	453										
35	419	424	419	414	413	413	420	423										
40	385	388	385	376	375	378	384	389										
45	348	351	349	339	338	341	348	352										
50	310	313	310	300	299	302	310	314										
55	270	273	271	260	258	262	271	274										
60	229	233	230	219	217	221	230	233										
65	187	192	187	178	176	178	189	191										
70	146	151	146	137	135	138	148	150										
75	106	111	105	96.2	95.2	97.9	108	111										
80	67.3	70.9	65.2	56.7	56.3	59.2	69.3	71.8										
85	30.3	33.1	26.4	19.2	19.7	22.0	31.4	34.2										
90	2.71	3.03	1.56	1.20	0.35	0.38	0.45	2.46										
95	0.92	1.38	1.46	1.29	0.66	0.61	0.58	0.55										
100	1.36	1.69	1.47	1.45	1.08	0.96	1.02	1.04										
105	1.88	2.10	1.72	1.66	1.50	1.34	1.61	1.60										
110	2.52	2.62	2.31	2.05	1.93	1.78	2.23	2.16										
115	3.08	3.19	2.96	2.51	2.41	2.23	2.83	2.82										
120	3.61	3.71	3.47	2.97	2.90	2.74	3.24	3.29										
125	4.11	4.11	3.95	3.52	3.38	3.31	3.68	3.66										
130	4.57	4.34	4.45	4.15	3.89	3.98	4.14	3.78										
135	4.89	4.46	4.91	4.85	4.41	4.71	4.62	3.84										
140	5.13	4.54	5.33	5.57	4.91	5.49	5.00	3.93										
145	5.37	4.66	5.74	6.31	5.38	6.27	5.41	4.11										
150	5.63	4.91	6.26	7.03	5.85	7.06	6.17	4.38										
155	5.98	5.25	7.13	7.74	6.37	7.80	7.19	4.71										
160	6.28	5.65	7.85	8.39	6.88	8.42	7.92	5.11										
165	6.59	6.37	8.36	8.89	7.34	8.96	8.45	6.17										
170	6.93	7.59	8.93	9.31	7.53	9.38	9.02	7.46										
175	7.43	8.72	9.43	9.58	7.66	9.60	9.57	8.61										
180	7.89	9.56	9.83	9.50	7.94	9.56	9.89	9.47										

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-04-09

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks: