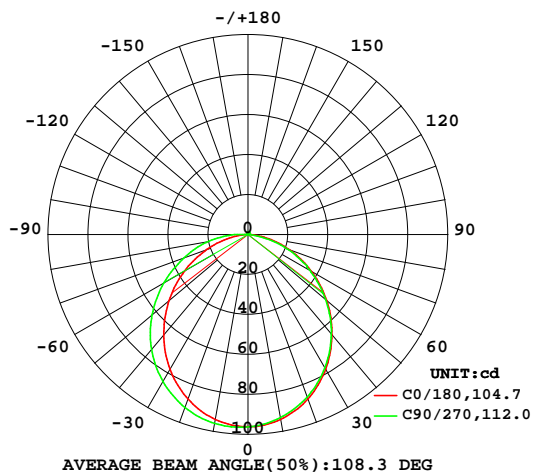


LUMINAIRE PHOTOMETRIC TEST REPORT

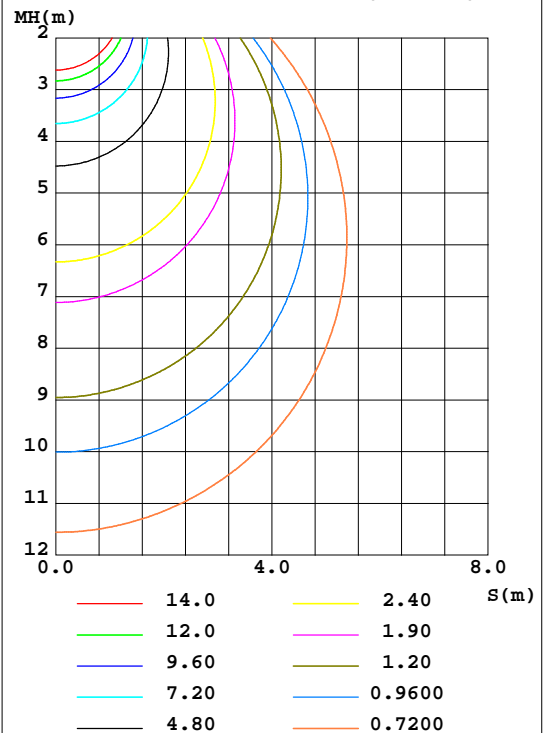
Test:U:24.00V I:0.2640A P:6.300W PF:1.000 Freq:0Hz Lamp Flux:283.31lx1 lm		
NAME: AS3535-03N90	TYPE:	WEIGHT:
SPEC.:AS3535-03N90	DIM.: 300*35*35	SERIAL No.:
MFR.: COLORS	SUR.:300*35	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 44.97 lm/W			
MODEL	AS3535-03N90	I _{max} (cd)	96.56	S/MH(C0/180)	1.21
NOMINAL POWER(W)	6.3	LOR(%)	100.0	S/MH(C90/270)	1.31
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	283.31	h UP,DN(C0-180)	1.4,44.7
NOMINAL FLUX(lm)	283.311	CIE CLASS	DIRECT	h UP,DN(C180-360)	1.9,52.0
LAMPS INSIDE	1	h up(%)	3.3	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	24	h down(%)	96.7	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:2020-04-17

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:

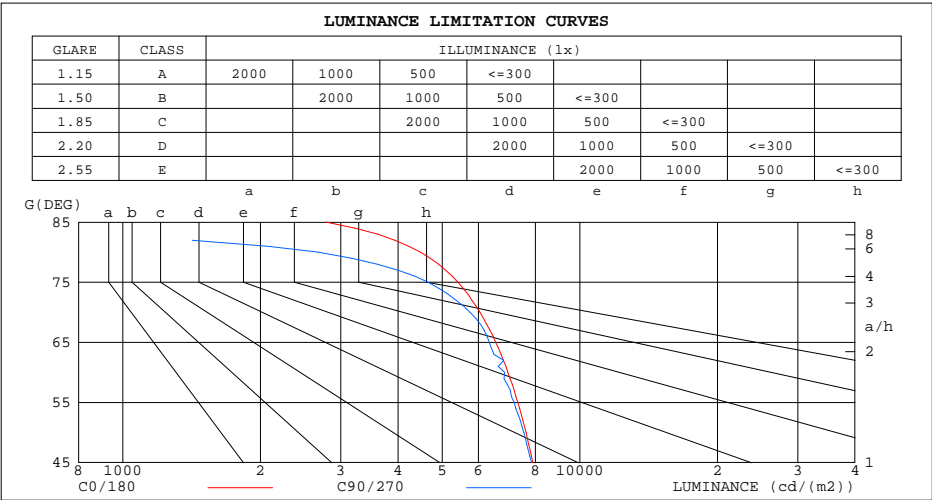
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	93.91	93.24	93.07	93.22	93.99	95.30	95.94	95.83	0- 10	9.095	9.095	3.21,3.21
20	87.62	86.42	86.55	86.72	87.67	90.43	92.14	91.78	10- 20	25.93	35.02	12.4,12.4
30	77.84	76.42	76.96	77.27	77.98	82.15	84.99	84.51	20- 30	38.97	73.99	26.1,26.1
40	65.43	63.95	64.96	66.44	65.57	71.09	75.06	74.38	30- 40	46.51	120.5	42.5,42.5
50	51.46	49.56	50.88	51.49	51.60	57.92	62.69	61.87	40- 50	47.55	168.0	59.3,59.3
60	36.55	34.71	35.93	36.59	36.72	43.50	48.62	47.88	50- 60	42.38	210.4	74.3,74.3
70	21.71	22.01	20.66	25.13	21.84	29.43	33.89	33.96	60- 70	32.59	243.0	85.8,85.8
80	8.169	12.67	4.879	16.08	8.339	18.35	19.88	23.14	70- 80	20.96	264.0	93.2,93.2
90	0.1979	6.590	0.3195	8.416	0.0267	10.77	5.391	14.27	80- 90	10.12	274.1	96.7,96.7
100	0.1402	2.298	0.3541	1.565	0.1406	5.158	0.1553	4.700	90-100	4.063	278.2	98.2,98.2
110	0.3139	0.5609	0.6066	0.7213	0.3012	1.702	0.3473	2.380	100-110	1.444	279.6	98.7,98.7
120	0.4739	0.6947	0.9418	0.7828	0.4543	0.4613	0.5550	0.8635	110-120	0.6975	280.3	98.9,98.9
130	0.6277	0.9089	1.241	1.096	0.6080	0.5069	0.8083	0.7145	120-130	0.6477	281.0	99.2,99.2
140	0.8216	1.162	1.463	1.390	0.7482	0.6212	1.002	0.9349	130-140	0.7124	281.7	99.4,99.4
150	0.9883	1.363	1.596	1.503	0.8685	0.7681	1.022	1.075	140-150	0.6865	282.4	99.7,99.7
160	1.169	1.469	1.590	1.469	0.9819	0.8483	0.9278	0.9553	150-160	0.5408	282.9	99.9,99.9
170	1.269	1.276	1.357	1.269	0.9819	0.8283	0.7815	0.7883	160-170	0.3202	283.2	100,100
180	1.075	1.075	1.109	1.082	1.069	1.069	1.075	1.075	170-180	0.0987	283.3	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:2020-04-17

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:

LUMINANCE LIMITATION CURVES

Test:U:24.00V I:0.2640A P:6.300W PF:1.000 Freq:0Hz Lamp Flux:283.31lx1 lm		
NAME: AS3535-03N90	TYPE:	WEIGHT:
SPEC.:AS3535-03N90	DIM.: 300*35*35	SERIAL No.:
MFR.: COLORS	SUR.:300*35	Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	2781	300
80	4481	2676
75	5414	4654
70	6045	5752
65	6546	6340
60	6961	6844
55	7321	7186
50	7624	7538
45	7897	7841

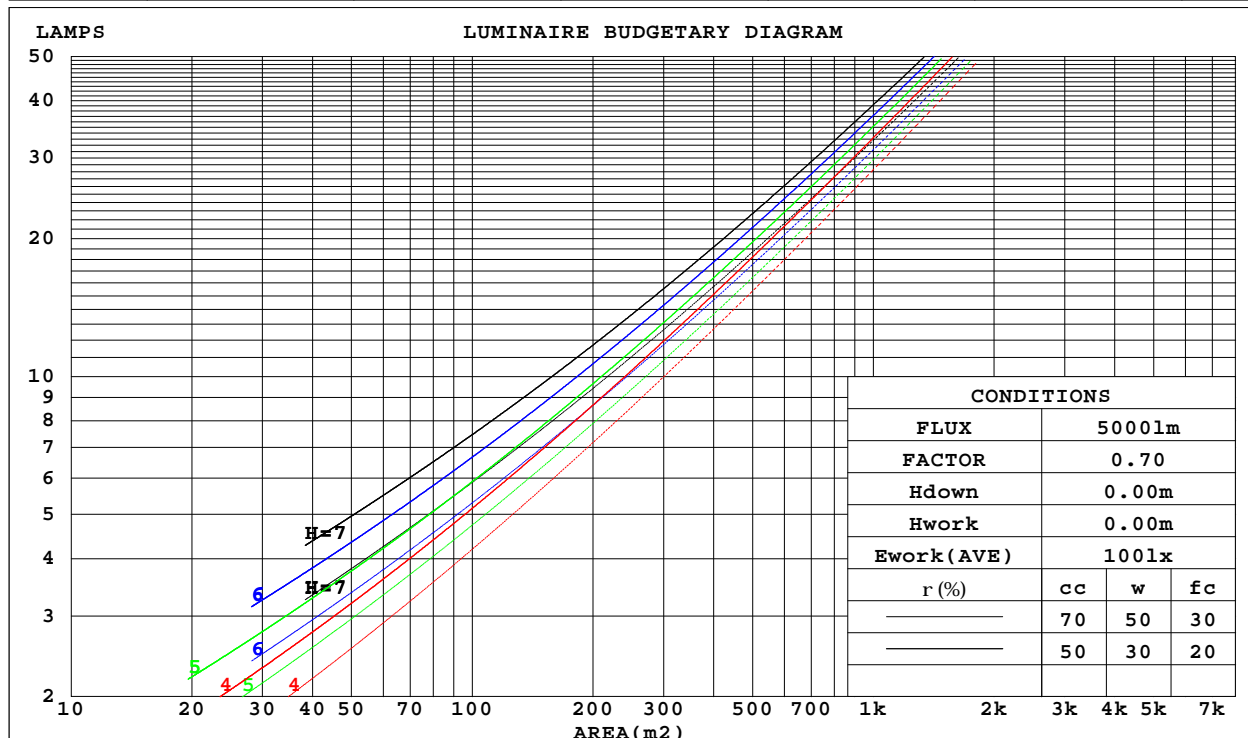
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-04-17

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:0.2640A P:6.300W PF:1.000 Freq:0Hz Lamp Flux:283.31lx1 lm		
NAME: AS3535-03N90	TYPE:	WEIGHT:
SPEC.:AS3535-03N90	DIM.: 300*35*35	SERIAL No.:
MFR.: COLORS	SUR.:300*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:2020-04-17

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:0.2640A P:6.300W PF:1.000 Freq:0Hz Lamp Flux:283.31lx1 lm		
NAME: AS3535-03N90	TYPE:	WEIGHT:
SPEC.:AS3535-03N90	DIM.: 300*35*35	SERIAL No.:
MFR.: COLORS	SUR.:300*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															Wall Exitance Coefficients(WEC)														
0.0																														
1.0	.328	.186	.059	.319	.182	.058	.304	.175	.056	.290	.167	.054	.277	.161	.052															
2.0	.300	.164	.050	.293	.161	.050	.279	.155	.048	.267	.150	.047	.255	.144	.046															
3.0	.274	.146	.044	.268	.143	.043	.256	.139	.042	.245	.134	.041	.235	.130	.040															
4.0	.252	.131	.038	.246	.129	.038	.235	.125	.037	.225	.121	.036	.216	.117	.036															
5.0	.232	.118	.034	.227	.116	.034	.217	.113	.033	.208	.110	.033	.200	.107	.032															
6.0	.214	.107	.031	.210	.106	.030	.201	.103	.030	.193	.100	.029	.186	.098	.029															
7.0	.199	.098	.028	.195	.097	.028	.187	.095	.027	.180	.092	.027	.173	.090	.026															
8.0	.186	.091	.026	.182	.090	.025	.175	.087	.025	.169	.085	.025	.162	.083	.024															
9.0	.174	.084	.023	.171	.083	.023	.164	.081	.023	.158	.079	.023	.153	.078	.022															
10.0	.163	.078	.022	.160	.077	.022	.155	.076	.021	.149	.074	.021	.144	.072	.021															

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	.215	.215	.215	.184	.184	.184	.126	.126	.126	.072	.072	.072	.023	.023	.023		
1.0	.207	.181	.158	.177	.155	.136	.121	.107	.094	.070	.062	.055	.022	.020	.018		
2.0	.198	.157	.122	.170	.135	.106	.116	.094	.074	.067	.054	.043	.022	.018	.014		
3.0	.191	.140	.099	.163	.120	.086	.112	.084	.060	.065	.049	.035	.021	.016	.012		
4.0	.183	.126	.083	.157	.109	.072	.108	.076	.051	.062	.045	.030	.020	.015	.010		
5.0	.175	.116	.072	.151	.100	.063	.104	.070	.045	.060	.041	.026	.019	.013	.009		
6.0	.168	.108	.065	.144	.093	.056	.100	.065	.040	.058	.038	.024	.019	.013	.008		
7.0	.161	.101	.059	.139	.088	.051	.096	.061	.036	.056	.036	.022	.018	.012	.007		
8.0	.155	.095	.054	.133	.083	.047	.092	.058	.034	.054	.034	.020	.017	.011	.007		
9.0	.148	.090	.051	.128	.078	.044	.089	.055	.032	.052	.033	.019	.017	.011	.006		
10.0	.143	.086	.048	.123	.075	.042	.085	.053	.030	.050	.031	.018	.016	.010	.006		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-04-17

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:0.2640A P:6.300W PF:1.000 Freq:0Hz Lamp Flux:283.31lx1 lm											
NAME: AS3535-03N90					TYPE:			WEIGHT:			
SPEC.:AS3535-03N90					DIM.: 300*35*35			SERIAL No.:			
MFR.: COLORS					SUR.:300*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	23.5	24.9	23.8	25.2	25.5	23.4	24.9	23.7	25.1	25.4	
	3H	24.8	26.2	25.2	26.5	26.8	24.7	26.1	25.1	26.4	26.7
	4H	25.4	26.7	25.8	27.0	27.3	25.2	26.5	25.5	26.8	27.1
	6H	25.8	27.0	26.1	27.3	27.7	25.4	26.6	25.7	26.9	27.3
	8H	25.8	27.0	26.2	27.4	27.7	25.3	26.5	25.7	26.9	27.2
	12H	25.9	27.0	26.3	27.4	27.8	25.3	26.4	25.7	26.8	27.2
4H	2H	24.0	25.3	24.3	25.6	25.9	23.9	25.2	24.3	25.5	25.9
	3H	25.6	26.7	26.0	27.1	27.4	25.5	26.6	25.9	27.0	27.3
	4H	26.3	27.3	26.7	27.7	28.1	26.1	27.1	26.5	27.5	27.9
	6H	26.8	27.7	27.2	28.1	28.6	26.4	27.3	26.8	27.7	28.2
	8H	27.0	27.8	27.4	28.3	28.7	26.4	27.3	26.9	27.7	28.2
	12H	27.0	27.8	27.5	28.3	28.8	26.4	27.2	26.9	27.6	28.1
8H	4H	26.6	27.4	27.0	27.9	28.3	26.4	27.3	26.8	27.7	28.1
	6H	27.3	28.0	27.8	28.5	29.0	26.9	27.7	27.4	28.1	28.6
	8H	27.6	28.3	28.1	28.7	29.3	27.1	27.7	27.6	28.2	28.7
	12H	27.8	28.4	28.3	28.9	29.4	27.1	27.7	27.6	28.2	28.7
12H	4H	26.6	27.4	27.1	27.8	28.3	26.4	27.2	26.9	27.7	28.1
	6H	27.4	28.1	27.9	28.6	29.1	27.1	27.7	27.6	28.2	28.7
	8H	27.8	28.4	28.3	28.9	29.4	27.3	27.9	27.8	28.4	28.9
Variations with the observer position at spacings:											
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2					
1.5H	+ 0.1 / - 0.3					+ 0.1 / - 0.3					
2.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.4					

CIE Pub.117, 283.3 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -4.4)

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-04-17

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:0.2640A P:6.300W PF:1.000 Freq:0Hz Lamp Flux:283.31lx1 lm		
NAME: AS3535-03N90	TYPE:	WEIGHT:
SPEC.:AS3535-03N90	DIM.: 300*35*35	SERIAL No.:
MFR.: COLORS	SUR.:300*35	Shielding Angle:

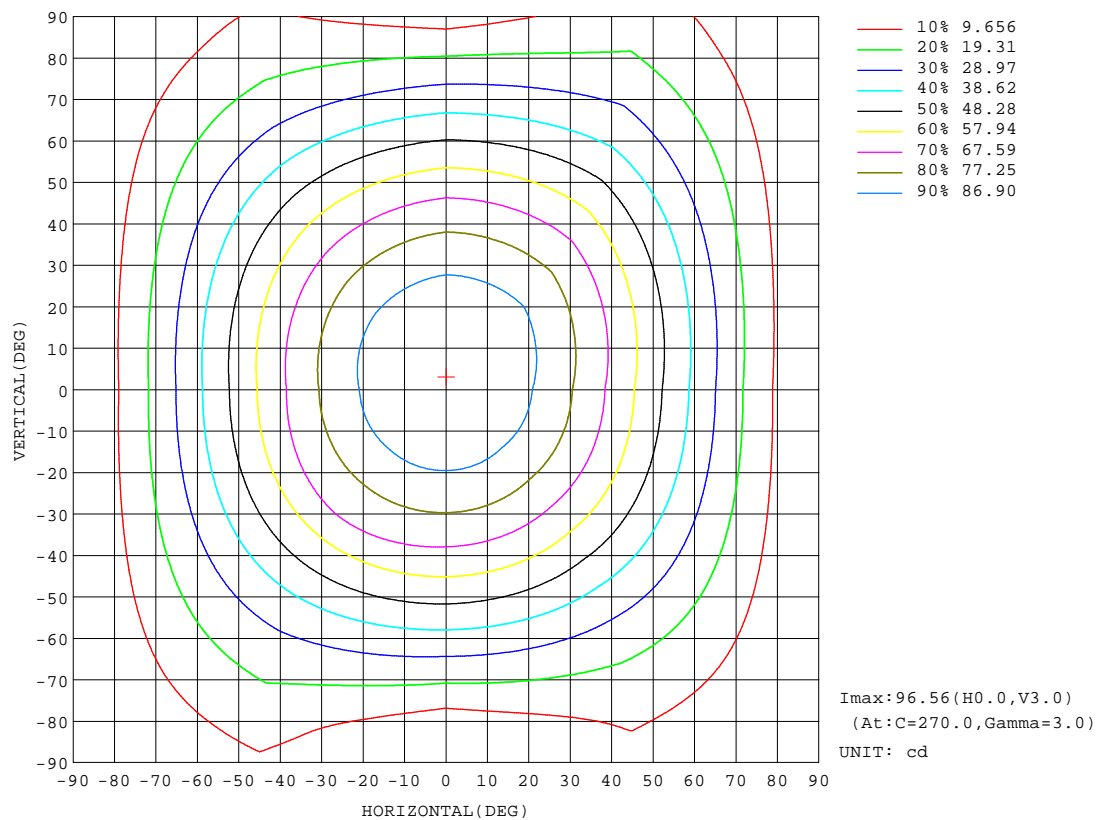
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	56	45	38	55	44	37	54	44	37	31
0.80	66	54	47	65	54	47	63	53	46	39
1.00	74	63	55	73	62	55	70	63	54	47
1.25	81	70	63	80	70	63	77	68	62	54
1.50	86	76	69	84	75	68	81	73	67	59
2.00	93	84	77	91	83	76	87	80	75	66
2.50	97	89	82	95	87	81	90	84	79	70
3.00	100	93	87	98	91	86	93	88	83	74
4.00	104	98	93	102	96	92	97	92	89	79
5.00	107	102	97	104	99	95	99	95	92	82
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:2020-04-17

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:0.2640A P:6.300W PF:1.000 Freq:0Hz Lamp Flux:283.31lx1 lm		
NAME: AS3535-03N90	TYPE:	WEIGHT:
SPEC.:AS3535-03N90	DIM.: 300*35*35	SERIAL No.:
MFR.: COLORS	SUR.:300*35	Shielding Angle:



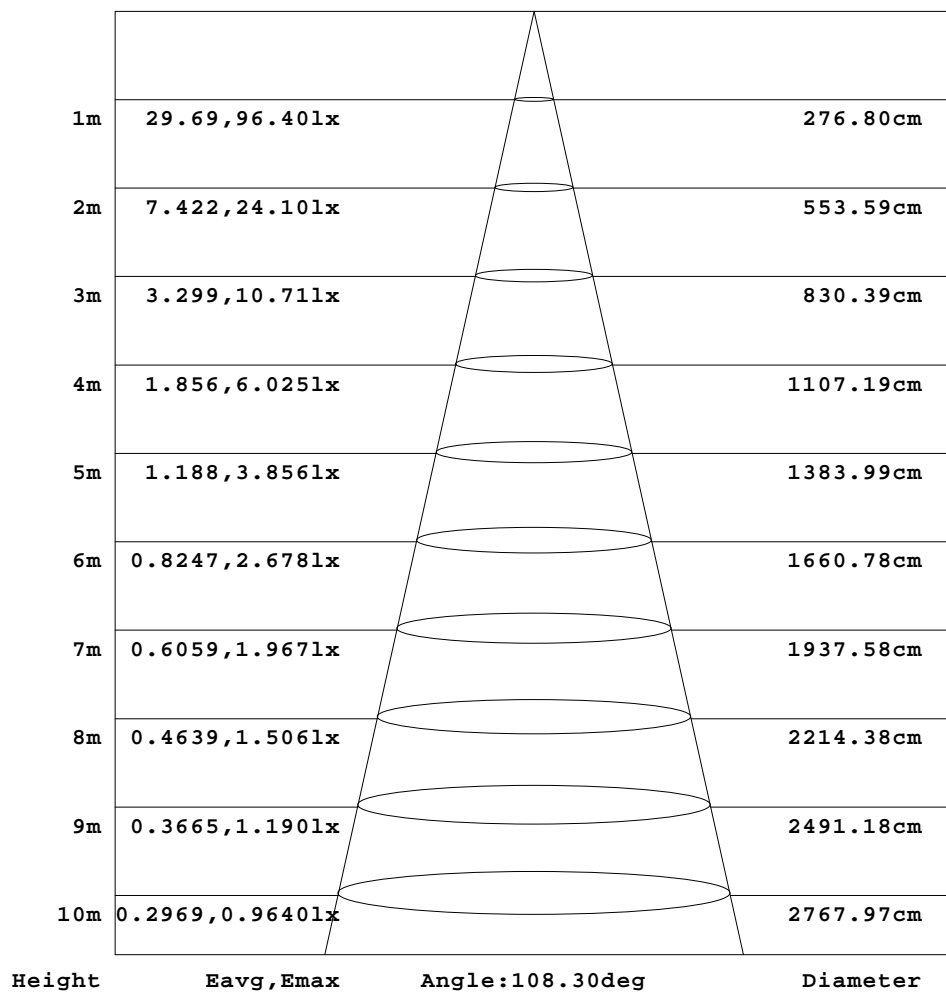
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-04-17

deg 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:0.2640A P:6.300W PF:1.000 Freq:0Hz Lamp Flux:283.31lx1 lm		
NAME: AS3535-03N90	TYPE:	WEIGHT:
SPEC.:AS3535-03N90	DIM.: 300*35*35	SERIAL No.:
MFR.: COLORS	SUR.:300*35	Shielding Angle:

Flux out:190.2 lm



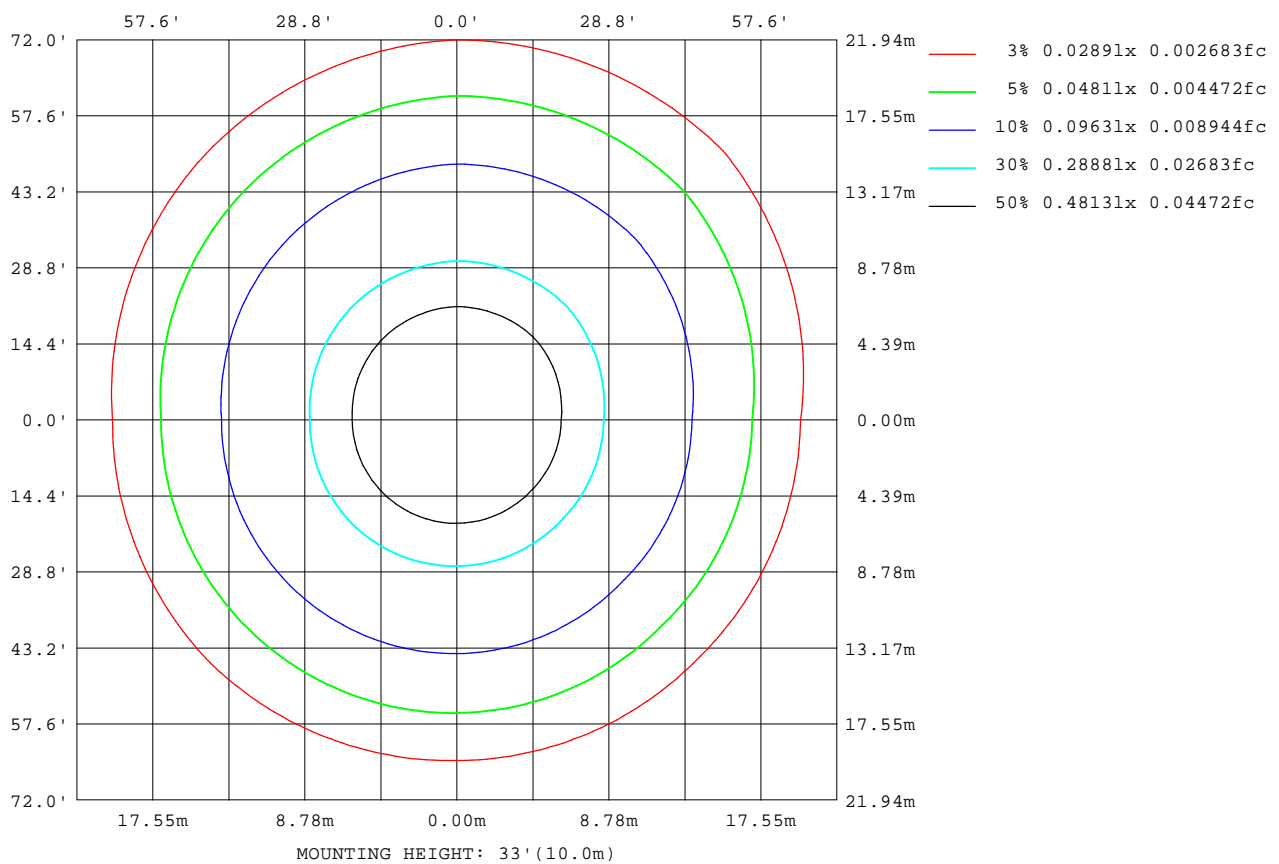
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-04-17

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

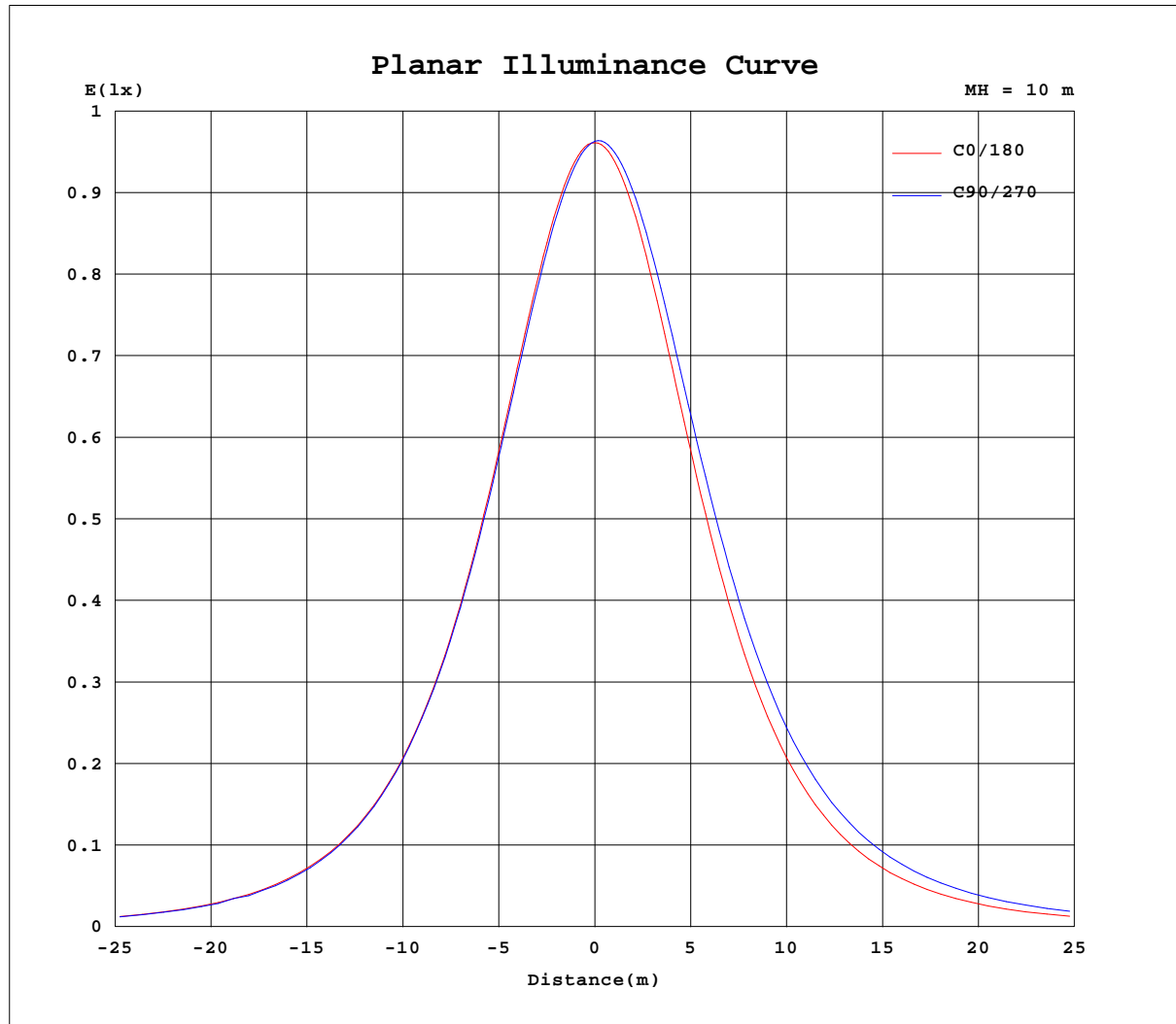
Test:U:24.00V I:0.2640A P:6.300W PF:1.000 Freq:0Hz Lamp Flux:283.31lx 1m		
NAME: AS3535-03N90	TYPE:	WEIGHT:
SPEC.:AS3535-03N90	DIM.: 300*35*35	SERIAL No.:
MFR.: COLORS	SUR.:300*35	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-04-17

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: 2020-04-17

deg 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:0.2640A P:6.300W PF:1.000 Freq:0Hz Lamp Flux:283.31lx1 lm		
NAME: AS3535-03N90	TYPE:	WEIGHT:
SPEC.:AS3535-03N90	DIM.: 300*35*35	SERIAL No.:
MFR.: COLORS	SUR.:300*35	Shielding Angle:

Table--1

UNIT: cd

C(DEG) g (DEG)	0	45	90	135	180	225	270	315										
0	96.1	96.3	96.3	96.3	96.1	96.3	96.3	96.3										
5	95.6	95.3	95.1	95.2	95.6	96.3	96.6	96.5										
10	93.9	93.2	93.1	93.2	94.0	95.3	95.9	95.8										
15	91.2	90.2	90.1	90.3	91.3	93.3	94.5	94.2										
20	87.6	86.4	86.6	86.7	87.7	90.4	92.1	91.8										
25	83.1	81.8	82.1	82.4	83.2	86.7	88.9	88.5										
30	77.8	76.4	77.0	77.3	78.0	82.1	85.0	84.5										
35	71.9	70.5	71.3	72.8	72.1	76.9	80.4	79.8										
40	65.4	63.9	65.0	66.4	65.6	71.1	75.1	74.4										
45	58.6	57.0	58.2	58.5	58.7	64.7	69.1	68.4										
50	51.5	49.6	50.9	51.5	51.6	57.9	62.7	61.9										
55	44.1	42.0	43.3	44.0	44.2	50.8	55.8	55.0										
60	36.5	34.7	35.9	36.6	36.7	43.5	48.6	47.9										
65	29.0	28.0	28.1	30.5	29.2	36.1	41.2	40.6										
70	21.7	22.0	20.7	25.1	21.8	29.4	33.9	34.0										
75	14.7	16.8	12.6	20.4	14.8	23.4	27.3	28.3										
80	8.17	12.7	4.88	16.1	8.34	18.3	19.9	23.1										
85	2.54	9.43	0.27	12.0	2.60	14.2	12.5	18.5										
90	0.20	6.59	0.32	8.42	0.03	10.8	5.39	14.3										
95	0.13	4.14	0.42	5.27	0.08	7.78	0.72	10.5										
100	0.14	2.30	0.35	1.57	0.14	5.16	0.16	4.70										
105	0.18	1.07	0.39	1.27	0.22	3.16	0.26	4.50										
110	0.31	0.56	0.61	0.72	0.30	1.70	0.35	2.38										
115	0.39	0.59	0.77	0.69	0.37	0.82	0.43	1.33										
120	0.47	0.69	0.94	0.78	0.45	0.46	0.55	0.86										
125	0.56	0.80	1.08	0.94	0.54	0.44	0.67	0.70										
130	0.63	0.91	1.24	1.10	0.61	0.51	0.81	0.71										
135	0.75	1.04	1.36	1.26	0.68	0.55	0.94	0.82										
140	0.82	1.16	1.46	1.39	0.75	0.62	1.00	0.93										
145	0.95	1.26	1.56	1.50	0.81	0.71	1.04	1.06										
150	0.99	1.36	1.60	1.50	0.87	0.77	1.02	1.08										
155	1.06	1.44	1.60	1.50	0.93	0.83	0.96	1.03										
160	1.17	1.47	1.59	1.47	0.98	0.85	0.93	0.96										
165	1.24	1.40	1.50	1.38	0.98	0.85	0.81	0.86										
170	1.27	1.28	1.36	1.27	0.98	0.83	0.78	0.79										
175	1.11	1.15	1.22	1.12	0.98	0.83	0.86	0.78										
180	1.08	1.08	1.11	1.08	1.07	1.07	1.08	1.08										

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-04-17

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: