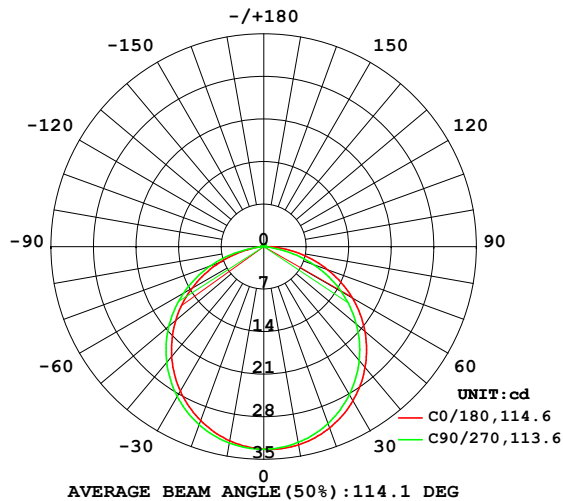


LUMINAIRE PHOTOMETRIC TEST REPORT

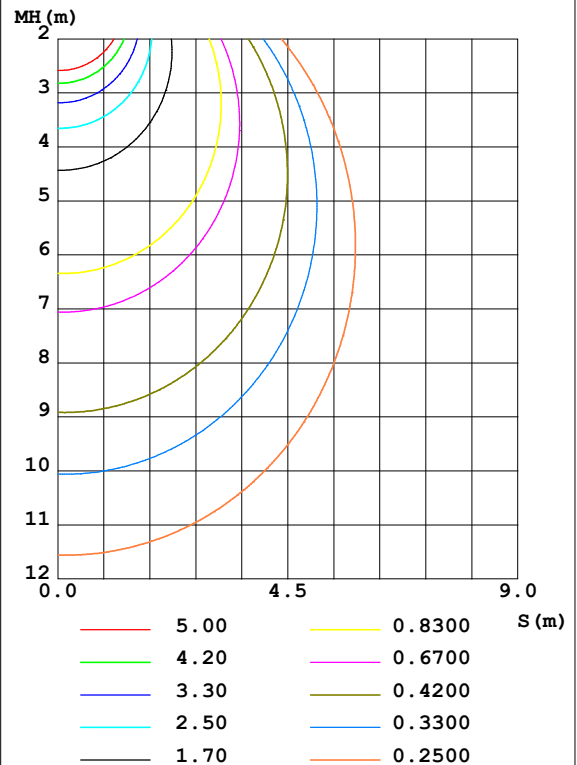
Test:U:12.187V I:0.1597A P:1.1931W PF:0.6130 Freq:59.98Hz Lamp Flux:98.43x1 lm		
NAME: 2701P 7inch	TYPE:	WEIGHT:
SPEC.:2W 3000K	DIM.:	SERIAL No.:
MFR.: modian	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 82.50 lm/W			
MODEL		Imax(cd)	33.38	S/MH(C0/180)	1.23
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.27
RATED VOLTAGE(V)	12	TOTAL FLUX(lm)	98.430	η UP,DN(C0-180)	1.0,49.5
NOMINAL FLUX(lm)	98.43	CIE CLASS	DIRECT	η UP,DN(C180-360)	1.4,48.2
LAMPS INSIDE	1	η up(%)	2.4	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)		η down(%)	97.6	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:QC01
Test Date:2025-12-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:8.600m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

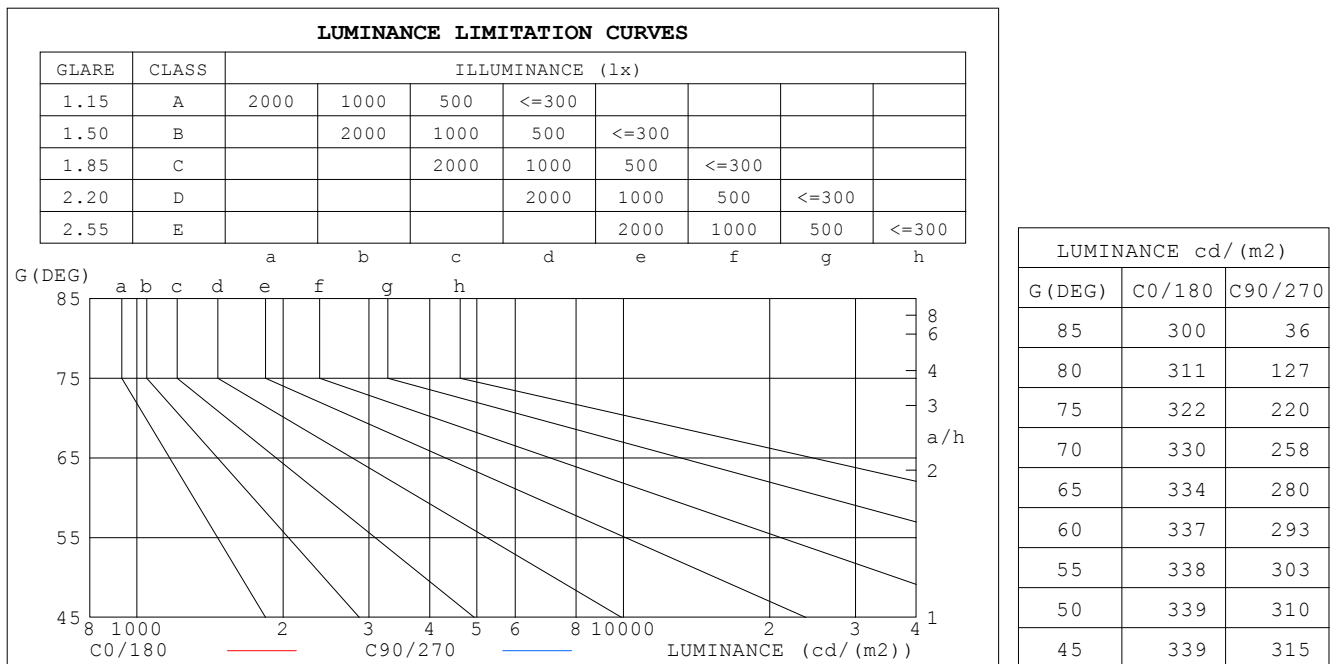
ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	33.10	32.98	32.70	32.46	32.44	32.52	32.81	33.05	0- 10	3.154	3.154	3.2,3.2
20	31.75	31.52	30.94	30.49	30.44	30.64	31.16	31.66	10- 20	9.046	12.20	12.4,12.4
30	29.32	29.00	28.16	27.53	27.46	27.74	28.47	29.19	20- 30	13.75	25.95	26.4,26.4
40	25.94	25.54	24.43	23.66	23.60	23.93	24.86	25.77	30- 40	16.67	42.62	43.3,43.3
50	21.74	21.23	19.92	19.02	18.95	19.34	20.41	21.51	40- 50	17.42	60.04	61,61
60	16.80	16.19	14.66	13.70	13.60	14.06	15.20	16.49	50- 60	15.86	75.90	77.1,77.1
70	11.26	10.55	8.819	7.880	7.789	8.249	9.367	10.85	60- 70	12.13	88.03	89.4,89.4
80	5.397	4.634	2.198	1.890	2.273	2.342	2.720	4.828	70- 80	6.676	94.70	96.2,96.2
90	0.6239	0.1695	0.1695	0.1838	0.4090	0.4272	0.4028	0.4636	80- 90	1.412	96.11	97.6,97.6
100	0.1763	0.2048	0.1731	0.2193	0.4055	0.4131	0.3993	0.4243	90-100	0.3326	96.45	98,98
110	0.2151	0.2507	0.2226	0.2723	0.4055	0.4060	0.3993	0.4067	100-110	0.3305	96.78	98.3,98.3
120	0.2856	0.3001	0.2897	0.3218	0.4090	0.4025	0.4028	0.4031	110-120	0.3359	97.11	98.7,98.7
130	0.3313	0.3496	0.3321	0.3713	0.4231	0.4025	0.4099	0.4031	120-130	0.3244	97.44	99,99
140	0.4054	0.4061	0.3993	0.4208	0.4584	0.4306	0.4346	0.4031	130-140	0.3045	97.74	99.3,99.3
150	0.4583	0.4626	0.4558	0.4703	0.4831	0.4590	0.4700	0.4561	140-150	0.2758	98.02	99.6,99.6
160	0.4584	0.4978	0.4593	0.5021	0.5147	0.5084	0.4982	0.4667	150-160	0.2189	98.24	99.8,99.8
170	0.5077	0.5155	0.5088	0.5198	0.5218	0.5084	0.5159	0.5092	160-170	0.1438	98.38	100,100
180	0.5183	0.5225	0.5159	0.5233	0.5218	0.5155	0.5159	0.5163	170-180	0.0491	98.43	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:QC01
 Test Date:2025-12-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity:65.0%
 Test Distance:8.600m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

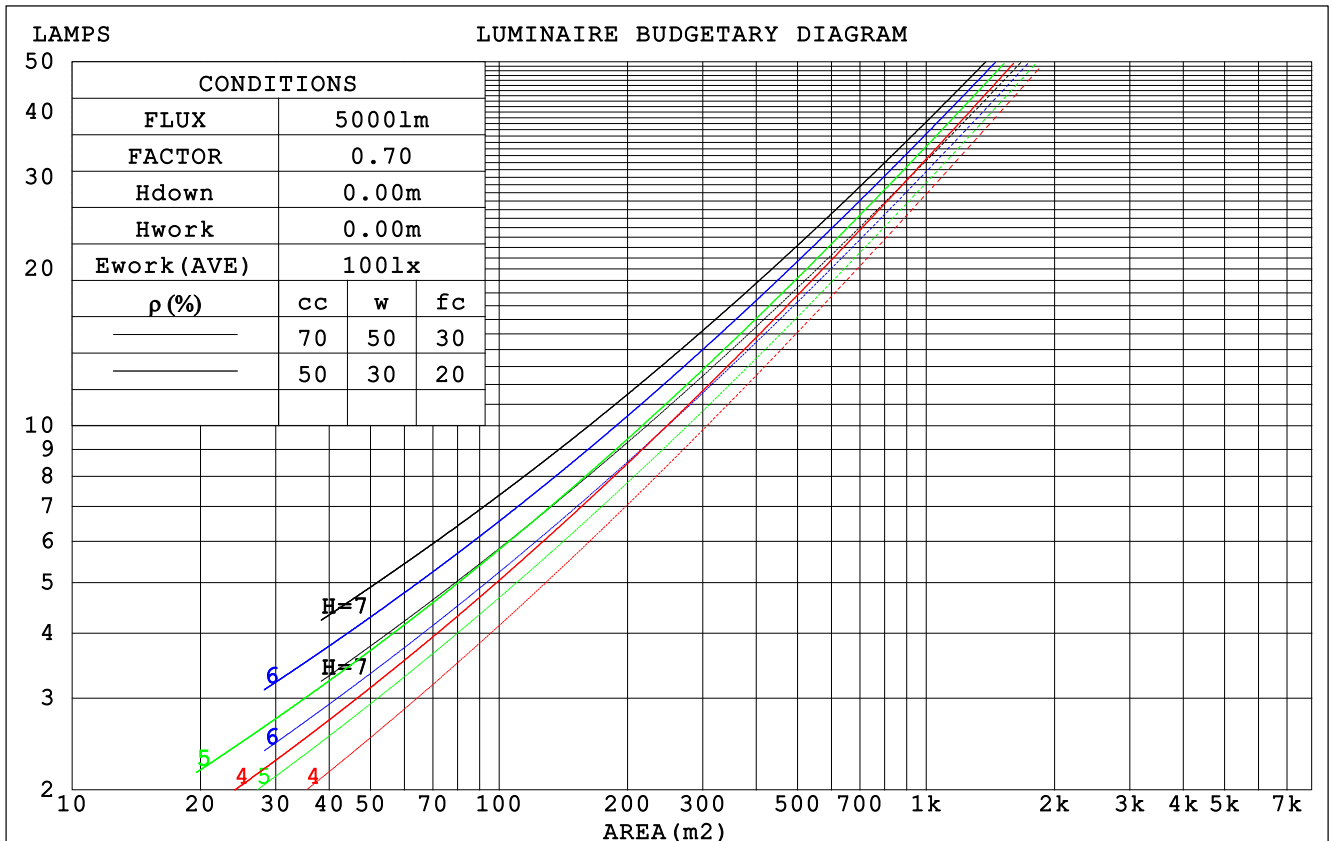


C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QC01
Test Date: 2025-12-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 8.600m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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			Coefficients of Utilization(CU)												
0.0	1.18	1.18	1.18	1.15	1.15	1.15	1.10	1.10	1.10	1.05	1.05	1.05	.00	.00	.00	.98
1.0	1.04	.99	.95	1.01	.97	.94	.96	.93	.90	.92	.89	.87	.88	.86	.84	.82
2.0	.90	.83	.78	.88	.82	.76	.84	.79	.74	.80	.76	.72	.77	.74	.70	.68
3.0	.79	.71	.64	.77	.70	.64	.74	.67	.62	.71	.65	.61	.68	.63	.59	.57
4.0	.70	.61	.54	.68	.60	.54	.66	.58	.53	.63	.57	.52	.61	.55	.51	.49
5.0	.62	.53	.47	.61	.53	.46	.59	.51	.46	.56	.50	.45	.54	.49	.44	.42
6.0	.56	.47	.41	.55	.47	.40	.53	.45	.40	.51	.44	.39	.49	.43	.39	.37
7.0	.51	.42	.36	.50	.42	.36	.48	.41	.35	.46	.40	.35	.45	.39	.34	.32
8.0	.46	.38	.32	.46	.37	.32	.44	.37	.31	.43	.36	.31	.41	.35	.31	.29
9.0	.42	.34	.29	.42	.34	.29	.40	.33	.28	.39	.33	.28	.38	.32	.28	.26
10.0	.39	.31	.26	.39	.31	.26	.37	.30	.26	.36	.30	.25	.35	.29	.25	.23



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QC01
Test Date: 2025-12-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 8.600m [K=1.0000]
Remarks:

WEC AND CCEC

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	.305	.174	.055	.297	.170	.054	.283	.162	.052	.270	.155	.050	.257	.149	.048	
2.0	.289	.159	.049	.282	.156	.048	.269	.150	.047	.258	.144	.045	.247	.139	.044	
3.0	.268	.143	.043	.262	.140	.042	.251	.136	.041	.240	.132	.040	.230	.128	.039	
4.0	.248	.129	.038	.243	.127	.038	.232	.123	.037	.223	.120	.036	.214	.116	.035	
5.0	.230	.117	.034	.225	.115	.034	.216	.112	.033	.207	.109	.032	.199	.106	.032	
6.0	.213	.107	.031	.209	.105	.030	.200	.103	.030	.193	.100	.029	.186	.098	.029	
7.0	.198	.098	.028	.194	.097	.028	.187	.095	.027	.180	.092	.027	.174	.090	.027	
8.0	.185	.091	.025	.182	.089	.025	.175	.087	.025	.169	.086	.025	.163	.084	.024	
9.0	.174	.084	.023	.170	.083	.023	.164	.081	.023	.159	.080	.023	.154	.078	.023	
10.0	.163	.078	.022	.160	.077	.022	.155	.076	.021	.150	.074	.021	.145	.073	.021	

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	.208	.208	.208	.178	.178	.178	.122	.122	.122	.070	.070	.070	.022	.022	.022	
1.0	.198	.174	.153	.169	.150	.132	.116	.103	.091	.067	.060	.053	.021	.019	.017	
2.0	.190	.150	.117	.163	.129	.101	.112	.089	.070	.064	.052	.041	.021	.017	.013	
3.0	.182	.133	.093	.156	.114	.080	.107	.079	.056	.062	.046	.033	.020	.015	.011	
4.0	.175	.119	.077	.150	.103	.067	.103	.072	.047	.060	.042	.028	.019	.014	.009	
5.0	.168	.109	.066	.144	.094	.057	.099	.066	.040	.057	.039	.024	.019	.013	.008	
6.0	.161	.101	.058	.138	.087	.050	.095	.061	.036	.055	.036	.021	.018	.012	.007	
7.0	.154	.094	.052	.132	.081	.045	.091	.057	.032	.053	.034	.019	.017	.011	.006	
8.0	.147	.088	.047	.127	.076	.041	.088	.054	.029	.051	.032	.017	.017	.010	.006	
9.0	.141	.083	.044	.122	.072	.038	.084	.051	.027	.049	.030	.016	.016	.010	.005	
10.0	.136	.079	.041	.117	.068	.036	.081	.048	.025	.047	.028	.015	.015	.009	.005	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC01
Test Date:2025-12-22

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:8.600m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

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	17.3	18.8	17.6	19.1	19.3	16.9	18.4	17.2	18.6	18.8
3H	19.1	20.5	19.4	20.7	21.0	18.3	19.7	18.7	20.0	20.3
4H	19.8	21.1	20.2	21.4	21.7	18.8	20.1	19.2	20.4	20.7
6H	20.4	21.6	20.8	21.9	22.3	19.1	20.3	19.4	20.6	20.9
8H	20.6	21.8	21.0	22.1	22.5	19.0	20.2	19.4	20.5	20.9
12H	20.8	21.9	21.1	22.2	22.6	19.0	20.1	19.4	20.5	20.8
4H 2H	18.0	19.3	18.3	19.6	19.9	17.6	18.9	17.9	19.2	19.5
3H	19.9	21.0	20.3	21.3	21.7	19.2	20.4	19.6	20.7	21.1
4H	20.7	21.8	21.2	22.1	22.5	19.9	20.9	20.3	21.3	21.7
6H	21.5	22.4	21.9	22.8	23.2	20.2	21.1	20.6	21.5	21.9
8H	21.7	22.6	22.2	23.0	23.4	20.2	21.1	20.7	21.5	21.9
12H	21.9	22.7	22.4	23.1	23.6	20.2	21.0	20.7	21.4	21.9
8H 4H	21.0	21.9	21.4	22.3	22.7	20.2	21.1	20.7	21.5	21.9
6H	21.9	22.6	22.3	23.0	23.5	20.7	21.4	21.2	21.9	22.3
8H	22.2	22.9	22.7	23.3	23.8	20.8	21.4	21.3	21.9	22.4
12H	22.5	23.1	23.0	23.5	24.1	20.8	21.3	21.3	21.8	22.3
12H 4H	21.0	21.8	21.5	22.2	22.7	20.3	21.1	20.7	21.5	21.9
6H	21.9	22.5	22.4	23.0	23.5	20.8	21.4	21.3	21.9	22.4
8H	22.3	22.9	22.8	23.3	23.9	20.9	21.5	21.4	21.9	22.5
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				
2.0H	+ 0.1 / - 0.3					+ 0.2 / - 0.4				

CIE Pub.117, 98.43 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -8.1)
Area: 0.1 m2

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC01
Test Date:2025-12-22

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:8.600m [K=1.0000]
Remarks:

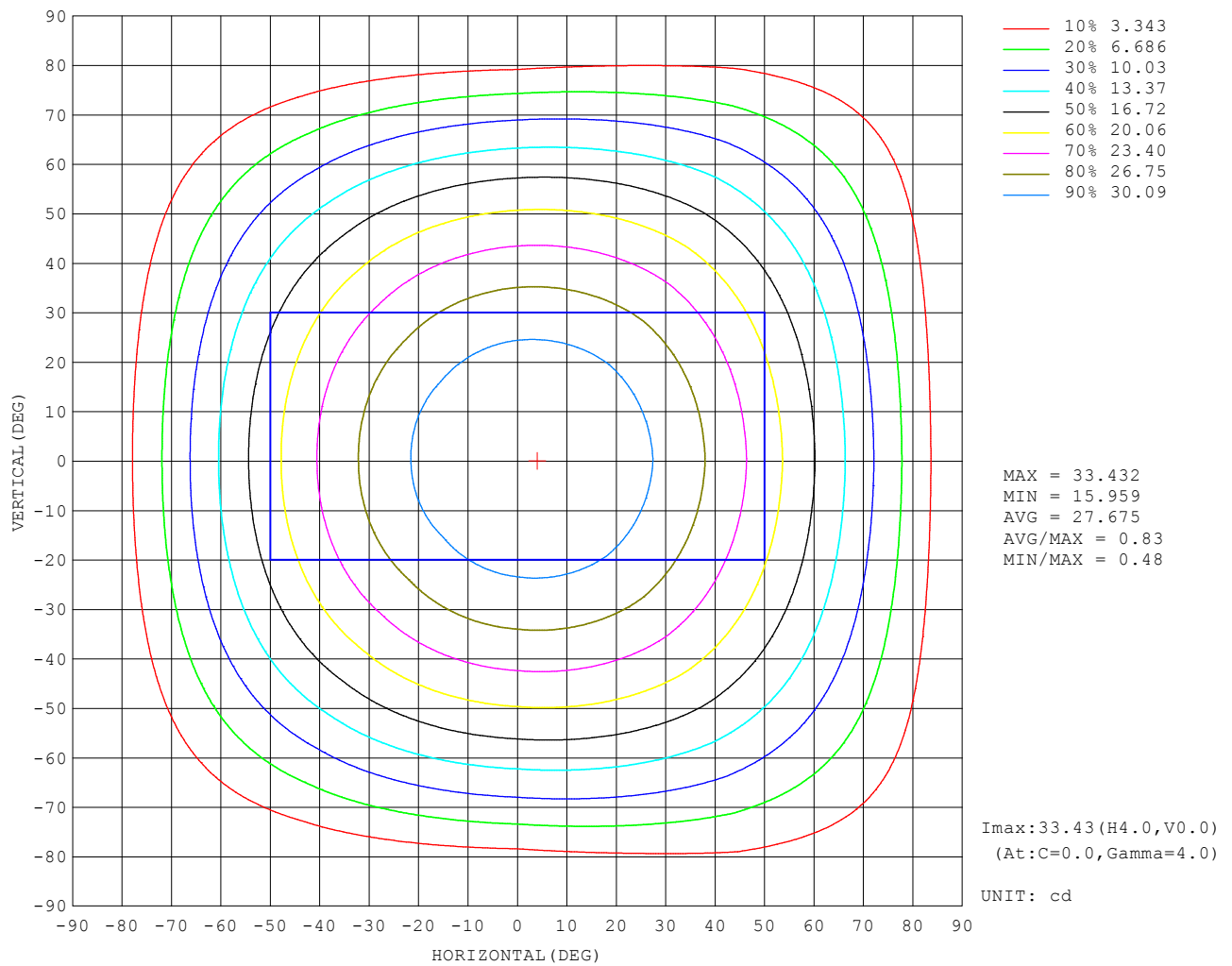
UTILIZATION FACTORS TABLE

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	45	38	56	45	38	55	44	38	31
0.80	67	55	48	66	55	47	64	54	47	40
1.00	75	64	57	74	63	56	71	65	56	48
1.25	82	72	65	81	71	64	78	69	63	56
1.50	87	77	70	86	76	70	82	74	68	61
2.00	94	86	79	92	84	78	88	82	77	68
2.50	98	90	84	96	89	83	92	86	81	72
3.00	102	95	89	99	93	88	95	90	86	76
4.00	106	100	95	103	98	94	98	94	91	81
5.00	108	103	99	105	101	97	101	97	94	84
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: QC01
 Test Date: 2025-12-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
 Humidity: 65.0%
 Test Distance: 8.600m [K=1.0000]
 Remarks:

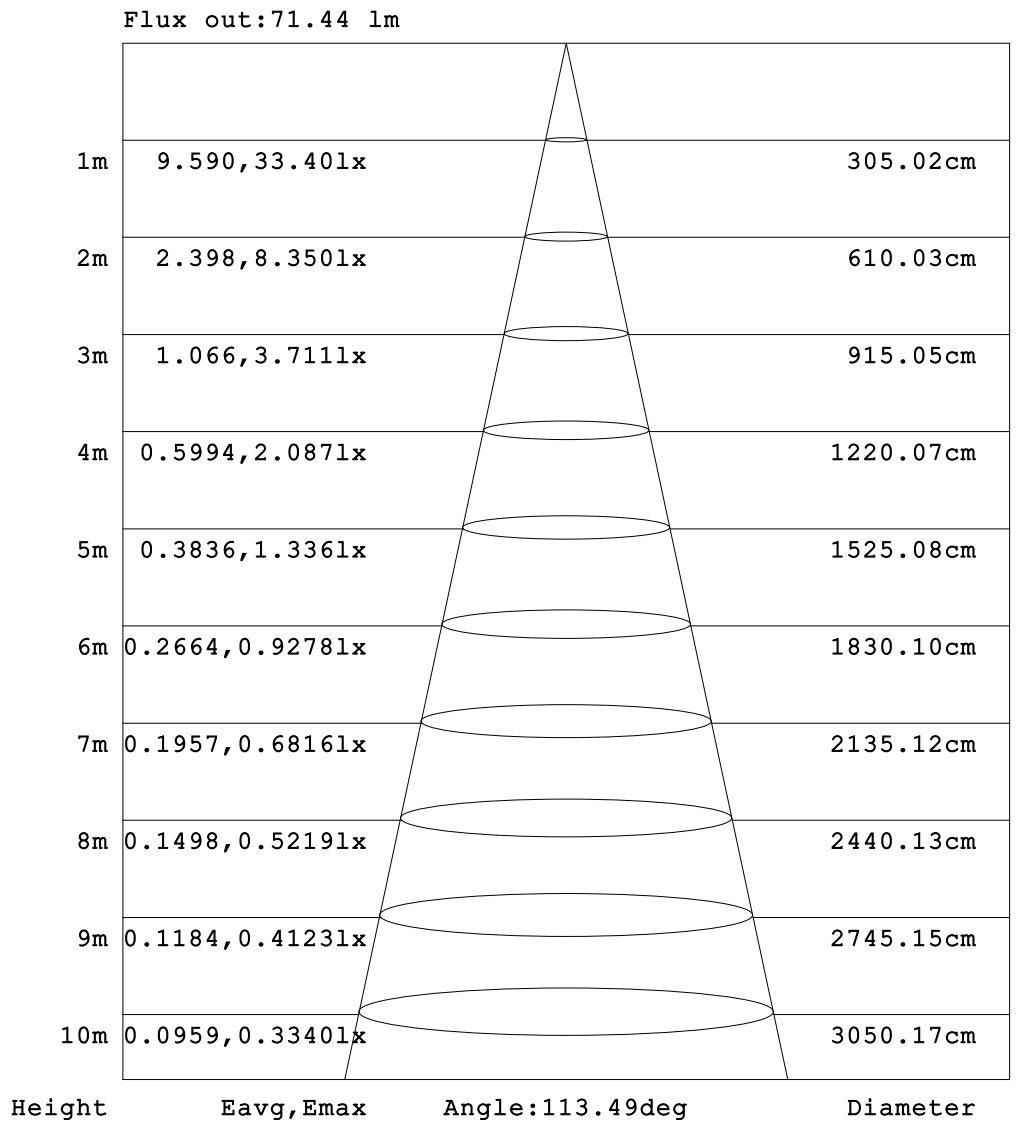
ISOCANDELA DIAGRAM



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC01
Test Date:2025-12-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:8.600m [K=1.0000]
Remarks:

AAI Figure

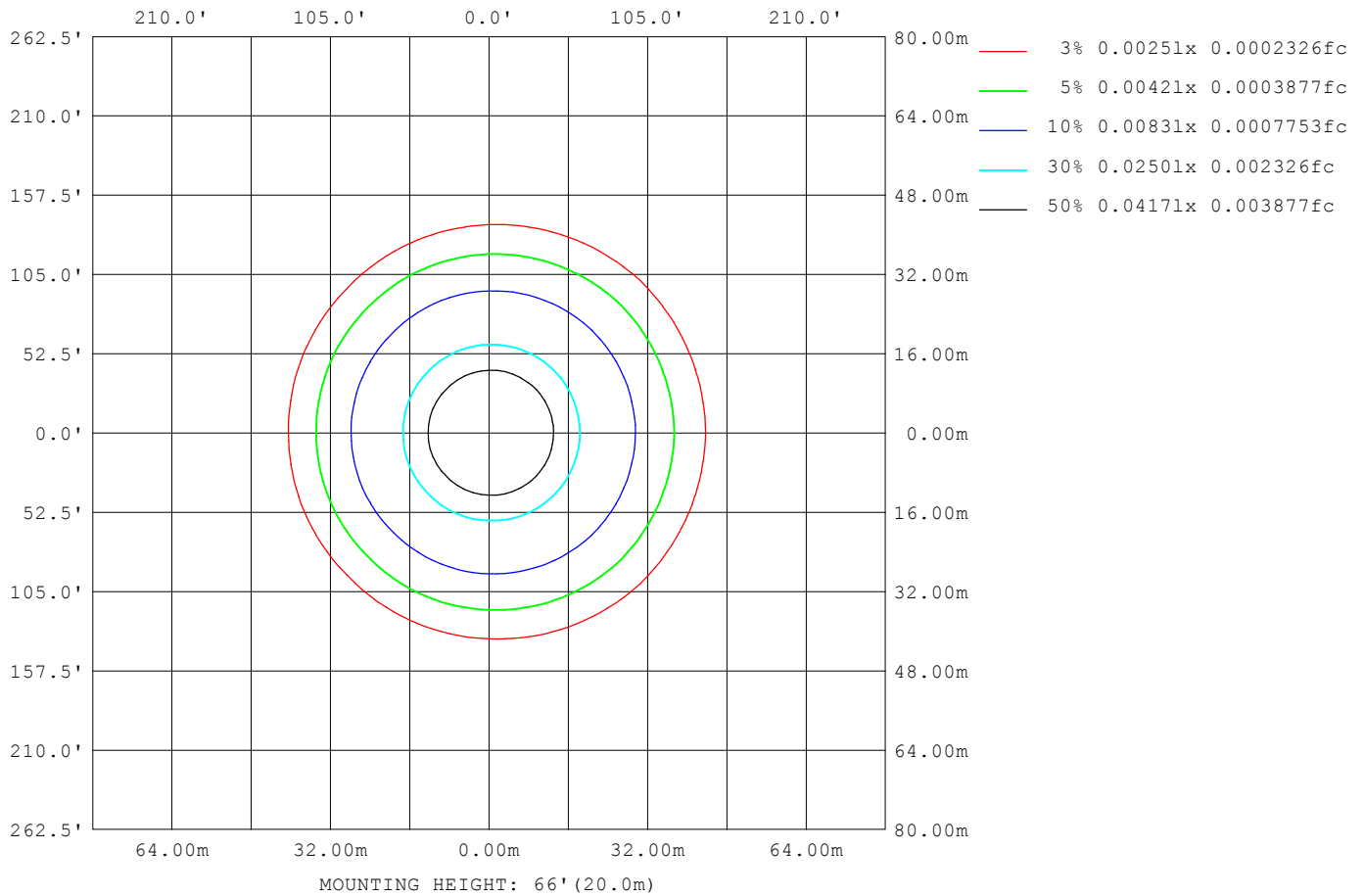


Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QC01
Test Date: 2025-12-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 8.600m [K=1.0000]
Remarks:

ISOLUX DIAGRAM



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QC01
Test Date: 2025-12-22

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 8.600m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:12.187V I:0.1597A P:1.1931W PF:0.6130 Freq:59.98Hz Lamp Flux:98.43x1 lm		
NAME: 2701P 7inch	TYPE:	WEIGHT:
SPEC.:2W 3000K	DIM.:	SERIAL No.:
MFR.: modian	SUR.:	Shielding Angle:

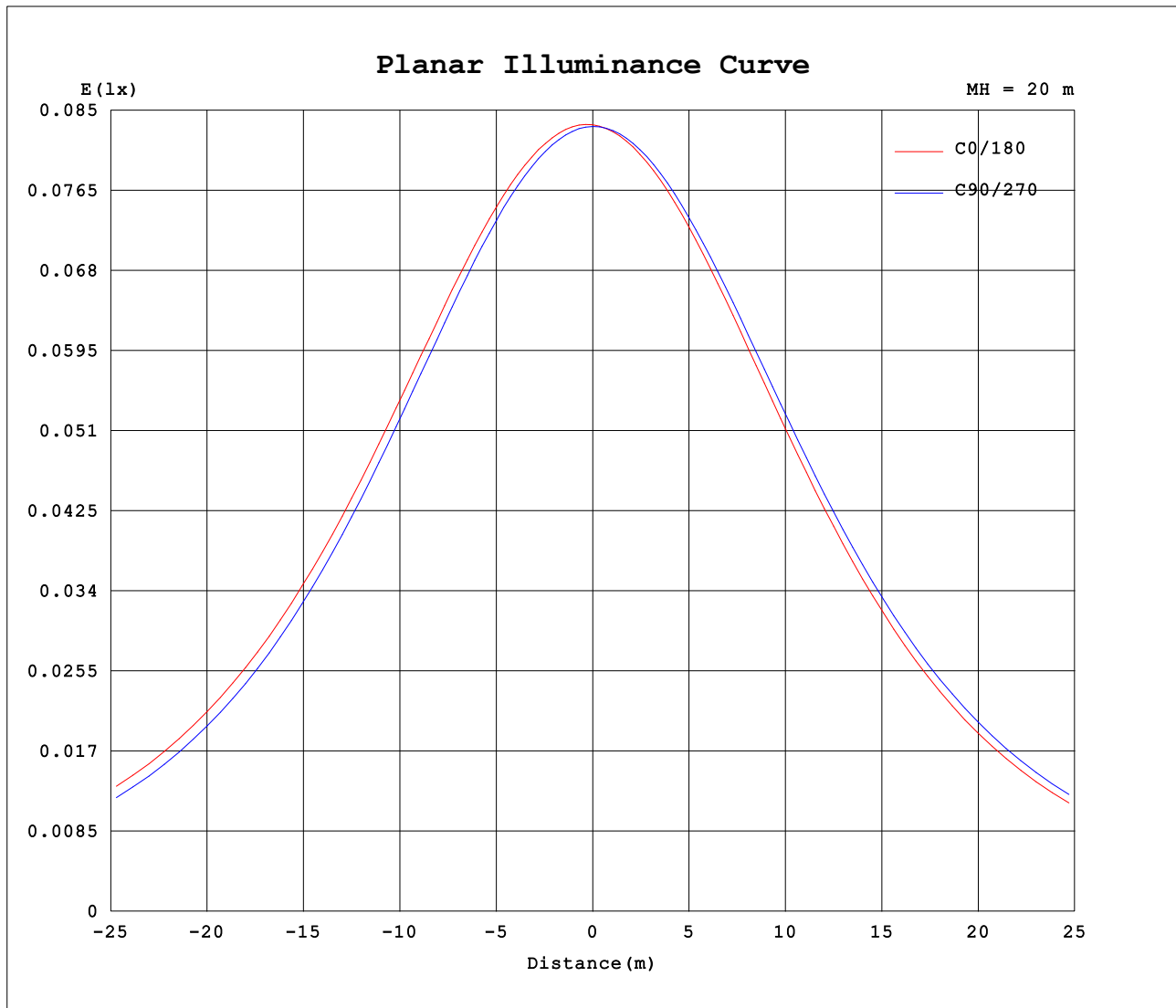
AvgL	cd/m2
L_0~180 (65) av	294
L_0~180 (75) av	256
L_0~180 (85) av	185
L_90~270 (65) av	286
L_90~270 (75) av	230
L_90~270 (85) av	53
L_45 (65) av	291
L_45 (75) av	248
L_45 (85) av	115

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QC01
Test Date:2025-12-22

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity:65.0%
Test Distance:8.600m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QC01
Test Date: 2025-12-22

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.411
Humidity: 65.0%
Test Distance: 8.600m [K=1.0000]
Remarks: