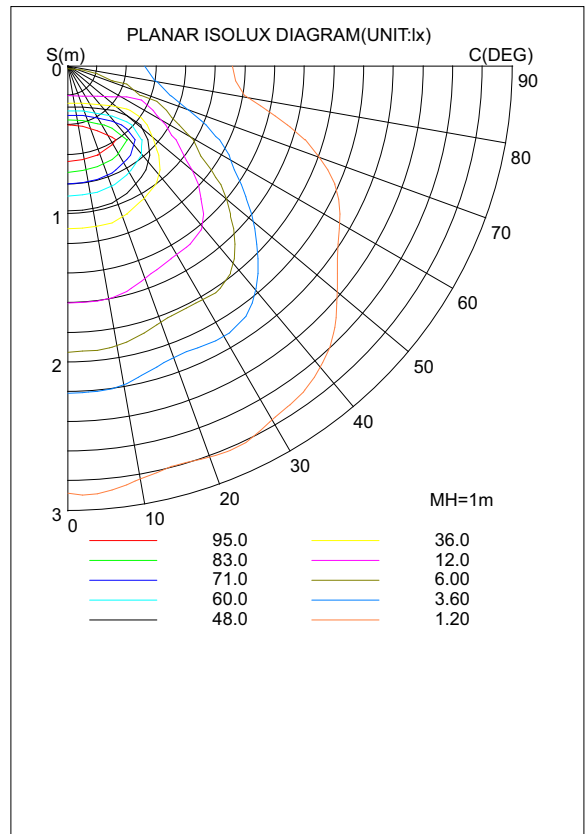
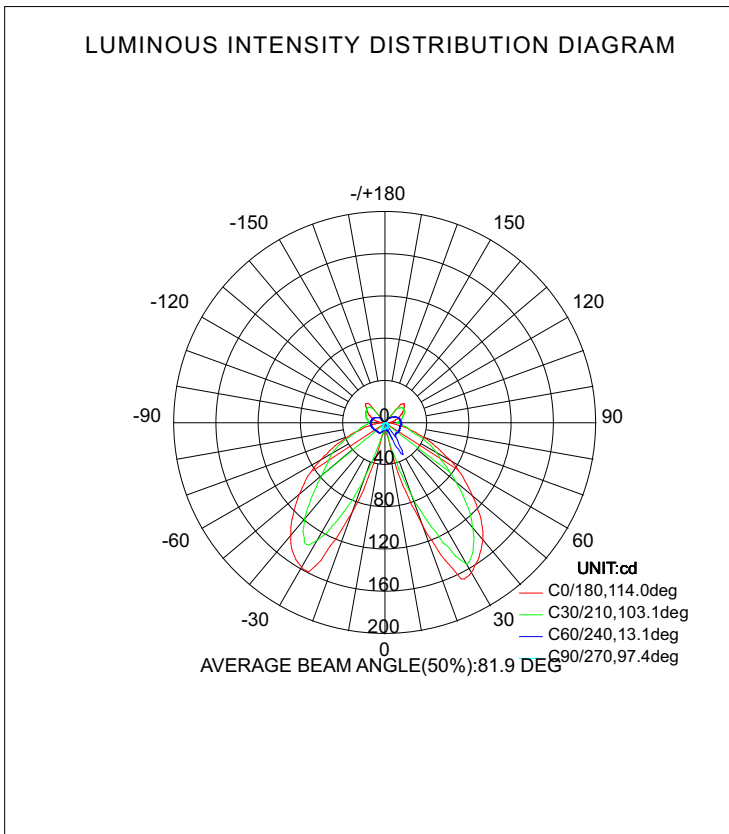


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: Floris	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.
MFR.: ARTECTA	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 38.14 lm/W
MODEL	SAMSUN	Imax(cd)	166.2	S/MH(C0/180)	3.93	
NOMINAL POWER(W)	6	LOR(%)	55.1	S/MH(C90/270)	1.29	
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	297.52	hUP, DN(C0-180)	5.6, 22.7	
NOMINAL FLUX(lm)	540	CIE CLASS	SEMI-D.	hUP, DN(C180-360)	5.8, 20.9	
LAMPS INSIDE	1	hup(%)	11.4	CIBSE SHR NOM	0.75	
TEST VOLTAGE(V)	230.2	hdown(%)	43.7	CIBSE SHR MAX	0.80	



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:30DEG
 Operators:WCZ
 Test Date:2013-09-27

gRange: 0 - 180DEG
 gInterval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:6.120m [K=1.0000]



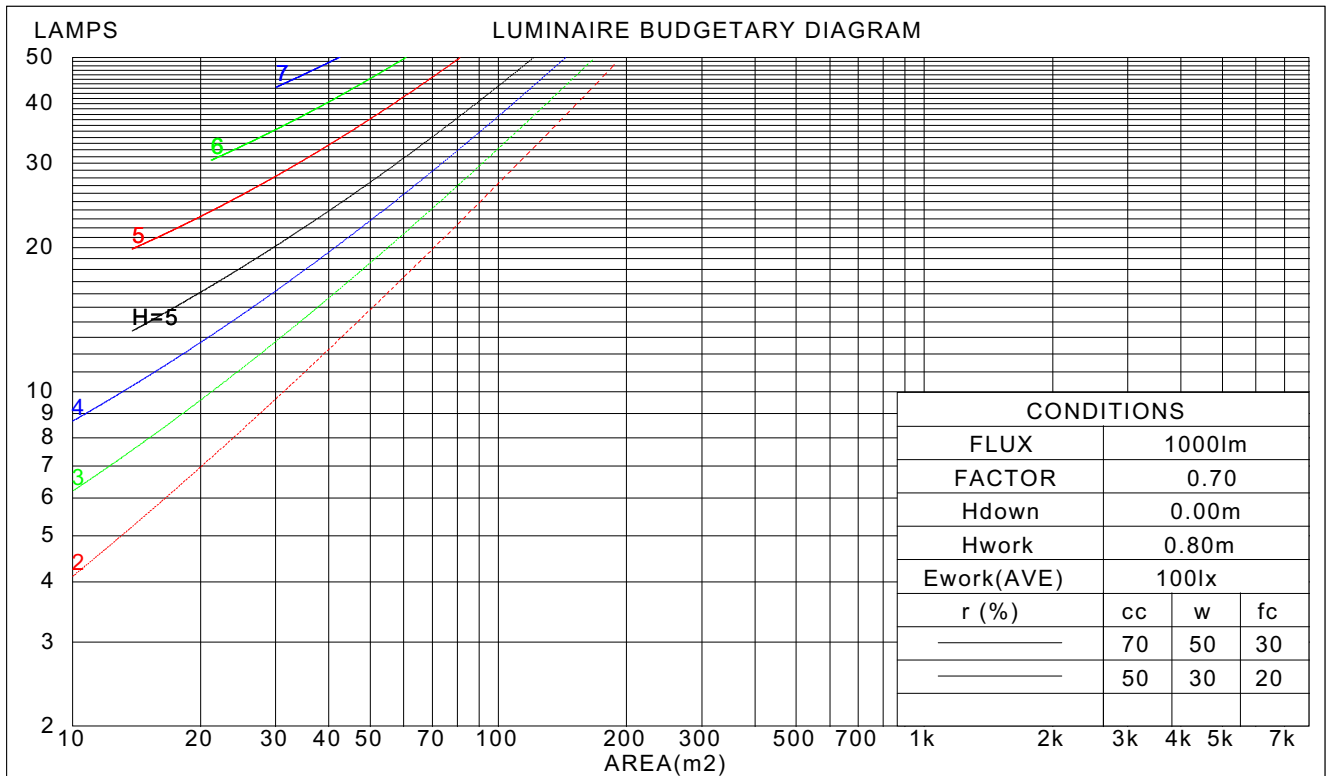
ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315g	F	zonE	total	%lum,lamp
10	9.987	7.852	5.667	6.835	8.304	7.169	6.229	8.285	0- 10	0.6297	0.6297	0.21,0.12
20	103.0	37.43	5.465	32.07	89.10	17.02	6.858	26.02	10- 20	5.996	6.626	2.23,1.23
30	163.9	102.5	4.983	99.05	158.5	55.87	5.620	66.90	20- 30	30.65	37.27	12.5,6.9
40	144.6	89.03	4.477	100.8	139.5	58.98	4.534	70.42	30- 40	50.17	87.45	29.4,16.2
50	108.6	55.32	3.880	62.08	106.1	42.20	3.734	46.82	40- 50	48.85	136.3	45.8,25.2
60	72.31	33.94	3.160	41.37	69.98	31.29	2.536	27.45	50- 60	39.85	176.1	59.2,32.6
70	36.41	23.68	2.168	25.99	35.37	24.17	1.338	23.02	60- 70	28.47	204.6	68.8,37.9
80	11.10	18.60	1.107	20.29	12.48	20.95	0.4354	20.54	70- 80	18.59	223.2	75,41.3
90	2.691	17.13	0.4290	16.99	2.375	19.57	0.2532	19.44	80- 90	12.65	235.9	79.3,43.7
100	7.705	18.40	0.1511	18.14	7.398	20.33	0.2338	20.42	90-100	11.91	247.8	88.3,45.9
110	13.51	18.76	0.1096	18.69	13.17	20.10	0.2338	20.54	100-110	13.12	260.9	87.7,48.3
120	19.18	18.28	0.1120	18.01	18.79	18.62	0.2338	19.00	110-120	13.40	274.3	92.2,50.8
130	24.14	16.48	0.1412	16.43	23.75	16.05	0.2558	16.18	120-130	12.60	286.9	96.4,53.1
140	22.72	12.03	0.2046	12.33	23.47	11.92	0.0595	11.88	130-140	10.24	297.1	99.9,55
150	0	0	0	0	0	0	0	0	140-150	0.4010	297.5	100,55.1
160	0	0	0	0	0	0	0	0	150-160	0	297.5	100,55.1
170	0	0	0	0	0	0	0	0	160-170	0	297.5	100,55.1
180	0	0	0	0	0	0	0	0	170-180	0	297.5	100,55.1
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:6.120m [K=1.0000]

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:Room Cavity Ratio				Coefficients of Utilization(CU)												
0.0	.63	.63	.63	.60	.60	.60	.55	.55	.55	.50	.50	.50	.46	.46	.46	.44
1.0	.54	.51	.49	.51	.49	.47	.47	.45	.43	.43	.41	.40	.39	.38	.37	.35
2.0	.46	.42	.39	.44	.41	.37	.40	.37	.35	.37	.34	.32	.34	.32	.30	.28
3.0	.40	.35	.32	.38	.34	.31	.35	.31	.29	.32	.29	.27	.29	.27	.25	.23
4.0	.35	.30	.26	.34	.29	.25	.31	.27	.24	.28	.25	.22	.26	.23	.21	.19
5.0	.31	.26	.22	.30	.25	.21	.27	.23	.20	.25	.21	.19	.23	.20	.18	.16
6.0	.27	.22	.19	.26	.22	.18	.24	.20	.17	.22	.19	.16	.20	.17	.15	.14
7.0	.24	.19	.16	.23	.19	.16	.22	.18	.15	.20	.16	.14	.18	.15	.13	.12
8.0	.22	.17	.14	.21	.17	.13	.19	.15	.13	.18	.14	.12	.16	.13	.11	.10
9.0	.20	.15	.12	.19	.15	.12	.18	.14	.11	.16	.13	.10	.15	.12	.10	.09
10.0	.18	.14	.11	.17	.13	.10	.16	.12	.10	.15	.11	.09	.14	.11	.09	.07



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 Humidity:65.0%
 Test Distance:6.120m [K=1.0000]

rcc	80%			70%			50%			30%			10%			0
nw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCCR: Room Cavity Ratio																
Wall Exitance Coefficients(WEC)																
0.0																
1.0	.187	.106	.034	.180	.103	.033	.166	.095	.030	.153	.088	.028	.141	.082	.026	
2.0	.169	.093	.028	.163	.090	.028	.150	.084	.026	.139	.078	.024	.128	.072	.023	
3.0	.154	.082	.025	.148	.080	.024	.137	.074	.023	.127	.069	.021	.117	.065	.020	
4.0	.142	.074	.022	.136	.071	.021	.126	.067	.020	.116	.062	.019	.107	.058	.018	
5.0	.130	.066	.019	.125	.064	.019	.116	.060	.018	.107	.057	.017	.099	.053	.016	
6.0	.121	.061	.017	.116	.059	.017	.108	.055	.016	.100	.052	.015	.092	.048	.014	
7.0	.112	.055	.016	.108	.054	.015	.100	.051	.015	.093	.048	.014	.086	.045	.013	
8.0	.105	.051	.014	.101	.050	.014	.094	.047	.013	.087	.044	.013	.080	.041	.012	
9.0	.098	.047	.013	.094	.046	.013	.088	.043	.012	.081	.041	.012	.075	.038	.011	
10.0	.092	.044	.012	.089	.043	.012	.083	.040	.011	.077	.038	.011	.071	.036	.010	

rcc	80%			70%			50%			30%			10%			0
nw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCCR: Room Cavity Ratio																
Ceiling Cavity Exitance Coefficients(CCEC)																
0.0	.192	.192	.192	.164	.164	.164	.112	.112	.112	.064	.064	.064	.021	.021	.021	
1.0	.188	.174	.160	.161	.149	.138	.110	.103	.096	.063	.059	.056	.020	.019	.018	
2.0	.184	.161	.141	.158	.139	.122	.108	.096	.085	.062	.056	.050	.020	.018	.016	
3.0	.181	.152	.129	.155	.131	.112	.106	.091	.078	.061	.053	.046	.020	.017	.015	
4.0	.177	.145	.121	.152	.125	.105	.104	.087	.074	.060	.051	.044	.019	.017	.014	
5.0	.173	.140	.115	.148	.121	.100	.102	.084	.071	.059	.050	.042	.019	.016	.014	
6.0	.169	.135	.111	.145	.117	.097	.100	.082	.068	.058	.048	.041	.019	.016	.013	
7.0	.166	.132	.108	.142	.114	.094	.098	.080	.067	.057	.047	.040	.018	.015	.013	
8.0	.162	.129	.106	.140	.112	.092	.097	.078	.065	.056	.046	.039	.018	.015	.013	
9.0	.159	.126	.104	.137	.109	.091	.095	.077	.064	.055	.045	.038	.018	.015	.013	
10.0	.156	.124	.103	.134	.108	.090	.093	.076	.064	.054	.045	.038	.018	.015	.013	

C Range: 0 - 360DEG
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 Temperature:30DEG
 Operators:WCZ
 Test Date:2013-09-27

gRange: 0 - 180DEG
 gInterval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:6.120m [K=1.0000]

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	19.2	20.6	19.8	21.1	21.7	8.4	9.8	9.0	10.3	10.9
3H	20.3	21.5	20.8	22.0	22.7	9.0	10.3	9.6	10.8	11.5
4H	20.6	21.7	21.2	22.3	23.0	9.3	10.5	9.9	11.1	11.7
6H	20.7	21.8	21.4	22.4	23.1	9.5	10.6	10.1	11.2	11.9
8H	20.8	21.8	21.4	22.4	23.1	9.5	10.6	10.2	11.2	11.9
12H	20.8	21.8	21.4	22.4	23.1	9.5	10.5	10.2	11.2	11.9
4H 2H	19.1	20.3	19.7	20.9	21.5	11.9	13.1	12.5	13.7	14.3
3H	20.4	21.4	21.0	22.0	22.8	12.9	13.9	13.5	14.5	15.2
4H	20.9	21.8	21.6	22.4	23.2	13.5	14.4	14.1	15.0	15.8
6H	21.2	22.0	21.9	22.7	23.5	14.1	14.9	14.7	15.5	16.3
8H	21.3	22.1	22.0	22.7	23.5	14.2	15.0	14.9	15.6	16.4
12H	21.4	22.1	22.1	22.8	23.6	14.3	15.0	15.0	15.7	16.5
8H 4H	21.0	21.7	21.7	22.4	23.2	15.3	16.0	16.0	16.7	17.5
6H	21.6	22.2	22.3	22.9	23.8	16.6	17.2	17.3	17.9	18.8
8H	21.8	22.4	22.6	23.1	24.0	17.2	17.8	18.0	18.5	19.4
12H	22.0	22.5	22.8	23.3	24.1	17.7	18.1	18.4	18.9	19.8
12H 4H	21.0	21.7	21.7	22.4	23.2	15.6	16.3	16.3	17.0	17.8
6H	21.7	22.2	22.4	23.0	23.8	17.3	17.8	18.0	18.6	19.4
8H	22.1	22.5	22.8	23.3	24.2	18.2	18.7	19.0	19.4	20.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.3 / - 0.2				
1.5H	+ 0.3 / - 0.7					+ 0.3 / - 0.2				
2.0H	+ 0.8 / - 1.2					+ 0.6 / - 0.3				

CIE Pub.117 Corrected 540.0 lm Total Lamp Luminous Flux.(8log(F/F0) = -2.1)

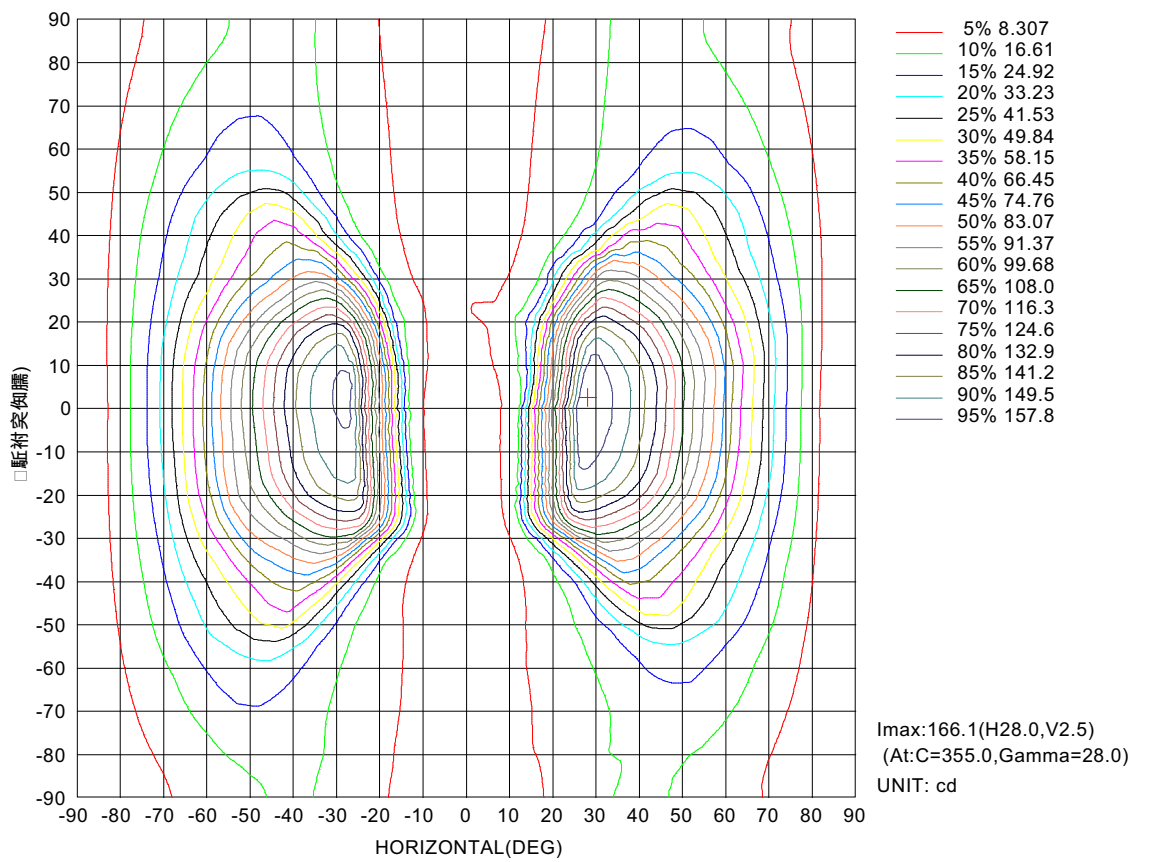
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REFLECTANCE											
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0	
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0	
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0	
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$										
k = 0.60	26	19	15	26	19	15	24	19	15	11	
0.80	32	25	20	31	24	20	29	23	20	15	
1.00	36	30	25	35	29	25	33	29	24	19	
1.25	40	34	29	39	33	29	36	31	28	22	
1.50	43	37	33	42	36	32	39	34	31	25	
2.00	47	42	38	46	40	37	42	38	35	28	
2.50	50	45	41	48	43	40	44	40	37	30	
3.00	52	47	43	50	45	42	46	42	40	32	
4.00	54	50	47	52	48	45	48	45	43	34	
5.00	56	52	49	53	50	48	49	47	44	36	
ROOM INDEX	UF(total)									Direct	
According to DIN EN 13032-2 2004				Suspended				SHRNOM = 1.25			

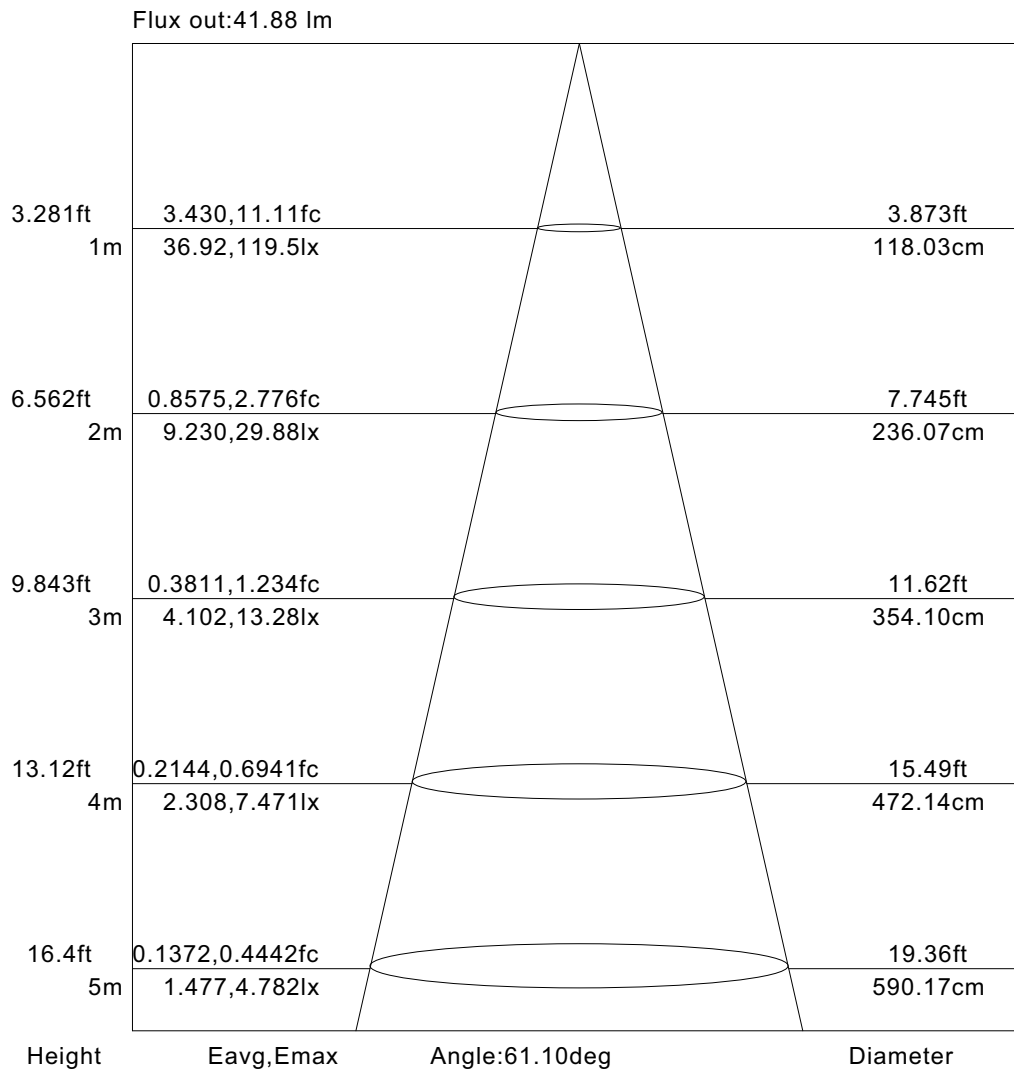
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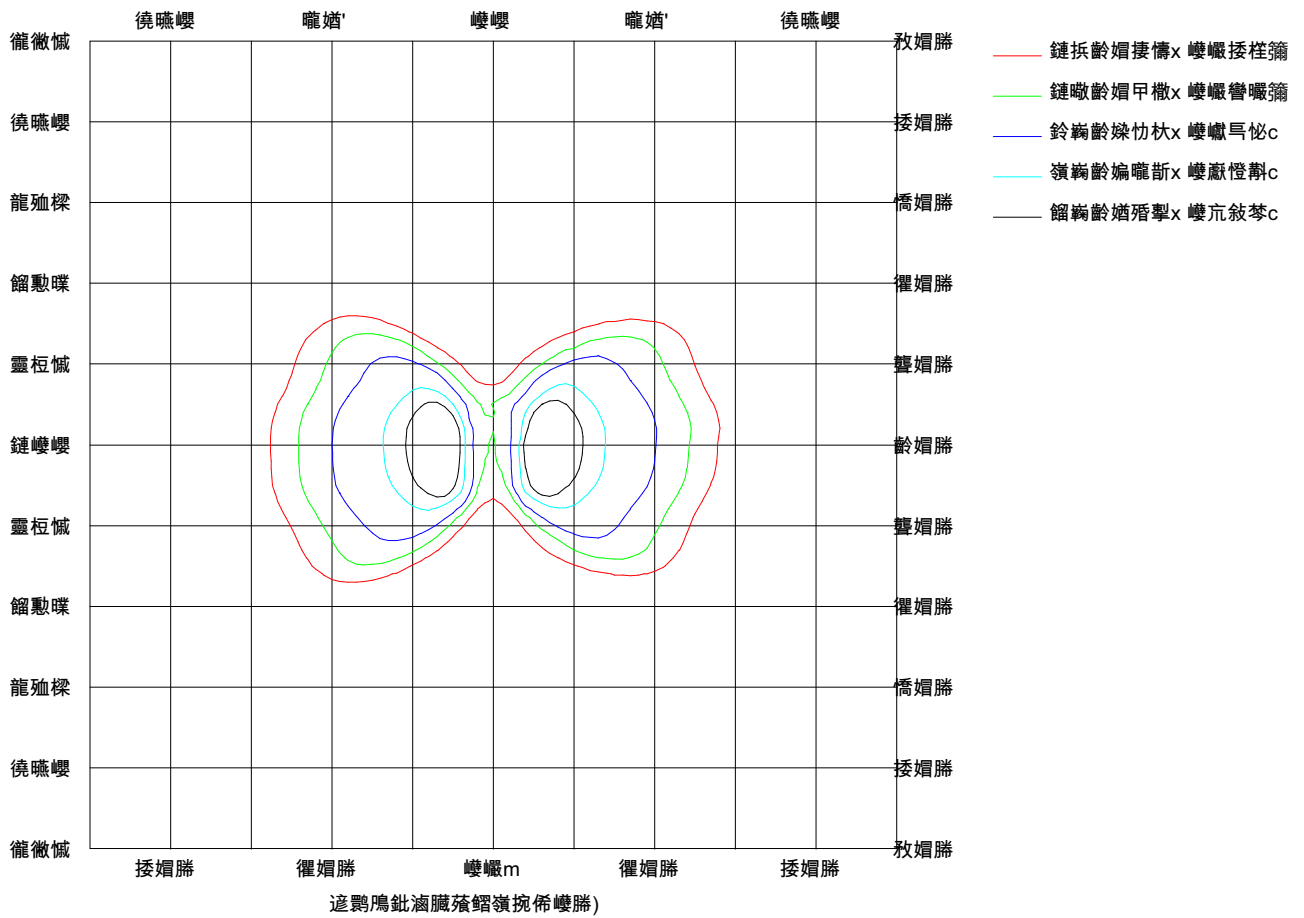
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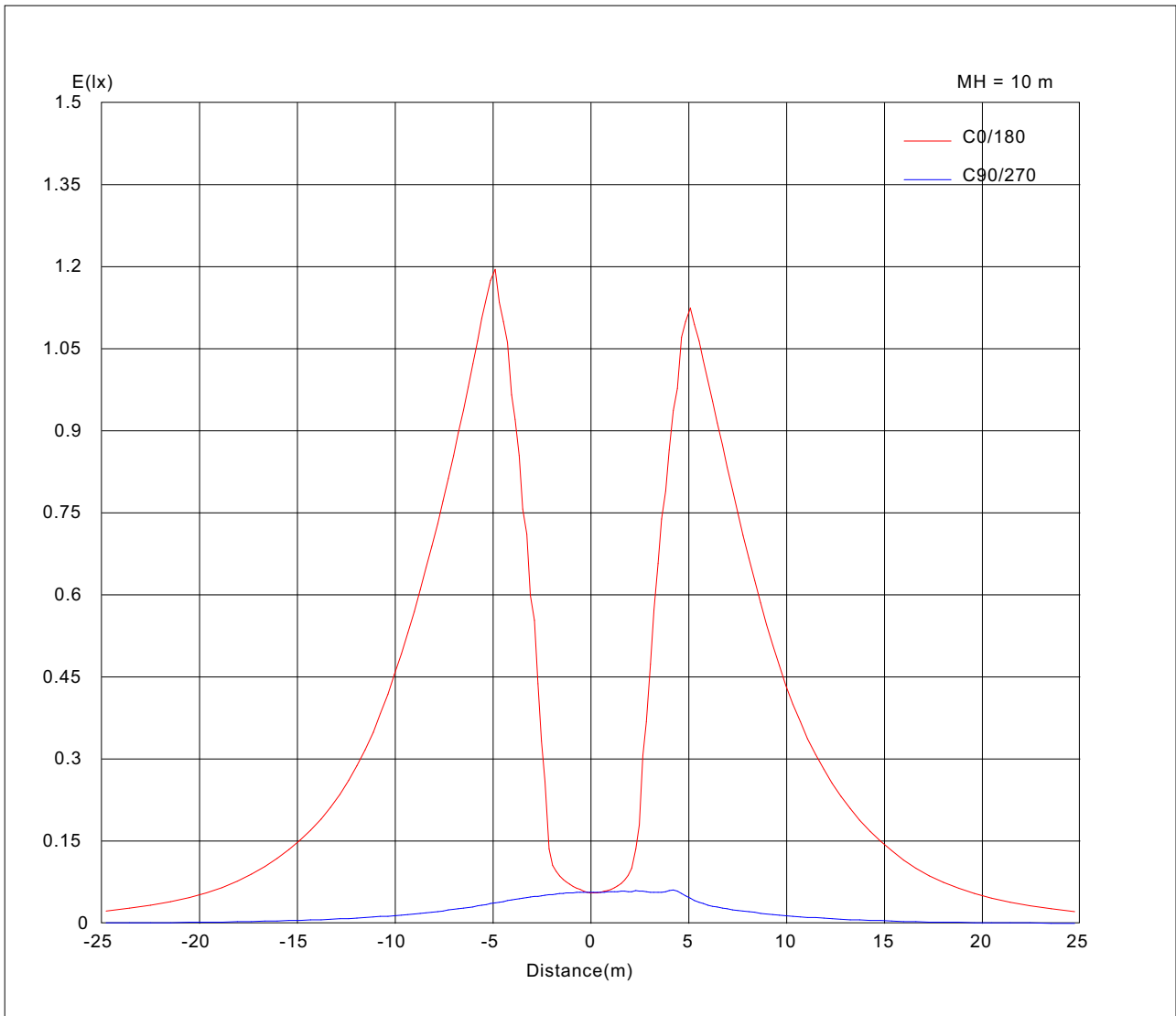
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