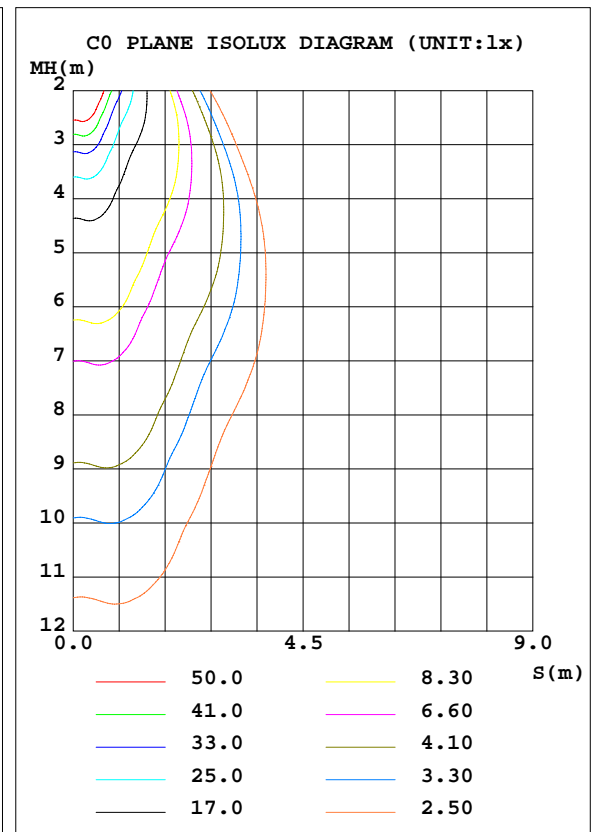
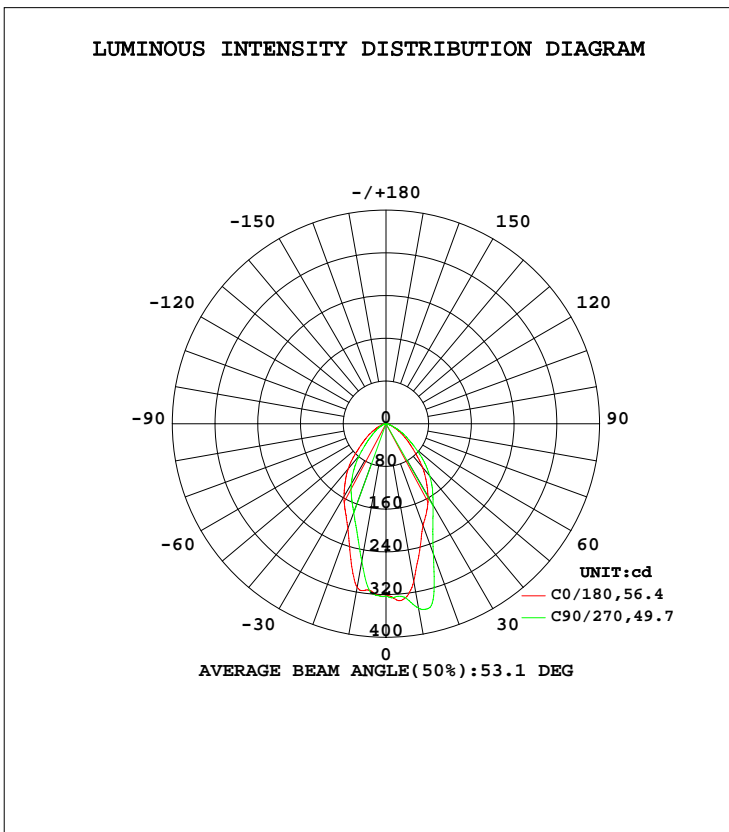


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: MR11-4W-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.005	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL	1003	Imax(cd)	355.3	S/MH(C0/180)	0.78
NOMINAL POWER(W)	4	LOR(%)	100.0	S/MH(C90/270)	0.66
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	389.97	η UP, DN(C0-180)	0.0,56.5
NOMINAL FLUX(lm)	389.966	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0,43.5
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	230	η down(%)	100.0	CIBSE SHR MAX	0.95



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:fu
 Test Date:09 August 2022

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
 Humidity:65.0%
 Test Distance:3.161m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

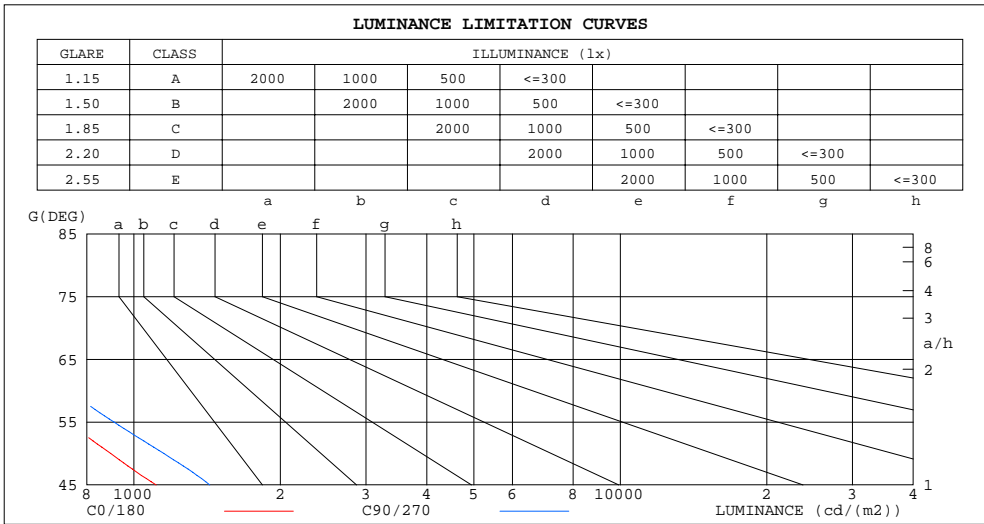
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	lum, lamp
10	300.0	344.8	350.4	344.5	311.0	270.1	261.3	275.3	0- 10	30.34	30.34	7.78,7.78
20	203.1	233.4	259.5	245.9	209.1	188.0	177.1	184.5	10- 20	72.57	102.9	26.4,26.4
30	157.4	166.8	176.5	181.1	157.0	135.8	130.1	141.3	20- 30	83.33	186.2	47.8,47.8
40	106.1	118.8	127.5	127.3	110.3	83.20	78.16	88.40	30- 40	81.42	267.7	68.6,68.6
50	57.40	64.57	74.14	75.62	59.78	39.90	36.32	45.75	40- 50	61.06	328.7	84.3,84.3
60	28.58	31.65	36.46	40.49	30.11	18.18	16.14	21.49	50- 60	36.48	365.2	93.7,93.7
70	10.80	11.12	10.91	15.78	11.94	7.242	6.394	7.810	60- 70	17.94	383.1	98.3,98.3
80	3.037	1.941	1.815	2.946	3.641	1.827	1.196	1.777	70- 80	6.013	389.2	99.8,99.8
90	0.0044	0	0.0321	0.0022	0.0189	0.0029	0.0007	0.0022	80- 90	0.8096	390.0	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		

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:fu
 Test Date:09 August 2022

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
 Humidity:65.0%
 Test Distance:3.161m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

NAME: MR11-4W-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.005	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	109	59
80	176	104
75	240	200
70	317	319
65	425	543
60	574	728
55	728	911
50	896	1152
45	1111	1432

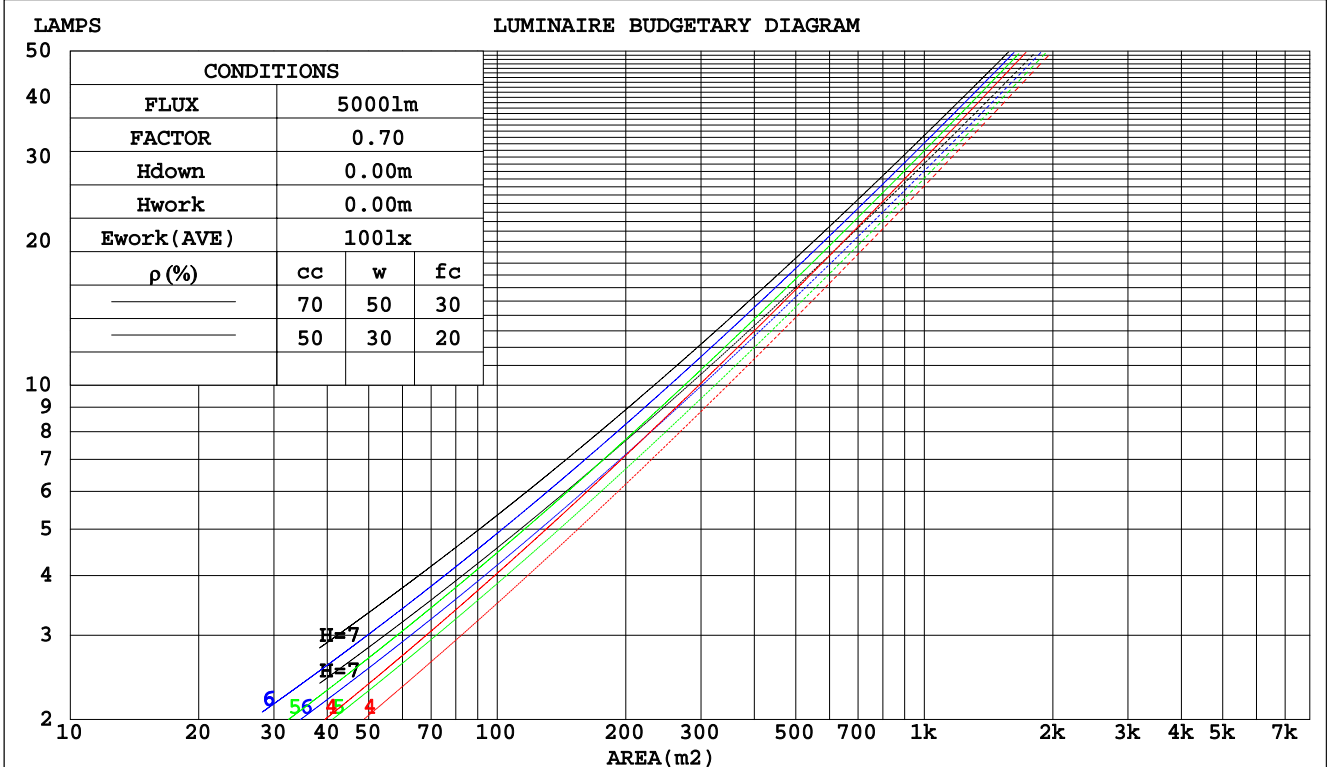
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:fu
 Test Date:09 August 2022

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
 Humidity:65.0%
 Test Distance:3.161m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: MR11-4W-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.005	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pw																
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	1.08	1.05	1.02	1.06	1.03	1.01	1.02	.90	.98	.98	.96	.95	.95	.93	.92	.90
2.0	.98	.93	.89	.96	.92	.88	.93	.89	.86	.90	.87	.84	.87	.84	.82	.80
3.0	.89	.83	.78	.88	.82	.77	.85	.80	.76	.82	.78	.75	.80	.77	.74	.72
4.0	.81	.75	.69	.80	.74	.69	.78	.72	.68	.76	.71	.67	.74	.70	.66	.64
5.0	.75	.67	.62	.74	.67	.62	.72	.66	.61	.70	.65	.61	.68	.64	.60	.58
6.0	.69	.61	.56	.68	.61	.56	.66	.60	.56	.65	.59	.55	.63	.58	.55	.53
7.0	.64	.56	.51	.63	.56	.51	.61	.55	.51	.60	.55	.50	.59	.54	.50	.48
8.0	.59	.52	.47	.58	.52	.47	.57	.51	.47	.56	.50	.46	.55	.50	.46	.45
9.0	.55	.48	.43	.55	.48	.43	.54	.47	.43	.53	.47	.43	.52	.46	.43	.41
10.0	.52	.45	.40	.51	.45	.40	.50	.44	.40	.49	.44	.40	.49	.43	.40	.38



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:fu
 Test Date:09 August 2022

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
 Humidity:65.0%
 Test Distance:3.161m [K=1.0000]
 Remarks:

WEC AND CCEC

NAME: MR11-4W-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.005	Shielding Angle:

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.224	.127	.040	.217	.124	.039	.204	.117	.037	.193	.111	.036	.182	.105	.034	
2.0	.217	.119	.037	.211	.116	.036	.200	.111	.035	.190	.107	.033	.181	.102	.032	
3.0	.207	.110	.033	.202	.108	.032	.192	.104	.032	.183	.100	.031	.175	.097	.030	
4.0	.195	.102	.030	.191	.100	.030	.182	.097	.029	.175	.094	.028	.167	.091	.028	
5.0	.184	.094	.027	.180	.093	.027	.173	.090	.027	.166	.088	.026	.160	.085	.026	
6.0	.174	.087	.025	.171	.086	.025	.164	.084	.024	.158	.082	.024	.152	.080	.024	
7.0	.164	.081	.023	.161	.080	.023	.156	.079	.023	.150	.077	.022	.145	.075	.022	
8.0	.156	.076	.021	.153	.075	.021	.148	.074	.021	.143	.072	.021	.138	.071	.021	
9.0	.148	.071	.020	.145	.071	.020	.140	.069	.020	.136	.068	.020	.132	.067	.019	
10.0	.140	.067	.019	.138	.067	.019	.134	.066	.018	.130	.064	.018	.126	.063	.018	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	.174	.157	.141	.149	.135	.121	.102	.093	.084	.059	.054	.049	.019	.017	.016	
2.0	.162	.132	.107	.139	.114	.093	.095	.079	.065	.055	.046	.038	.018	.015	.012	
3.0	.152	.114	.083	.131	.098	.072	.090	.068	.051	.052	.040	.030	.017	.013	.010	
4.0	.144	.100	.066	.123	.086	.058	.085	.060	.041	.049	.035	.024	.016	.011	.008	
5.0	.136	.089	.054	.117	.077	.047	.080	.054	.033	.047	.031	.020	.015	.010	.006	
6.0	.129	.080	.045	.111	.069	.039	.076	.048	.028	.044	.029	.016	.014	.009	.005	
7.0	.122	.073	.038	.105	.063	.033	.073	.044	.023	.042	.026	.014	.014	.009	.005	
8.0	.117	.067	.033	.100	.058	.028	.069	.041	.020	.040	.024	.012	.013	.008	.004	
9.0	.111	.062	.028	.096	.054	.025	.066	.038	.018	.039	.022	.010	.013	.007	.003	
10.0	.106	.057	.025	.092	.050	.022	.064	.035	.015	.037	.021	.009	.012	.007	.003	

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:fu
 Test Date:09 August 2022

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
 Humidity:65.0%
 Test Distance:3.161m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

NAME: MR11-4W-4000K			TYPE:			WEIGHT:				
SPEC.:			DIM.:			SERIAL No.:				
MFR.: EVERFINE			SUR.:0.005			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	14.2	15.5	14.5	15.6	15.8	15.1	16.3	15.3	16.5	16.7
3H	14.5	15.6	14.8	15.9	16.1	15.4	16.5	15.6	16.7	16.9
4H	14.6	15.6	14.9	15.9	16.1	15.4	16.4	15.6	16.6	16.9
6H	14.6	15.6	14.9	15.8	16.1	15.3	16.3	15.6	16.5	16.8
8H	14.5	15.5	14.9	15.8	16.0	15.3	16.2	15.6	16.5	16.7
12H	14.5	15.4	14.8	15.7	16.0	15.2	16.1	15.5	16.4	16.7
4H 2H	14.4	15.5	14.7	15.7	16.0	15.2	16.2	15.5	16.5	16.7
3H	14.8	15.7	15.1	16.0	16.3	15.5	16.4	15.9	16.7	17.0
4H	14.9	15.7	15.3	16.0	16.3	15.6	16.4	15.9	16.7	17.0
6H	14.9	15.6	15.3	16.0	16.3	15.5	16.2	15.9	16.6	16.9
8H	14.9	15.6	15.3	15.9	16.3	15.5	16.1	15.9	16.5	16.9
12H	14.9	15.5	15.3	15.9	16.3	15.4	16.0	15.8	16.4	16.8
8H 4H	14.9	15.5	15.3	15.9	16.3	15.5	16.2	15.9	16.5	16.9
6H	14.9	15.4	15.3	15.8	16.3	15.5	16.0	15.9	16.4	16.8
8H	14.9	15.4	15.3	15.8	16.2	15.4	15.9	15.9	16.3	16.8
12H	14.9	15.3	15.4	15.7	16.2	15.4	15.8	15.9	16.2	16.7
12H 4H	14.8	15.4	15.2	15.8	16.2	15.4	16.1	15.9	16.4	16.8
6H	14.9	15.3	15.3	15.8	16.2	15.4	15.9	15.9	16.3	16.8
8H	14.9	15.3	15.3	15.7	16.2	15.4	15.8	15.9	16.2	16.7
Variations with the observer position at spacings:										
S = 1.0H	+ 1.0 / - 1.3					+ 0.9 / - 1.2				
1.5H	+ 0.7 / - 0.8					+ 0.6 / - 0.9				
2.0H	+ 1.7 / - 1.6					+ 2.1 / - 1.9				

CIE Pub.117, 390.0 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -3.3)

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:fu
 Test Date:09 August 2022

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
 Humidity:65.0%
 Test Distance:3.161m [K=1.0000]
 Remarks:

UTILIZATION FACTORS TABLE

NAME: MR11-4W-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.005	Shielding Angle:

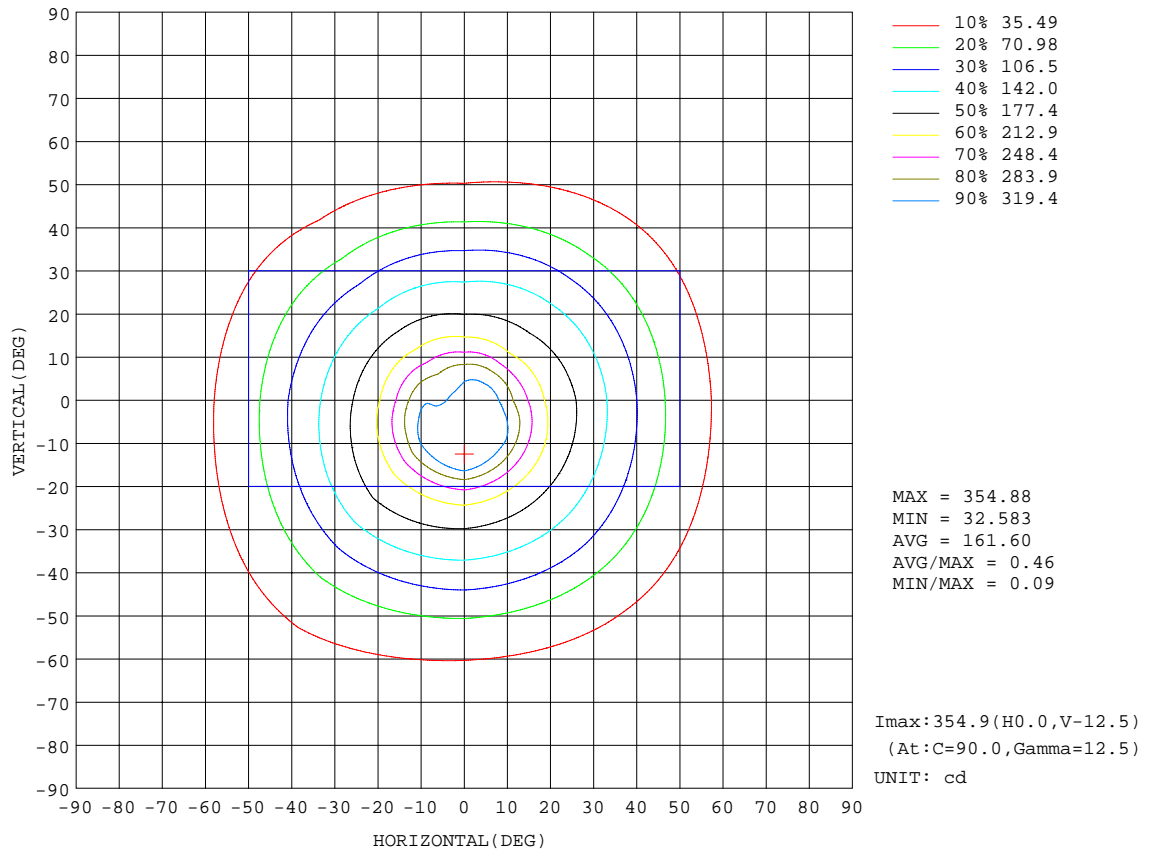
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	72	63	57	71	62	57	70	62	57	52
0.80	81	72	67	80	72	67	79	71	66	61
1.00	88	80	75	87	80	74	85	80	74	68
1.25	94	87	81	93	86	81	91	85	80	75
1.50	98	91	86	97	90	86	94	89	85	79
2.00	103	97	92	101	96	92	98	94	90	84
2.50	106	100	96	104	99	95	100	96	93	86
3.00	108	103	99	106	102	98	102	99	96	89
4.00	111	107	103	108	105	102	105	102	99	92
5.00	112	109	106	110	107	105	106	104	102	93
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: MEDIUM
 Temperature:25.3DEG
 Operators:fu
 Test Date:09 August 2022

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
 Humidity:65.0%
 Test Distance:3.161m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

NAME: MR11-4W-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.005	Shielding Angle:



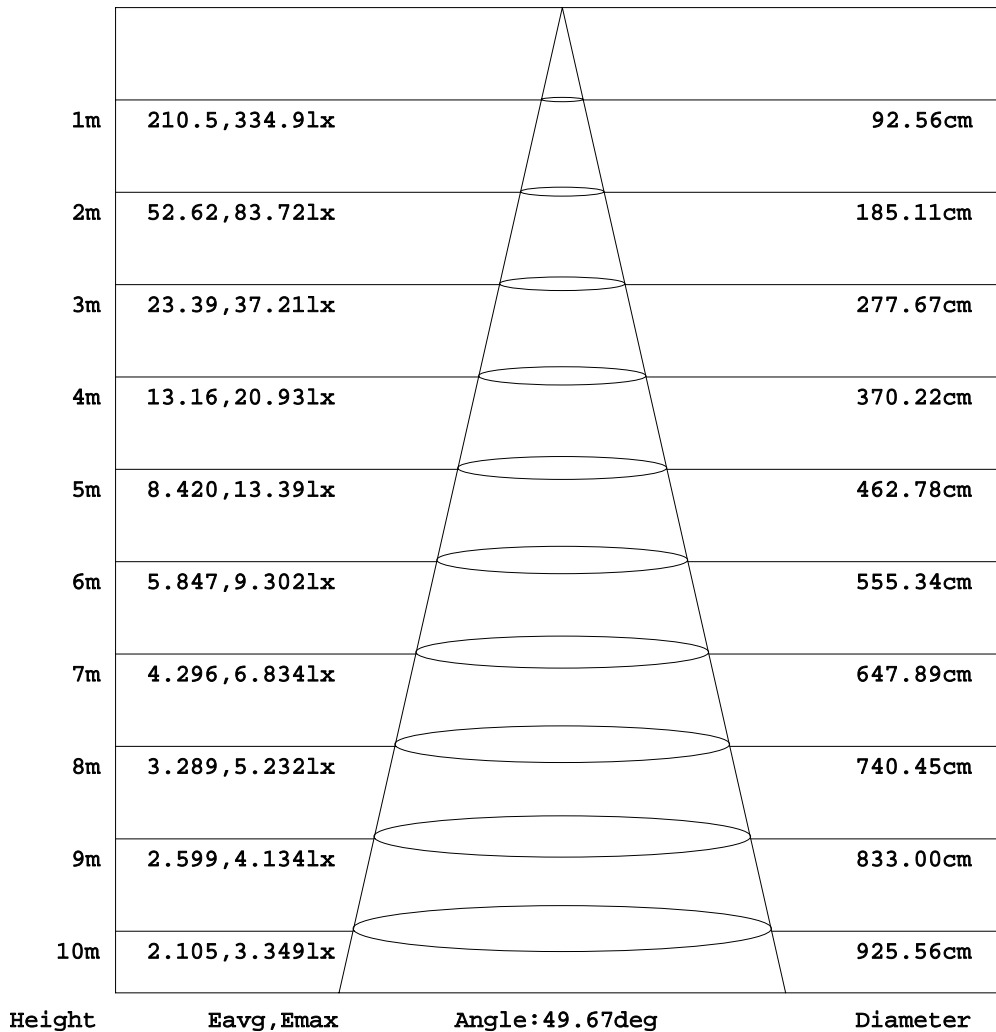
C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators: fu
 Test Date: 09 August 2022

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
 Humidity: 65.0%
 Test Distance: 3.161m [K=1.0000]
 Remarks:

AAI Figure

NAME: MR11-4W-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.005	Shielding Angle:

Flux out:143.8 lm



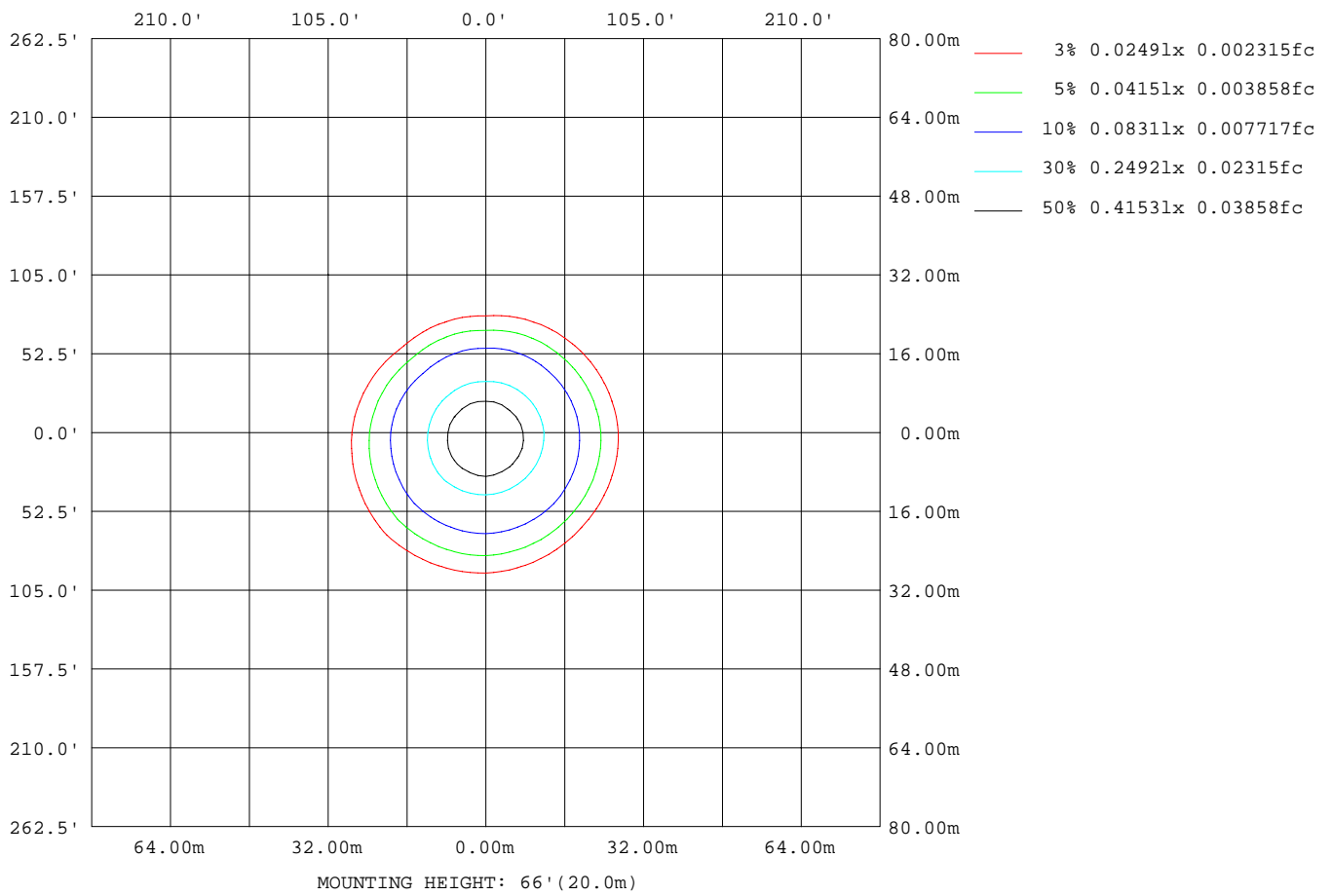
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:fu
 Test Date:09 August 2022

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
 Humidity:65.0%
 Test Distance:3.161m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

NAME: MR11-4W-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.005	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:fu
 Test Date:09 August 2022

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
 Humidity:65.0%
 Test Distance:3.161m [K=1.0000]
 Remarks:

LED Avg.L Report

NAME: MR11-4W-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.005	Shielding Angle:

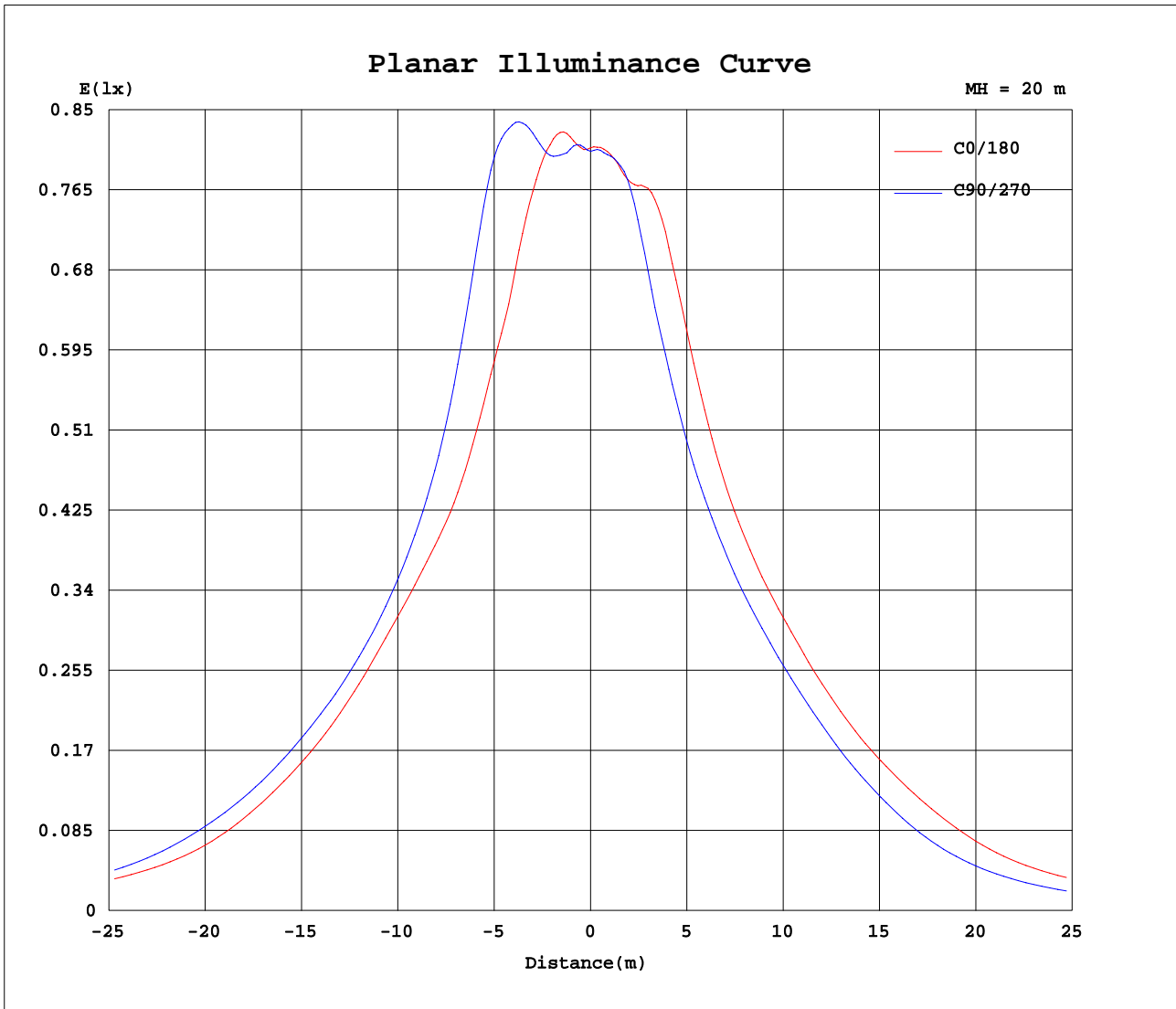
AvgL	cd/m2
L_0~180(65)av	441
L_0~180(75)av	254
L_0~180(85)av	134
L_90~270(65)av	396
L_90~270(75)av	166
L_90~270(85)av	34
L_45(65)av	424
L_45(75)av	211
L_45(85)av	41

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: MEDIUM
 Temperature:25.3DEG
 Operators:fu
 Test Date:09 August 2022

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
 Humidity:65.0%
 Test Distance:3.161m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: MEDIUM
 Temperature: 25.3DEG
 Operators: fu
 Test Date: 09 August 2022

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
 Humidity: 65.0%
 Test Distance: 3.161m [K=1.0000]
 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: MR11-4W-4000K	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:0.005	Shielding Angle:

Table--1

UNIT: cd

C(DEG)\ γ (DEG)	0	45	90	135	180	225	270	315										
0	323	323	323	323	323	323	323	323										
5	332	329	324	336	315	306	318	324										
10	300	345	350	344	311	270	261	275										
15	245	296	341	310	257	223	210	215										
20	203	233	259	246	209	188	177	184										
25	181	193	208	204	181	162	153	163										
30	157	167	177	181	157	136	130	141										
35	132	143	152	155	133	110	105	116										
40	106	119	127	127	110	83.2	78.2	88.4										
45	78.3	92.5	101	101	83.1	58.4	53.7	63.1										
50	57.4	64.6	74.1	75.6	59.8	39.9	36.3	45.7										
55	41.6	44.6	52.3	55.4	43.7	27.4	24.5	32.8										
60	28.6	31.7	36.5	40.5	30.1	18.2	16.1	21.5										
65	17.9	20.2	23.0	26.6	19.4	11.7	10.5	13.2										
70	10.8	11.1	10.9	15.8	11.9	7.24	6.39	7.81										
75	6.19	5.50	5.17	8.02	6.98	4.09	3.43	4.27										
80	3.04	1.94	1.82	2.95	3.64	1.83	1.20	1.78										
85	0.95	0.47	0.51	0.74	1.38	0.15	0.07	0.06										
90	0.00	0.00	0.03	0.00	0.02	0.00	0.00	0.00										

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: fu
Test Date: 09 August 2022
γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE GO-i300_V1 SYSTEM V2.0.406.11
Humidity: 65.0%
Test Distance: 3.161m [K=1.0000]
Remarks: