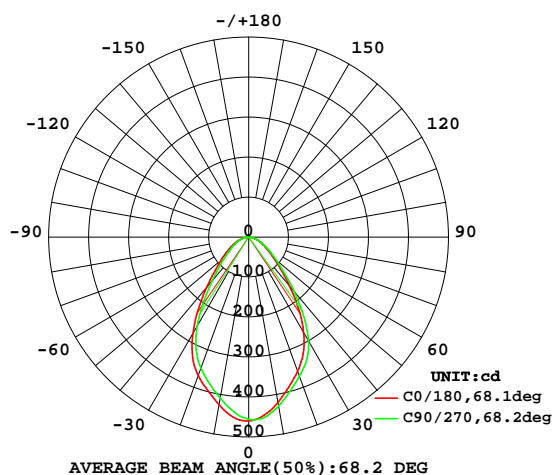


LUMINAIRE PHOTOMETRIC TEST REPORT

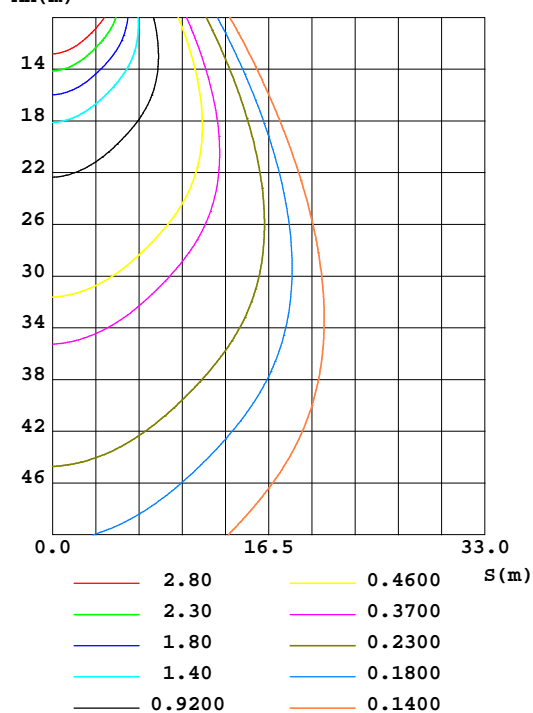
Test:U:110.7V I:0.0723A P:7.848W PF:0.9798 Lamp Flux:642.94x1 lm		
NAME: 918-110V-8W-15MM光源	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 81.92 lm/W			
MODEL 918-110V-8W-15MM光源		I _{max} (cd)	460.1	S/MH(C0/180)	0.97
NOMINAL POWER(W)	8	LOR(%)	100.0	S/MH(C90/270)	1.04
RATED VOLTAGE(V)	110	TOTAL FLUX(lm)	642.94	η UP,DN(C0-180)	0.0,50.9
NOMINAL FLUX(lm)	642.94	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.1
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	110.7	η down(%)	100.0	CIBSE SHR MAX	1.05

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2016-08-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.274
Humidity:65.0%
Test Distance:6.600m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270					γ	Φ zone	Φ total	Φ lum, lamp
10	420.5	429.1	426.2	409.2					0- 10	41.85	41.85	6.51,6.51
20	357.8	370.7	369.0	349.7					10- 20	110.0	151.9	23.6,23.6
30	275.0	299.3	279.7	258.1					20- 30	149.0	300.9	46.8,46.8
40	159.2	177.2	163.7	141.0					30- 40	135.7	436.6	67.9,67.9
50	81.81	90.90	90.37	76.94					40- 50	90.39	527.0	82,82
60	46.46	50.91	53.39	45.56					50- 60	58.19	585.2	91,91
70	25.25	26.75	29.09	25.39					60- 70	36.84	622.0	96.7,96.7
80	8.122	8.508	9.700	8.585					70- 80	18.40	640.4	99.6,99.6
90	0	0	0	0					80- 90	2.524	642.9	100,100
100	0	0	0	0					90-100	0	642.9	100,100
110	0	0	0	0					100-110	0	642.9	100,100
120	0	0	0	0					110-120	0	642.9	100,100
130	0	0	0	0					120-130	0	642.9	100,100
140	0	0	0	0					130-140	0	642.9	100,100
150	0	0	0	0					140-150	0	642.9	100,100
160	0	0	0	0					150-160	0	642.9	100,100
170	0	0	0	0					160-170	0	642.9	100,100
180	0	0	0	0					170-180	0	642.9	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

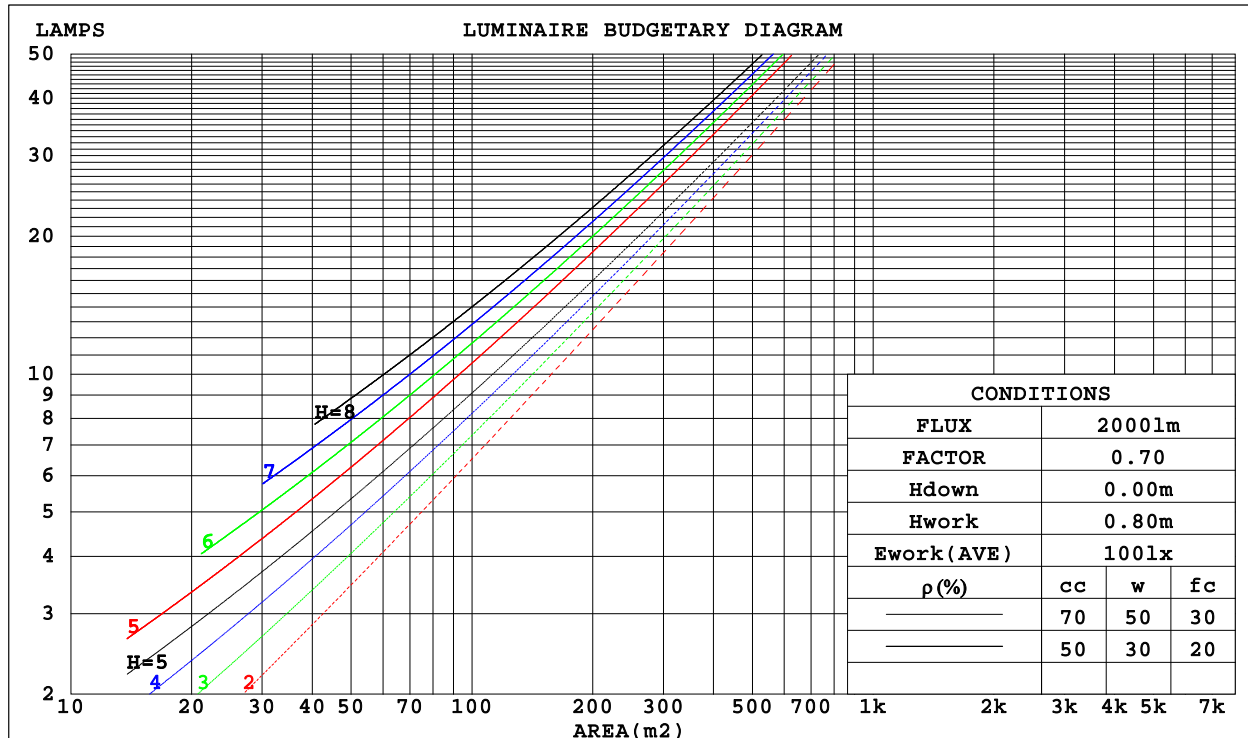
C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2016-08-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.274
 Humidity:65.0%
 Test Distance:6.600m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:110.7V I:0.0723A P:7.848W PF:0.9798 Lamp Flux:642.94x1 lm		
NAME: 918-110V-8W-15MM光源	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

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	1.19	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	1.04	1.01	1.06	1.03	.00	1.01	.99	.97	.98	.96	.94	.94	.93	.91	.89	
2.0	.97	.92	.87	.95	.90	.86	.92	.88	.84	.89	.85	.82	.86	.83	.81	.79	
3.0	.88	.81	.76	.86	.80	.76	.84	.79	.74	.81	.77	.73	.79	.75	.72	.70	
4.0	.80	.73	.67	.79	.72	.67	.77	.71	.66	.74	.69	.65	.72	.68	.65	.63	
5.0	.73	.66	.60	.72	.65	.60	.70	.64	.59	.68	.63	.59	.67	.62	.58	.56	
6.0	.67	.60	.54	.67	.59	.54	.65	.59	.54	.63	.58	.53	.62	.57	.53	.51	
7.0	.62	.55	.50	.61	.54	.49	.60	.54	.49	.59	.53	.49	.57	.52	.48	.47	
8.0	.58	.50	.45	.57	.50	.45	.56	.50	.45	.55	.49	.45	.54	.48	.45	.43	
9.0	.54	.47	.42	.53	.46	.42	.52	.46	.41	.51	.45	.41	.50	.45	.41	.40	
10.0	.50	.43	.39	.50	.43	.39	.49	.43	.38	.48	.42	.38	.47	.42	.38	.37	



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2016-08-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.274
Humidity: 65.0%
Test Distance: 6.600m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:110.7V I:0.0723A P:7.848W PF:0.9798 Lamp Flux:642.94x1 lm		
NAME: 918-110V-8W-15MM光源	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

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	.236	.134	.043	.229	.131	.042	.216	.124	.040	.205	.118	.038	.194	.112	.036															
2.0	.227	.125	.038	.221	.122	.038	.210	.117	.036	.200	.112	.035	.191	.108	.034															
3.0	.215	.114	.034	.210	.112	.034	.200	.108	.033	.191	.105	.032	.183	.101	.031															
4.0	.202	.105	.031	.197	.103	.031	.189	.100	.030	.181	.097	.029	.174	.094	.029															
5.0	.190	.097	.028	.186	.095	.028	.178	.093	.027	.171	.090	.027	.165	.088	.026															
6.0	.178	.089	.026	.175	.088	.025	.168	.086	.025	.162	.084	.025	.156	.082	.024															
7.0	.168	.083	.024	.165	.082	.023	.159	.081	.023	.154	.079	.023	.148	.077	.023															
8.0	.159	.078	.022	.156	.077	.022	.151	.075	.022	.146	.074	.021	.141	.073	.021															
9.0	.151	.073	.020	.148	.072	.020	.143	.071	.020	.139	.070	.020	.135	.068	.020															
10.0	.143	.069	.019	.141	.068	.019	.136	.067	.019	.132	.066	.019	.128	.065	.019															

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	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.175	.157	.140	.150	.135	.121	.103	.093	.083	.059	.054	.049	.019	.017	.016	
2.0	.164	.132	.106	.140	.114	.091	.096	.079	.064	.055	.046	.037	.018	.015	.012	
3.0	.154	.114	.082	.132	.098	.071	.091	.068	.050	.052	.040	.029	.017	.013	.010	
4.0	.145	.100	.065	.125	.086	.057	.086	.060	.040	.050	.035	.024	.016	.011	.008	
5.0	.137	.089	.053	.118	.077	.046	.081	.054	.033	.047	.032	.019	.015	.010	.006	
6.0	.130	.080	.044	.112	.069	.038	.077	.049	.027	.045	.029	.016	.014	.009	.005	
7.0	.124	.073	.037	.107	.063	.033	.074	.044	.023	.043	.026	.014	.014	.009	.005	
8.0	.118	.067	.032	.102	.058	.028	.070	.041	.020	.041	.024	.012	.013	.008	.004	
9.0	.113	.062	.028	.097	.054	.024	.067	.038	.017	.039	.022	.010	.013	.007	.003	
10.0	.107	.058	.025	.093	.050	.022	.064	.035	.015	.037	.021	.009	.012	.007	.003	

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:DAMIN
 Test Date:2016-08-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.274
 Humidity:65.0%
 Test Distance:6.600m [K=1.0000]
 Remarks:

Uncorrected UGR Table

Test:U:110.7V I:0.0723A P:7.848W PF:0.9798 Lamp Flux:642.94x1 lm											
NAME: 918-110V-8W-15MM光源					TYPE:			WEIGHT:			
DIM.:					SPEC.:			SERIAL No.:			
MFR.: EVERFINE					SUR.:			PROTECTION 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	16.2	17.4	16.4	17.6	17.8	16.6	17.8	16.8	18.0	18.2	
	3H	16.9	18.1	17.2	18.3	18.5	17.3	18.4	17.6	18.6	18.9
	4H	17.2	18.3	17.5	18.5	18.8	17.6	18.6	17.9	18.9	19.1
	6H	17.3	18.4	17.7	18.6	18.9	17.7	18.7	18.0	19.0	19.2
	8H	17.3	18.3	17.7	18.6	18.9	17.7	18.7	18.0	19.0	19.2
	12H	17.3	18.2	17.6	18.5	18.8	17.7	18.6	18.0	18.9	19.2
4H	2H	16.5	17.6	16.8	17.8	18.0	16.8	17.9	17.1	18.1	18.4
	3H	17.4	18.3	17.7	18.6	18.9	17.7	18.7	18.0	18.9	19.2
	4H	17.8	18.6	18.2	18.9	19.3	18.1	18.9	18.5	19.3	19.6
	6H	18.0	18.8	18.4	19.1	19.5	18.3	19.1	18.7	19.4	19.8
	8H	18.0	18.7	18.4	19.1	19.5	18.3	19.0	18.7	19.4	19.8
	12H	18.0	18.6	18.4	19.0	19.4	18.3	18.9	18.7	19.3	19.7
8H	4H	17.9	18.6	18.3	19.0	19.3	18.2	18.9	18.6	19.2	19.6
	6H	18.2	18.8	18.6	19.2	19.6	18.5	19.1	18.9	19.5	19.9
	8H	18.3	18.8	18.7	19.2	19.6	18.5	19.0	19.0	19.5	19.9
	12H	18.2	18.7	18.7	19.1	19.6	18.5	18.9	19.0	19.4	19.9
12H	4H	17.9	18.5	18.3	18.9	19.3	18.2	18.8	18.6	19.2	19.6
	6H	18.2	18.7	18.7	19.1	19.6	18.5	19.0	18.9	19.4	19.8
	8H	18.3	18.7	18.7	19.1	19.6	18.5	19.0	19.0	19.4	19.9
Variations with the observer position at spacings:											
S = 1.0H	+ 0.6 / - 0.8					+ 0.6 / - 0.8					
1.5H	+ 0.7 / - 0.6					+ 0.8 / - 0.5					
2.0H	+ 1.1 / - 0.8					+ 1.1 / - 0.8					

CIE Pub.117 Corrected 642.9 lm Total Lamp Luminous Flux.(8log(F/F0) = -1.5)

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2016-08-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.274
Humidity:65.0%
Test Distance:6.600m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:110.7V I:0.0723A P:7.848W PF:0.9798 Lamp Flux:642.94x1 lm		
NAME: 918-110V-8W-15MM光源	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

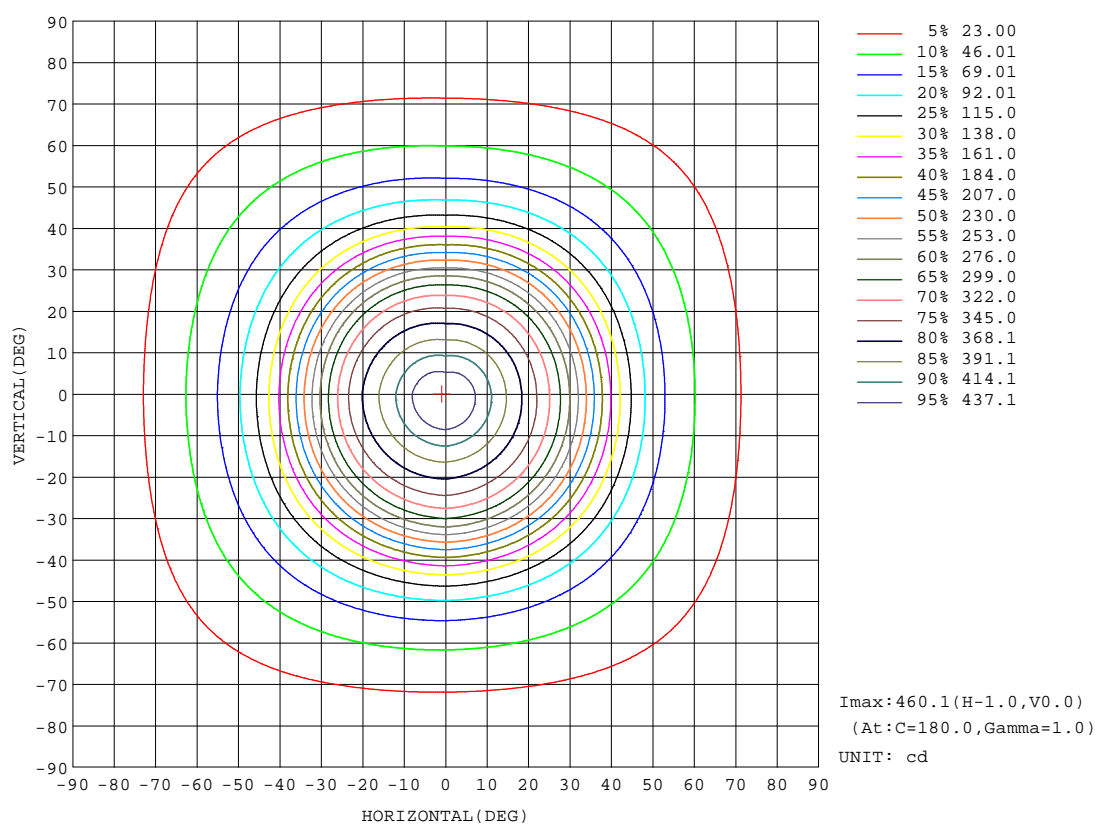
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	72	62	57	71	62	57	70	62	57	52
0.80	81	72	66	80	71	66	78	71	66	60
1.00	88	79	74	87	79	73	85	79	73	67
1.25	93	86	80	92	85	80	90	84	79	73
1.50	97	90	85	96	89	84	93	88	83	77
2.00	102	96	91	101	95	90	97	93	89	82
2.50	105	99	95	103	98	94	100	95	92	85
3.00	107	102	98	105	101	97	102	98	95	88
4.00	110	106	103	108	104	101	104	101	99	91
5.00	112	109	106	110	107	104	106	103	101	93
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2016-08-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.274
 Humidity: 65.0%
 Test Distance: 6.600m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:110.7V I:0.0723A P:7.848W PF:0.9798 Lamp Flux:642.94x1 lm		
NAME: 918-110V-8W-15MM光源	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:



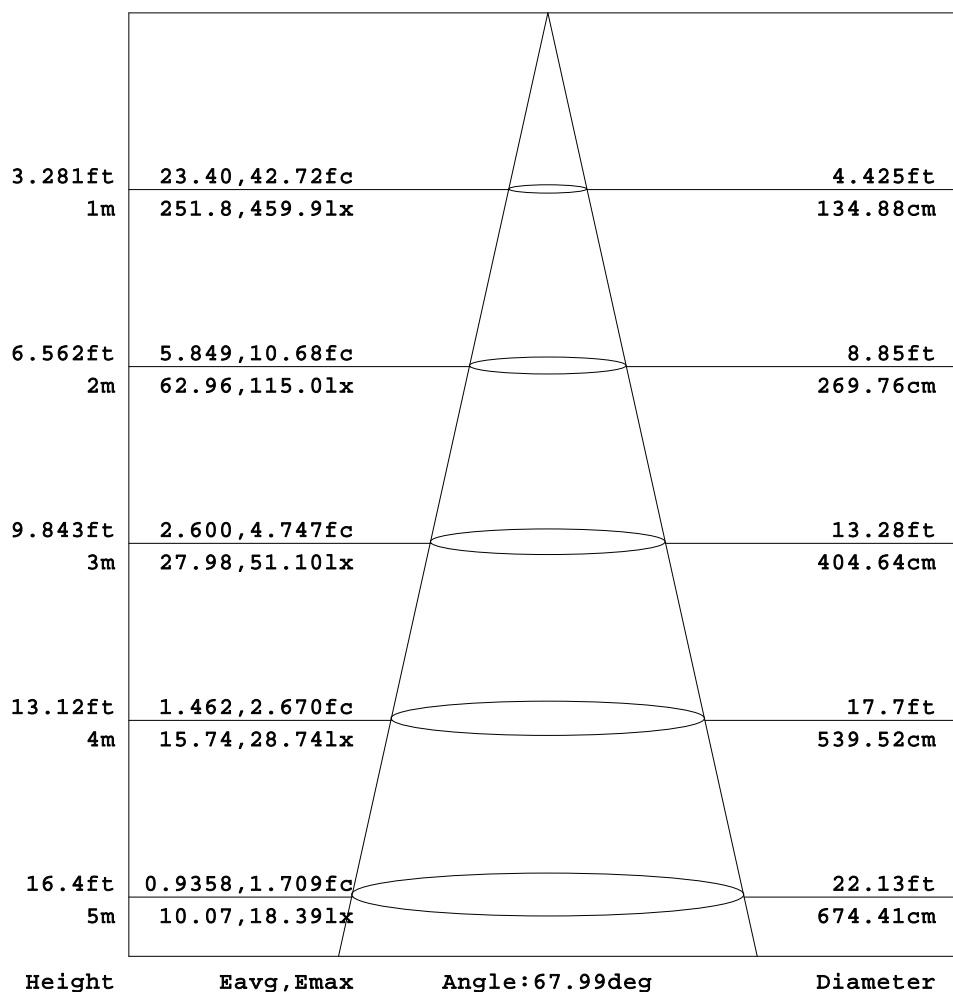
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:DAMIN
Test Date:2016-08-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.274
Humidity:65.0%
Test Distance:6.600m [K=1.0000]
Remarks:

AAI Figure

Test:U:110.7V I:0.0723A P:7.848W PF:0.9798 Lamp Flux:642.94x1 lm		
NAME: 918-110V-8W-15MM光源	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

Flux out:359.9 lm



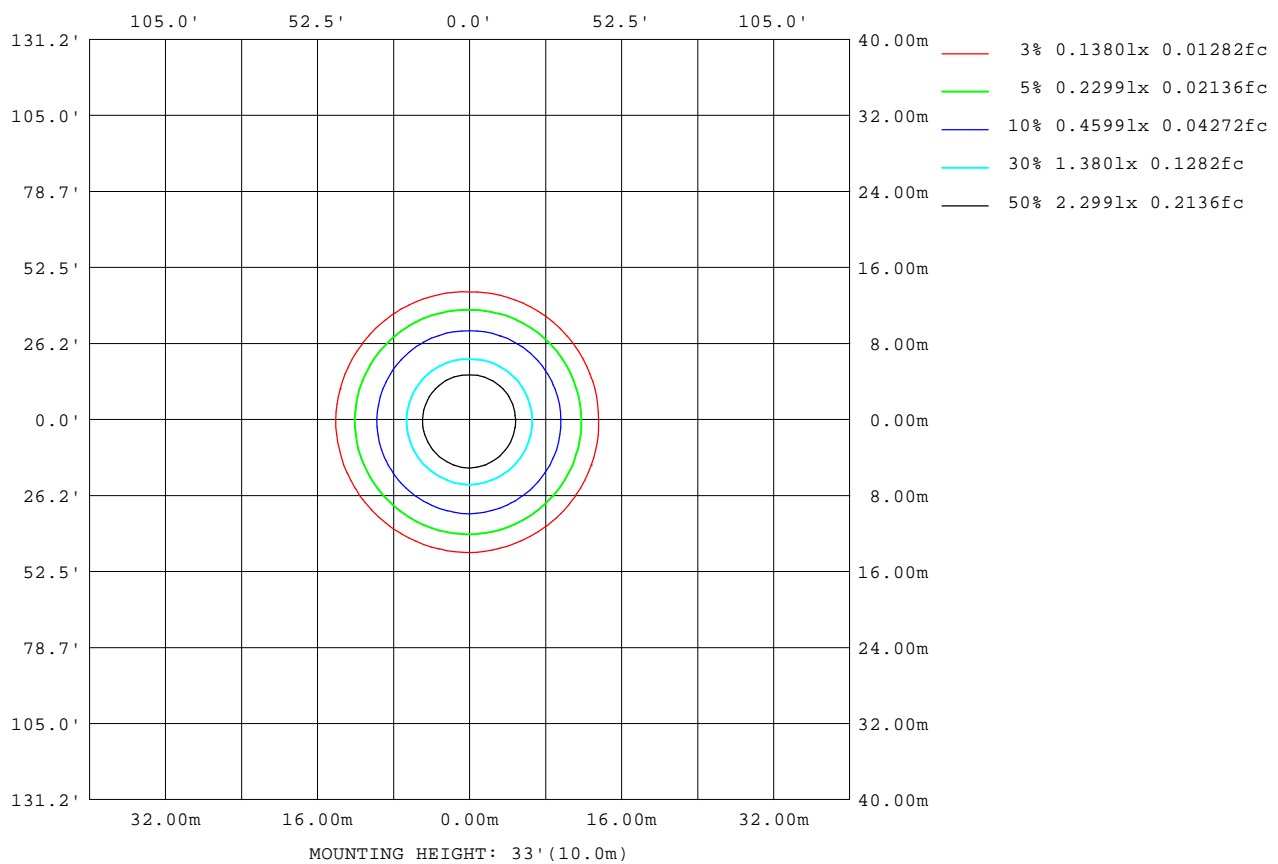
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2016-08-09

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.274
Humidity: 65.0%
Test Distance: 6.600m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

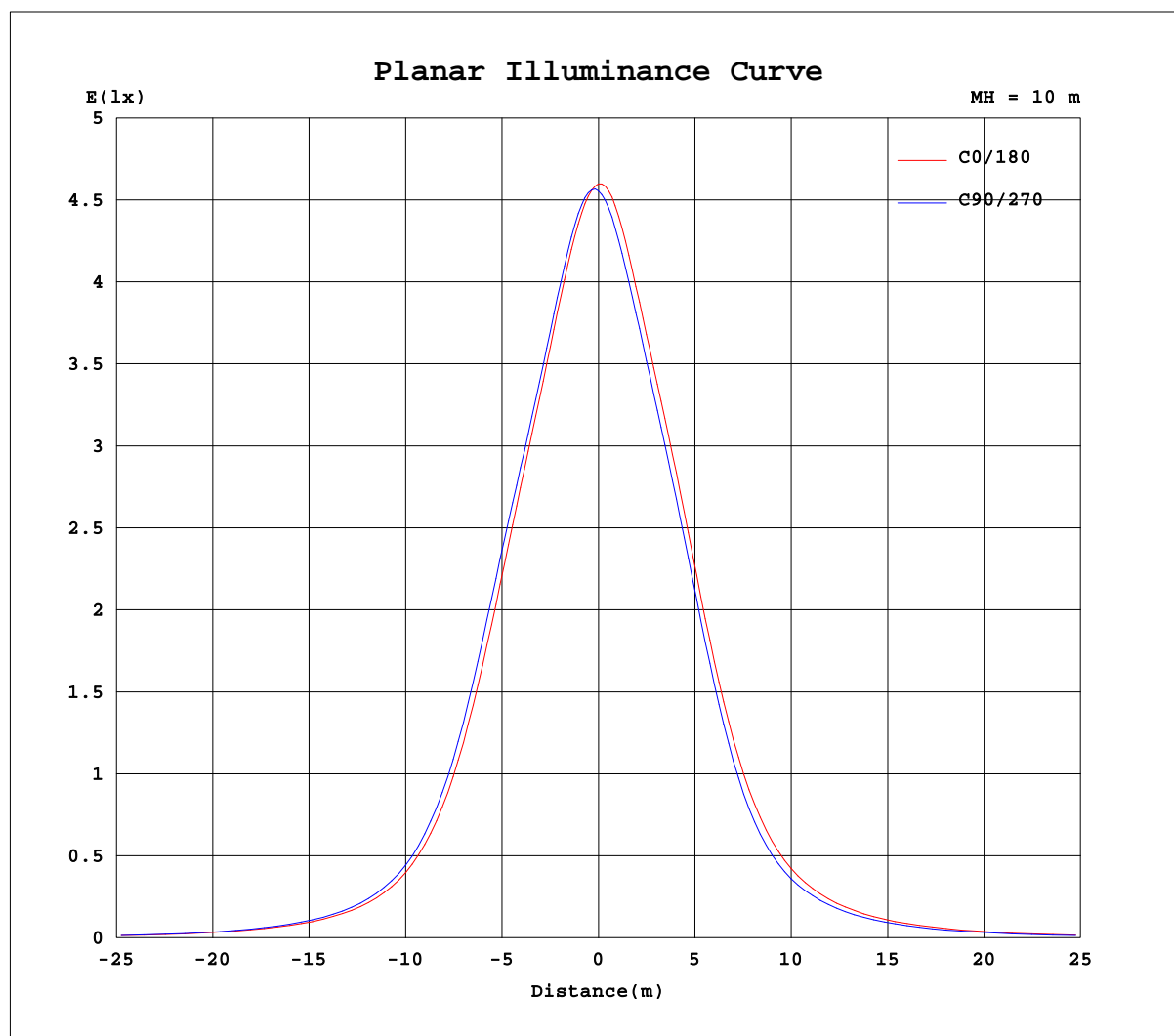
Test:U:110.7V I:0.0723A P:7.848W PF:0.9798 Lamp Flux:642.94x1 lm		
NAME: 918-110V-8W-15MM光源	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2016-08-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.274
Humidity: 65.0%
Test Distance: 6.600m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: DAMIN
Test Date: 2016-08-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.274
Humidity: 65.0%
Test Distance: 6.600m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:110.7V I:0.0723A P:7.848W PF:0.9798 Lamp Flux:642.94x1 lm		
NAME: 918-110V-8W-15MM光源	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	90	180	270															
0	460	456	460	456															
5	447	452	452	438															
10	421	429	426	409															
15	389	399	397	380															
20	358	371	369	350															
25	322	342	332	311															
30	275	299	280	258															
35	217	240	220	196															
40	159	177	164	141															
45	113	126	120	102															
50	81.8	90.9	90.4	76.9															
55	61.0	67.7	69.4	58.9															
60	46.5	50.9	53.4	45.6															
65	35.0	37.7	40.3	34.8															
70	25.2	26.8	29.1	25.4															
75	16.4	17.2	19.0	16.8															
80	8.12	8.51	9.70	8.58															
85	0.17	0.58	1.21	0.01															
90	0.00	0.00	0.00	0.00															
95	0.00	0.00	0.00	0.00															
100	0.00	0.00	0.00	0.00															
105	0.00	0.00	0.00	0.00															
110	0.00	0.00	0.00	0.00															
115	0.00	0.00	0.00	0.00															
120	0.00	0.00	0.00	0.00															
125	0.00	0.00	0.00	0.00															
130	0.00	0.00	0.00	0.00															
135	0.00	0.00	0.00	0.00															
140	0.00	0.00	0.00	0.00															
145	0.00	0.00	0.00	0.00															
150	0.00	0.00	0.00	0.00															
155	0.00	0.00	0.00	0.00															
160	0.00	0.00	0.00	0.00															
165	0.00	0.00	0.00	0.00															
170	0.00	0.00	0.00	0.00															
175	0.00	0.00	0.00	0.00															
180	0.00	0.00	0.00	0.00															

C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: DAMIN
 Test Date: 2016-08-09

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.274
 Humidity: 65.0%
 Test Distance: 6.600m [K=1.0000]
 Remarks: