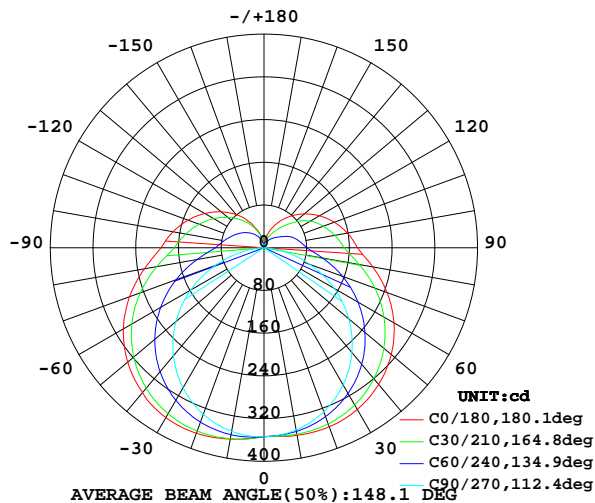


## LUMINAIRE PHOTOMETRIC TEST REPORT

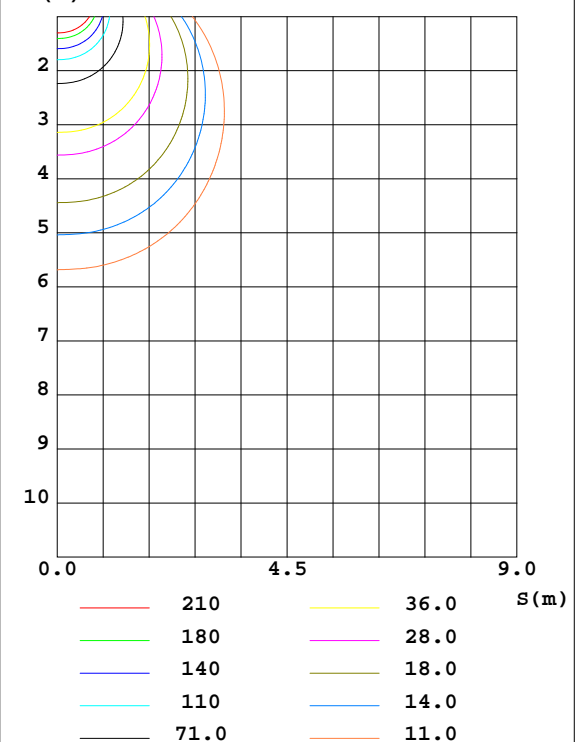
Test:U:230.1V I:0.0700A P:15.20W PF:0.9380 Lamp Flux:1896.37x1 lm		
NAME: UP-ML13-900-15W-C3-3000K	TYPE:15W	WEIGHT:
DIM.:	SPEC.:3000K	SERIAL No.:1
MFR.:	SUR.:0.0656	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 124.76 lm/W			
MODEL-ML13-900-15W-C3-3000K		Imax(cd)	370.1	S/MH(C0/180)	1.48
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	1896.4	$\eta$ UP,DN(C0-180)	11.0,38.2
NOMINAL FLUX(lm)	1896.37	CIE CLASS	SEMI-D.	$\eta$ UP,DN(C180-360)	11.4,39.5
LAMPS INSIDE	1	$\eta$ up(%)	22.4	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	230.0	$\eta$ down(%)	77.6	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2020-01-16

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity:65.0%  
 Test Distance:9.443m [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	356.8	351.9	346.6	356.5	363.7	359.3	349.0	353.4	0- 10	33.89	33.89	1.79,1.79
20	356.8	343.9	326.9	351.5	369.7	356.5	331.9	346.3	10- 20	99.80	133.7	7.05,7.05
30	349.6	327.4	296.4	336.6	367.2	344.5	303.1	330.5	20- 30	157.8	291.5	15.4,15.4
40	334.0	302.4	256.0	313.3	353.8	323.0	263.9	305.7	30- 40	201.5	493.0	26,26
50	311.1	269.8	207.4	281.7	333.2	292.6	215.3	272.7	40- 50	226.0	719.0	37.9,37.9
60	281.0	231.2	151.7	243.0	304.1	254.6	158.7	233.3	50- 60	228.9	947.9	50,50
70	245.3	188.8	91.80	199.4	267.8	210.8	96.98	189.2	60- 70	210.9	1159	61.1,61.1
80	206.8	146.4	34.16	154.9	227.5	165.6	36.99	145.2	70- 80	176.3	1335	70.4,70.4
90	175.3	115.1	1.906	120.4	192.9	129.5	2.160	112.7	80- 90	136.9	1472	77.6,77.6
100	158.7	101.4	2.313	104.4	173.0	112.5	2.182	98.80	90-100	113.5	1586	83.6,83.6
110	140.2	87.69	2.818	89.85	151.4	96.67	2.583	85.27	100-110	96.52	1682	88.7,88.7
120	120.0	70.96	3.496	75.94	128.4	81.47	3.224	69.97	110-120	77.59	1760	92.8,92.8
130	98.82	52.47	4.167	62.37	104.8	66.59	3.813	54.67	120-130	57.56	1817	95.8,95.8
140	77.21	36.48	4.701	48.97	81.21	51.88	4.388	38.21	130-140	38.90	1856	97.9,97.9
150	56.01	24.22	5.276	35.68	56.31	37.45	4.970	25.76	140-150	23.35	1879	99.1,99.1
160	35.48	15.97	5.516	22.38	33.86	23.23	5.431	16.60	150-160	11.78	1891	99.7,99.7
170	16.30	10.17	5.767	11.15	10.84	11.41	5.653	10.01	160-170	4.364	1896	100,100
180	5.790	5.843	5.833	5.785	5.802	5.843	5.821	5.806	170-180	0.7916	1896	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

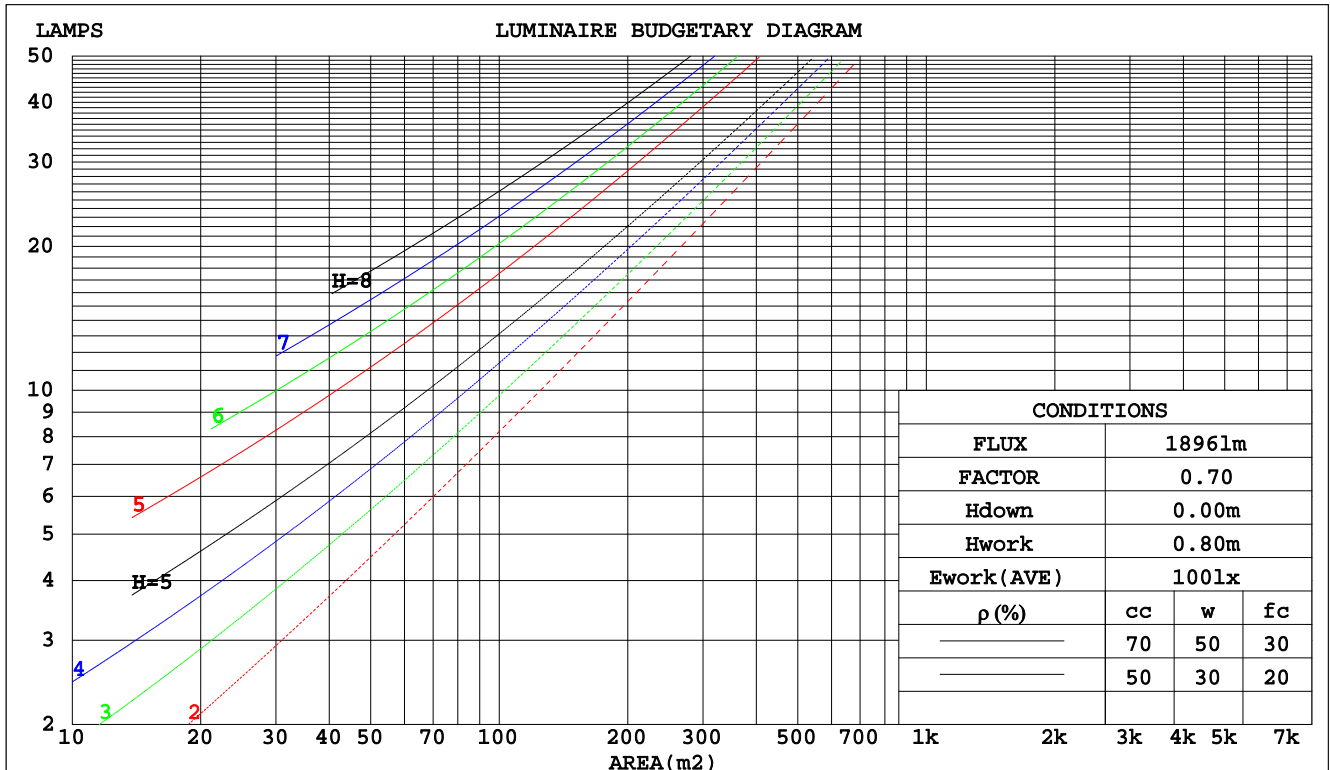
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2020-01-16

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
Humidity:65.0%  
Test Distance:9.443m [K=1.0000]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.1V I:0.0700A P:15.20W PF:0.9380 Lamp Flux:1896.37x1 lm		
NAME: UP-ML13-900-15W-C3-3000K	TYPE:15W	WEIGHT:
DIM.:	SPEC.:3000K	SERIAL No.:1
MFR.:	SUR.:0.0656	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						Coefficients of Utilization(CU)									
0.0	1.14	1.14	1.14	1.08	1.08	1.08	.99	.99	.99	.90	.90	.90	.81	.81	.81	.78
1.0	.95	.89	.85	.90	.85	.81	.82	.78	.74	.74	.71	.68	.67	.64	.62	.58
2.0	.81	.73	.66	.77	.70	.64	.70	.64	.59	.63	.58	.54	.57	.53	.50	.46
3.0	.70	.61	.54	.67	.58	.52	.60	.54	.48	.55	.49	.44	.49	.45	.41	.38
4.0	.61	.52	.45	.58	.50	.43	.53	.46	.40	.48	.42	.37	.43	.38	.34	.31
5.0	.54	.45	.38	.52	.43	.37	.47	.40	.34	.43	.37	.32	.39	.34	.29	.27
6.0	.49	.39	.33	.46	.38	.32	.42	.35	.29	.38	.32	.27	.35	.30	.25	.23
7.0	.44	.35	.28	.42	.33	.27	.38	.31	.26	.35	.29	.24	.32	.26	.22	.20
8.0	.40	.31	.25	.38	.30	.24	.35	.28	.23	.32	.26	.21	.29	.24	.20	.18
9.0	.36	.28	.22	.35	.27	.22	.32	.25	.20	.29	.23	.19	.27	.22	.18	.16
10.0	.33	.25	.20	.32	.24	.19	.29	.23	.18	.27	.21	.17	.25	.20	.16	.14



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2020-01-16

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
 Humidity: 65.0%  
 Test Distance: 9.443m [K=1.0000]  
 Remarks:

## WEC AND CCEC

Test:U:230.1V I:0.0700A P:15.20W PF:0.9380 Lamp Flux:1896.37x1 lm					
NAME: UP-ML13-900-15W-C3-3000K			TYPE:15W		WEIGHT:
DIM.:			SPEC.:3000K		SERIAL No.:1
MFR.:			SUR.:0.0656		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	.383	.218	.069	.369	.211	.067	.343	.197	.063	.319	.184	.059	.296	.172	.055	
2.0	.332	.182	.056	.319	.176	.054	.296	.164	.051	.274	.154	.048	.253	.143	.045	
3.0	.295	.157	.047	.284	.152	.046	.262	.142	.043	.242	.133	.041	.224	.124	.038	
4.0	.266	.138	.041	.255	.134	.039	.236	.125	.037	.217	.117	.035	.201	.109	.033	
5.0	.242	.123	.036	.232	.119	.035	.214	.112	.033	.198	.104	.031	.182	.097	.029	
6.0	.221	.111	.032	.213	.107	.031	.196	.101	.029	.181	.094	.028	.167	.088	.026	
7.0	.204	.101	.029	.196	.098	.028	.181	.092	.026	.167	.086	.025	.154	.080	.024	
8.0	.189	.093	.026	.182	.090	.025	.168	.084	.024	.155	.079	.023	.143	.073	.021	
9.0	.176	.085	.024	.170	.083	.023	.157	.078	.022	.145	.073	.021	.134	.068	.020	
10.0	.165	.079	.022	.159	.077	.021	.147	.072	.020	.136	.067	.019	.125	.063	.018	

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	.361	.361	.361	.309	.309	.309	.211	.211	.211	.121	.121	.121	.039	.039	.039	
1.0	.357	.327	.300	.306	.281	.259	.209	.193	.179	.120	.112	.104	.039	.036	.034	
2.0	.351	.305	.266	.300	.262	.230	.206	.182	.160	.119	.106	.094	.038	.034	.031	
3.0	.343	.288	.245	.294	.249	.212	.202	.173	.149	.117	.101	.088	.038	.033	.029	
4.0	.336	.276	.231	.288	.239	.200	.198	.166	.141	.115	.097	.083	.037	.032	.027	
5.0	.328	.266	.221	.282	.231	.192	.194	.161	.136	.112	.095	.080	.036	.031	.027	
6.0	.321	.259	.214	.276	.224	.186	.190	.157	.132	.110	.092	.078	.036	.030	.026	
7.0	.314	.252	.209	.270	.218	.182	.186	.153	.129	.108	.090	.077	.035	.030	.025	
8.0	.307	.247	.205	.264	.214	.179	.183	.150	.127	.106	.089	.076	.034	.029	.025	
9.0	.301	.242	.202	.259	.210	.176	.180	.148	.125	.105	.087	.075	.034	.029	.025	
10.0	.295	.238	.200	.254	.206	.174	.176	.145	.124	.103	.086	.074	.033	.028	.024	

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2020-01-16

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
Humidity:65.0%  
Test Distance:9.443m [K=1.0000]  
Remarks:

### Uncorrected UGR Table

Test:U:230.1V I:0.0700A P:15.20W PF:0.9380 Lamp Flux:1896.37x1 lm											
NAME: UP-ML13-900-15W-C3-3000K					TYPE:15W			WEIGHT:			
DIM.:					SPEC.:3000K			SERIAL No.:1			
MFR.:					SUR.:0.0656			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		19.1	20.4	19.6	21.0	21.6	16.7	18.1	17.3	18.6	19.3
3H		21.7	22.9	22.3	23.5	24.2	18.3	19.5	18.8	20.1	20.8
4H		23.2	24.3	23.8	24.9	25.7	18.8	20.0	19.5	20.6	21.3
6H		24.8	25.9	25.4	26.5	27.2	19.2	20.3	19.9	21.0	21.7
8H		25.7	26.7	26.3	27.4	28.1	19.4	20.4	20.0	21.0	21.8
12H		26.7	27.7	27.3	28.3	29.1	19.4	20.4	20.0	21.1	21.8
4H 2H		19.6	20.8	20.2	21.4	22.1	17.9	19.1	18.6	19.7	20.4
3H		22.5	23.5	23.2	24.2	24.9	19.8	20.8	20.4	21.4	22.2
4H		24.2	25.1	24.8	25.8	26.6	20.6	21.5	21.2	22.2	23.0
6H		26.0	26.8	26.7	27.5	28.3	21.2	22.0	21.9	22.7	23.5
8H		27.0	27.7	27.7	28.5	29.3	21.4	22.2	22.1	22.9	23.7
12H		28.1	28.8	28.9	29.6	30.4	21.5	22.2	22.3	23.0	23.8
8H 4H		24.5	25.3	25.2	26.0	26.8	21.6	22.4	22.4	23.1	24.0
6H		26.6	27.3	27.3	28.0	28.9	22.7	23.3	23.4	24.1	25.0
8H		27.8	28.4	28.6	29.2	30.1	23.1	23.7	23.9	24.5	25.4
12H		29.2	29.7	30.0	30.5	31.4	23.5	24.0	24.3	24.8	25.7
12H 4H		24.5	25.2	25.2	25.9	26.8	22.0	22.7	22.7	23.4	24.3
6H		26.7	27.3	27.5	28.1	29.0	23.3	23.9	24.0	24.6	25.5
8H		28.0	28.6	28.8	29.3	30.3	23.9	24.4	24.7	25.2	26.1
Variations with the observer position at spacings:											
S = 1.0H		+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H		+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H		+ 0.2 / - 0.3					+ 0.3 / - 0.5				

CIE Pub.117 Corrected 1896 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.2)

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2020-01-16

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
Humidity:65.0%  
Test Distance:9.443m [K=1.0000]  
Remarks:

## UTILIZATION FACTORS TABLE

Test:U:230.1V I:0.0700A P:15.20W PF:0.9380 Lamp Flux:1896.37x1 lm		
NAME: UP-ML13-900-15W-C3-3000K	TYPE:15W	WEIGHT:
DIM.:	SPEC.:3000K	SERIAL No.:1
MFR.:	SUR.:0.0656	PROTECTION ANGLE:

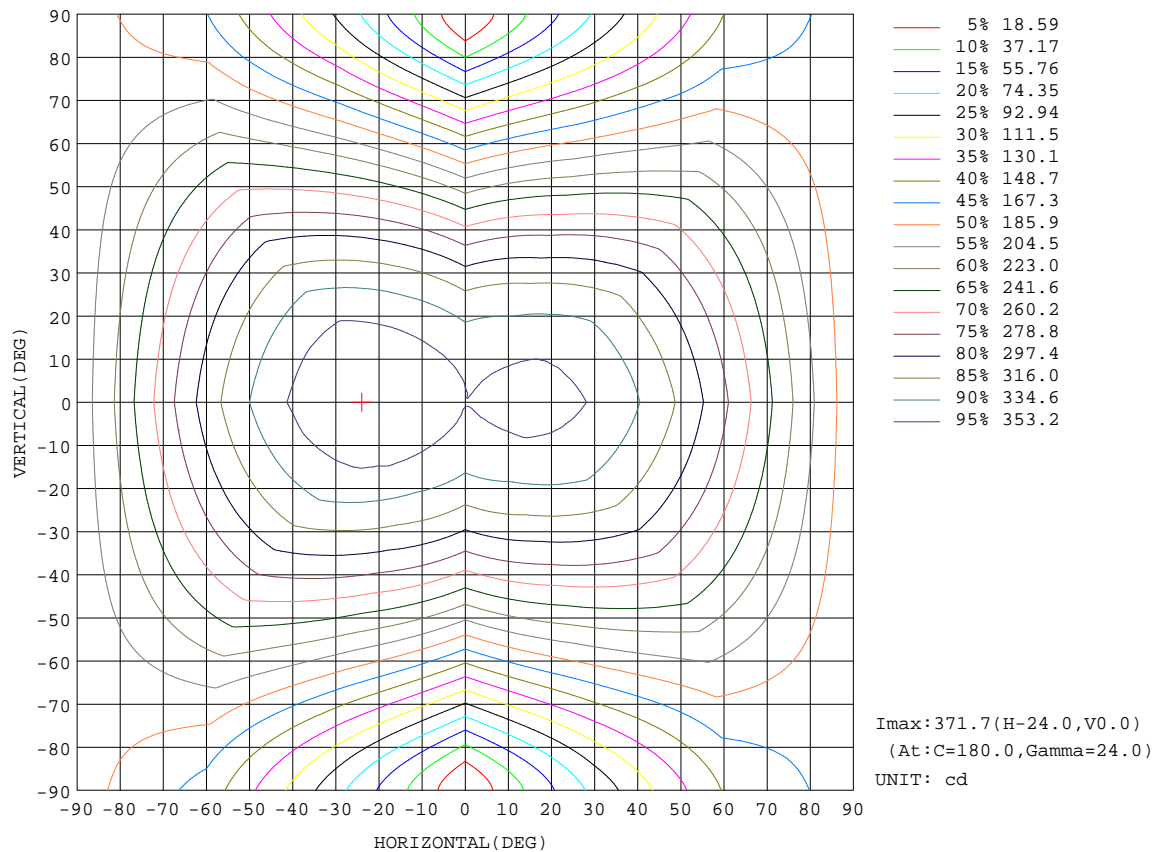
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	46	34	26	45	33	26	43	32	25	19
0.80	55	42	34	53	41	33	50	40	33	24
1.00	63	50	41	61	49	41	57	49	39	30
1.25	70	57	48	67	56	47	63	53	46	35
1.50	75	63	54	72	61	53	67	57	50	39
2.00	82	71	63	79	69	61	73	64	58	45
2.50	87	77	69	83	74	67	76	69	63	49
3.00	91	81	74	87	78	71	80	73	67	53
4.00	96	88	81	91	84	78	83	78	73	57
5.00	99	92	86	94	88	83	86	81	77	60
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2020-01-16

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
Humidity:65.0%  
Test Distance:9.443m [K=1.0000]  
Remarks:

## ISOCANDELA DIAGRAM

Test:U:230.1V I:0.0700A P:15.20W PF:0.9380 Lamp Flux:1896.37x1 lm		
NAME: UP-ML13-900-15W-C3-3000K	TYPE:15W	WEIGHT:
DIM.:	SPEC.:3000K	SERIAL No.:1
MFR.:	SUR.:0.0656	PROTECTION ANGLE:

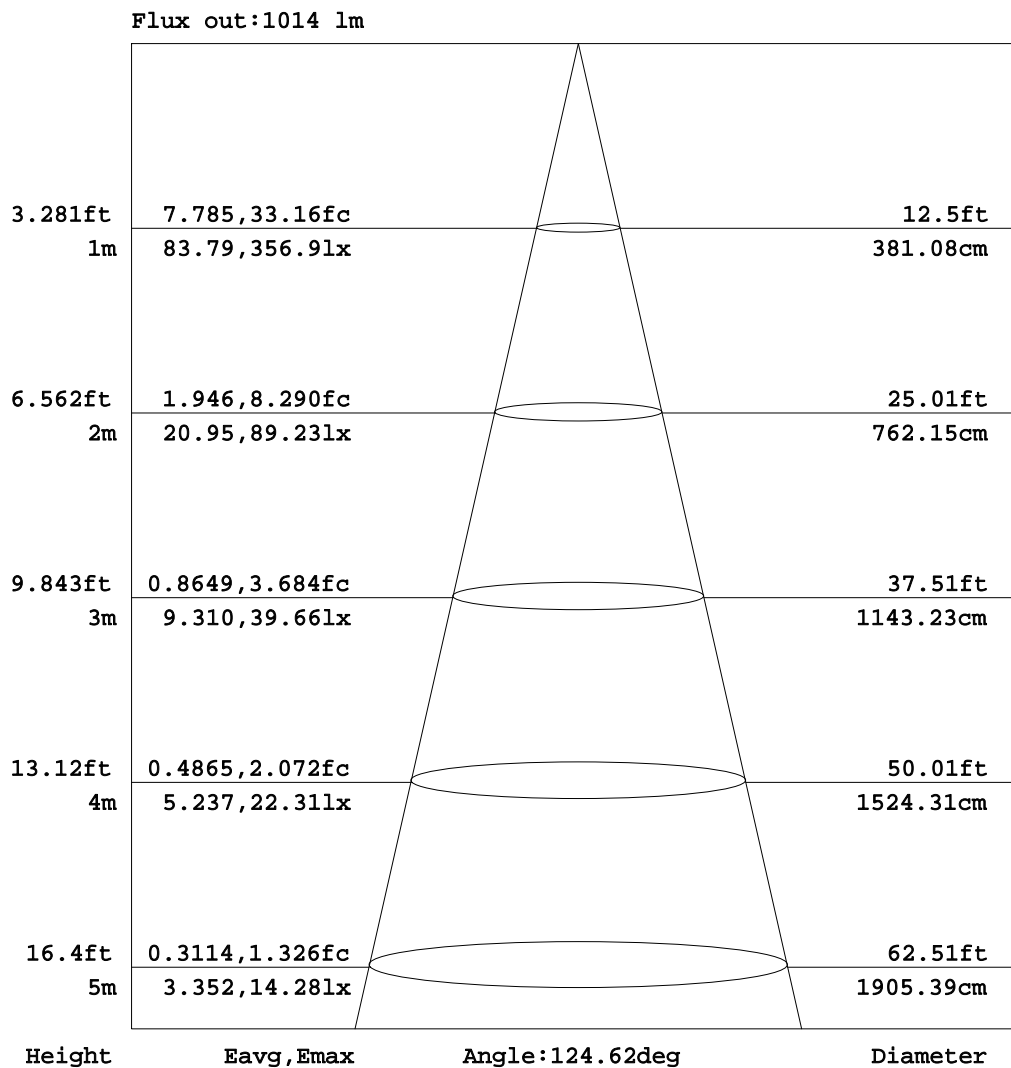


C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2020-01-16

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
Humidity:65.0%  
Test Distance:9.443m [K=1.0000]  
Remarks:

### AAI Figure

Test:U:230.1V I:0.0700A P:15.20W PF:0.9380 Lamp Flux:1896.37x1 lm		
NAME: UP-ML13-900-15W-C3-3000K	TYPE:15W	WEIGHT:
DIM.:	SPEC.:3000K	SERIAL No.:1
MFR.:	SUR.:0.0656	PROTECTION ANGLE:



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

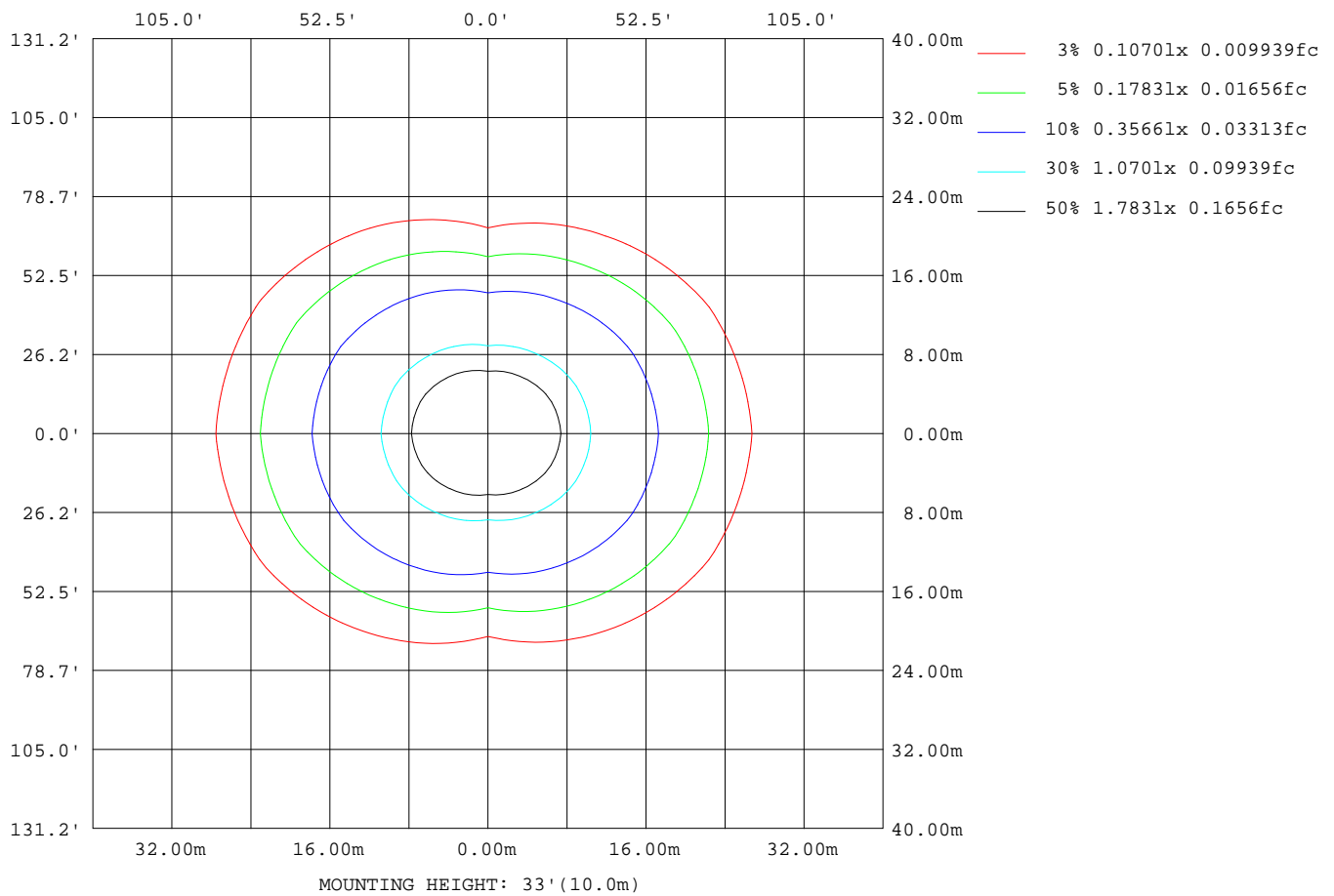
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2020-01-16

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
Humidity:65.0%  
Test Distance:9.443m [K=1.0000]  
Remarks:



### ISOLUX DIAGRAM

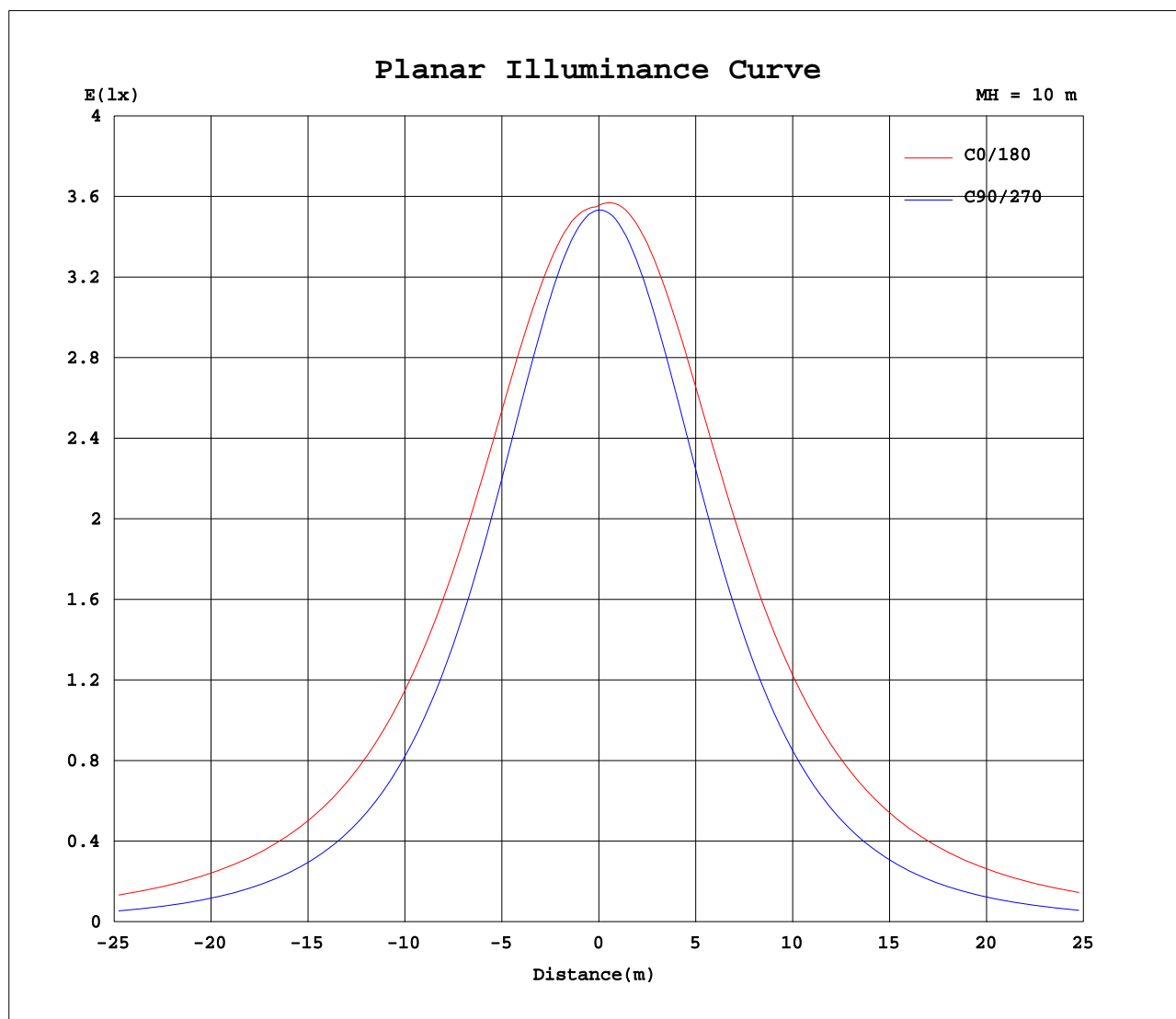
Test:U:230.1V I:0.0700A P:15.20W PF:0.9380 Lamp Flux:1896.37x1 lm		
NAME: UP-ML13-900-15W-C3-3000K	TYPE:15W	WEIGHT:
DIM.:	SPEC.:3000K	SERIAL No.:1
MFR.:	SUR.:0.0656	PROTECTION ANGLE:



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2020-01-16

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
Humidity:65.0%  
Test Distance:9.443m [K=1.0000]  
Remarks:

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2020-01-16

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
Humidity: 65.0%  
Test Distance: 9.443m [K=1.0000]  
Remarks:

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.1V I:0.0700A P:15.20W PF:0.9380 Lamp Flux:1896.37x1 lm		
NAME: UP-ML13-900-15W-C3-3000K	TYPE:15W	WEIGHT:
DIM.:	SPEC.:3000K	SERIAL No.:1
MFR.:	SUR.:0.0656	PROTECTION ANGLE:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	354	354	354	354	354	354	354	354	354	354	354	354							
5	355	354	352	352	355	358	359	360	356	353	353	355							
10	357	355	349	347	353	360	364	363	355	349	351	355							
15	358	354	344	338	349	362	368	365	353	342	347	355							
20	357	351	337	327	342	361	370	365	348	332	340	353							
25	354	347	327	313	333	356	370	363	340	319	331	348							
30	350	340	315	296	322	351	367	359	330	303	319	342							
35	343	331	301	277	308	344	362	352	318	285	305	333							
40	334	320	285	256	292	334	354	343	303	264	289	322							
45	323	307	267	233	274	323	345	332	286	241	271	309							
50	311	293	247	207	255	309	333	318	267	215	251	295							
55	297	277	225	180	233	293	319	303	246	188	229	278							
60	281	259	203	152	210	275	304	286	223	159	206	261							
65	264	241	180	122	187	257	287	267	200	128	182	242							
70	245	221	156	91.8	162	236	268	246	175	97.0	157	221							
75	226	201	133	61.8	138	215	248	225	151	65.9	133	201							
80	207	181	112	34.2	115	194	227	204	127	37.0	110	180							
85	189	164	93.0	12.1	95.2	175	209	184	107	13.6	90.4	162							
90	175	150	80.0	1.91	80.7	160	193	168	91.1	2.16	76.6	149							
95	167	143	73.7	2.02	73.3	151	183	158	83.0	1.94	70.1	141							
100	159	135	68.1	2.31	67.0	142	173	149	76.1	2.18	64.5	133							
105	150	127	62.9	2.51	61.5	132	162	139	69.8	2.35	59.4	125							
110	140	118	57.1	2.82	56.6	123	151	129	64.2	2.58	53.9	116							
115	130	110	50.4	3.17	52.1	113	140	119	59.0	2.85	49.1	108							
120	120	99.6	42.4	3.50	47.8	104	128	109	53.9	3.22	43.1	96.8							
125	109	88.7	35.8	3.82	43.8	94.5	117	98.9	49.1	3.50	37.2	85.2							
130	98.8	74.4	30.5	4.17	39.8	84.9	105	88.8	44.4	3.81	32.1	77.1							
135	88.0	61.6	26.3	4.48	35.8	75.5	93.0	78.8	39.6	4.11	27.7	64.1							
140	77.2	50.5	22.4	4.70	31.8	66.1	81.2	68.8	35.0	4.39	23.7	52.6							
145	66.6	40.6	19.1	5.01	27.6	56.8	69.6	59.0	30.2	4.71	19.9	42.8							
150	56.0	32.2	16.3	5.28	23.6	47.7	56.3	49.3	25.6	4.97	16.8	34.7							
155	45.6	24.9	14.9	5.43	18.9	38.7	43.0	39.7	21.1	5.26	14.2	27.2							
160	35.5	18.9	13.1	5.52	14.8	29.9	33.9	30.5	16.0	5.43	12.5	20.7							
165	26.0	13.4	11.3	5.65	11.4	21.1	22.9	21.7	12.3	5.54	10.9	14.8							
170	16.3	10.9	9.41	5.77	8.75	13.5	10.8	13.7	9.17	5.65	9.07	11.0							
175	7.60	8.02	7.55	5.83	6.75	8.28	7.17	8.36	6.88	5.74	7.41	8.31							
180	5.79	5.82	5.86	5.83	5.81	5.76	5.80	5.83	5.86	5.82	5.83	5.78							

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2020-01-16

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.0.276  
Humidity:65.0%  
Test Distance:9.443m [K=1.0000]  
Remarks: