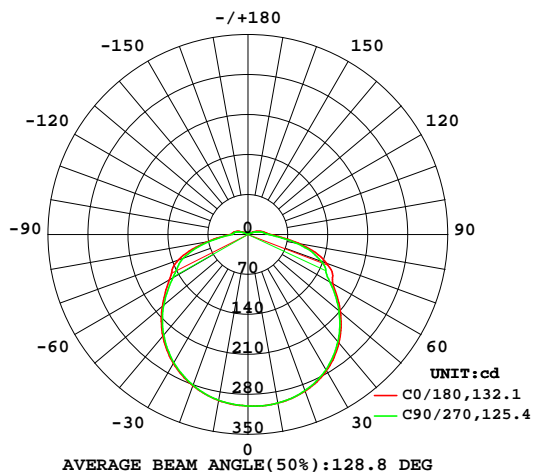


LUMINAIRE PHOTOMETRIC TEST REPORT

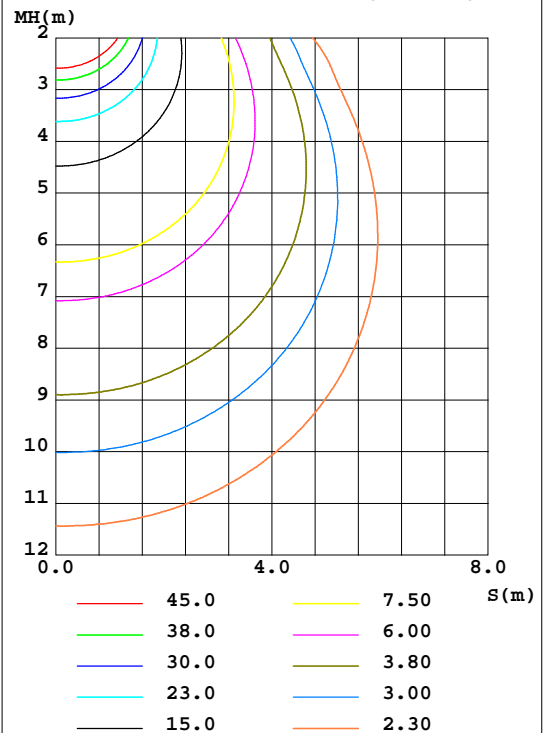
Test:U:230.6V I:0.0498A P:10.63W PF:0.9259 Freq:49.99Hz Lamp Flux:1115.56x1 lm		
NAME: H8104-230V-12MM	TYPE:	WEIGHT:
SPEC.:H8104-230V-12MM	DIM.: 1000*12*1.5	SERIAL No.:
MFR.: COLORS	SUR.:1000*12	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 104.91 lm/W			
MODEL	H8104-230V-12MM	I _{max} (cd)	301.1	S/MH(C0/180)	1.29
NOMINAL POWER(W)	10.6	LOR(%)	100.0	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	1115.6	h UP,DN(C0-180)	3.5,48.8
NOMINAL FLUX(lm)	1115.56	CIE CLASS	DIRECT	h UP,DN(C180-360)	3.1,44.6
LAMPS INSIDE	1	h up(%)	6.6	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	230	h down(%)	93.4	CIBSE SHR MAX	1.50

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:JYH
 Test Date:2020-02-22

g Range: 0 - 180DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.950m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

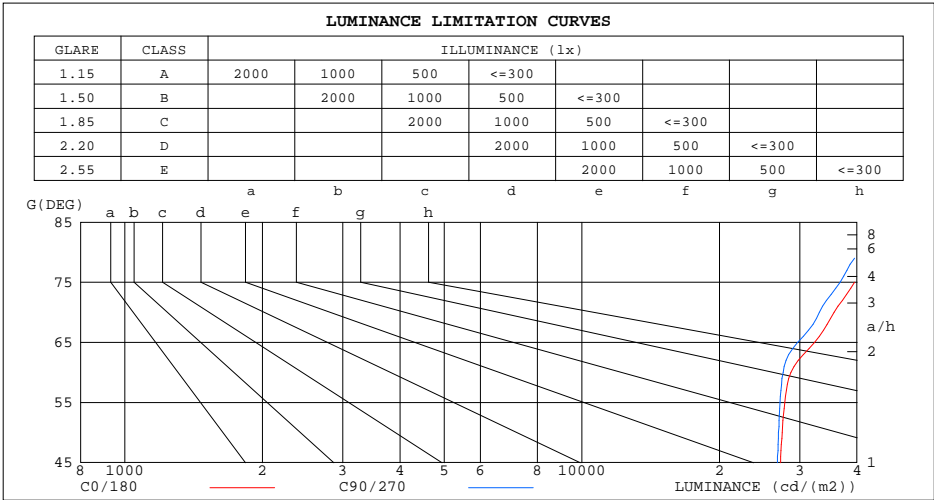
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	299.9	299.4	299.7	299.4	295.2	294.5	294.8	294.6	0- 10	28.52	28.52	2.56,2.56
20	292.2	291.0	291.2	291.1	282.1	280.4	281.1	280.6	10- 20	82.71	111.2	9.97,9.97
30	275.3	273.5	273.4	273.6	261.1	258.7	259.3	259.0	20- 30	128.0	239.3	21.4,21.4
40	247.8	245.3	244.9	245.3	231.9	229.2	229.6	229.4	30- 40	158.6	397.8	35.7,35.7
50	211.3	208.3	208.0	208.2	195.9	192.2	192.8	192.5	40- 50	170.1	567.9	50.9,50.9
60	171.9	165.8	165.5	165.9	159.4	151.8	152.3	152.0	50- 60	161.7	729.7	65.4,65.4
70	146.1	136.5	136.1	136.6	129.2	119.7	119.9	119.7	60- 70	144.8	874.5	78.4,78.4
80	90.29	85.14	84.40	85.05	70.50	66.33	66.58	66.32	70- 80	111.2	985.7	88.4,88.4
90	40.18	36.90	36.69	36.98	31.62	28.82	28.94	28.95	80- 90	56.33	1042	93.4,93.4
100	27.73	25.21	25.38	25.62	25.33	23.11	23.29	23.52	90-100	31.23	1073	96.2,96.2
110	17.59	13.45	13.95	14.30	16.43	13.22	13.61	14.07	100-110	21.09	1094	98.1,98.1
120	7.074	4.521	4.961	5.293	5.816	3.204	3.289	3.596	110-120	9.192	1104	98.9,98.9
130	3.748	3.489	3.497	3.499	3.295	3.249	3.250	3.257	120-130	3.307	1107	99.2,99.2
140	3.982	3.690	3.697	3.720	3.629	3.643	3.631	3.639	130-140	2.742	1110	99.5,99.5
150	4.274	3.857	3.871	3.867	3.850	4.103	4.112	4.107	140-150	2.417	1112	99.7,99.7
160	4.675	3.990	3.991	4.001	4.236	4.470	4.467	4.462	150-160	1.917	1114	99.8,99.8
170	4.689	4.290	4.305	4.308	4.342	4.630	4.647	4.623	160-170	1.242	1115	100,100
180	4.609	4.977	4.981	4.984	4.616	4.971	4.994	4.977	170-180	0.4369	1116	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-02-22

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.6V I:0.0498A P:10.63W PF:0.9259 Freq:49.99Hz Lamp Flux:1115.56x1 lm		
NAME: H8104-230V-12MM	TYPE:	WEIGHT:
SPEC.:H8104-230V-12MM	DIM.: 1000*12*1.5	SERIAL No.:
MFR.: COLORS	SUR.:1000*12	Shielding Angle:



LUMINANCE cd/(m2)		
G(°)	C0/180	C90/270
85	56921	52145
80	43392	40463
75	39519	36744
70	35655	33122
65	32282	29639
60	28693	27561
55	27788	27144
50	27437	26940
45	27213	26800

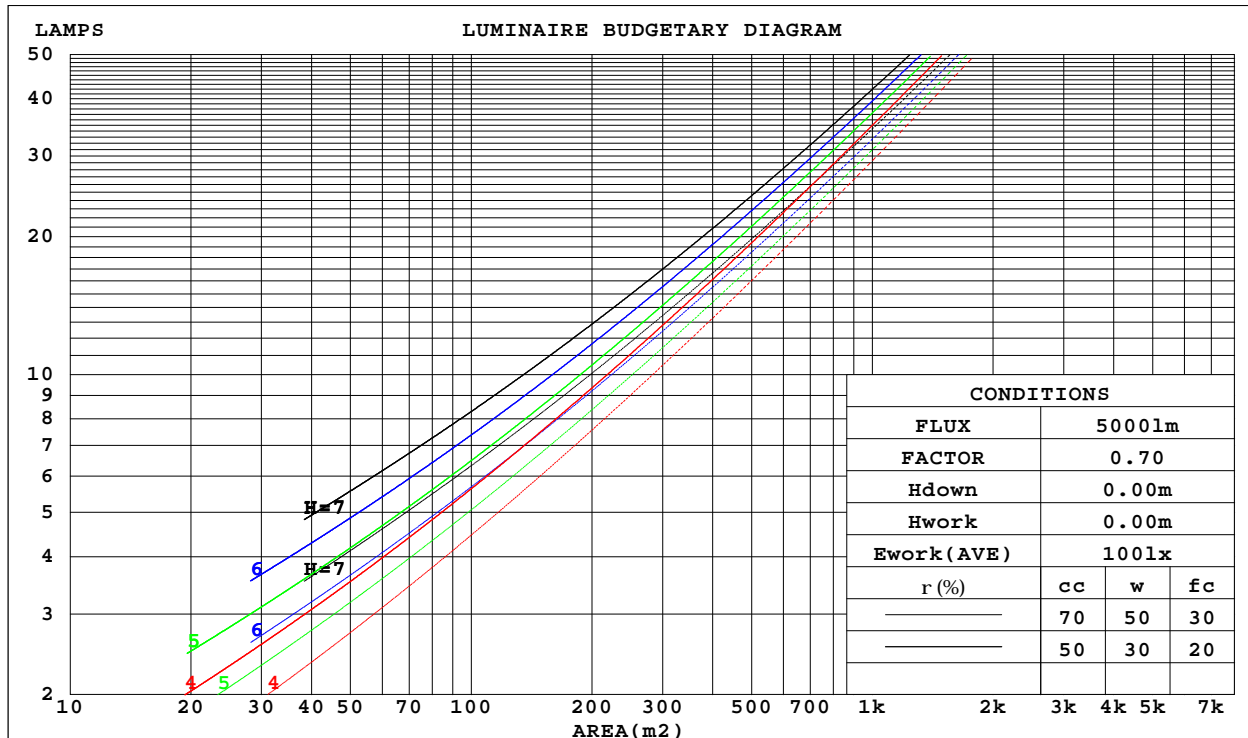
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-02-22

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.6V I:0.0498A P:10.63W PF:0.9259 Freq:49.99Hz Lamp Flux:1115.56x1 lm		
NAME: H8104-230V-12MM	TYPE:	WEIGHT:
SPEC.:H8104-230V-12MM	DIM.: 1000*12*1.5	SERIAL No.:
MFR.: COLORS	SUR.:1000*12	Shielding Angle:

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r _{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.17	1.17	1.17	1.14	1.14	1.14	1.07	1.07	1.07	1.01	1.01	1.01	.96	.96	.96	.93
1.0	.00	.95	.90	.97	.92	.88	.91	.87	.84	.86	.83	.80	.81	.79	.77	.74
2.0	.85	.78	.71	.83	.76	.70	.78	.72	.67	.74	.69	.65	.70	.66	.62	.60
3.0	.74	.65	.58	.72	.64	.57	.68	.61	.55	.64	.59	.54	.61	.56	.52	.49
4.0	.65	.56	.49	.64	.55	.48	.60	.53	.47	.57	.50	.45	.54	.48	.44	.41
5.0	.58	.49	.42	.57	.48	.41	.54	.46	.40	.51	.44	.39	.48	.42	.38	.35
6.0	.52	.43	.36	.51	.42	.35	.48	.40	.35	.46	.39	.34	.44	.38	.33	.31
7.0	.47	.38	.32	.46	.37	.31	.44	.36	.30	.42	.35	.30	.40	.34	.29	.27
8.0	.43	.34	.28	.42	.33	.28	.40	.32	.27	.38	.31	.27	.36	.30	.26	.24
9.0	.39	.31	.25	.38	.30	.25	.37	.29	.24	.35	.29	.24	.34	.28	.23	.21
10.0	.36	.28	.23	.35	.28	.22	.34	.27	.22	.32	.26	.22	.31	.25	.21	.19



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-02-22

g Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:230.6V I:0.0498A P:10.63W PF:0.9259 Freq:49.99Hz Lamp Flux:1115.56x1 lm		
NAME: H8104-230V-12MM	TYPE:	WEIGHT:
SPEC.:H8104-230V-12MM	DIM.: 1000*12*1.5	SERIAL No.:
MFR.: COLORS	SUR.:1000*12	Shielding Angle:

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	RCR:Room Cavity Ratio			Wall Exitance Coefficients(WEC)												
0.0																
1.0	.362	.206	.065	.353	.201	.064	.336	.193	.062	.320	.185	.059	.305	.177	.057	
2.0	.324	.178	.055	.316	.174	.054	.301	.167	.052	.286	.161	.050	.273	.155	.049	
3.0	.292	.156	.047	.285	.153	.046	.271	.147	.045	.258	.142	.043	.246	.136	.042	
4.0	.265	.138	.041	.259	.135	.040	.246	.131	.039	.235	.126	.038	.224	.122	.037	
5.0	.242	.123	.036	.236	.121	.035	.225	.117	.035	.215	.113	.034	.205	.110	.033	
6.0	.223	.112	.032	.217	.110	.032	.207	.106	.031	.198	.103	.030	.189	.100	.030	
7.0	.206	.102	.029	.201	.100	.029	.192	.097	.028	.183	.094	.027	.175	.091	.027	
8.0	.191	.093	.026	.187	.092	.026	.179	.089	.025	.171	.087	.025	.164	.084	.024	
9.0	.178	.086	.024	.174	.085	.024	.167	.083	.023	.160	.080	.023	.153	.078	.022	
10.0	.167	.080	.022	.164	.079	.022	.157	.077	.022	.150	.075	.021	.144	.073	.021	

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	RCR:Room Cavity Ratio			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.241	.241	.241	.206	.206	.206	.140	.140	.140	.081	.081	.081	.026	.026	.026	
1.0	.235	.206	.181	.201	.177	.156	.137	.122	.108	.079	.070	.063	.025	.023	.020	
2.0	.228	.183	.145	.195	.157	.125	.134	.109	.087	.077	.063	.051	.025	.020	.017	
3.0	.220	.166	.122	.189	.143	.106	.130	.099	.074	.075	.058	.044	.024	.019	.014	
4.0	.212	.153	.107	.182	.132	.093	.125	.092	.066	.072	.054	.039	.023	.018	.013	
5.0	.205	.143	.097	.176	.123	.084	.121	.086	.060	.070	.051	.035	.023	.017	.012	
6.0	.197	.135	.090	.169	.117	.078	.117	.082	.055	.068	.048	.033	.022	.016	.011	
7.0	.190	.128	.084	.163	.111	.073	.113	.078	.052	.066	.046	.031	.021	.015	.010	
8.0	.183	.122	.080	.158	.106	.070	.109	.074	.050	.064	.044	.030	.021	.014	.010	
9.0	.177	.117	.077	.152	.102	.067	.106	.071	.048	.062	.042	.028	.020	.014	.009	
10.0	.171	.113	.074	.147	.098	.065	.102	.069	.046	.060	.041	.027	.019	.013	.009	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-02-22

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.6V I:0.0498A P:10.63W PF:0.9259 Freq:49.99Hz Lamp Flux:1115.56x1 lm											
NAME: H8104-230V-12MM						TYPE:		WEIGHT:			
SPEC.:H8104-230V-12MM						DIM.: 1000*12*1.5		SERIAL No.:			
MFR.: COLORS						SUR.:1000*12		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	23.8	25.3	24.2	25.7	26.0	23.7	25.2	24.0	25.5	25.9	
	3H	26.3	27.7	26.7	28.0	28.4	26.0	27.4	26.4	27.7	28.1
	4H	27.4	28.8	27.9	29.2	29.6	27.1	28.4	27.5	28.8	29.2
	6H	28.5	29.7	28.9	30.1	30.6	28.1	29.4	28.6	29.8	30.2
	8H	28.9	30.2	29.4	30.6	31.0	28.6	29.8	29.0	30.2	30.6
	12H	29.4	30.5	29.8	31.0	31.4	29.0	30.1	29.4	30.6	31.0
4H	2H	24.6	25.9	25.0	26.3	26.7	24.5	25.8	24.9	26.2	26.6
	3H	27.2	28.4	27.7	28.8	29.3	27.0	28.2	27.4	28.6	29.0
	4H	28.5	29.6	29.0	30.1	30.6	28.3	29.4	28.7	29.8	30.3
	6H	29.7	30.7	30.3	31.2	31.7	29.4	30.4	29.9	30.9	31.4
	8H	30.3	31.2	30.8	31.7	32.2	30.0	30.9	30.5	31.3	31.9
	12H	30.8	31.6	31.3	32.1	32.7	30.4	31.3	31.0	31.8	32.3
8H	4H	29.0	29.9	29.5	30.4	30.9	28.8	29.7	29.3	30.2	30.7
	6H	30.4	31.2	31.0	31.7	32.3	30.2	30.9	30.7	31.4	32.0
	8H	31.1	31.8	31.7	32.3	32.9	30.8	31.5	31.4	32.0	32.6
	12H	31.8	32.4	32.4	32.9	33.6	31.5	32.1	32.0	32.6	33.2
12H	4H	29.1	29.9	29.6	30.4	31.0	28.8	29.7	29.4	30.2	30.7
	6H	30.6	31.2	31.1	31.8	32.4	30.3	31.0	30.9	31.5	32.1
	8H	31.3	31.9	31.9	32.5	33.1	31.1	31.6	31.6	32.2	32.8
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1					
1.5H	+ 0.1 / - 0.2					+ 0.2 / - 0.2					
2.0H	+ 0.1 / - 0.3					+ 0.1 / - 0.3					

CIE Pub.117, 1116 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.4)

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-02-22

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.6V I:0.0498A P:10.63W PF:0.9259 Freq:49.99Hz Lamp Flux:1115.56x1 lm		
NAME: H8104-230V-12MM	TYPE:	WEIGHT:
SPEC.:H8104-230V-12MM	DIM.: 1000*12*1.5	SERIAL No.:
MFR.: COLORS	SUR.:1000*12	Shielding Angle:

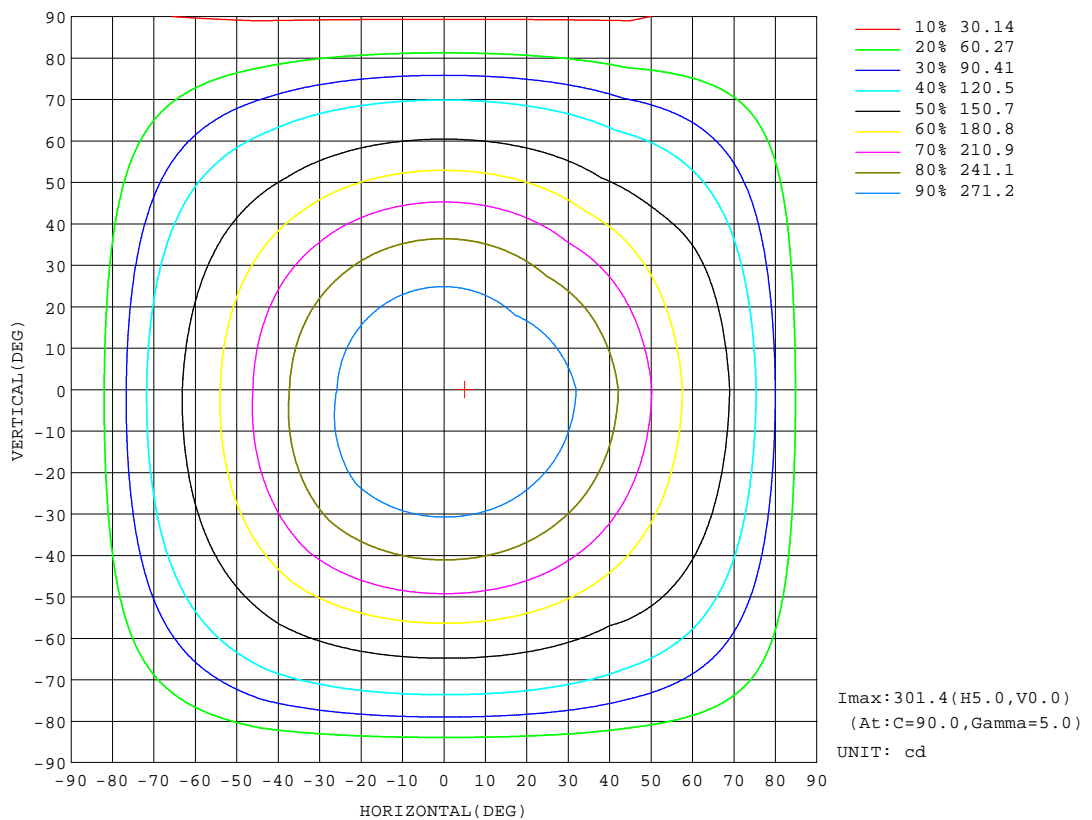
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	52	40	33	51	40	33	50	39	32	26
0.80	62	49	41	61	49	41	58	48	41	33
1.00	70	58	49	68	57	49	66	58	48	40
1.25	77	65	57	75	64	56	72	62	55	47
1.50	82	71	63	80	69	62	76	67	61	52
2.00	89	79	71	87	77	70	82	75	68	59
2.50	93	84	77	91	82	76	86	79	73	63
3.00	97	89	82	94	87	81	89	83	78	67
4.00	102	95	89	99	92	87	93	88	84	73
5.00	104	98	93	101	96	91	96	91	87	76
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:JYH
Test Date:2020-02-22

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:230.6V I:0.0498A P:10.63W PF:0.9259 Freq:49.99Hz Lamp Flux:1115.56x1 lm		
NAME: H8104-230V-12MM	TYPE:	WEIGHT:
SPEC.:H8104-230V-12MM	DIM.: 1000*12*1.5	SERIAL No.:
MFR.: COLORS	SUR.:1000*12	Shielding Angle:



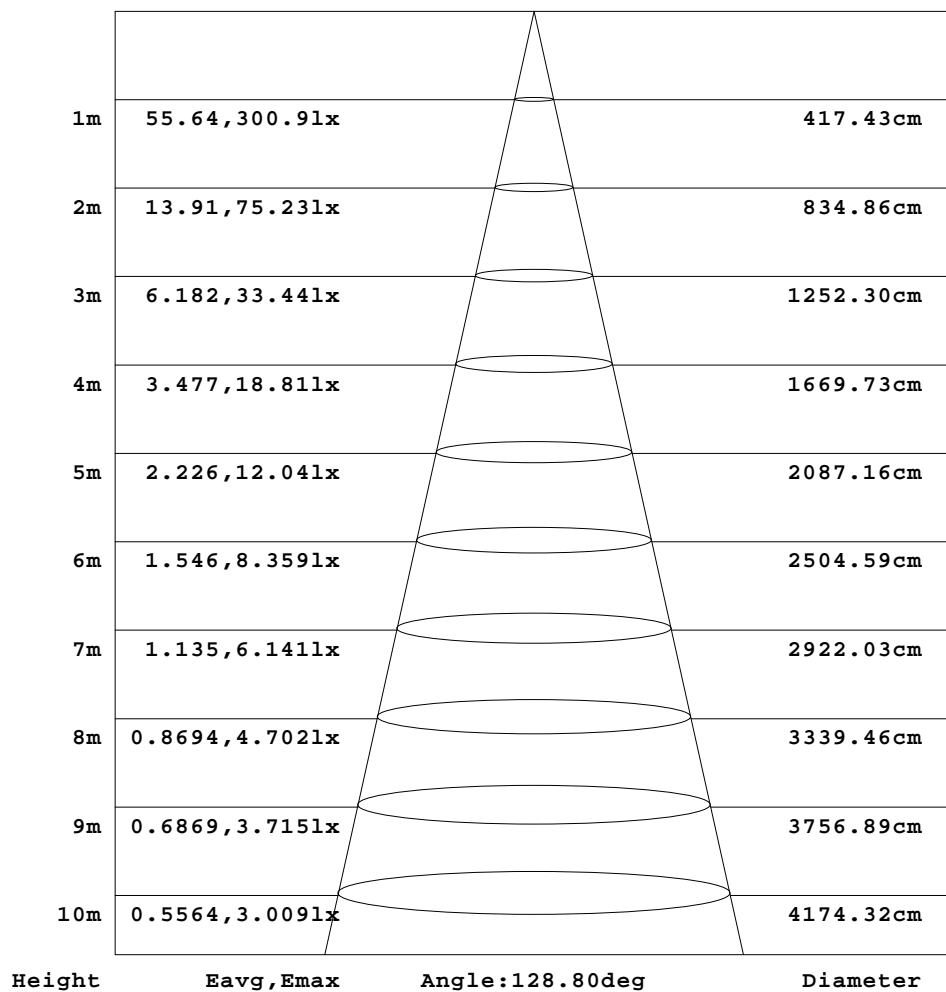
C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JYH
Test Date: 2020-02-22

Range: 0 - 180DEG
Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 10.950m [K=1.0000]
Remarks:

AAI Figure

Test:U:230.6V I:0.0498A P:10.63W PF:0.9259 Freq:49.99Hz Lamp Flux:1115.56x1 lm		
NAME: H8104-230V-12MM	TYPE:	WEIGHT:
SPEC.:H8104-230V-12MM	DIM.: 1000*12*1.5	SERIAL No.:
MFR.: COLORS	SUR.:1000*12	Shielding Angle:

Flux out:803.9 lm



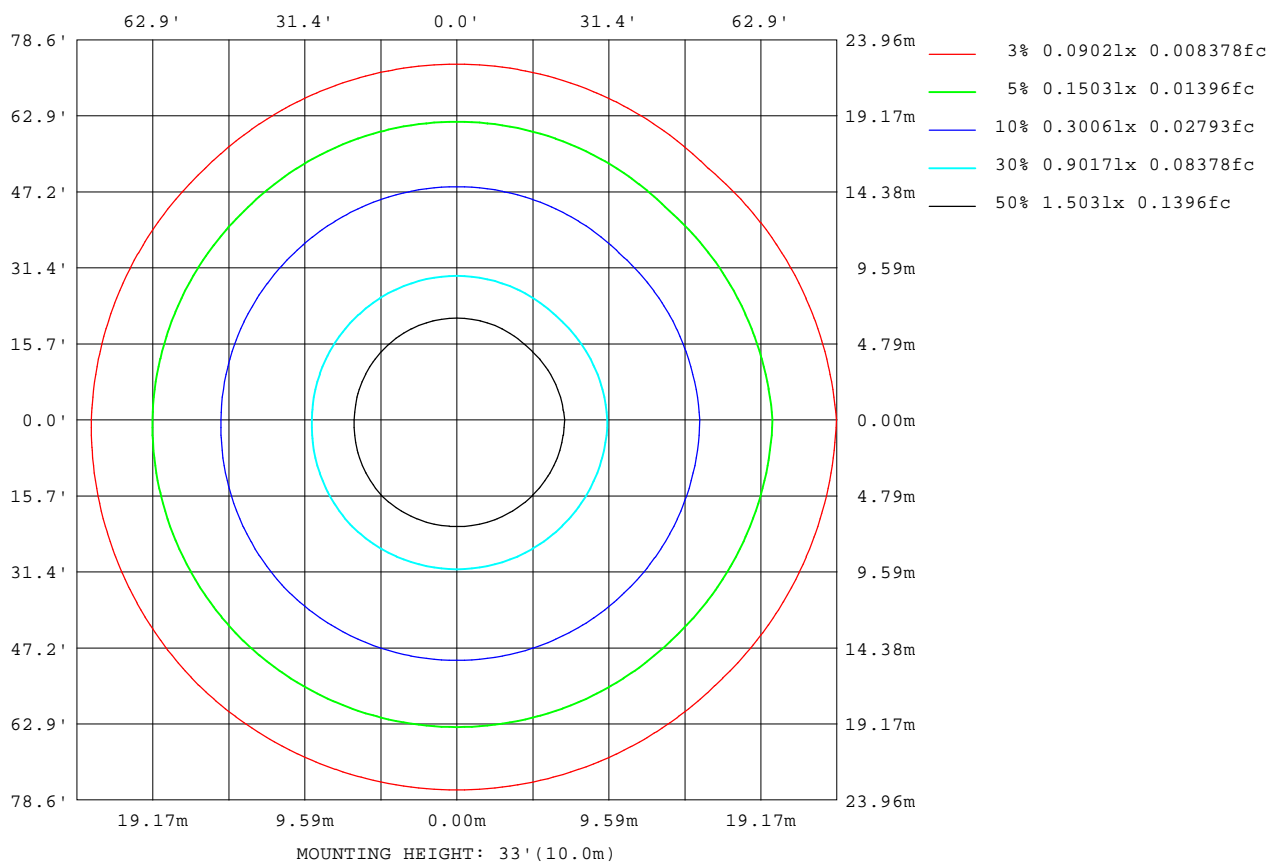
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-02-22

g Range: 0 - 180DEG
g Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

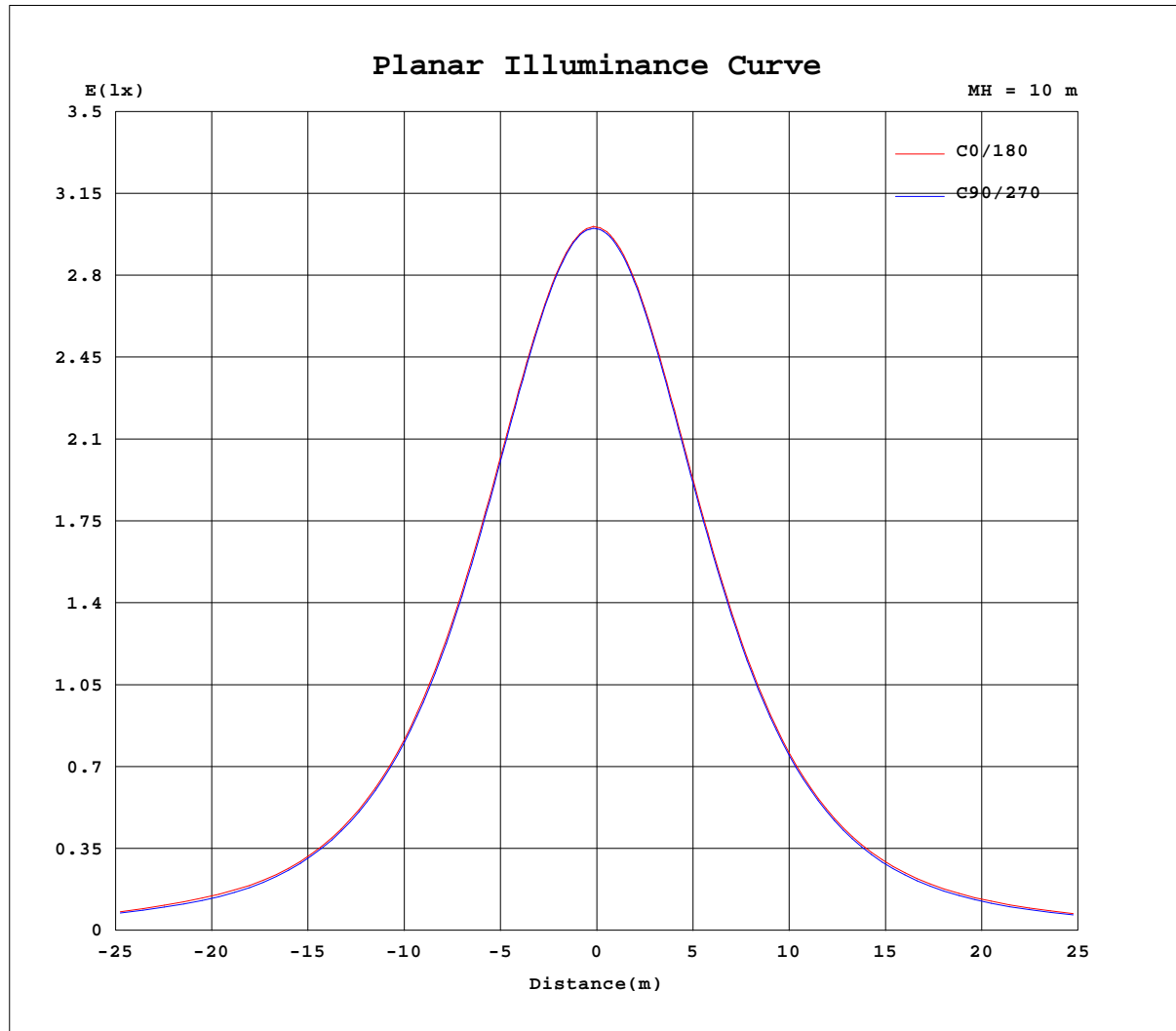
Test:U:230.6V I:0.0498A P:10.63W PF:0.9259 Freq:49.99Hz Lamp Flux:1115.56x1 lm		
NAME: H8104-230V-12MM	TYPE:	WEIGHT:
SPEC.:H8104-230V-12MM	DIM.: 1000*12*1.5	SERIAL No.:
MFR.: COLORS	SUR.:1000*12	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 45.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:JYH
 Test Date:2020-02-22

g Range: 0 - 180DEG
 g Interval: 1.0DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
 Humidity:65.0%
 Test Distance:10.950m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: JYH
Test Date: 2020-02-22

Range: 0 - 180DEG
Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 10.950m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.6V I:0.0498A P:10.63W PF:0.9259 Freq:49.99Hz Lamp Flux:1115.56x1 lm		
NAME: H8104-230V-12MM	TYPE:	WEIGHT:
SPEC.:H8104-230V-12MM	DIM.: 1000*12*1.5	SERIAL No.:
MFR.: COLORS	SUR.:1000*12	Shielding Angle:

Table--1

UNIT: cd

C(DEG) g (DEG)	0	45	90	135	180	225	270	315										
0	300	300	300	300	300	300	300	300										
5	301	301	301	301	299	298	298	298										
10	300	299	300	299	295	294	295	295										
15	297	297	297	296	289	289	289	289										
20	292	291	291	291	282	280	281	281										
25	285	284	283	284	272	271	271	271										
30	275	274	273	274	261	259	259	259										
35	263	260	260	260	248	245	246	245										
40	248	245	245	245	232	229	230	229										
45	231	228	228	228	215	211	212	212										
50	211	208	208	208	196	192	193	192										
55	191	187	187	187	177	172	172	172										
60	172	166	166	166	159	152	152	152										
65	163	151	150	151	146	136	136	136										
70	146	137	136	137	129	120	120	120										
75	123	115	114	115	101	94.6	94.9	94.7										
80	90.3	85.1	84.4	85.1	70.5	66.3	66.6	66.3										
85	59.4	55.1	54.6	55.1	46.1	42.4	42.7	42.4										
90	40.2	36.9	36.7	37.0	31.6	28.8	28.9	29.0										
95	32.3	29.6	29.8	30.0	27.7	25.7	25.7	25.9										
100	27.7	25.2	25.4	25.6	25.3	23.1	23.3	23.5										
105	22.8	18.9	19.1	19.5	21.6	19.0	19.2	19.6										
110	17.6	13.5	13.9	14.3	16.4	13.2	13.6	14.1										
115	12.0	7.96	8.34	8.81	10.6	7.67	7.85	8.38										
120	7.07	4.52	4.96	5.29	5.82	3.20	3.29	3.60										
125	4.22	3.53	3.59	3.74	3.22	3.17	3.16	3.17										
130	3.75	3.49	3.50	3.50	3.30	3.25	3.25	3.26										
135	3.86	3.59	3.59	3.59	3.44	3.41	3.41	3.40										
140	3.98	3.69	3.70	3.72	3.63	3.64	3.63	3.64										
145	4.12	3.78	3.77	3.79	3.75	3.88	3.87	3.88										
150	4.27	3.86	3.87	3.87	3.85	4.10	4.11	4.11										
155	4.48	3.93	3.92	3.93	4.05	4.32	4.30	4.29										
160	4.67	3.99	3.99	4.00	4.24	4.47	4.47	4.46										
165	4.80	4.10	4.10	4.11	4.36	4.58	4.57	4.57										
170	4.69	4.29	4.31	4.31	4.34	4.63	4.65	4.62										
175	4.52	4.62	4.63	4.62	4.30	4.78	4.78	4.77										
180	4.61	4.98	4.98	4.98	4.62	4.97	4.99	4.98										

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C Interval: 45.0DEG
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