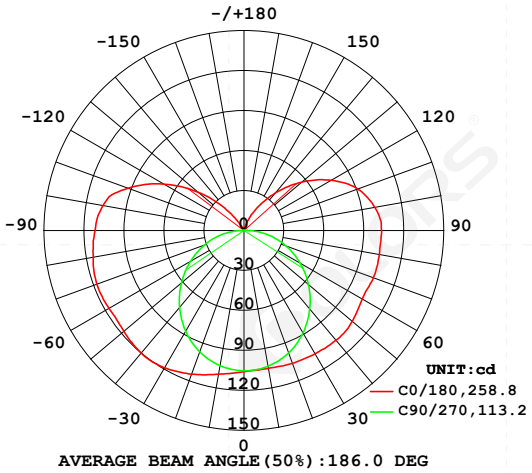
LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:24.00V I:0.6152A P:14.76W PF:1.000 Freq:0Hz Lamp Flux:729.441x1 lm		
NAME: HCP-36618183	TYPE:	WEIGHT:
SPEC.:HCP-36618183	DIM.: 1000*18mm	SERIAL No.:
MFR.: HCP-36618183	SUR.:1000*18mm	Shielding Angle:

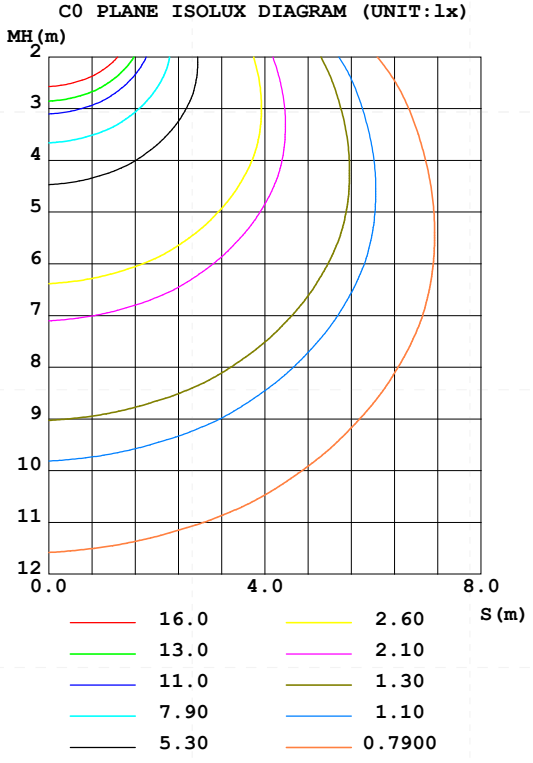
DATA OF LAMP		PHOTOMETRIC DATA Eff: 49.41 lm/W			
MODEL	HCP-36618183	Imax(cd)	120.4	S/MH(C0/180)	1.56
NOMINAL POWER(W)	14.4	LOR(%)	100.0	S/MH(C90/270)	1.24
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	729.44	UP,DN(C0-180)	14.9,35.0
NOMINAL FLUX(lm)	729.441	CIE CLASS	SEMI-D.	UP,DN(C180-360)	14.2,35.9
LAMPS INSIDE	1	up(%)	29.1	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	24	down(%)	70.9	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



AVERAGE BEAM ANGLE(50%):186.0 DEG

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-09-02

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:

	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	105.1	104.1	103.5	106.5	109.5	106.9	103.1	103.2	0- 10	10.06	10.06	1.38,1.38
20	106.2	101.6	97.90	106.9	114.8	107.3	96.95	100.3	10- 20	29.66	39.72	5.45,5.45
30	106.8	98.10	88.73	105.6	119.0	106.0	87.46	96.46	20- 30	47.48	87.20	12,12
40	107.5	92.80	76.86	102.3	120.1	102.4	75.30	90.74	30- 40	61.91	149.1	20.4,20.4
50	106.1	86.87	63.28	95.84	117.7	95.73	61.33	84.56	40- 50	71.68	220.8	30.3,30.3
60	102.6	79.49	48.52	87.14	117.0	86.96	46.40	77.04	50- 60	76.01	296.8	40.7,40.7
70	103.4	72.08	33.17	79.77	117.5	79.83	31.35	69.54	60- 70	76.24	373.0	51.1,51.1
80	103.2	68.44	17.64	75.99	115.0	75.98	16.11	65.70	70- 80	74.32	447.4	61.3,61.3
90	103.2	66.63	3.389	72.00	111.8	72.10	2.140	62.72	80- 90	70.11	517.5	70.9,70.9
100	99.76	63.20	1.231	67.55	107.6	68.01	0.6544	55.39	90-100	65.75	583.2	80,80
110	91.08	53.91	0.7615	51.73	92.94	52.37	0.7348	50.13	100-110	57.43	640.6	87.8,87.8
120	75.58	38.69	0.8810	30.89	70.03	31.63	0.8819	35.02	110-120	42.38	683.0	93.6,93.6
130	56.64	24.89	1.055	14.76	44.72	14.77	1.056	22.31	120-130	26.00	709.0	97.2,97.2
140	37.04	13.97	1.176	3.517	20.31	3.065	1.196	11.39	130-140	12.97	722.0	99,99
150	19.58	6.759	1.276	2.084	3.708	1.844	1.296	4.454	140-150	5.083	727.1	99.7,99.7
160	6.183	1.999	1.483	1.783	1.817	1.723	1.550	1.537	150-160	1.672	728.7	99.9,99.9
170	1.844	1.704	1.776	1.850	1.489	1.783	1.791	1.683	160-170	0.5314	729.3	100,100
180	1.603	1.917	1.910	1.917	1.603	1.930	1.970	1.917	170-180	0.1683	729.4	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:2020-09-02

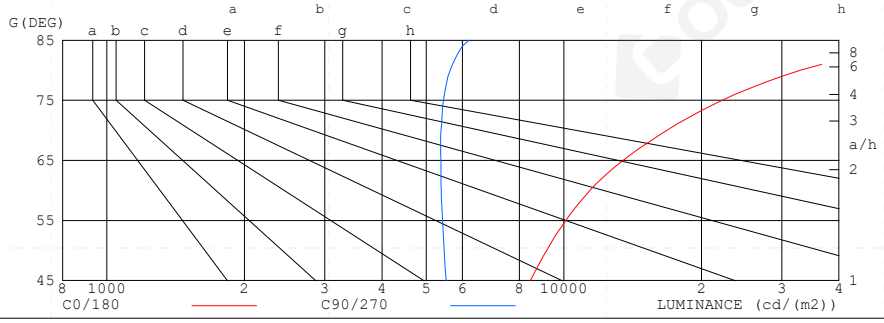
Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

Test:U:24.00V I:0.6152A P:14.76W PF:1.000 Freq:0Hz Lamp Flux:729.441x1 lm		
NAME: HCP-36618183	TYPE:	WEIGHT:
SPEC.:HCP-36618183	DIM.: 1000*18mm	SERIAL No.:
MFR.: HCP-36618183	SUR.:1000*18mm	Shielding Angle:

LUMINANCE LIMITATION CURVES

GLARE	CLASS	ILLUMINANCE (lx)							
1.15	A	2000	1000	500	<=300				
1.50	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.20	D				2000	1000	500	<=300	
2.55	E					2000	1000	500	<=300
		a	b	c	d	e	f	g	h



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	65649	6211
80	33010	5645
75	22215	5454
70	16801	5388
65	13483	5381
60	11405	5392
55	10096	5426
50	9169	5469
45	8448	5523

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-09-02

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:

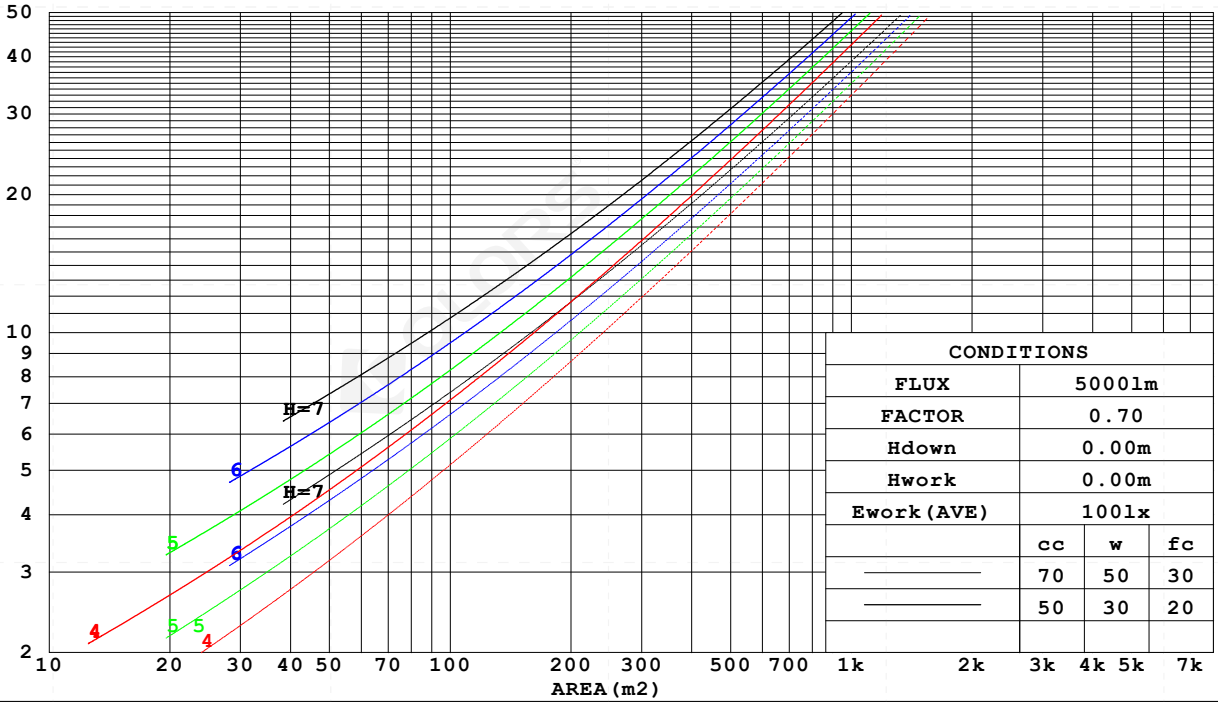
CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:24.00V I:0.6152A P:14.76W PF:1.000 Freq:0Hz Lamp Flux:729.441x1 lm		
NAME: HCP-36618183	TYPE:	WEIGHT:
SPEC.:HCP-36618183	DIM.: 1000*18mm	SERIAL No.:
MFR.: HCP-36618183	SUR.:1000*18mm	Shielding Angle:

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Coefficients of Utilization(CU)												
0.0	1.12	1.12	1.12	1.06	1.06	1.06	.95	.95	.95	.85	.85	.85	.75	.75	.75	.71
1.0	.92	.86	.81	.86	.81	.77	.77	.73	.69	.68	.64	.61	.59	.57	.55	.50
2.0	.78	.69	.62	.73	.66	.59	.65	.59	.54	.57	.52	.48	.50	.46	.43	.39
3.0	.67	.58	.50	.63	.55	.48	.56	.49	.43	.49	.44	.39	.43	.38	.35	.31
4.0	.58	.49	.41	.55	.46	.40	.49	.42	.36	.43	.37	.32	.38	.33	.29	.26
5.0	.52	.42	.35	.49	.40	.33	.43	.36	.30	.38	.32	.27	.34	.29	.24	.21
6.0	.46	.37	.30	.44	.35	.29	.39	.32	.26	.34	.28	.24	.30	.25	.21	.18
7.0	.41	.32	.26	.39	.31	.25	.35	.28	.23	.31	.25	.21	.27	.22	.18	.16
8.0	.38	.29	.23	.36	.27	.22	.32	.25	.20	.28	.22	.18	.25	.20	.16	.14
9.0	.34	.26	.20	.32	.25	.19	.29	.22	.18	.26	.20	.16	.23	.18	.15	.12
10.0	.31	.23	.18	.30	.22	.17	.27	.20	.16	.24	.18	.15	.21	.17	.13	.11

LAMPS

LUMINAIRE BUDGETARY DIAGRAM



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-09-02

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:24.00V I:0.6152A P:14.76W PF:1.000 Freq:0Hz Lamp Flux:729.441x1 lm		
NAME: HCP-36618183	TYPE:	WEIGHT:
SPEC.:HCP-36618183	DIM.: 1000*18mm	SERIAL No.:
MFR.: HCP-36618183	SUR.:1000*18mm	Shielding Angle:

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Wall Exitance Coeffcients(WEC)												
0.0																
1.0	.413	.235	.074	.397	.226	.072	.367	.210	.067	.339	.195	.063	.313	.182	.059	
2.0	.348	.191	.058	.333	.184	.057	.306	.170	.053	.280	.157	.049	.257	.145	.046	
3.0	.305	.162	.049	.291	.156	.047	.266	.144	.044	.243	.133	.041	.222	.123	.038	
4.0	.272	.141	.042	.260	.136	.040	.237	.126	.038	.216	.116	.035	.196	.107	.032	
5.0	.246	.125	.036	.235	.120	.035	.214	.111	.033	.194	.103	.031	.176	.094	.028	
6.0	.224	.112	.032	.214	.108	.031	.195	.100	.029	.177	.092	.027	.160	.084	.025	
7.0	.206	.102	.029	.197	.098	.028	.179	.091	.026	.163	.083	.024	.147	.076	.022	
8.0	.190	.093	.026	.182	.090	.025	.166	.083	.024	.151	.076	.022	.136	.070	.020	
9.0	.177	.086	.024	.169	.082	.023	.154	.076	.022	.140	.070	.020	.127	.064	.019	
10.0	.165	.079	.022	.158	.076	.021	.144	.071	.020	.131	.065	.019	.119	.060	.017	

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.412	.412	.412	.352	.352	.352	.240	.240	.240	.138	.138	.138	.044	.044	.044	
1.0	.411	.378	.349	.351	.325	.301	.240	.223	.208	.138	.129	.121	.044	.042	.039	
2.0	.404	.356	.316	.346	.307	.273	.237	.212	.191	.137	.123	.112	.044	.040	.036	
3.0	.397	.340	.295	.340	.294	.256	.234	.204	.180	.135	.119	.106	.043	.039	.035	
4.0	.389	.328	.282	.334	.284	.245	.230	.198	.172	.133	.116	.102	.043	.038	.034	
5.0	.382	.319	.273	.328	.276	.237	.226	.193	.167	.131	.113	.099	.042	.037	.033	
6.0	.374	.311	.266	.322	.270	.232	.222	.189	.164	.129	.111	.097	.042	.036	.032	
7.0	.367	.305	.261	.316	.264	.228	.218	.185	.161	.127	.109	.096	.041	.036	.032	
8.0	.360	.299	.258	.310	.260	.225	.215	.182	.159	.125	.108	.095	.040	.035	.031	
9.0	.354	.295	.255	.305	.256	.222	.211	.180	.158	.123	.106	.094	.040	.035	.031	
10.0	.348	.291	.252	.300	.252	.220	.208	.178	.156	.121	.105	.093	.039	.034	.031	

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-09-02

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:

UGR(Unified Glare Rating) Table

Test:U:24.00V I:0.6152A P:14.76W PF:1.000 Freq:0Hz Lamp Flux:729.441x1 lm		
NAME: HCP-36618183	TYPE:	WEIGHT:
SPEC.:HCP-36618183	DIM.: 1000*18mm	SERIAL No.:
MFR.: HCP-36618183	SUR.:1000*18mm	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	20.4	21.7	21.1	22.4	23.1	17.8	19.0	18.4	19.7	20.5
	3H	23.7	24.8	24.3	25.5	26.3	19.6	20.7	20.2	21.4	22.3
	4H	25.5	26.7	26.2	27.4	28.2	20.4	21.5	21.1	22.2	23.1
	6H	27.7	28.7	28.4	29.4	30.3	21.1	22.2	21.8	22.9	23.8
	8H	28.9	29.9	29.6	30.6	31.5	21.4	22.4	22.1	23.2	24.1
	12H	30.2	31.2	30.9	31.9	32.8	21.7	22.6	22.4	23.4	24.3
4H	2H	21.0	22.1	21.7	22.8	23.7	19.2	20.3	19.9	21.0	21.8
	3H	24.4	25.4	25.2	26.2	27.0	21.3	22.3	22.0	23.0	23.9
	4H	26.5	27.4	27.2	28.1	29.1	22.3	23.3	23.1	24.0	24.9
	6H	28.8	29.6	29.6	30.4	31.4	23.3	24.1	24.1	24.9	25.9
	8H	30.1	30.9	30.9	31.7	32.6	23.7	24.5	24.5	25.3	26.3
	12H	31.6	32.3	32.4	33.2	34.1	24.1	24.8	24.9	25.6	26.6
8H	4H	26.8	27.6	27.6	28.4	29.4	23.7	24.5	24.5	25.3	26.3
	6H	29.5	30.1	30.3	30.9	31.9	25.2	25.8	26.0	26.6	27.6
	8H	31.0	31.6	31.8	32.4	33.4	25.9	26.4	26.7	27.3	28.3
	12H	32.8	33.3	33.6	34.1	35.2	26.5	27.0	27.3	27.8	28.9
12H	4H	26.9	27.6	27.7	28.4	29.4	24.2	24.9	25.0	25.7	26.7
	6H	29.6	30.2	30.4	31.0	32.0	25.9	26.5	26.8	27.3	28.4
	8H	31.2	31.7	32.1	32.6	33.6	26.8	27.3	27.7	28.2	29.2
Variations with the observer position at spacings:											
S = 1.0H		+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H		+ 0.2 / - 0.2					+ 0.2 / - 0.3				
2.0H		+ 0.3 / - 0.3					+ 0.3 / - 0.4				

CIE Pub.117, 729.4 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.1)

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-09-02

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:

UTILIZATION FACTORS TABLE

Test:U:24.00V I:0.6152A P:14.76W PF:1.000 Freq:0Hz Lamp Flux:729.441x1 lm		
NAME: HCP-36618183	TYPE:	WEIGHT:
SPEC.:HCP-36618183	DIM.: 1000*18mm	SERIAL No.:
MFR.: HCP-36618183	SUR.:1000*18mm	Shielding Angle:

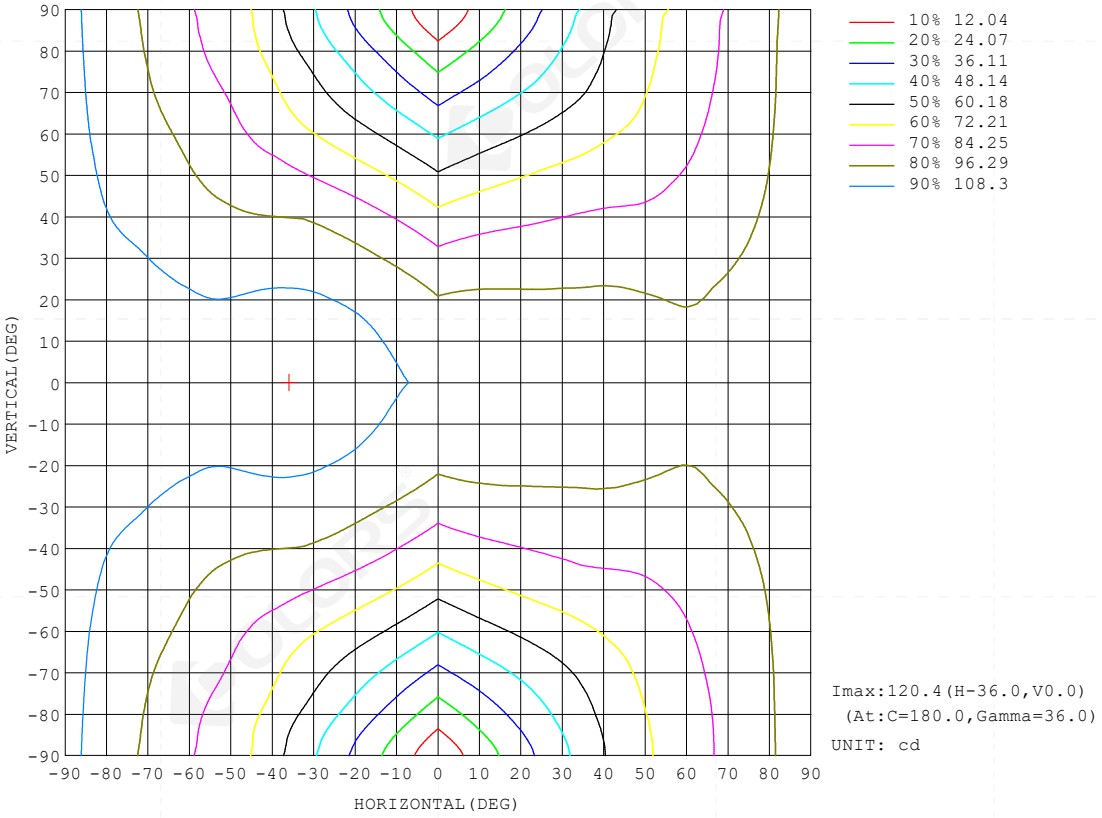
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	42	30	22	41	29	22	39	28	21	15
0.80	51	38	29	49	37	29	46	35	28	19
1.00	59	45	36	56	43	35	52	43	34	24
1.25	65	52	43	63	50	41	57	47	39	29
1.50	71	57	48	67	55	47	62	51	44	32
2.00	78	66	57	74	63	55	67	58	51	38
2.50	83	72	63	79	69	60	71	63	56	41
3.00	87	76	68	82	73	65	74	67	60	44
4.00	92	83	75	87	79	72	78	72	66	49
5.00	95	87	80	90	83	77	81	75	70	52
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:2020-09-02

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:

ISOCANDELA DIAGRAM

Test:U:24.00V I:0.6152A P:14.76W PF:1.000 Freq:0Hz Lamp Flux:729.441x1 lm		
NAME: HCP-36618183	TYPE:	WEIGHT:
SPEC.:HCP-36618183	DIM.: 1000*18mm	SERIAL No.:
MFR.: HCP-36618183	SUR.:1000*18mm	Shielding Angle:



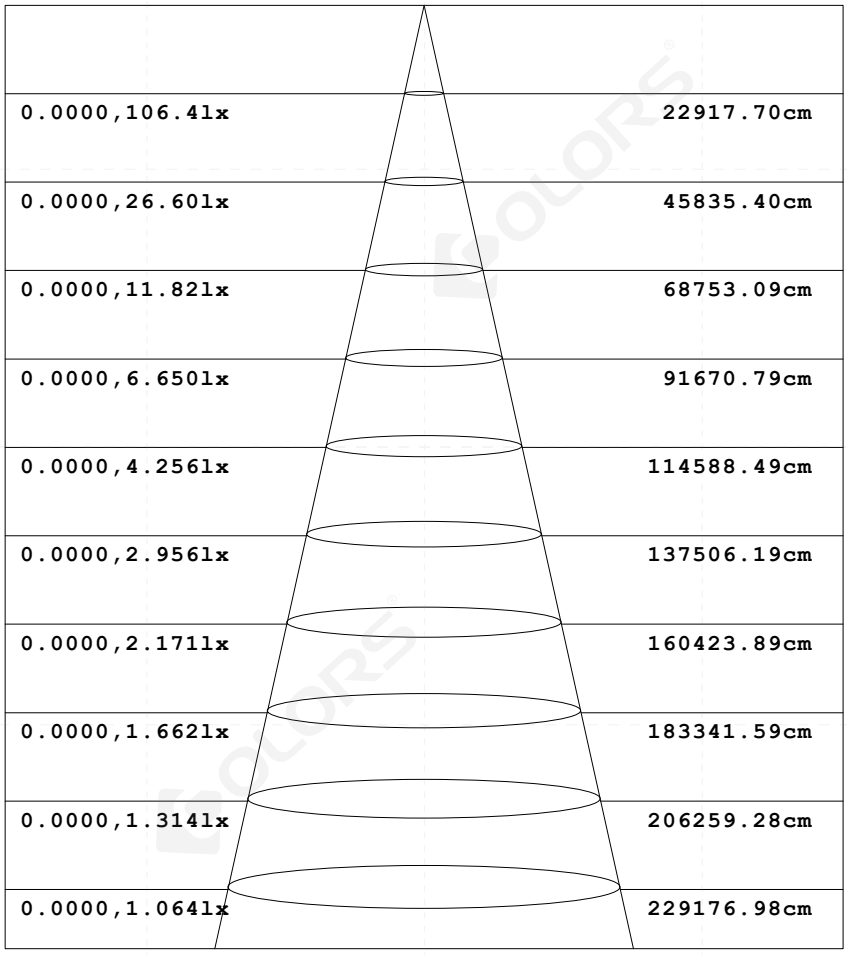
C Range: 0 - 360DEG
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Range: 0 - 180DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:10.950m [K=1.0000]
Remarks:

AAI Figure

Test:U:24.00V I:0.6152A P:14.76W PF:1.000 Freq:0Hz Lamp Flux:729.441x1 lm		
NAME: HCP-36618183	TYPE:	WEIGHT:
SPEC.:HCP-36618183	DIM.: 1000*18mm	SERIAL No.:
MFR.: HCP-36618183	SUR.:1000*18mm	Shielding Angle:

Flux out:517.5 lm



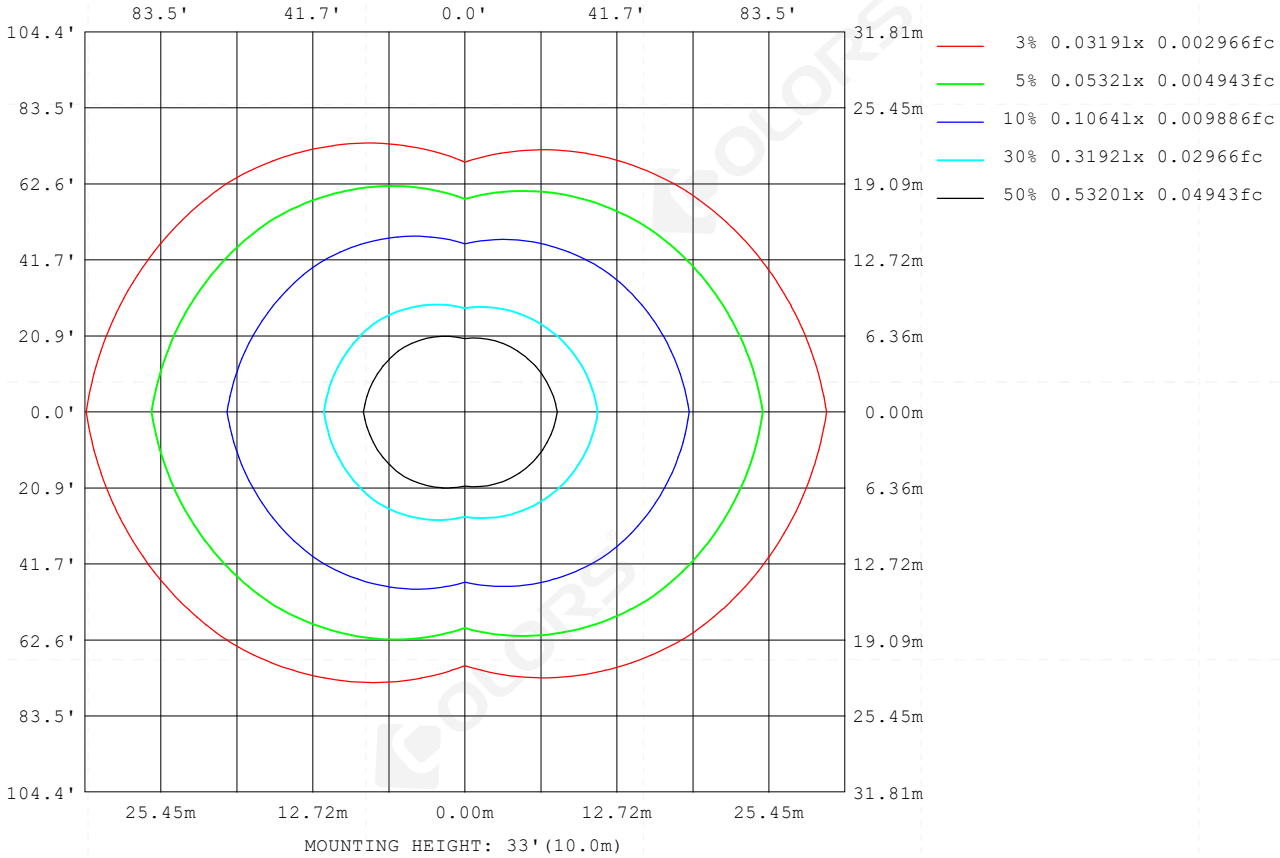
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-09-02

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:

ISOLUX DIAGRAM

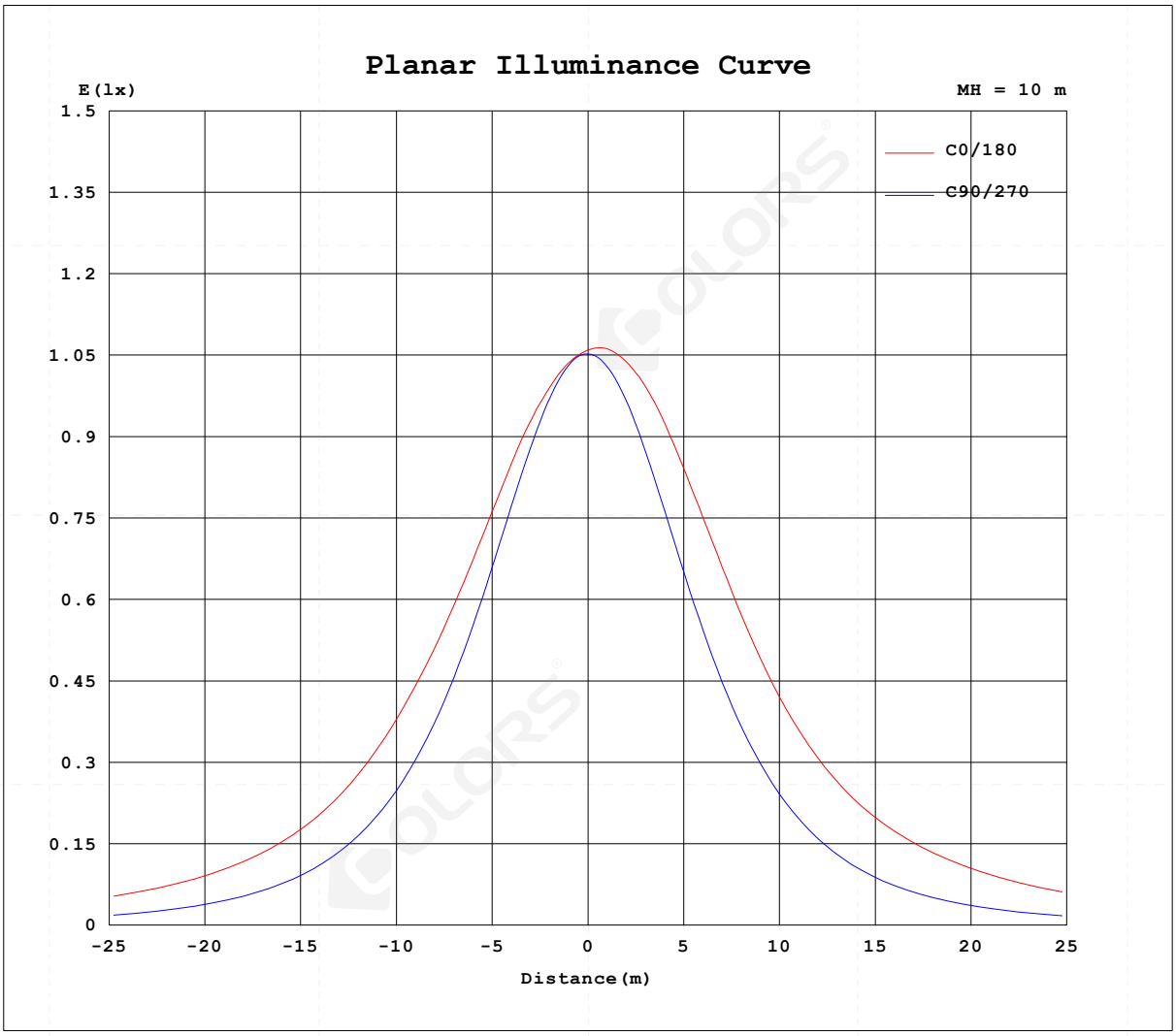
Test:U:24.00V I:0.6152A P:14.76W PF:1.000 Freq:0Hz Lamp Flux:729.441x1 lm		
NAME: HCP-36618183	TYPE:	WEIGHT:
SPEC.:HCP-36618183	DIM.: 1000*18mm	SERIAL No.:
MFR.: HCP-36618183	SUR.:1000*18mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-09-02

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:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 45.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:JYH
Test Date:2020-09-02

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:24.00V I:0.6152A P:14.76W PF:1.000 Freq:0Hz Lamp Flux:729.441x1 lm		
NAME: HCP-36618183	TYPE:	WEIGHT:
SPEC.:HCP-36618183	DIM.: 1000*18mm	SERIAL No.:
MFR.: HCP-36618183	SUR.:1000*18mm	Shielding Angle:

Table--1 UNIT: cd

C(DEG) / (DEG)	0	45	90	135	180	225	270	315
0	106	106	105	105	106	106	105	105
5	105	105	105	106	108	106	105	104
10	105	104	104	106	110	107	103	103
15	106	103	101	107	112	107	101	102
20	106	102	97.9	107	115	107	97.0	100
25	106	100	93.7	107	117	107	92.6	98.7
30	107	98.1	88.7	106	119	106	87.5	96.5
35	107	95.5	83.0	104	120	104	81.6	93.7
40	107	92.8	76.9	102	120	102	75.3	90.7
45	108	89.9	70.3	99.6	119	99.5	68.5	87.8
50	106	86.9	63.3	95.8	118	95.7	61.3	84.6
55	104	83.5	56.0	91.6	117	91.4	53.9	81.2
60	103	79.5	48.5	87.1	117	87.0	46.4	77.0
65	103	75.6	40.9	82.8	118	82.8	38.8	73.1
70	103	72.1	33.2	79.8	117	79.8	31.3	69.5
75	103	69.7	25.4	78.0	117	78.2	23.8	67.0
80	103	68.4	17.6	76.0	115	76.0	16.1	65.7
85	103	67.3	9.74	73.1	114	73.5	7.79	64.7
90	103	66.6	3.39	72.0	112	72.1	2.14	62.7
95	103	65.6	2.64	70.4	111	70.6	1.59	60.1
100	99.8	63.2	1.23	67.5	108	68.0	0.65	55.4
105	95.9	60.4	0.91	60.1	103	60.6	0.67	55.8
110	91.1	53.9	0.76	51.7	92.9	52.4	0.73	50.1
115	84.1	47.6	0.82	40.6	81.9	42.7	0.80	43.4
120	75.6	38.7	0.88	30.9	70.0	31.6	0.88	35.0
125	66.4	30.3	0.96	22.9	57.5	22.8	0.98	28.5
130	56.6	24.9	1.06	14.8	44.7	14.8	1.06	22.3
135	46.8	19.0	1.18	7.54	32.1	7.39	1.12	16.0
140	37.0	14.0	1.18	3.52	20.3	3.07	1.20	11.4
145	27.7	10.1	1.27	2.58	9.87	2.11	1.23	7.61
150	19.6	6.76	1.28	2.08	3.71	1.84	1.30	4.45
155	12.3	4.03	1.36	1.80	2.37	1.73	1.42	2.54
160	6.18	2.00	1.48	1.78	1.82	1.72	1.55	1.54
165	2.42	1.61	1.62	1.80	1.62	1.72	1.68	1.61
170	1.84	1.70	1.78	1.85	1.49	1.78	1.79	1.68
175	1.64	1.81	1.84	1.91	1.46	1.80	1.90	1.79
180	1.60	1.92	1.91	1.92	1.60	1.93	1.97	1.92

C Range: 0 - 360DEG
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