

## Luminaire Photograph



Light Output Ratio:	77.0%	
Luminaire Power:	21.64 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.85	fine grid method.

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Zoe  
Test Date: 2022-12-26

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.416  
Humidity: 65.0%  
Test Distance: 3.160m [K=1.0000]  
Remarks: LAMP: CMA1306-0000-000F0U0A30G Ra:90  
LENS: PM-1084C 50R  
DRIVER: PUP20A-1WMC 500mA  
30minutes warm-up

## LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

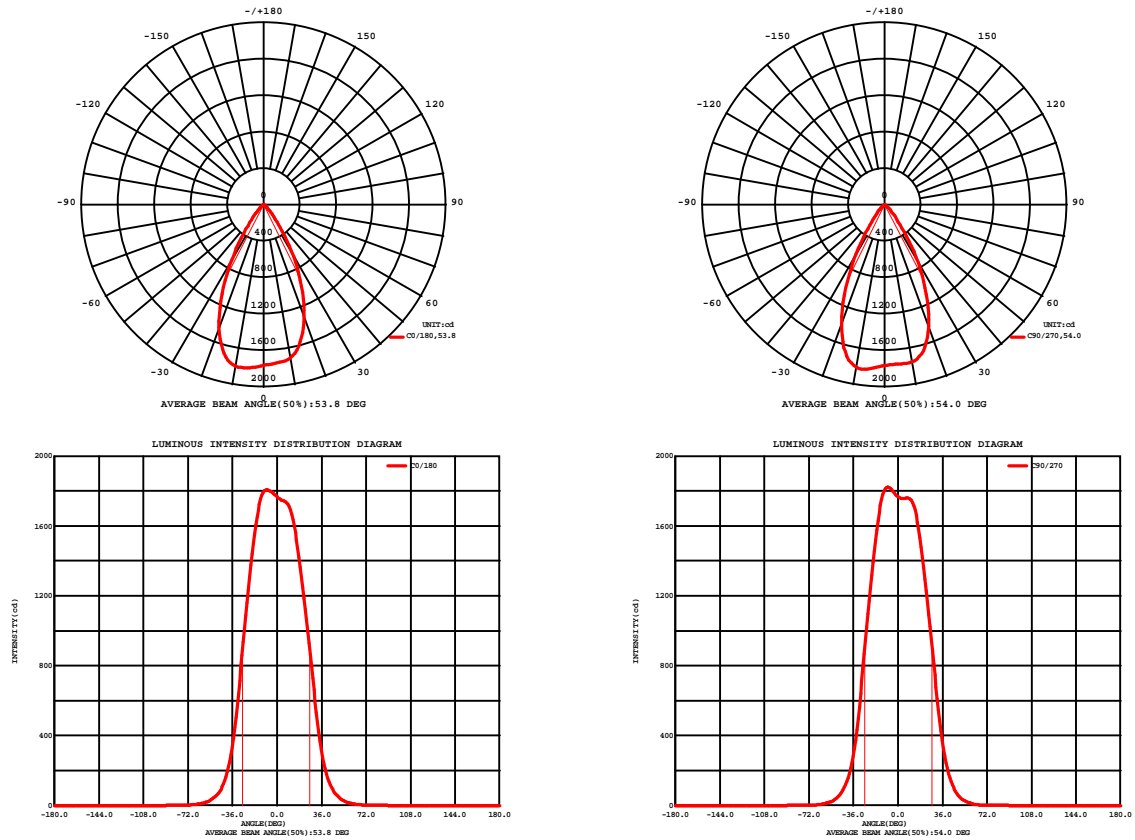


Fig. C0/C180

Fig. C90/C270

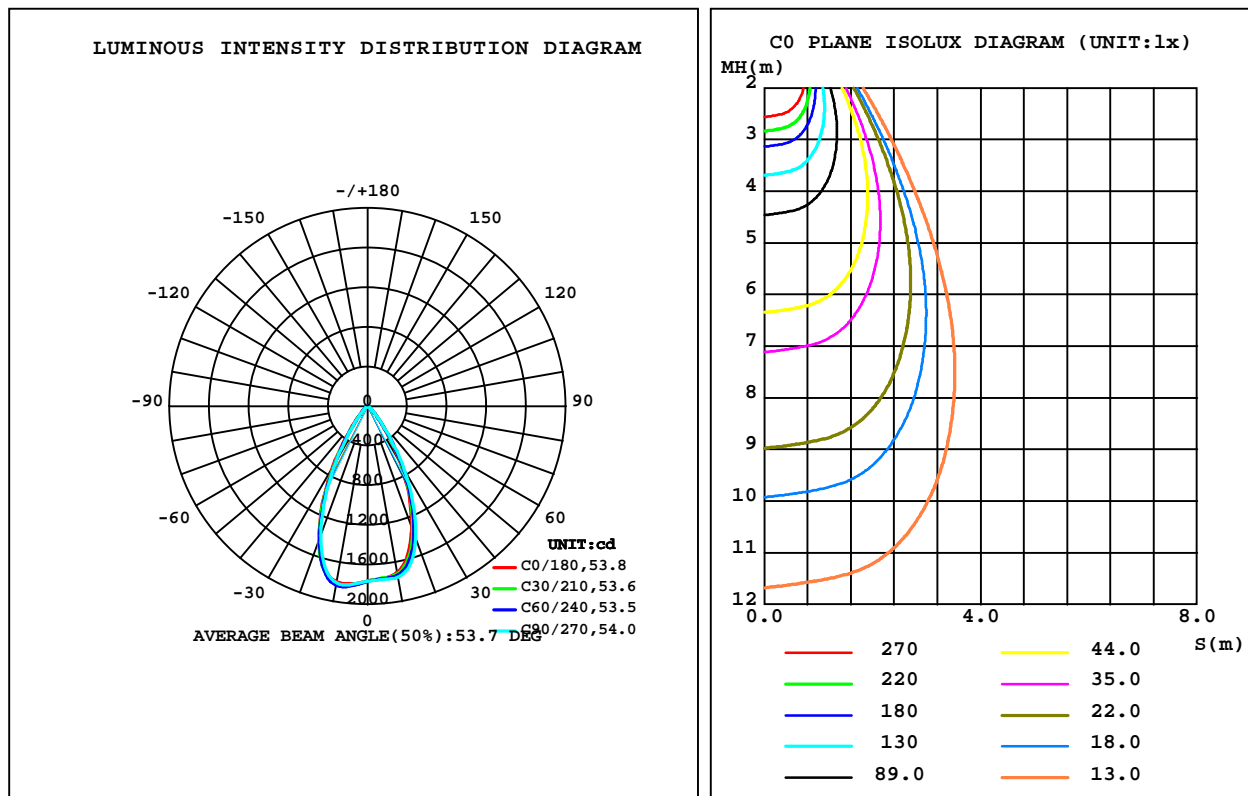
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Zoe  
Test Date: 2022-12-26

Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.416  
Humidity: 65.0%  
Test Distance: 3.160m [K=1.0000]  
Remarks: LAMP: CMA1306-0000-000F0U0A30G Ra: 90  
LENS: PM-1084C 50R  
DRIVER: PUP20A-1WMC 500mA  
30minutes warm-up

## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.92V I:0.1812A P:21.635W PF:0.9947 Freq:59.98Hz Lamp Flux:1884x1 lm		
NAME: 2214.411-2-LEA-09	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2212261390
MFR.: RISE	SUR.:0.005865m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 67.05 lm/W			
MODEL	CREE	I <sub>max</sub> (cd)	1842	S/MH(C0/180)	0.83
NOMINAL POWER(W)	22	LOR(%)	77.0	S/MH(C90/270)	0.80
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1450.7	h UP,DN(C0-180)	0.0,39.0
NOMINAL FLUX(lm)	1884	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,38.0
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	120	h down(%)	77.0	CIBSE SHR MAX	0.85



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Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CMA1306-0000-000F0U0A30G Ra:90  
LENS: PM-1084C 50R  
DRIVER:PUP20A-1WMC 500mA  
30minutes warm-up

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

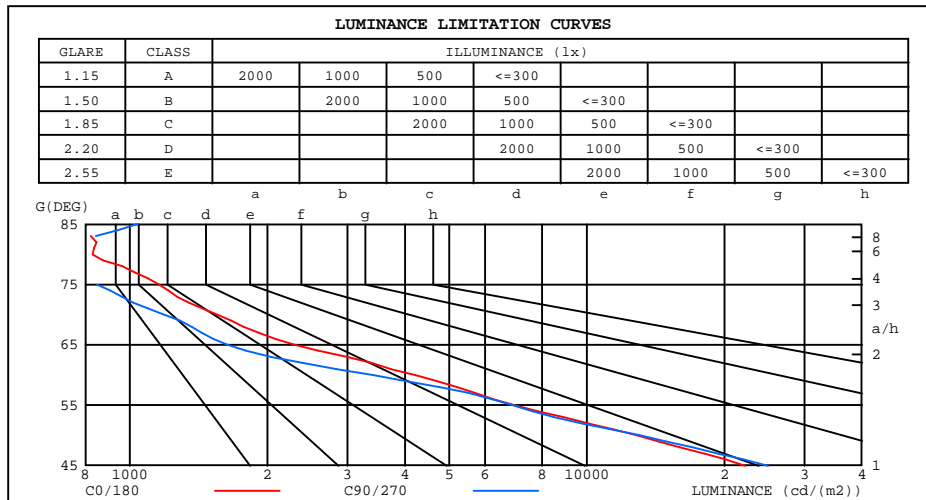
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	1709	1727	1753	1776	1800	1831	1812	1750	0- 10	169.6	169.6	11.7,9
20	1306	1356	1421	1431	1439	1434	1388	1342	10- 20	454.9	624.5	43,33.1
30	661.2	703.5	744.3	730.6	710.9	667.3	637.7	652.3	20- 30	473.7	1098	75.7,58.3
40	181.6	202.3	213.5	202.7	192.0	167.2	157.0	169.4	30- 40	243.4	1342	92.5,71.2
50	48.20	53.13	49.24	53.51	50.51	46.69	39.53	46.87	40- 50	76.72	1418	97.8,75.3
60	12.30	13.88	9.965	13.90	12.91	12.60	9.037	12.79	50- 60	23.55	1442	99.4,76.5
70	3.111	3.101	2.388	3.174	3.418	3.304	2.518	3.163	60- 70	6.498	1448	99.8,76.9
80	0.8424	0.7561	0.6507	0.8349	0.9240	0.9905	0.8589	0.8883	70- 80	1.875	1450	100,77
90	0	0	0	0	0	0	0	0	80- 90	0.5192	1451	100,77
100	0	0	0	0	0	0	0	0	90-100	0	1451	100,77
110	0	0	0	0	0	0	0	0	100-110	0	1451	100,77
120	0	0	0	0	0	0	0	0	110-120	0	1451	100,77
130	0	0	0	0	0	0	0	0	120-130	0	1451	100,77
140	0	0	0	0	0	0	0	0	130-140	0	1451	100,77
150	0	0	0	0	0	0	0	0	140-150	0	1451	100,77
160	0	0	0	0	0	0	0	0	150-160	0	1451	100,77
170	0	0	0	0	0	0	0	0	160-170	0	1451	100,77
180	0	0	0	0	0	0	0	0	170-180	0	1451	100,77
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CMA1306-0000-000F0U0A30G Ra:90  
LENS: PM-1084C 50R  
DRIVER:PUP20A-1WMC 500mA  
30minutes warm-up

## LUMINANCE LIMITATION CURVES

Test:U:119.92V I:0.1812A P:21.635W PF:0.9947 Freq:59.98Hz Lamp Flux:1884x1 lm		
NAME: 2214.411-2-LEA-09	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2212261390
MFR.: RISE	SUR.:0.005865m2	Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	538	1043
80	830	639
75	1160	849
70	1556	1191
65	2304	1640
60	4210	3398
55	6925	6868
50	12828	13061
45	22206	24903

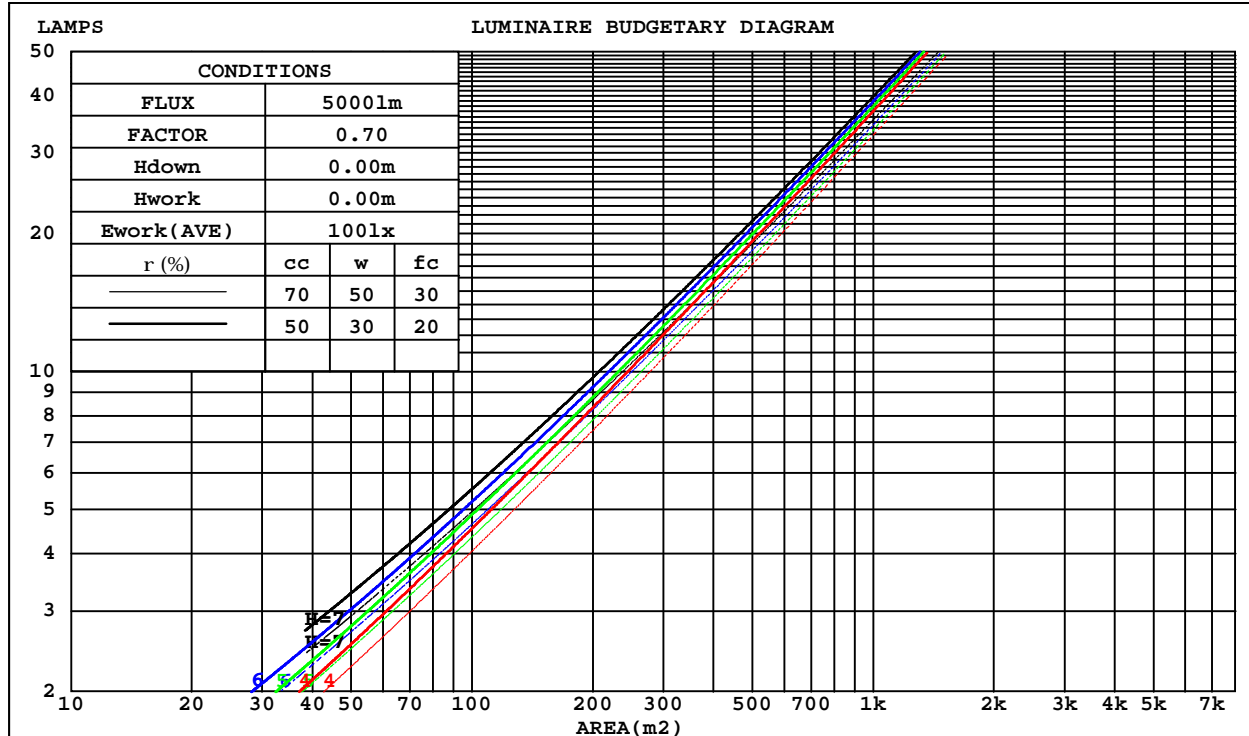
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## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:3000K	DIM.:	SERIAL No.:2212261390
MFR.: RISE	SUR.:0.005865m2	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															



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Interval: 1.0DEG  
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30minutes warm-up

### WEC AND CCEC

Test:U:119.92V I:0.1812A P:21.635W PF:0.9947 Freq:59.98Hz Lamp Flux:1884x1 lm		
NAME: 2214.411-2-LEA-09	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2212261390
MFR.: RISE	SUR.:0.005865m2	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	.134	.076	.024	.129	.074	.023	.120	.069	.022	.111	.064	.020	.102	.059	.019	
2.0	.129	.070	.022	.124	.068	.021	.116	.065	.020	.109	.061	.019	.102	.057	.018	
3.0	.122	.065	.020	.119	.064	.019	.112	.061	.018	.105	.058	.018	.099	.055	.017	
4.0	.116	.061	.018	.113	.059	.018	.107	.057	.017	.102	.055	.016	.097	.052	.016	
5.0	.111	.057	.016	.108	.056	.016	.103	.054	.016	.098	.052	.015	.094	.050	.015	
6.0	.106	.053	.015	.103	.052	.015	.099	.051	.015	.095	.049	.014	.091	.048	.014	
7.0	.101	.050	.014	.099	.049	.014	.095	.048	.014	.091	.047	.014	.088	.046	.013	
8.0	.097	.047	.013	.095	.047	.013	.091	.046	.013	.088	.045	.013	.085	.044	.013	
9.0	.093	.045	.013	.091	.044	.012	.088	.043	.012	.085	.043	.012	.082	.042	.012	
10.0	.089	.043	.012	.088	.042	.012	.085	.041	.012	.082	.041	.012	.079	.040	.011	

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	.147	.147	.147	.125	.125	.125	.086	.086	.086	.049	.049	.049	.016	.016	.016	
1.0	.132	.121	.112	.113	.104	.096	.077	.072	.066	.044	.041	.039	.014	.013	.013	
2.0	.120	.102	.087	.103	.088	.075	.070	.061	.053	.041	.035	.031	.013	.011	.010	
3.0	.110	.087	.069	.094	.075	.060	.065	.052	.042	.037	.031	.025	.012	.010	.008	
4.0	.102	.076	.056	.088	.066	.049	.060	.046	.034	.035	.027	.020	.011	.009	.007	
5.0	.095	.067	.046	.082	.058	.040	.056	.041	.028	.033	.024	.017	.011	.008	.006	
6.0	.090	.060	.039	.077	.052	.034	.053	.036	.024	.031	.021	.014	.010	.007	.005	
7.0	.085	.054	.033	.073	.047	.028	.050	.033	.020	.029	.019	.012	.009	.006	.004	
8.0	.080	.049	.028	.069	.043	.024	.048	.030	.017	.028	.018	.010	.009	.006	.003	
9.0	.076	.045	.024	.066	.039	.021	.046	.028	.015	.027	.016	.009	.009	.005	.003	
10.0	.073	.042	.021	.063	.036	.019	.044	.026	.013	.025	.015	.008	.008	.005	.003	

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g Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
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DRIVER:PUP20A-1WMC 500mA  
30minutes warm-up

## UGR(Unified Glare Rating) Table

Test:U:119.92V I:0.1812A P:21.635W PF:0.9947 Freq:59.98Hz Lamp Flux:1884x1 lm										
NAME: 2214.411-2-LEA-09					TYPE:			WEIGHT:		
SPEC.:3000K					DIM.:			SERIAL No.:2212261390		
MFR.: RISE					SUR.:0.005865m2			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	18.7	19.6	18.9	19.8	20.0	19.1	20.0	19.3	20.2	20.4
3H	18.6	19.4	18.8	19.6	19.8	18.9	19.8	19.2	20.0	20.2
4H	18.5	19.3	18.8	19.5	19.7	18.9	19.7	19.1	19.9	20.1
6H	18.4	19.1	18.7	19.4	19.6	18.8	19.5	19.1	19.8	20.0
8H	18.3	19.1	18.7	19.3	19.6	18.7	19.5	19.0	19.7	20.0
12H	18.3	19.0	18.6	19.3	19.5	18.7	19.4	19.0	19.7	19.9
4H 2H	18.5	19.3	18.8	19.5	19.7	18.9	19.7	19.2	19.9	20.1
3H	18.3	19.0	18.7	19.3	19.6	18.7	19.4	19.0	19.7	20.0
4H	18.3	18.9	18.6	19.2	19.5	18.6	19.3	19.0	19.6	19.9
6H	18.2	18.7	18.5	19.1	19.4	18.5	19.1	18.9	19.4	19.8
8H	18.1	18.6	18.5	19.0	19.4	18.5	19.0	18.9	19.4	19.7
12H	18.1	18.5	18.5	18.9	19.3	18.4	18.9	18.9	19.3	19.7
8H 4H	18.1	18.6	18.5	19.0	19.4	18.5	19.0	18.9	19.4	19.7
6H	18.0	18.4	18.5	18.8	19.3	18.4	18.8	18.8	19.2	19.6
8H	18.0	18.3	18.4	18.8	19.2	18.3	18.7	18.8	19.1	19.6
12H	17.9	18.2	18.4	18.7	19.2	18.3	18.6	18.8	19.1	19.5
12H 4H	18.1	18.5	18.5	18.9	19.3	18.4	18.9	18.9	19.3	19.7
6H	18.0	18.3	18.4	18.8	19.2	18.3	18.7	18.8	19.1	19.6
8H	17.9	18.2	18.4	18.7	19.2	18.3	18.6	18.8	19.1	19.5
Variations with the observer position at spacings:										
S = 1.0H	+ 2.7 / - 7.7					+ 3.3 / - 8.6				
1.5H	+ 4.4 / - 5.4					+ 5.0 / - 6.3				
2.0H	+ 4.7 / - 5.2					+ 5.4 / - 7.0				

CIE Pub.117, 1884 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 2.2$ )  
Area: 0.005865 m2

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Humidity:65.0%  
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30minutes warm-up



## UTILIZATION FACTORS TABLE

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SPEC.:3000K	DIM.:	SERIAL No.:2212261390
MFR.: RISE	SUR.:0.005865m2	Shielding Angle:

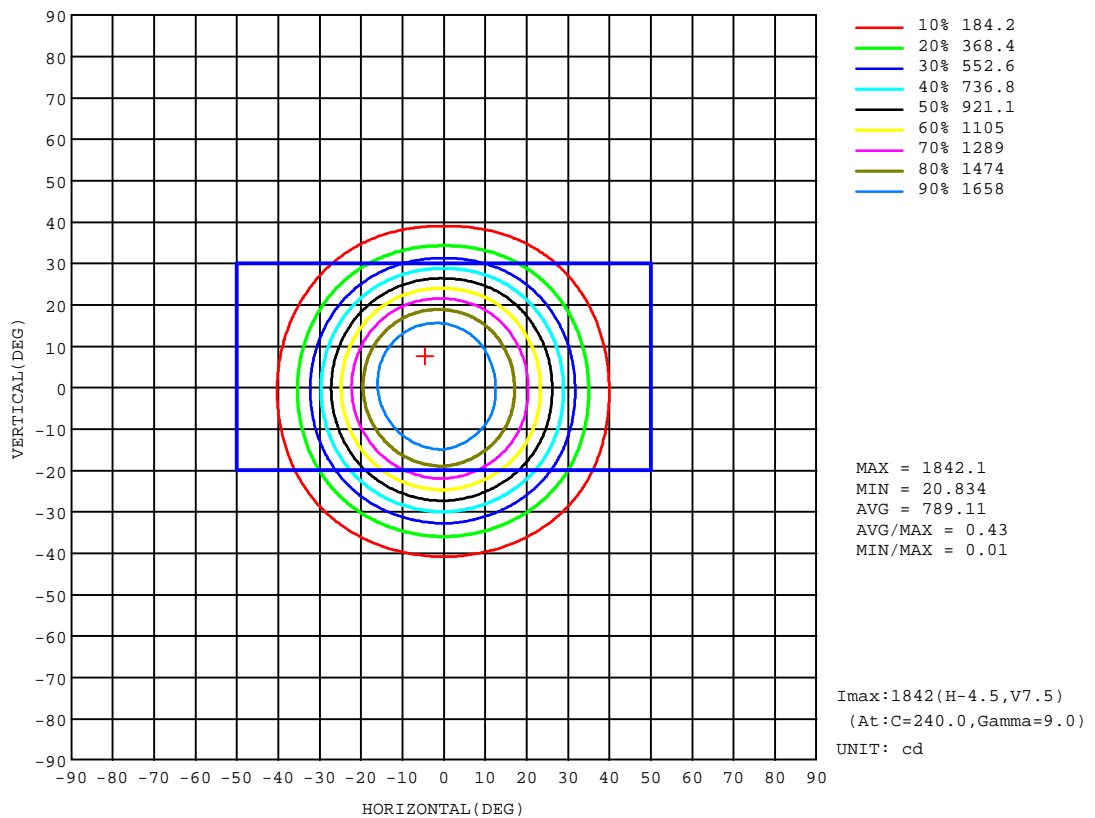
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	67	62	59	66	62	59	66	61	59	56
0.80	73	68	65	72	68	65	71	67	65	62
1.00	76	72	69	76	72	69	74	71	68	65
1.25	79	75	73	79	75	72	77	74	72	69
1.50	81	78	75	81	77	75	79	76	74	71
2.00	84	80	78	82	80	77	80	78	76	72
2.50	85	82	80	84	81	79	81	79	77	73
3.00	86	83	81	85	82	80	82	80	79	74
4.00	88	85	84	86	84	83	83	82	81	75
5.00	89	87	85	87	85	84	84	83	82	76
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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## ISOCANDELA DIAGRAM

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SPEC.:3000K	DIM.:	SERIAL No.:2212261390
MFR.: RISE	SUR.:0.005865m2	Shielding Angle:

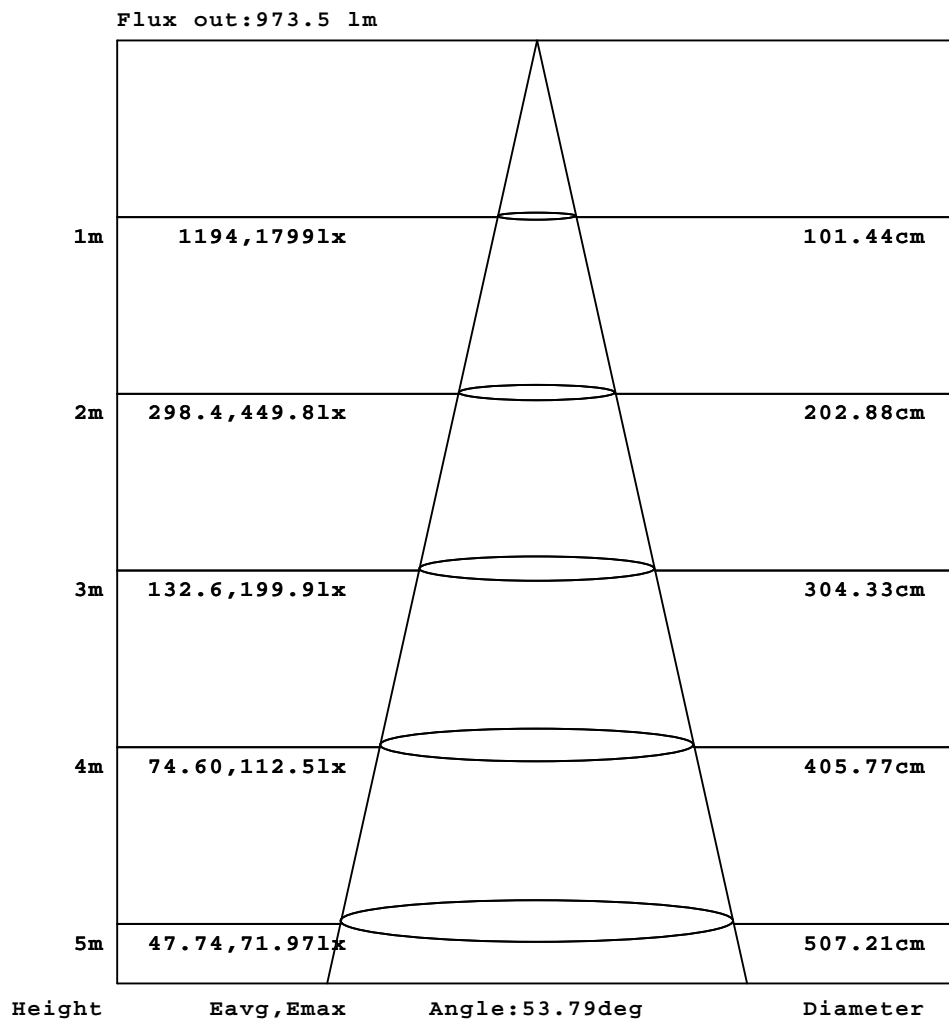


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## AAI Figure

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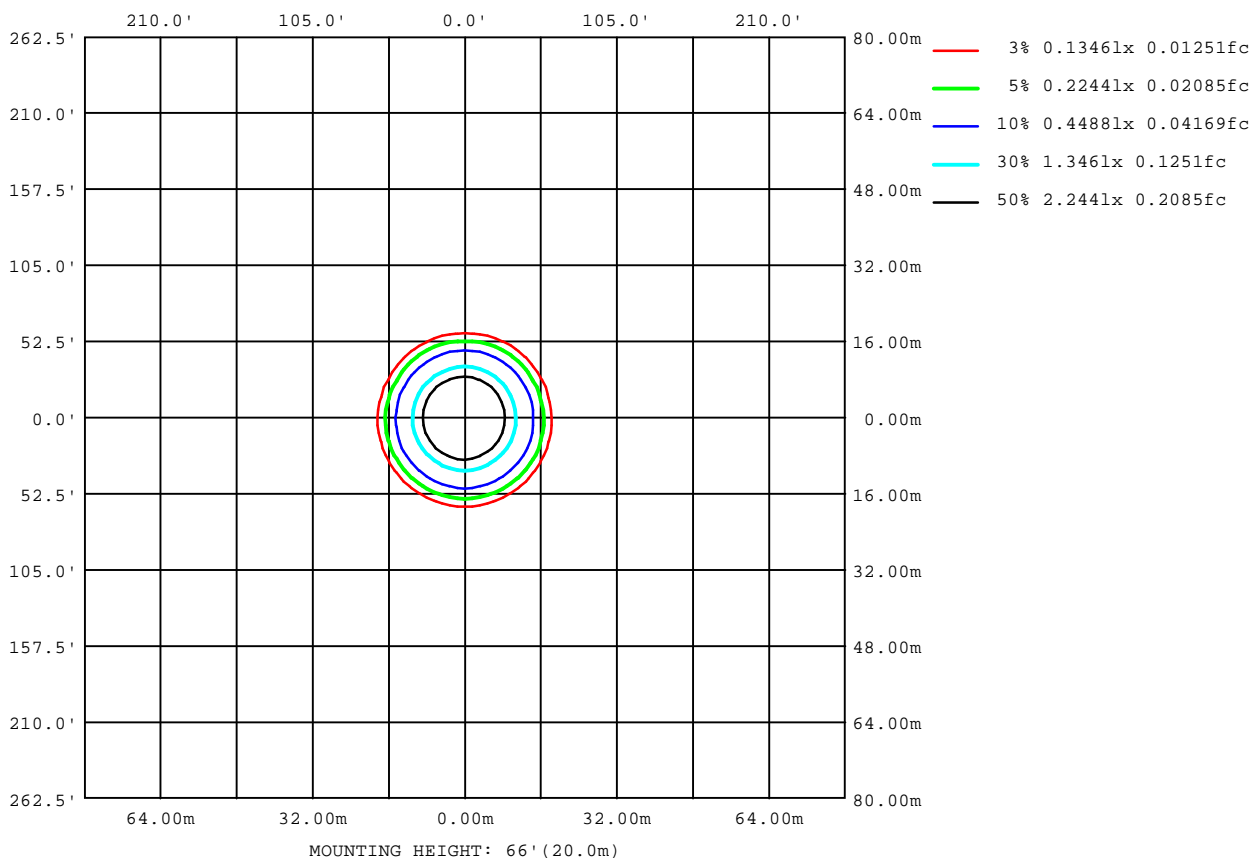
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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30minutes warm-up

## ISOLUX DIAGRAM

Test:U:119.92V I:0.1812A P:21.635W PF:0.9947 Freq:59.98Hz Lamp Flux:1884x1 lm		
NAME: 2214.411-2-LEA-09	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2212261390
MFR.: RISE	SUR.:0.005865m2	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Zoe  
Test Date:2022-12-26

g Range: 0 - 180DEG  
g Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CMA1306-0000-000F0U0A30G Ra:90  
LENS: PM-1084C 50R  
DRIVER:PUP20A-1WMC 500mA  
30minutes warm-up

## LED Avg.L Report

Test:U:119.92V I:0.1812A P:21.635W PF:0.9947 Freq:59.98Hz Lamp Flux:1884x1 lm		
NAME: 2214.411-2-LEA-09	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2212261390
MFR.: RISE	SUR.:0.005865m2	Shielding Angle:

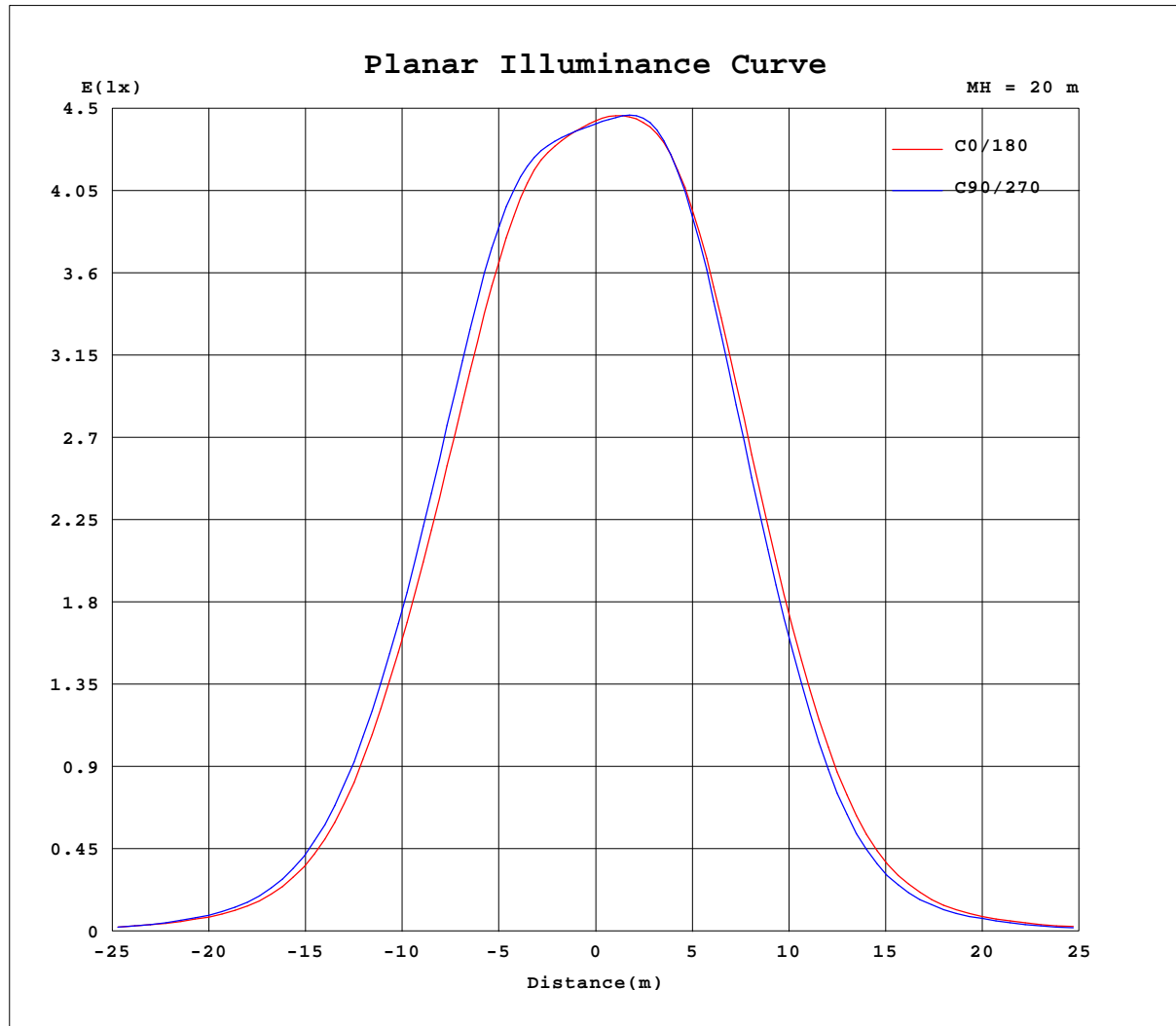
AvgL	cd/m2
L_0~180(65)av	2430
L_0~180(75)av	1178
L_0~180(85)av	772
L_90~270(65)av	1624
L_90~270(75)av	903
L_90~270(85)av	1213
L_45(65)av	2638
L_45(75)av	1163
L_45(85)av	988

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Zoe  
Test Date:2022-12-26

g Range: 0 - 180DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.416  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:CMA1306-0000-000F0U0A30G Ra:90  
LENS: PM-1084C 50R  
DRIVER:PUP20A-1WMC 500mA  
30minutes warm-up

## Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Zoe  
 Test Date: 2022-12-26

deg Range: 0 - 180DEG  
 Interval: 1.0DEG  
 Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.416  
 Humidity: 65.0%  
 Test Distance: 3.160m [K=1.0000]  
 Remarks: LAMP: CMA1306-0000-000F0U0A30G Ra:90  
 LENS: PM-1084C 50R  
 DRIVER: PUP20A-1WMC 500mA  
 30minutes warm-up



## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.92V I:0.1812A P:21.635W PF:0.9947 Freq:59.98Hz Lamp Flux:1884x1 lm		
NAME: 2214.411-2-LEA-09	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2212261390
MFR.: RISE	SUR.:0.005865m2	Shielding Angle:

Table--1

UNIT: cd

C(°) g (°)	0	30	60	90	120	150	180	210	240	270	300	330						
0	1767	1767	1767	1767	1767	1767	1767	1767	1767	1767	1767	1767						
5	1744	1742	1750	1757	1767	1781	1796	1812	1818	1806	1782	1758						
10	1709	1720	1734	1753	1768	1784	1800	1826	1837	1812	1769	1731						
15	1561	1591	1620	1659	1668	1680	1691	1716	1714	1676	1627	1586						
20	1306	1339	1373	1421	1428	1433	1439	1440	1428	1388	1362	1323						
25	994	1024	1048	1091	1093	1089	1086	1065	1046	1019	1020	1000						
30	661	695	712	744	736	725	711	679	655	638	652	652						
35	367	396	407	426	415	403	387	357	341	327	343	353						
40	182	202	203	213	204	201	192	171	164	157	166	173						
45	91.8	98.9	102	103	102	98.7	94.1	88.2	84.2	81.4	84.9	89.6						
50	48.2	52.9	53.4	49.2	53.9	53.1	50.5	47.3	46.1	39.5	46.1	47.7						
55	23.2	27.4	25.8	23.1	25.7	27.8	24.5	24.7	23.0	19.1	22.7	24.9						
60	12.3	14.5	13.3	9.97	13.4	14.4	12.9	13.1	12.1	9.04	12.0	13.6						
65	5.69	7.27	5.40	4.06	5.53	7.57	6.36	7.28	5.67	3.99	5.16	7.08						
70	3.11	3.44	2.76	2.39	2.86	3.49	3.42	3.65	2.95	2.52	2.88	3.45						
75	1.75	1.87	1.45	1.29	1.53	1.88	1.82	2.01	1.70	1.45	1.61	1.91						
80	0.84	0.84	0.68	0.65	0.75	0.92	0.92	1.05	0.93	0.86	0.85	0.92						
85	0.27	0.37	0.48	0.53	0.38	0.45	0.52	0.55	0.70	0.71	0.65	0.47						
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Zoe  
Test Date:2022-12-26

g Range: 0 - 180DEG  
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