

Luminaire Photograph



Light Output Ratio:	65.3%	
Luminaire Power:	11.86 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.60	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Zoe
Test Date: 2022-9-24

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: CMA1306-0000-000N0U0A30G Ra: 90
LENS: PM-1084B 36R
DRIVER: KEDH010S0250NR12A1 250mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

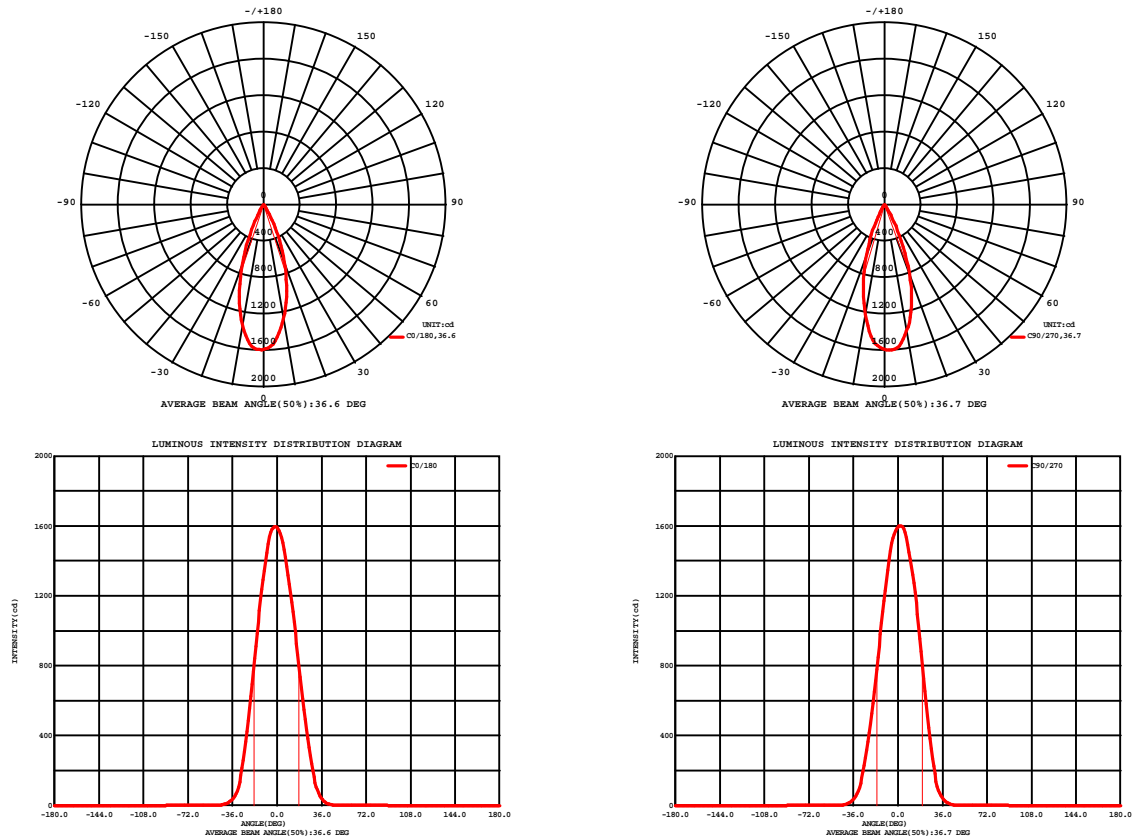


Fig. C0/C180

Fig. C90/C270

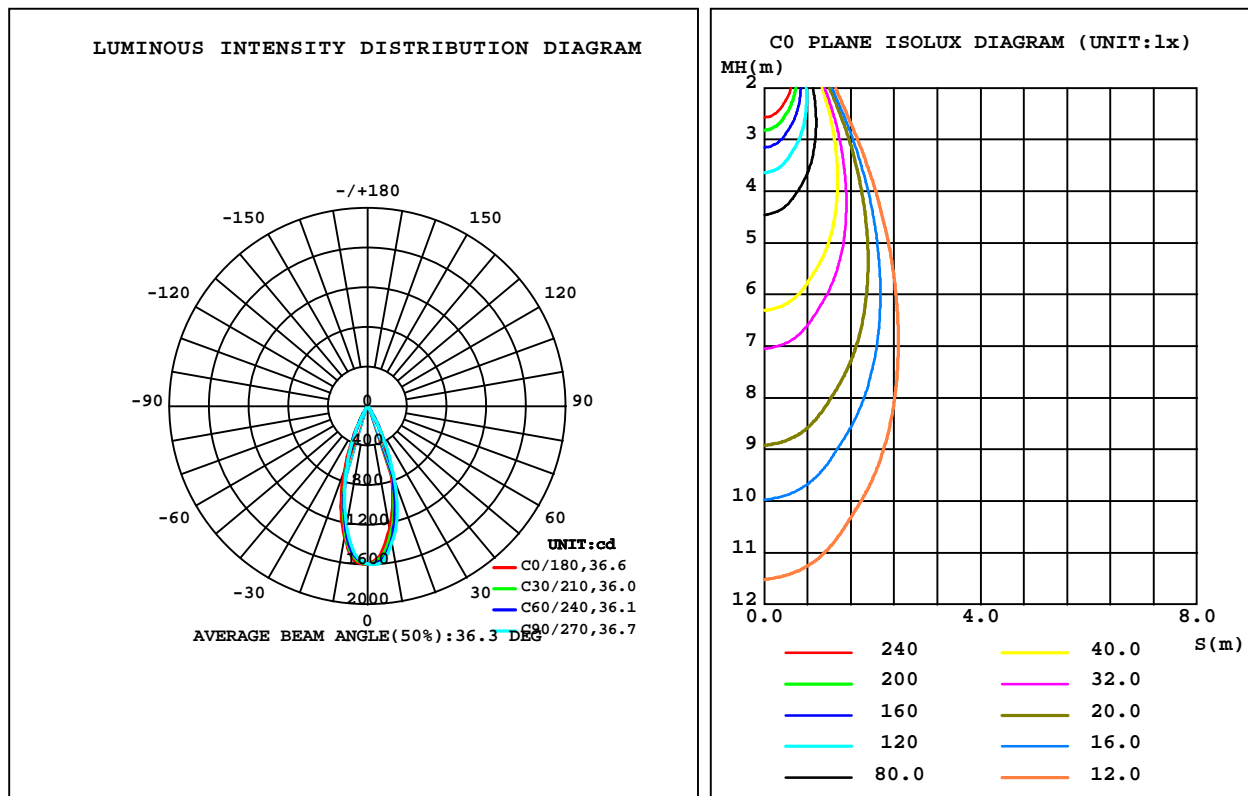
C Range: 0 - 360DEG
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Test Speed: HIGH
Temperature: 25.3DEG
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Test Date: 2022-9-24

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]
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.22V I:0.0580A P:11.863W PF:0.9245 Freq:49.99Hz Lamp Flux:967.126x1 lm		
NAME: 2218.118-ACOT-97	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209240947
MFR.: RISE	SUR.:0.0016m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 53.27 lm/W			
MODEL	CREE	I _{max} (cd)	1602	S/MH(C0/180)	0.59
NOMINAL POWER(W)	12	LOR(%)	65.3	S/MH(C90/270)	0.55
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	631.90	h UP,DN(C0-180)	0.0,34.7
NOMINAL FLUX(lm)	967.126	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,30.6
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	h down(%)	65.3	CIBSE SHR MAX	0.60



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ZONAL FLUX DIAGRAM

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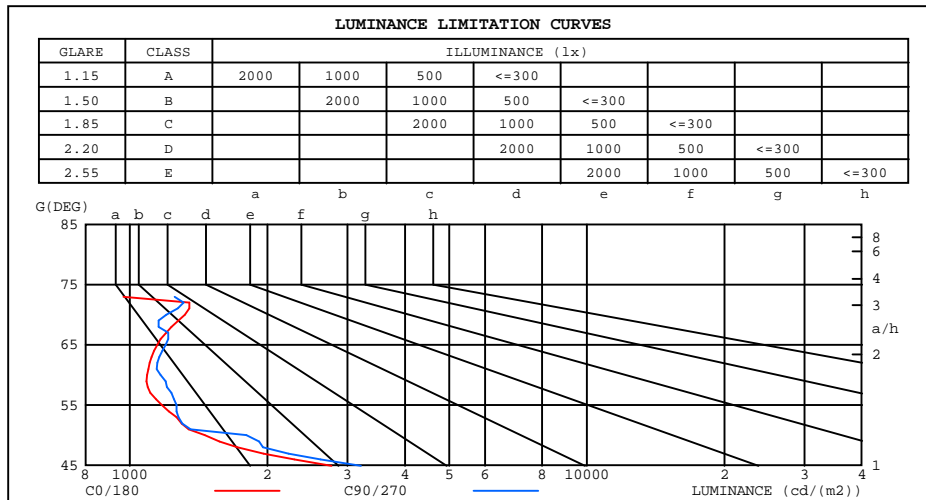
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	1266	1351	1407	1401	1344	1290	1230	1254	0- 10	139.9	139.9	22.1,14.5
20	671.7	732.2	804.9	730.7	693.8	606.1	586.0	612.7	10- 20	275.5	415.4	65.7,43
30	162.1	192.8	180.8	164.0	132.8	134.7	124.9	157.0	20- 30	173.6	589.0	93.2,60.9
40	14.18	16.49	16.34	14.02	12.60	12.61	11.66	13.97	30- 40	36.96	625.9	99.1,64.7
50	1.500	1.616	1.850	1.613	1.599	1.577	1.223	1.388	40- 50	3.877	629.8	99.7,65.1
60	0.8739	0.7940	0.9349	0.7915	0.7923	0.7735	0.8179	0.7777	50- 60	0.9482	630.8	99.8,65.2
70	0.7230	0.5895	0.6589	0.5669	0.6045	0.7446	1.003	0.7614	60- 70	0.7393	631.5	99.9,65.3
80	0.0540	0.0841	0.1191	0.0922	0.0598	0.0501	0.0464	0.0442	70- 80	0.3511	631.9	100,65.3
90	0	0	0	0	0	0	0	0	80- 90	0.0432	631.9	100,65.3
100	0	0	0	0	0	0	0	0	90-100	0	631.9	100,65.3
110	0	0	0	0	0	0	0	0	100-110	0	631.9	100,65.3
120	0	0	0	0	0	0	0	0	110-120	0	631.9	100,65.3
130	0	0	0	0	0	0	0	0	120-130	0	631.9	100,65.3
140	0	0	0	0	0	0	0	0	130-140	0	631.9	100,65.3
150	0	0	0	0	0	0	0	0	140-150	0	631.9	100,65.3
160	0	0	0	0	0	0	0	0	150-160	0	631.9	100,65.3
170	0	0	0	0	0	0	0	0	160-170	0	631.9	100,65.3
180	0	0	0	0	0	0	0	0	170-180	0	631.9	100,65.3
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:220.22V I:0.0580A P:11.863W PF:0.9245 Freq:49.99Hz Lamp Flux:967.126x1 lm		
NAME: 2218.118-ACOT-97	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209240947
MFR.: RISE	SUR.:0.0016m2	Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	199	615
80	194	428
75	234	448
70	1321	1203
65	1151	1199
60	1092	1168
55	1178	1266
50	1458	1798
45	2766	3206

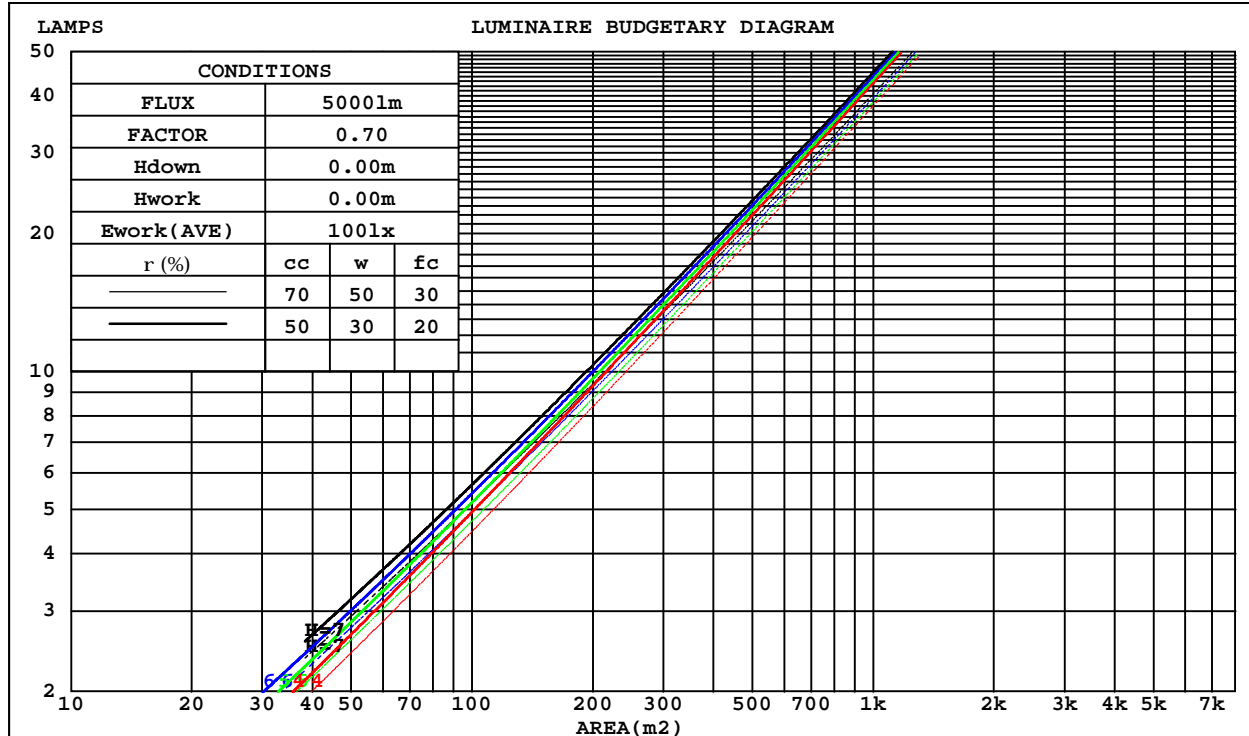
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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rcc	80%			70%			50%			30%			10%			0
r _w	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	.78	.78	.78	.76	.76	.76	.73	.73	.73	.70	.70	.70	.67	.67	.67	.65
1.0	.73	.72	.71	.72	.71	.70	.69	.68	.68	.67	.66	.66	.65	.64	.64	.63
2.0	.69	.67	.65	.68	.66	.65	.66	.65	.63	.64	.63	.62	.63	.62	.61	.60
3.0	.66	.63	.61	.65	.63	.61	.63	.61	.60	.62	.60	.59	.61	.59	.58	.57
4.0	.63	.60	.58	.62	.59	.57	.61	.59	.57	.60	.58	.56	.58	.57	.56	.55
5.0	.60	.57	.55	.59	.57	.55	.58	.56	.54	.57	.55	.54	.56	.55	.53	.52
6.0	.57	.54	.52	.57	.54	.52	.56	.54	.52	.55	.53	.51	.54	.53	.51	.50
7.0	.55	.52	.50	.55	.52	.50	.54	.51	.49	.53	.51	.49	.53	.51	.49	.48
8.0	.53	.50	.48	.53	.50	.48	.52	.49	.47	.51	.49	.47	.51	.49	.47	.46
9.0	.51	.48	.46	.51	.48	.46	.50	.47	.46	.50	.47	.45	.49	.47	.45	.45
10.0	.49	.46	.44	.49	.46	.44	.48	.46	.44	.48	.45	.44	.47	.45	.44	.43



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WEC AND CCEC

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SPEC.:3000K	DIM.:	SERIAL No.:2209240947
MFR.: RISE	SUR.:0.0016m2	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	.098	.055	.018	.093	.053	.017	.085	.049	.016	.078	.045	.014	.071	.041	.013	
2.0	.091	.050	.015	.088	.048	.015	.081	.045	.014	.075	.042	.013	.069	.039	.012	
3.0	.086	.046	.014	.083	.044	.013	.077	.042	.013	.072	.039	.012	.067	.037	.012	
4.0	.081	.042	.012	.079	.041	.012	.074	.039	.012	.069	.037	.011	.065	.035	.011	
5.0	.077	.039	.011	.075	.038	.011	.071	.037	.011	.067	.035	.010	.063	.034	.010	
6.0	.073	.037	.011	.071	.036	.010	.068	.035	.010	.064	.033	.010	.061	.032	.010	
7.0	.070	.035	.010	.068	.034	.010	.065	.033	.009	.062	.032	.009	.059	.031	.009	
8.0	.067	.033	.009	.066	.032	.009	.063	.031	.009	.060	.030	.009	.058	.030	.009	
9.0	.064	.031	.009	.063	.031	.009	.061	.030	.008	.058	.029	.008	.056	.028	.008	
10.0	.062	.030	.008	.061	.029	.008	.058	.029	.008	.056	.028	.008	.054	.027	.008	

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	.124	.124	.124	.106	.106	.106	.073	.073	.073	.042	.042	.042	.013	.013	.013	
1.0	.111	.103	.096	.095	.088	.083	.065	.061	.057	.037	.035	.033	.012	.011	.011	
2.0	.099	.087	.076	.085	.075	.066	.058	.052	.046	.034	.030	.027	.011	.010	.009	
3.0	.090	.074	.061	.077	.064	.053	.053	.044	.037	.031	.026	.022	.010	.008	.007	
4.0	.082	.064	.050	.071	.055	.044	.049	.039	.031	.028	.023	.018	.009	.007	.006	
5.0	.076	.056	.042	.065	.049	.036	.045	.034	.026	.026	.020	.015	.008	.007	.005	
6.0	.071	.050	.035	.061	.043	.031	.042	.030	.022	.024	.018	.013	.008	.006	.004	
7.0	.066	.045	.030	.057	.039	.026	.039	.027	.018	.023	.016	.011	.007	.005	.004	
8.0	.062	.040	.026	.053	.035	.022	.037	.025	.016	.021	.015	.009	.007	.005	.003	
9.0	.058	.037	.022	.050	.032	.019	.035	.022	.014	.020	.013	.008	.007	.004	.003	
10.0	.055	.034	.020	.048	.029	.017	.033	.021	.012	.019	.012	.007	.006	.004	.002	

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UGR(Unified Glare Rating) Table

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SPEC.:3000K					DIM.:			SERIAL No.:2209240947		
MFR.: RISE					SUR.:0.0016m2			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	12.8	13.6	13.0	13.7	13.9	12.5	13.3	12.7	13.4	13.6
3H	12.7	13.4	12.9	13.6	13.8	12.4	13.1	12.6	13.3	13.5
4H	12.6	13.3	12.9	13.5	13.7	12.3	13.0	12.6	13.2	13.4
6H	12.5	13.2	12.8	13.4	13.6	12.2	12.9	12.5	13.1	13.3
8H	12.5	13.1	12.8	13.3	13.6	12.2	12.8	12.5	13.0	13.3
12H	12.5	13.0	12.8	13.3	13.6	12.2	12.7	12.5	13.0	13.3
4H 2H	12.6	13.3	12.9	13.5	13.7	12.3	12.9	12.6	13.2	13.4
3H	12.5	13.0	12.8	13.3	13.6	12.2	12.7	12.5	13.0	13.3
4H	12.4	12.9	12.7	13.2	13.5	12.1	12.6	12.4	12.9	13.2
6H	12.3	12.7	12.7	13.1	13.4	12.0	12.5	12.4	12.8	13.1
8H	12.2	12.7	12.6	13.0	13.4	11.9	12.4	12.3	12.7	13.1
12H	12.2	12.6	12.6	12.9	13.3	11.9	12.3	12.3	12.7	13.0
8H 4H	12.2	12.7	12.6	13.0	13.4	11.9	12.4	12.3	12.7	13.1
6H	12.1	12.5	12.6	12.9	13.3	11.8	12.2	12.3	12.6	13.0
8H	12.1	12.4	12.5	12.8	13.2	11.8	12.1	12.2	12.5	12.9
12H	12.0	12.3	12.5	12.7	13.2	11.7	12.0	12.2	12.4	12.9
12H 4H	12.2	12.6	12.6	12.9	13.3	11.9	12.3	12.3	12.6	13.0
6H	12.1	12.4	12.5	12.8	13.2	11.8	12.1	12.2	12.5	12.9
8H	12.0	12.3	12.5	12.7	13.2	11.7	12.0	12.2	12.4	12.9
Variations with the observer position at spacings:										
S = 1.0H	+ 3.9 / - 8.7					+ 4.3 / - 8.5				
1.5H	+ 6.6 / - 7.6					+ 6.9 / - 7.6				
2.0H	+ 3.6 / - 1.7					+ 3.6 / - 1.6				

CIE Pub.117, 967.1 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -0.1)
Area: 0.0016 m2

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UTILIZATION FACTORS TABLE

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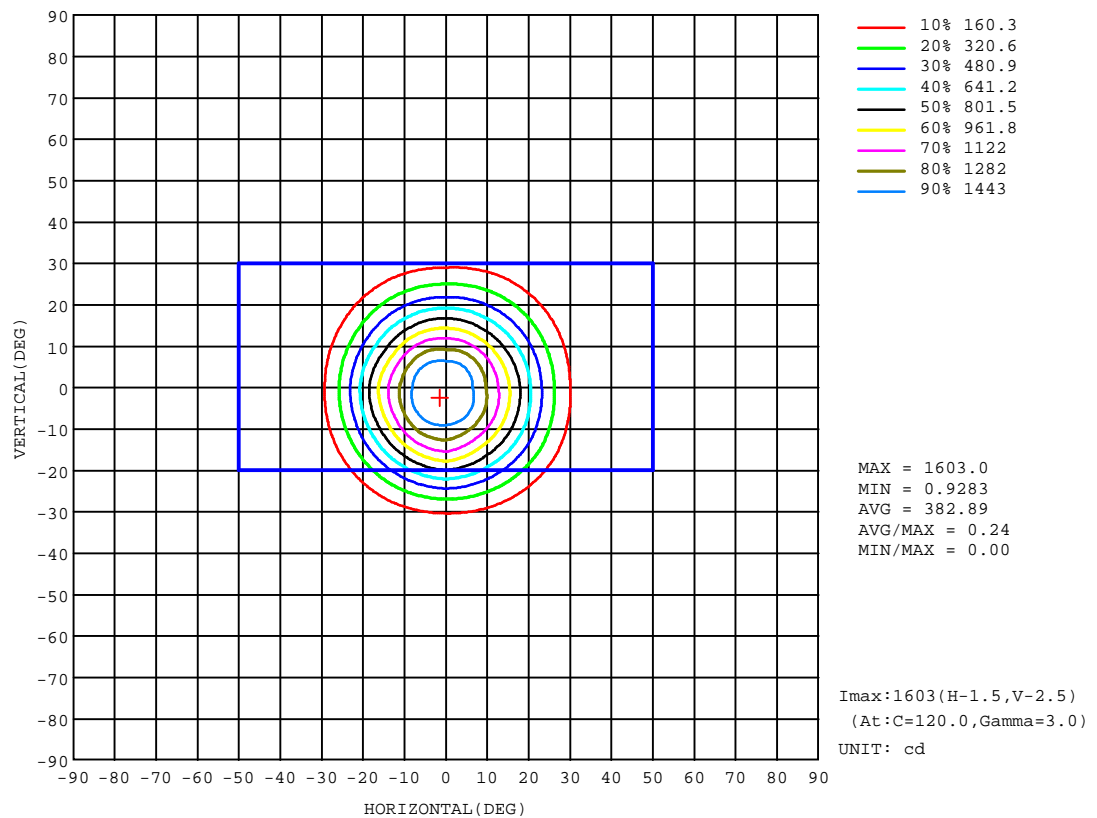
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	59	56	54	59	56	53	59	55	53	51
0.80	64	61	58	64	60	58	63	60	58	56
1.00	66	63	61	66	63	61	65	63	61	58
1.25	69	66	64	68	65	63	67	65	63	60
1.50	70	68	66	70	67	65	68	66	65	62
2.00	72	69	67	71	69	67	69	67	66	63
2.50	73	70	69	72	70	68	70	68	67	63
3.00	74	72	70	72	71	69	70	69	68	64
4.00	75	73	72	74	72	71	71	70	69	65
5.00	76	74	73	74	73	72	72	71	70	65
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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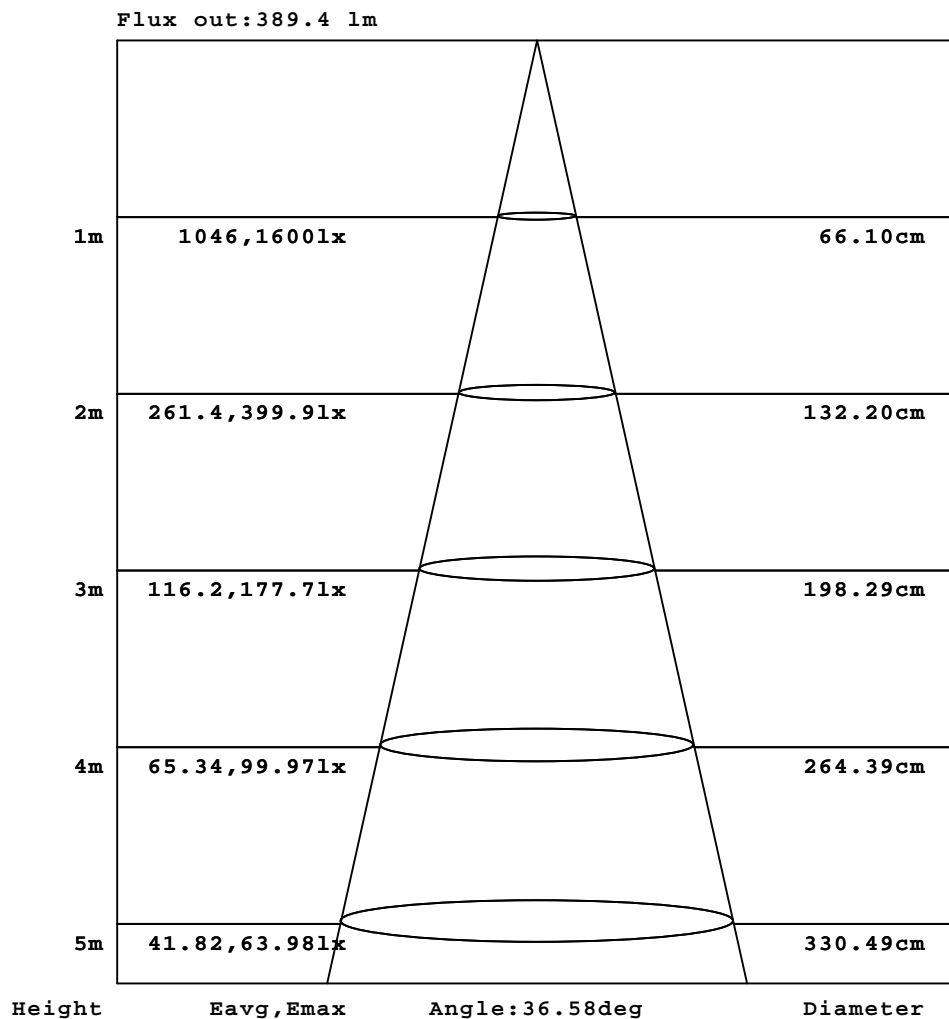


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Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1084B 36R
DRIVER: KEDH010S0250NR12A1 250mA
30minutes warm-up

AAI Figure

Test:U:220.22V I:0.0580A P:11.863W PF:0.9245 Freq:49.99Hz Lamp Flux:967.126x1 lm		
NAME: 2218.118-ACOT-97	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209240947
MFR.: RISE	SUR.:0.0016m2	Shielding Angle:



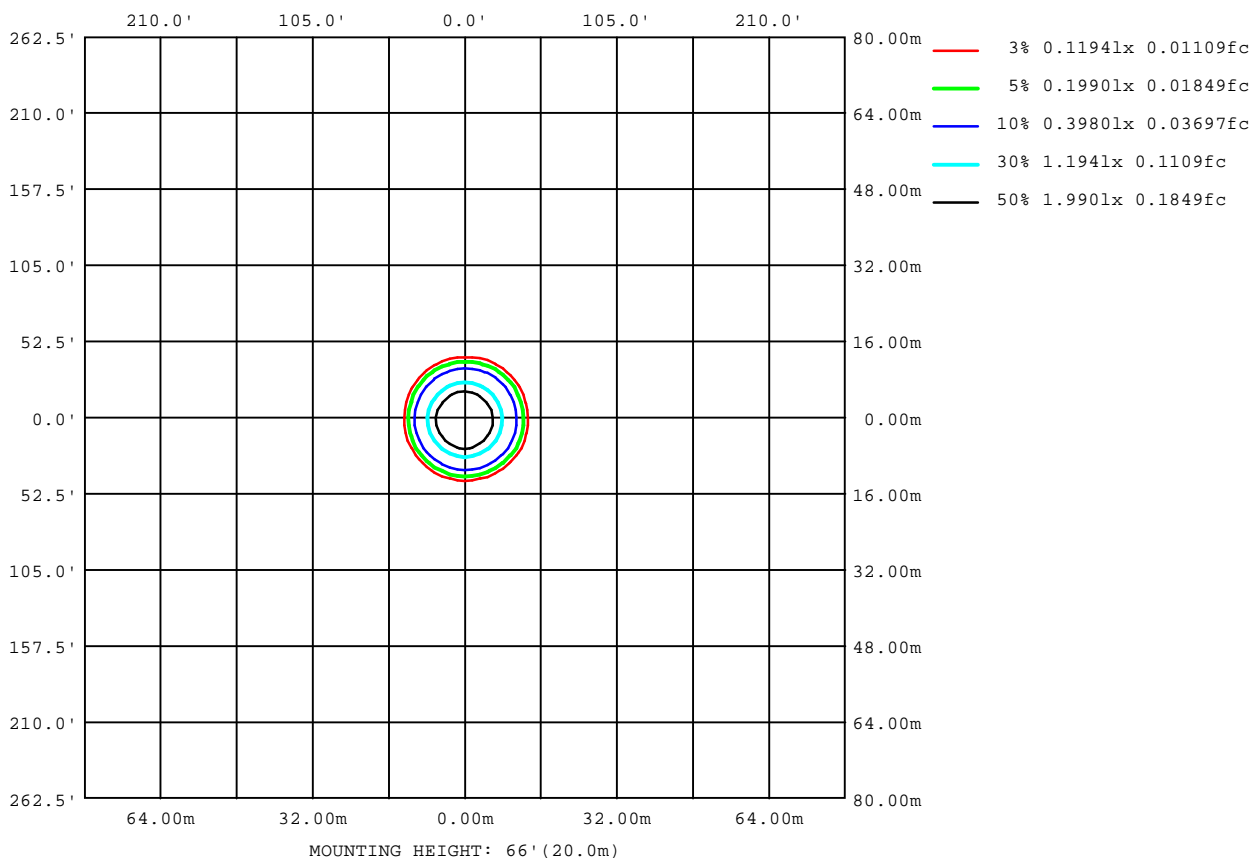
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2022-9-24

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:CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1084B 36R
DRIVER: KEDH010S0250NR12A1 250mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:220.22V I:0.0580A P:11.863W PF:0.9245 Freq:49.99Hz Lamp Flux:967.126x1 lm		
NAME: 2218.118-ACOT-97	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209240947
MFR.: RISE	SUR.:0.0016m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2022-9-24

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:CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1084B 36R
DRIVER: KEDH010S0250NR12A1 250mA
30minutes warm-up

LED Avg.L Report

Test:U:220.22V I:0.0580A P:11.863W PF:0.9245 Freq:49.99Hz Lamp Flux:967.126x1 lm		
NAME: 2218.118-ACOT-97	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209240947
MFR.: RISE	SUR.:0.0016m2	Shielding Angle:

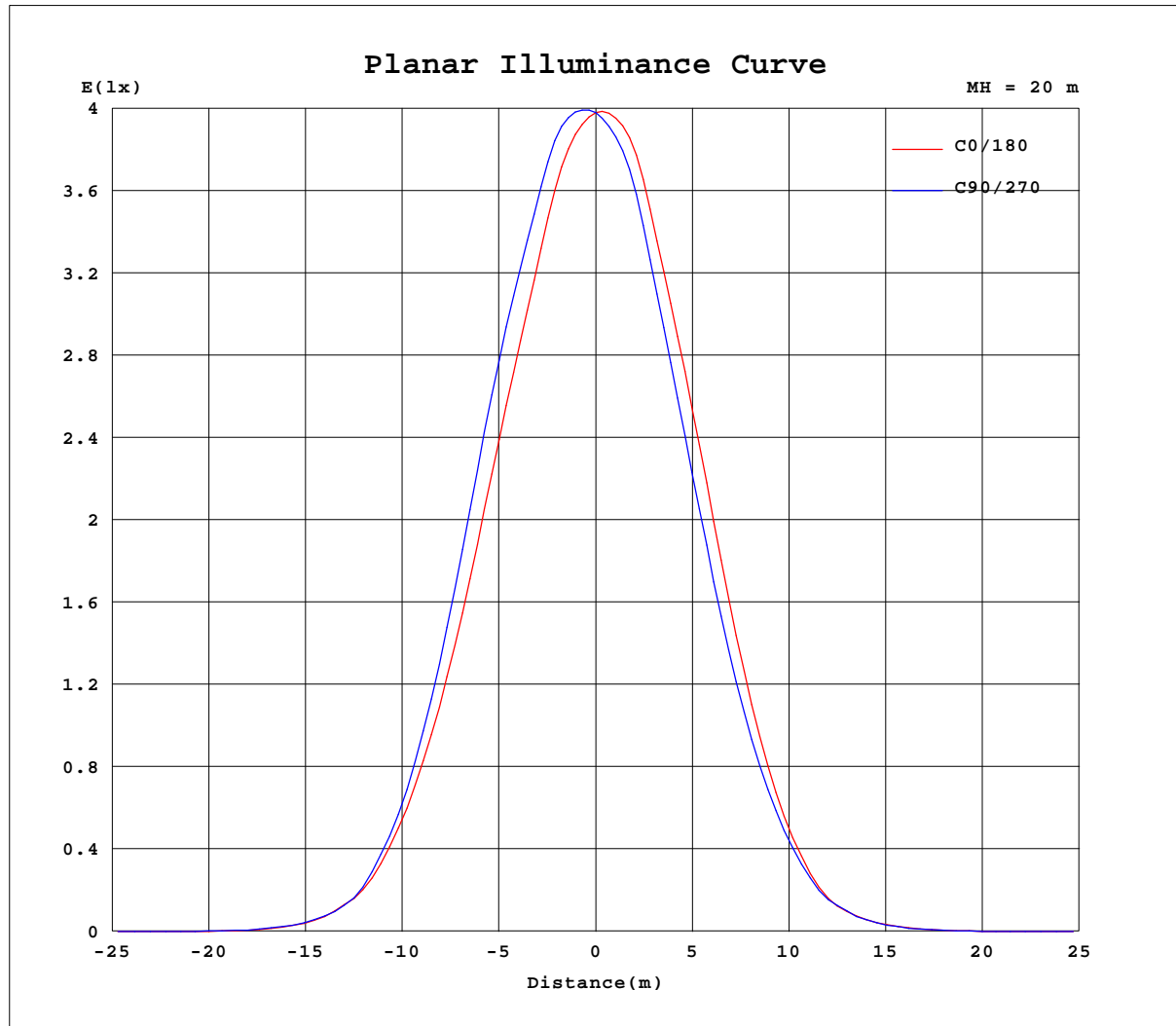
AvgL	cd/m2
L_0~180(65)av	1077
L_0~180(75)av	250
L_0~180(85)av	205
L_90~270(65)av	1233
L_90~270(75)av	331
L_90~270(85)av	383
L_45(65)av	1071
L_45(75)av	987
L_45(85)av	318

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2022-9-24

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:CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1084B 36R
DRIVER: KEDH010S0250NR12A1 250mA
30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Zoe
 Test Date: 2022-9-24

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: CMA1306-0000-000N0U0A30G Ra:90
 LENS: PM-1084B 36R
 DRIVER: KEDH010S0250NR12A1 250mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.22V I:0.0580A P:11.863W PF:0.9245 Freq:49.99Hz Lamp Flux:967.126x1 lm		
NAME: 2218.118-ACOT-97	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209240947
MFR.: RISE	SUR.:0.0016m2	Shielding Angle:

Table--1

UNIT: cd

C(°) g (°)	0	30	60	90	120	150	180	210	240	270	300	330						
0	1592	1592	1592	1592	1592	1592	1592	1592	1592	1592	1592	1592						
5	1505	1536	1564	1584	1590	1582	1562	1540	1521	1499	1502	1501						
10	1266	1325	1376	1407	1417	1386	1344	1307	1274	1230	1248	1260						
15	987	1039	1077	1158	1123	1065	1051	957	929	912	908	935						
20	672	718	747	805	751	710	694	618	595	586	599	627						
25	383	426	433	445	416	384	364	331	324	316	342	364						
30	162	198	188	181	173	155	133	134	136	125	151	163						
35	54.9	60.5	60.0	55.9	48.9	43.1	42.7	39.1	40.6	42.0	47.1	51.7						
40	14.2	18.0	15.0	16.3	14.6	13.5	12.6	12.5	12.8	11.7	13.6	14.4						
45	3.13	4.65	4.29	3.63	4.27	4.25	3.37	4.11	4.03	2.71	3.73	3.95						
50	1.50	1.62	1.61	1.85	1.60	1.62	1.60	1.61	1.54	1.22	1.32	1.45						
55	1.08	1.04	1.00	1.16	1.05	1.03	1.09	1.01	0.99	0.90	0.90	0.94						
60	0.87	0.81	0.78	0.93	0.80	0.78	0.79	0.75	0.79	0.82	0.77	0.78						
65	0.78	0.72	0.69	0.81	0.72	0.66	0.68	0.70	0.80	0.86	0.79	0.75						
70	0.72	0.62	0.56	0.66	0.59	0.55	0.60	0.66	0.83	1.00	0.81	0.71						
75	0.10	0.29	0.33	0.19	0.37	0.36	0.11	0.38	0.47	0.09	0.41	0.40						
80	0.05	0.08	0.09	0.12	0.09	0.09	0.06	0.05	0.05	0.05	0.04	0.05						
85	0.03	0.05	0.07	0.09	0.08	0.07	0.03	0.03	0.02	0.02	0.02	0.02						
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:2022-9-24

g Range: 0 - 180DEG
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