

Luminaire Photograph



Light Output Ratio:	89.9%	
Luminaire Power:	13.6 W	
SHR Nominal:	0.50	Calculated using the TM5
SHR Maximum:	0.55	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Zoe
Test Date: 2022-7-19

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-1083B 36R
DRIVER: PUP10T-1LMC-350 250mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

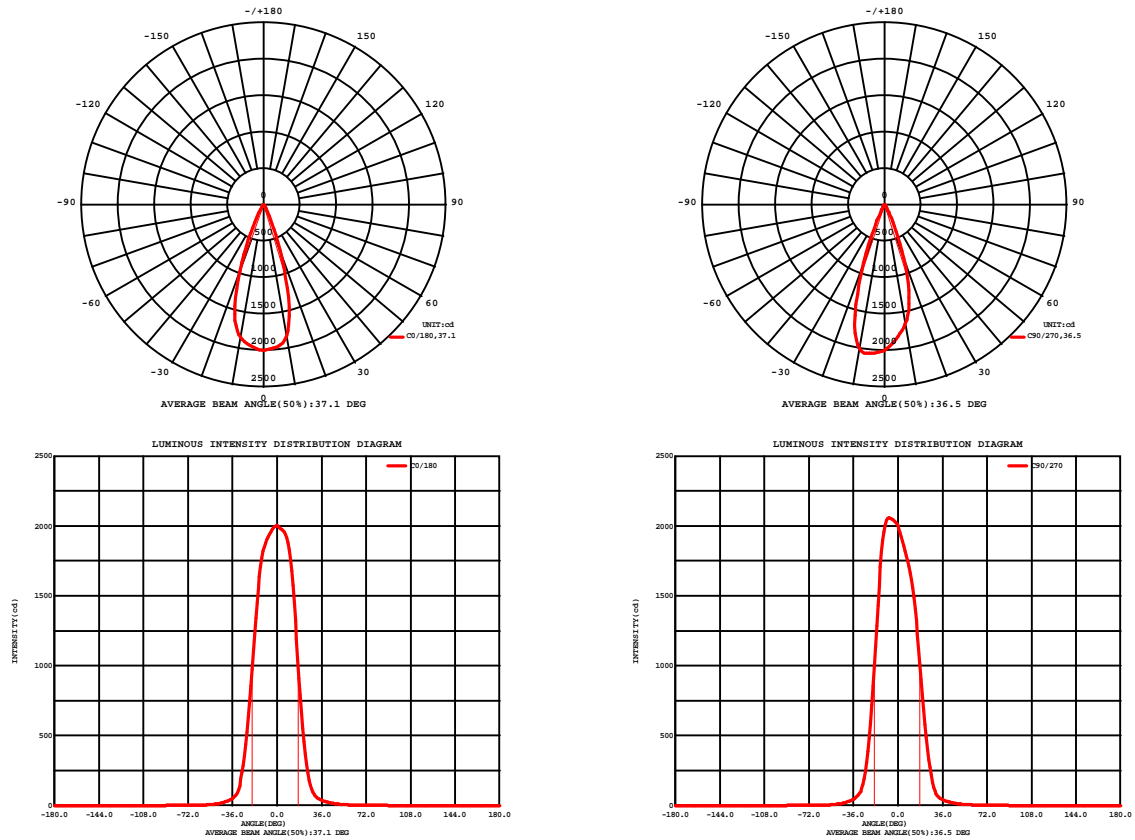


Fig. C0/C180

Fig. C90/C270

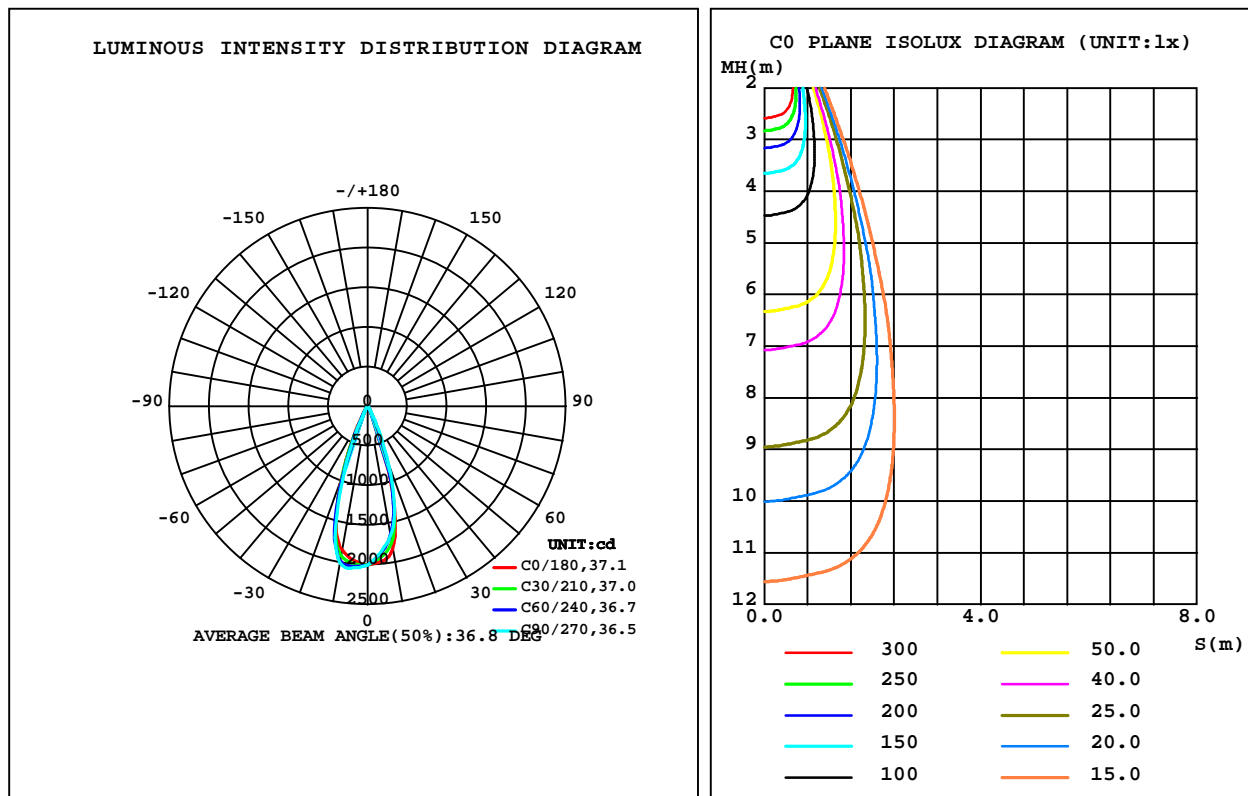
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C Range: 0 - 180DEG
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Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.87V I:0.1198A P:13.595W PF:0.9434 Freq:59.98Hz Lamp Flux:873.09x1 lm		
NAME: 2118.582-LEA-01	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2207190583
MFR.: RISE	SUR.:0.003737385m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 57.76 lm/W			
MODEL	CREE	I _{max} (cd)	2057	S/MH(C0/180)	0.60
NOMINAL POWER(W)	13	LOR(%)	89.9	S/MH(C90/270)	0.57
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	785.21	h UP,DN(C0-180)	0.0,42.6
NOMINAL FLUX(lm)	873.09	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,47.3
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	120	h down(%)	89.9	CIBSE SHR MAX	0.55



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Interval: 1.0DEG
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Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CMA1306-0000-000N0U0A30G Ra:90
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ZONAL FLUX DIAGRAM

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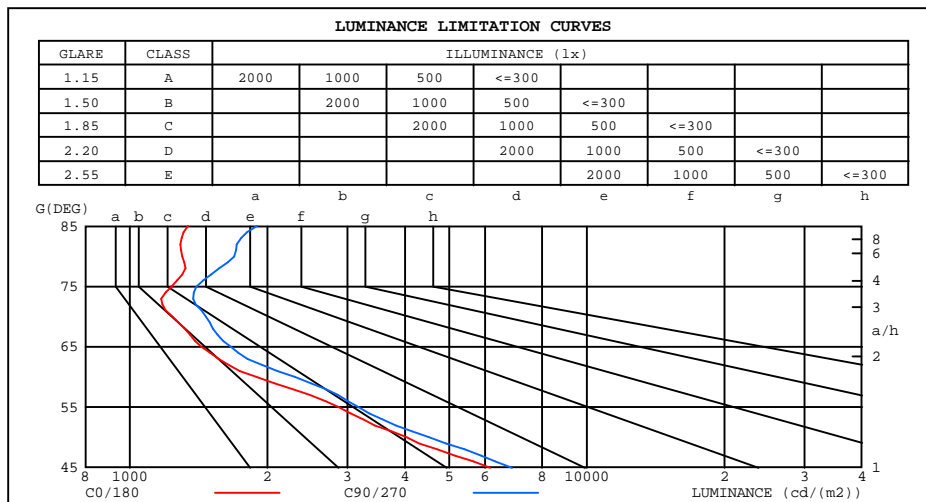
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum, lamp
10	1827	1707	1664	1743	1849	1953	2007	1954	0- 10	183.4	183.4	23.4,21
20	672.2	703.8	790.6	890.6	974.5	946.0	856.1	764.1	10- 20	381.9	565.3	72,64.7
30	81.45	84.57	101.3	124.2	140.4	123.2	98.98	88.96	20- 30	164.1	729.4	92.9,83.5
40	25.39	26.11	28.21	30.54	31.26	30.41	28.28	26.57	30- 40	33.57	763.0	97.2,87.4
50	9.655	10.37	10.85	10.45	9.602	8.943	8.650	8.995	40- 50	13.34	776.3	98.9,88.9
60	3.534	4.227	4.293	3.624	2.870	2.434	2.443	2.872	50- 60	5.299	781.6	99.5,89.5
70	1.583	1.849	1.876	1.538	1.120	0.9193	0.9287	1.190	60- 70	2.113	783.7	99.8,89.8
80	0.8443	1.086	1.099	0.8191	0.5578	0.4312	0.4079	0.5697	70- 80	1.093	784.8	99.9,89.9
90	0	0	0	0	0	0	0	0	80- 90	0.3988	785.2	100,89.9
100	0	0	0	0	0	0	0	0	90-100	0	785.2	100,89.9
110	0	0	0	0	0	0	0	0	100-110	0	785.2	100,89.9
120	0	0	0	0	0	0	0	0	110-120	0	785.2	100,89.9
130	0	0	0	0	0	0	0	0	120-130	0	785.2	100,89.9
140	0	0	0	0	0	0	0	0	130-140	0	785.2	100,89.9
150	0	0	0	0	0	0	0	0	140-150	0	785.2	100,89.9
160	0	0	0	0	0	0	0	0	150-160	0	785.2	100,89.9
170	0	0	0	0	0	0	0	0	160-170	0	785.2	100,89.9
180	0	0	0	0	0	0	0	0	170-180	0	785.2	100,89.9
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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30minutes warm-up

LUMINANCE LIMITATION CURVES

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SPEC.:3000K	DIM.:	SERIAL No.:2207190583
MFR.: RISE	SUR.:0.003737385m2	Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	1342	1904
80	1303	1693
75	1235	1399
70	1240	1468
65	1438	1664
60	1894	2298
55	2867	3165
50	4025	4516
45	6151	6874

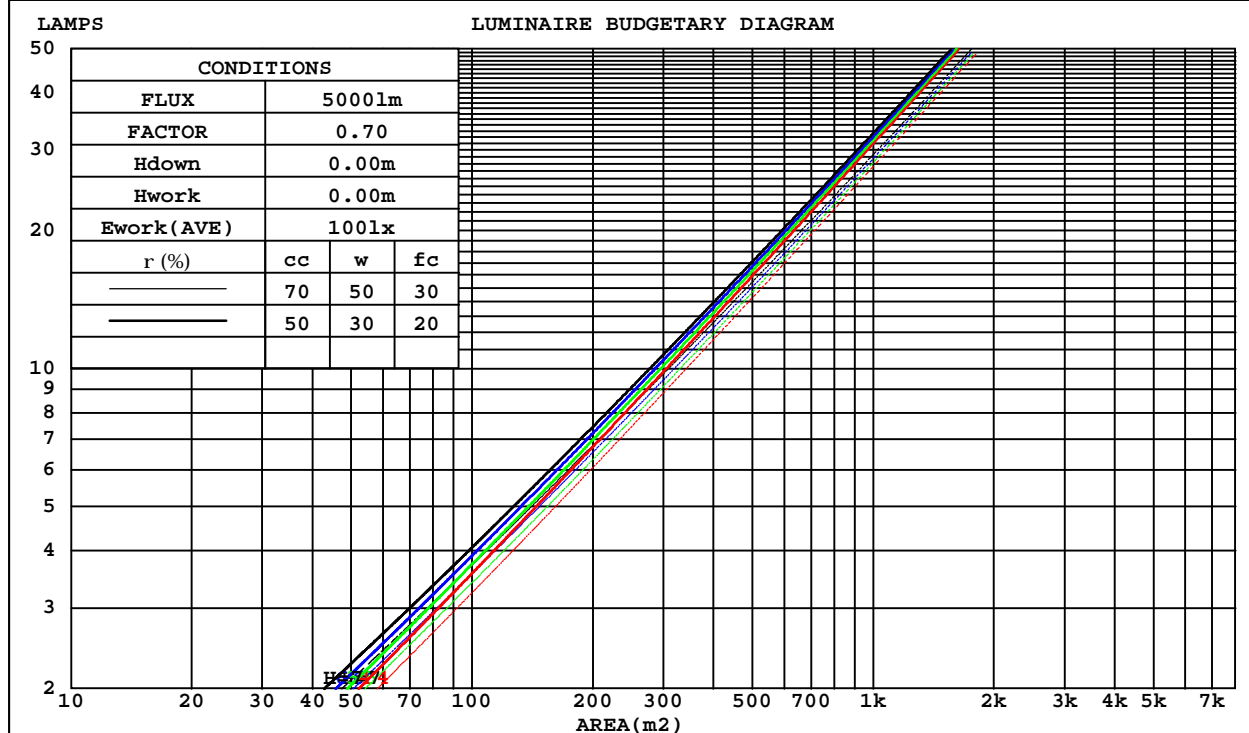
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	1.07	1.07	1.07	1.05	1.05	1.05	.00	.00	.00	.96	.96	.96	.92	.92	.92	.90
1.0	1.01	.99	.97	.99	.97	.96	.95	.94	.93	.92	.91	.90	.89	.88	.88	.86
2.0	.96	.93	.90	.94	.91	.89	.91	.89	.87	.89	.87	.85	.86	.85	.84	.82
3.0	.91	.87	.85	.90	.87	.84	.88	.85	.83	.85	.83	.81	.84	.82	.80	.79
4.0	.87	.83	.80	.86	.82	.79	.84	.81	.79	.82	.80	.78	.81	.79	.77	.76
5.0	.83	.79	.76	.82	.78	.76	.81	.77	.75	.79	.77	.74	.78	.76	.74	.73
6.0	.80	.75	.72	.79	.75	.72	.78	.74	.72	.77	.74	.71	.76	.73	.71	.70
7.0	.77	.72	.69	.76	.72	.69	.75	.71	.69	.74	.71	.69	.73	.70	.68	.67
8.0	.74	.70	.67	.73	.69	.67	.72	.69	.66	.72	.68	.66	.71	.68	.66	.65
9.0	.71	.67	.64	.71	.67	.64	.70	.66	.64	.69	.66	.64	.69	.66	.63	.63
10.0	.69	.65	.62	.68	.64	.62	.68	.64	.62	.67	.64	.61	.66	.63	.61	.60



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WEC AND CCEC

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SPEC.:3000K	DIM.:	SERIAL No.:2207190583
MFR.: RISE	SUR.:0.003737385m2	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	.128	.073	.023	.117	.067	.021	.106	.061	.020	.097	.056	.018	
2.0	.125	.068	.021	.120	.066	.020	.111	.062	.019	.102	.057	.018	.094	.053	.017	
3.0	.117	.062	.019	.113	.061	.018	.105	.057	.017	.098	.054	.016	.091	.051	.016	
4.0	.110	.057	.017	.107	.056	.017	.100	.053	.016	.094	.051	.015	.088	.048	.015	
5.0	.104	.053	.015	.101	.052	.015	.096	.050	.015	.090	.048	.014	.086	.046	.014	
6.0	.099	.050	.014	.097	.049	.014	.092	.047	.014	.087	.045	.013	.083	.044	.013	
7.0	.094	.047	.013	.092	.046	.013	.088	.044	.013	.084	.043	.013	.080	.042	.012	
8.0	.090	.044	.012	.088	.043	.012	.084	.042	.012	.081	.041	.012	.078	.040	.012	
9.0	.086	.042	.012	.085	.041	.012	.081	.040	.011	.078	.039	.011	.075	.038	.011	
10.0	.083	.040	.011	.081	.039	.011	.078	.038	.011	.076	.038	.011	.073	.037	.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	.171	.171	.171	.146	.146	.146	.100	.100	.100	.057	.057	.057	.018	.018	.018	
1.0	.152	.142	.132	.130	.122	.114	.089	.084	.079	.051	.048	.046	.016	.016	.015	
2.0	.137	.119	.105	.117	.103	.091	.080	.071	.063	.046	.041	.037	.015	.013	.012	
3.0	.124	.102	.085	.106	.088	.073	.073	.061	.051	.042	.036	.030	.014	.012	.010	
4.0	.113	.088	.069	.097	.076	.060	.067	.053	.042	.039	.031	.025	.012	.010	.008	
5.0	.104	.077	.058	.089	.067	.050	.062	.047	.035	.036	.027	.021	.011	.009	.007	
6.0	.096	.069	.049	.083	.059	.042	.057	.042	.030	.033	.024	.018	.011	.008	.006	
7.0	.090	.061	.041	.077	.053	.036	.053	.037	.026	.031	.022	.015	.010	.007	.005	
8.0	.084	.055	.036	.073	.048	.031	.050	.034	.022	.029	.020	.013	.009	.007	.004	
9.0	.079	.050	.031	.068	.044	.027	.047	.031	.019	.028	.018	.011	.009	.006	.004	
10.0	.075	.046	.027	.065	.040	.024	.045	.028	.017	.026	.017	.010	.009	.005	.003	

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UGR(Unified Glare Rating) Table

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SPEC.:3000K					DIM.:			SERIAL No.:2207190583		
MFR.: RISE					SUR.:0.003737385m2			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	8.9	9.6	9.1	9.7	9.9	9.3	10.0	9.5	10.2	10.3
3H	8.9	9.6	9.2	9.8	10.0	9.4	10.1	9.7	10.3	10.5
4H	9.0	9.6	9.3	9.9	10.1	9.5	10.1	9.7	10.3	10.6
6H	9.1	9.7	9.4	9.9	10.2	9.6	10.2	9.9	10.4	10.7
8H	9.1	9.7	9.4	9.9	10.2	9.7	10.2	10.0	10.5	10.7
12H	9.1	9.7	9.4	9.9	10.2	9.7	10.3	10.0	10.5	10.8
4H 2H	8.8	9.5	9.1	9.7	9.9	9.3	9.9	9.5	10.1	10.3
3H	9.0	9.6	9.3	9.8	10.1	9.5	10.0	9.8	10.3	10.6
4H	9.1	9.6	9.5	9.9	10.2	9.6	10.1	9.9	10.4	10.7
6H	9.3	9.8	9.7	10.1	10.4	9.8	10.3	10.2	10.6	10.9
8H	9.4	9.8	9.8	10.1	10.5	9.9	10.3	10.3	10.7	11.1
12H	9.4	9.8	9.8	10.2	10.6	10.0	10.4	10.4	10.8	11.2
8H 4H	9.1	9.6	9.5	9.9	10.3	9.6	10.0	10.0	10.4	10.7
6H	9.4	9.8	9.8	10.2	10.6	9.9	10.3	10.3	10.6	11.1
8H	9.5	9.9	10.0	10.3	10.7	10.1	10.4	10.5	10.8	11.3
12H	9.7	9.9	10.1	10.4	10.8	10.3	10.5	10.7	11.0	11.4
12H 4H	9.1	9.5	9.5	9.9	10.3	9.6	9.9	10.0	10.3	10.7
6H	9.4	9.7	9.9	10.2	10.6	9.9	10.2	10.4	10.6	11.1
8H	9.6	9.9	10.1	10.3	10.8	10.1	10.4	10.6	10.8	11.3
Variations with the observer position at spacings:										
S = 1.0H	+ 1.3 / - 2.0					+ 1.5 / - 1.8				
1.5H	+ 2.1 / - 1.6					+ 2.5 / - 1.5				
2.0H	+ 2.5 / - 1.8					+ 2.7 / - 1.7				

CIE Pub.117, 873.1 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -0.5)
Area: 0.00373738 m2

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UTILIZATION FACTORS TABLE

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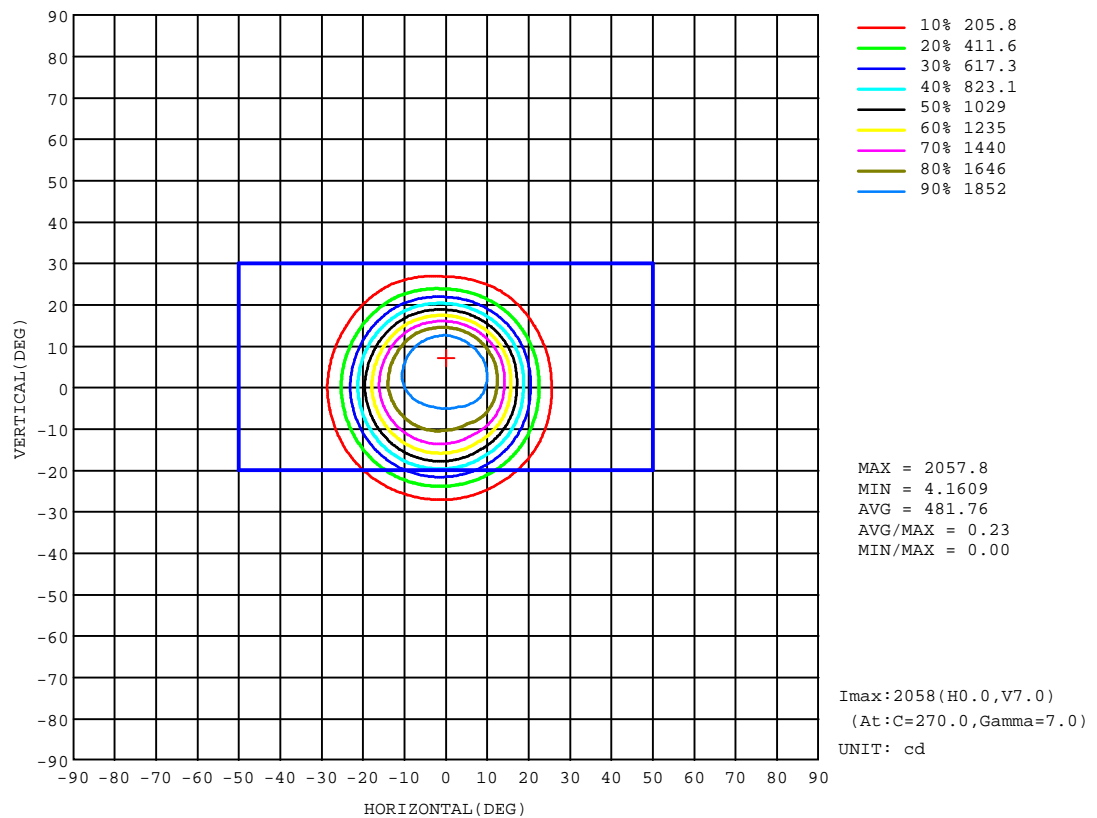
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	81	75	72	80	75	72	80	75	72	69
0.80	87	82	79	87	82	79	86	81	79	76
1.00	91	86	83	90	86	83	89	85	82	79
1.25	94	90	87	93	89	86	91	88	86	82
1.50	96	92	90	95	92	89	93	90	88	84
2.00	98	95	92	97	94	92	95	92	90	86
2.50	100	97	94	98	95	93	96	93	92	86
3.00	101	98	96	99	97	95	96	95	93	87
4.00	103	100	99	101	99	97	98	96	95	89
5.00	104	102	100	102	100	99	98	97	96	90
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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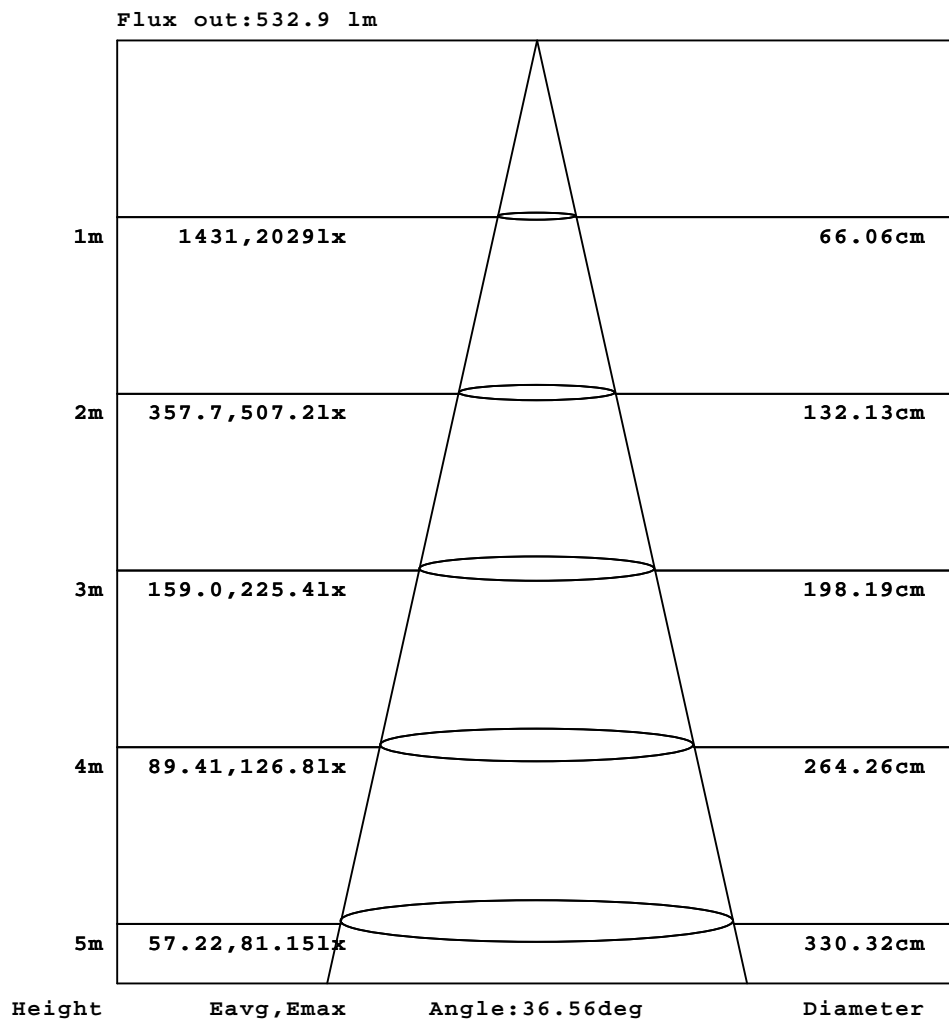


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Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CMA1306-0000-000N0U0A30G Ra:90
LENS: PM-1083B 36R
DRIVER:PUP10T-1LMC-350 250mA
30minutes warm-up

AAI Figure

Test:U:119.87V I:0.1198A P:13.595W PF:0.9434 Freq:59.98Hz Lamp Flux:873.09x1 lm		
NAME: 2118.582-LEA-01	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2207190583
MFR.: RISE	SUR.:0.003737385m2	Shielding Angle:



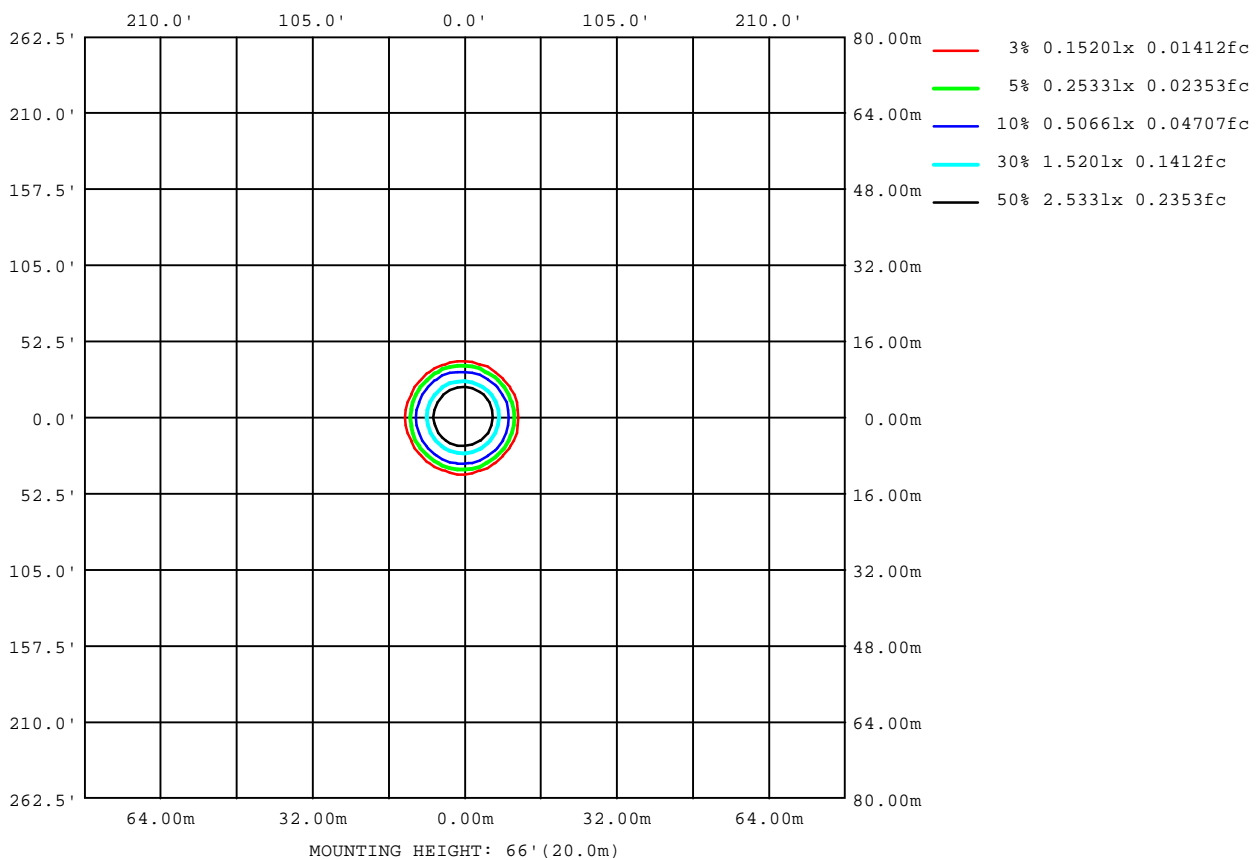
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2022-7-19

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-1083B 36R
DRIVER:PUP10T-1LMC-350 250mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:119.87V I:0.1198A P:13.595W PF:0.9434 Freq:59.98Hz Lamp Flux:873.09x1 lm		
NAME: 2118.582-LEA-01	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2207190583
MFR.: RISE	SUR.:0.003737385m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2022-7-19

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-1083B 36R
DRIVER:PUP10T-1LMC-350 250mA
30minutes warm-up

LED Avg.L Report

Test:U:119.87V I:0.1198A P:13.595W PF:0.9434 Freq:59.98Hz Lamp Flux:873.09x1 lm		
NAME: 2118.582-LEA-01	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2207190583
MFR.: RISE	SUR.:0.003737385m2	Shielding Angle:

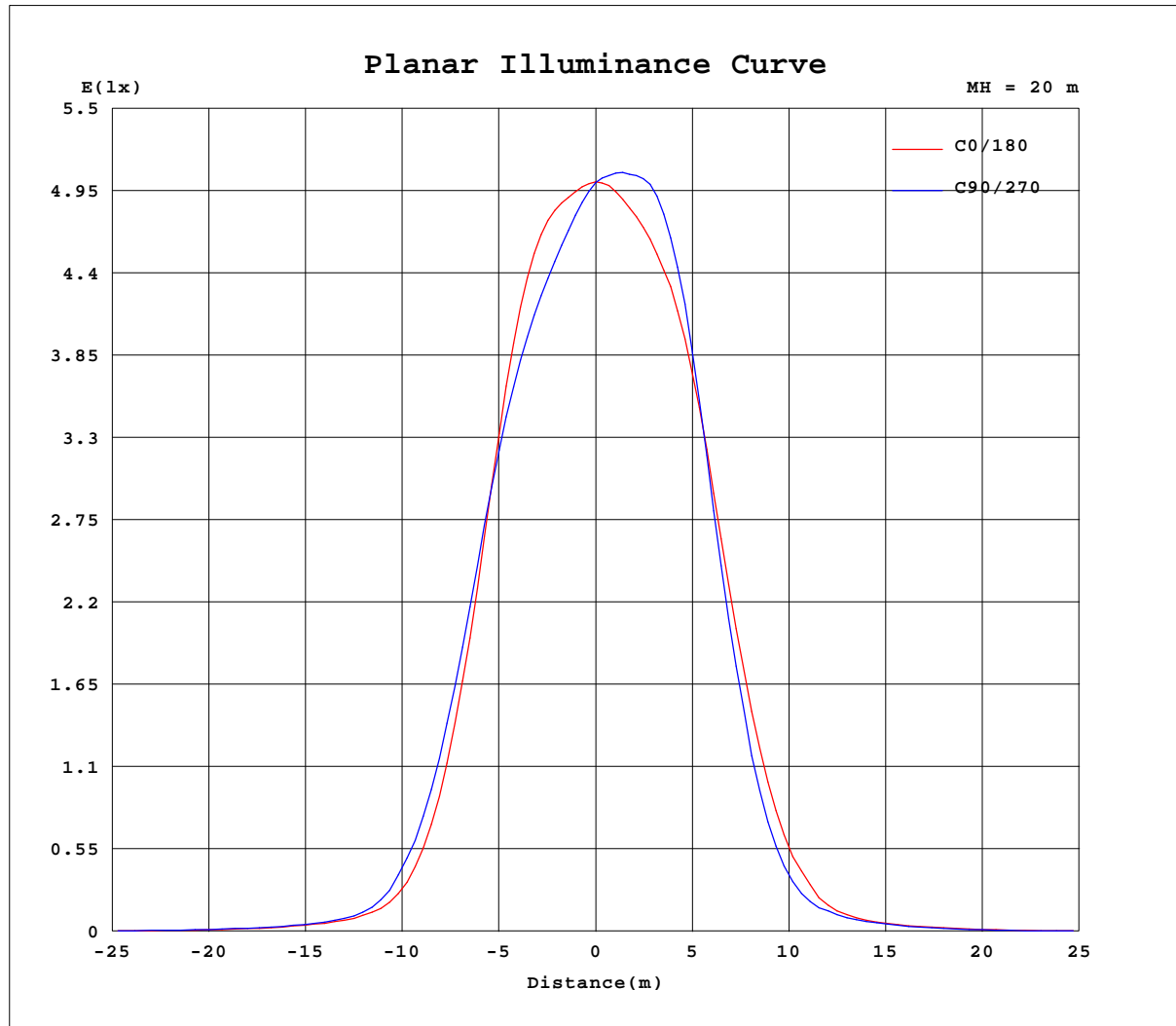
AvgL	cd/m2
L_0~180(65)av	1283
L_0~180(75)av	1057
L_0~180(85)av	1019
L_90~270(65)av	1319
L_90~270(75)av	1077
L_90~270(85)av	1149
L_45(65)av	1308
L_45(75)av	1065
L_45(85)av	1063

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2022-7-19

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-1083B 36R
DRIVER:PUP10T-1LMC-350 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: 2022-7-19

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-1083B 36R
 DRIVER: PUP10T-1LMC-350 250mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.87V I:0.1198A P:13.595W PF:0.9434 Freq:59.98Hz Lamp Flux:873.09x1 lm		
NAME: 2118.582-LEA-01	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2207190583
MFR.: RISE	SUR.:0.003737385m2	Shielding Angle:

Table--1

UNIT: cd

C(°) g (°)	0	30	60	90	120	150	180	210	240	270	300	330						
0	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001	2001						
5	1966	1914	1866	1855	1871	1910	1953	1996	2029	2047	2046	2016						
10	1827	1754	1659	1664	1712	1773	1849	1918	1988	2007	1984	1924						
15	1325	1302	1270	1321	1392	1466	1553	1583	1624	1575	1518	1439						
20	672	689	719	791	862	919	975	952	940	856	786	742						
25	234	262	280	327	374	400	435	407	384	307	282	250						
30	81.4	81.1	88.0	101	118	130	140	128	119	99.0	92.1	85.9						
35	42.0	43.0	44.4	48.2	52.5	56.1	57.0	56.0	54.4	50.2	47.4	44.1						
40	25.4	25.9	26.3	28.2	29.8	31.3	31.3	30.9	29.9	28.3	26.9	26.2						
45	16.2	16.7	17.0	18.2	18.3	18.4	17.6	16.5	15.8	15.3	15.0	15.9						
50	9.66	10.3	10.5	10.8	10.6	10.3	9.60	9.18	8.71	8.65	8.62	9.38						
55	6.14	6.67	6.75	6.78	6.59	6.07	5.40	4.76	4.45	4.52	4.96	5.64						
60	3.53	4.12	4.34	4.29	3.93	3.32	2.87	2.51	2.36	2.44	2.67	3.07						
65	2.27	2.54	2.63	2.63	2.44	2.13	1.79	1.57	1.48	1.54	1.70	2.02						
70	1.58	1.81	1.89	1.88	1.69	1.39	1.12	0.95	0.89	0.93	1.07	1.31						
75	1.19	1.33	1.39	1.35	1.21	1.02	0.85	0.75	0.71	0.73	0.83	1.01						
80	0.84	1.04	1.13	1.10	0.92	0.72	0.56	0.45	0.41	0.41	0.48	0.65						
85	0.44	0.58	0.64	0.62	0.49	0.33	0.23	0.16	0.14	0.13	0.16	0.28						
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
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