

## Luminaire Photograph



Light Output Ratio:	82.9%	
Luminaire Power:	35.28 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: 2023-1-12

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: CLU028-1204C4-303H5M3-F1 Ra:90  
REFLECTOR: AP-060C-WW  
DRIVER: 9290 028 091 900mA  
30minutes warm-up

## LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

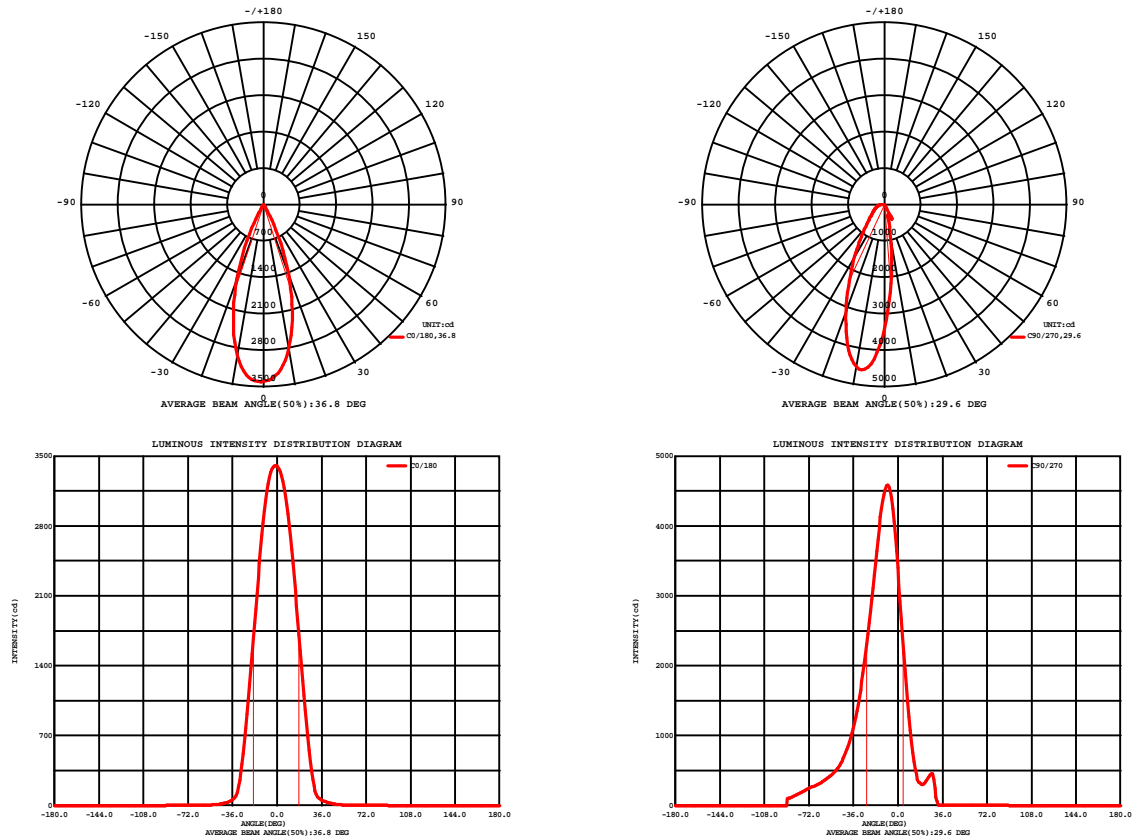


Fig. C0/C180

Fig. C90/C270

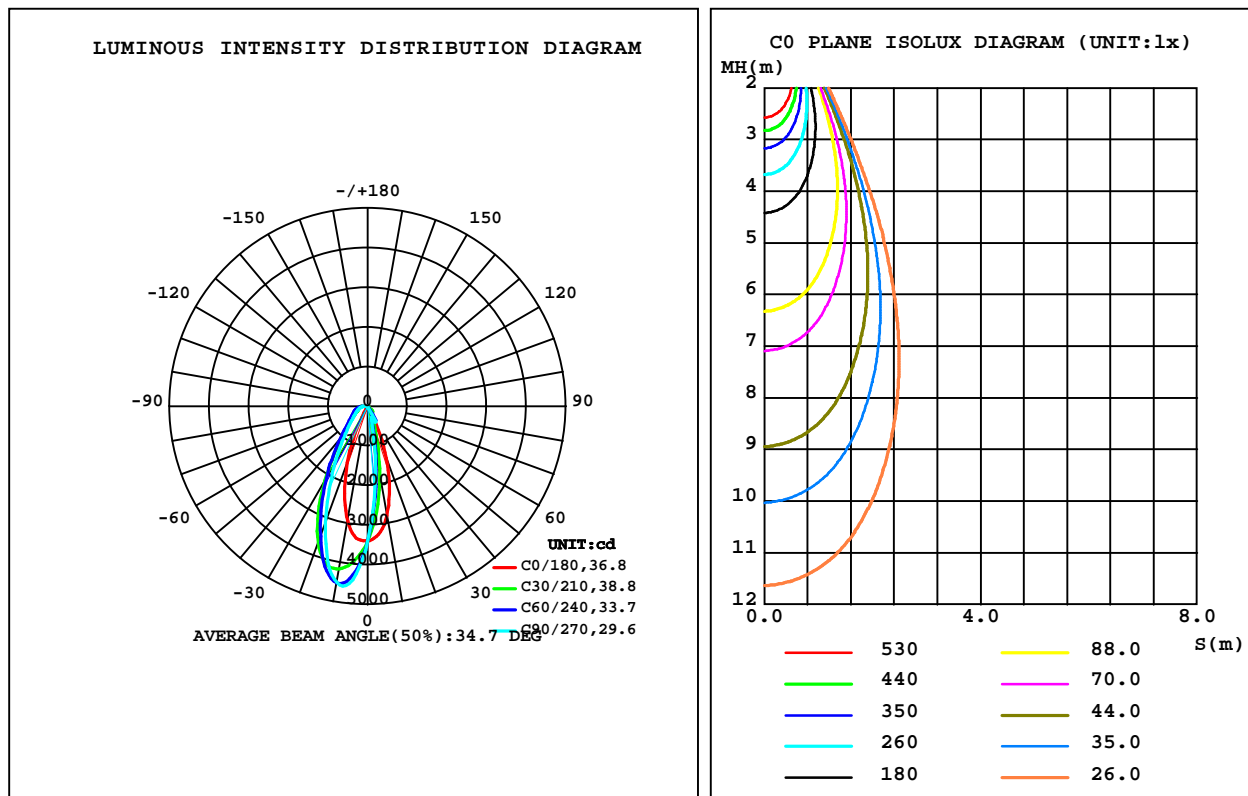
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: Zoe  
Test Date: 2023-1-12

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: CLU028-1204C4-303H5M3-F1 Ra:90  
REFLECTOR: AP-060C-WW  
DRIVER: 9290 028 091 900mA  
30minutes warm-up

## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.23V I:0.1664A P:35.283W PF:0.9600 Freq:49.99Hz Lamp Flux:3396.9x1 lm		
NAME: 2214.429A	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2301120042
MFR.: RISE	SUR.:0.005904m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 79.83 lm/W			
MODEL	CITIZEN	I <sub>max</sub> (cd)	4691	S/MH(C0/180)	0.60
NOMINAL POWER(W)	36	LOR(%)	82.9	S/MH(C90/270)	0.90
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	2816.8	h UP,DN(C0-180)	0.0,11.6
NOMINAL FLUX(lm)	3396.9	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,71.3
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	h down(%)	82.9	CIBSE SHR MAX	0.55



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Temperature:25.3DEG  
Operators:Zoe  
Test Date:2023-1-12

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:CLU028-1204C4-303H5M3-F1 Ra:90  
REFLECTOR:AP-060C-WW  
DRIVER:9290 028 091 900mA  
30minutes warm-up

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

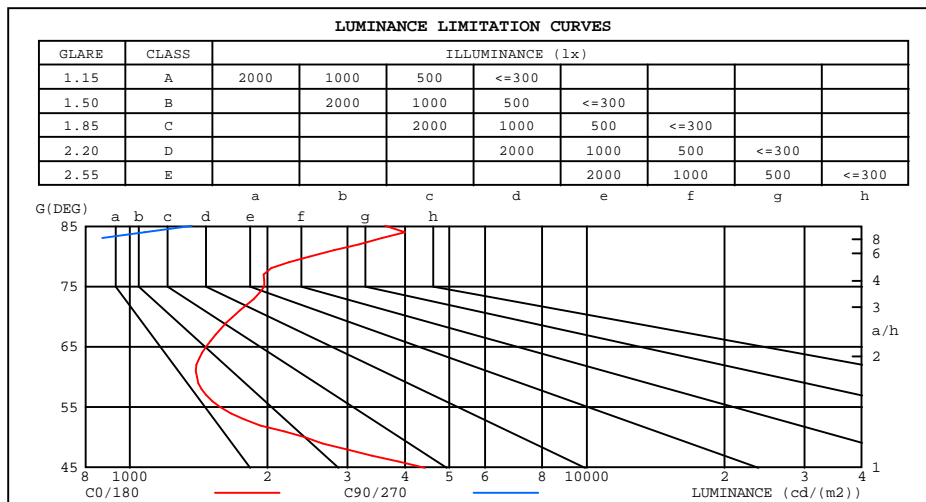
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	2807	1500	1074	1498	2945	4346	4520	4406	0- 10	301.5	301.5	10.7,8.88
20	1407	382.0	302.2	394.3	1519	3578	3113	3603	10- 20	658.4	959.9	34.1,28.3
30	193.1	258.2	243.8	319.6	255.7	2131	1656	2087	20- 30	633.1	1593	56.6,46.9
40	34.68	93.21	1.757	137.1	31.36	1068	851.5	1057	30- 40	420.5	2014	71.5,59.3
50	8.833	31.80	0.6648	2.628	7.972	595.9	501.0	623.1	40- 50	268.7	2282	81,67.2
60	4.000	0.8661	0.1336	0.8302	4.334	401.1	350.6	445.7	50- 60	182.3	2465	87.5,72.6
70	3.280	0.3483	0.2419	0.3743	3.673	305.5	257.6	354.9	60- 70	147.1	2612	92.7,76.9
80	2.456	0.5743	0.5165	0.6555	2.338	230.7	169.3	278.4	70- 80	121.9	2734	97,80.5
90	0	0	0	0	0	0	0	0	80- 90	83.26	2817	100,82.9
100	0	0	0	0	0	0	0	0	90-100	0	2817	100,82.9
110	0	0	0	0	0	0	0	0	100-110	0	2817	100,82.9
120	0	0	0	0	0	0	0	0	110-120	0	2817	100,82.9
130	0	0	0	0	0	0	0	0	120-130	0	2817	100,82.9
140	0	0	0	0	0	0	0	0	130-140	0	2817	100,82.9
150	0	0	0	0	0	0	0	0	140-150	0	2817	100,82.9
160	0	0	0	0	0	0	0	0	150-160	0	2817	100,82.9
170	0	0	0	0	0	0	0	0	160-170	0	2817	100,82.9
180	0	0	0	0	0	0	0	0	170-180	0	2817	100,82.9
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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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:CLU028-1204C4-303H5M3-F1 Ra:90  
 REFLECTOR:AP-060C-WW  
 DRIVER:9290 028 091 900mA  
 30minutes warm-up

### LUMINANCE LIMITATION CURVES

Test:U:220.23V I:0.1664A P:35.283W PF:0.9600 Freq:49.99Hz Lamp Flux:3396.9x1 lm		
NAME: 2214.429A	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2301120042
MFR.: RISE	SUR.:0.005904m2	Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	3620	1367
80	2481	505
75	1971	235
70	1683	120
65	1469	66
60	1404	45
55	1579	118
50	2411	176
45	4432	304

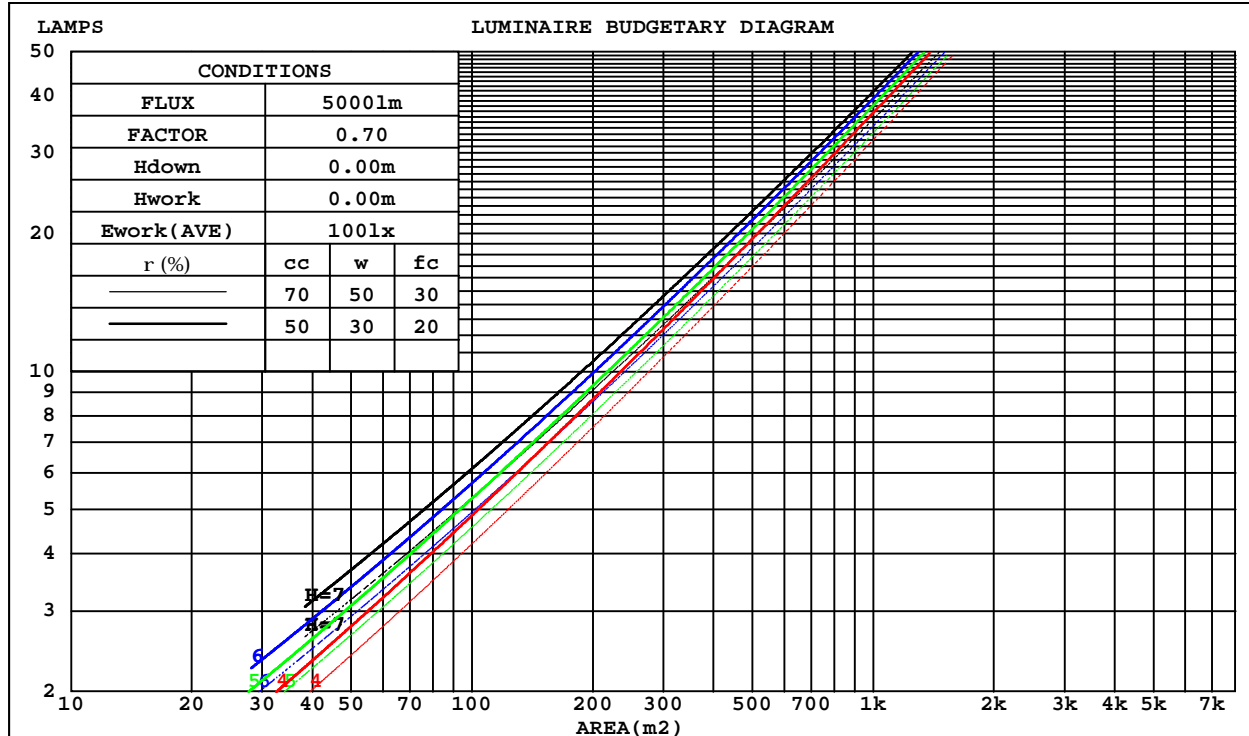
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30minutes warm-up

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.23V I:0.1664A P:35.283W PF:0.9600 Freq:49.99Hz Lamp Flux:3396.9x1 lm		
NAME: 2214.429A	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2301120042
MFR.: RISE	SUR.:0.005904m2	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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Remarks: LAMP:CLU028-1204C4-303H5M3-F1 Ra:90  
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30minutes warm-up

### WEC AND CCEC

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NAME: 2214.429A	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2301120042
MFR.: RISE	SUR.:0.005904m2	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	.211	.120	.038	.206	.117	.037	.195	.112	.036	.185	.107	.034	.176	.102	.033	
2.0	.191	.105	.032	.186	.103	.032	.177	.098	.031	.168	.094	.030	.160	.091	.029	
3.0	.175	.093	.028	.171	.091	.028	.163	.088	.027	.155	.085	.026	.148	.082	.025	
4.0	.161	.084	.025	.158	.083	.024	.151	.080	.024	.144	.077	.023	.138	.075	.023	
5.0	.150	.076	.022	.147	.075	.022	.141	.073	.022	.135	.071	.021	.130	.069	.021	
6.0	.140	.070	.020	.137	.069	.020	.132	.068	.020	.127	.066	.019	.122	.064	.019	
7.0	.131	.065	.018	.129	.064	.018	.124	.063	.018	.120	.061	.018	.115	.060	.018	
8.0	.124	.060	.017	.121	.060	.017	.117	.059	.017	.113	.057	.017	.109	.056	.016	
9.0	.117	.056	.016	.115	.056	.016	.111	.055	.016	.107	.054	.015	.104	.053	.015	
10.0	.111	.053	.015	.109	.053	.015	.105	.052	.015	.102	.051	.014	.099	.050	.014	

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	.158	.158	.158	.135	.135	.135	.092	.092	.092	.053	.053	.053	.017	.017	.017	
1.0	.146	.130	.115	.125	.111	.099	.086	.077	.068	.049	.044	.040	.016	.014	.013	
2.0	.136	.110	.087	.117	.094	.076	.080	.065	.053	.046	.038	.031	.015	.012	.010	
3.0	.127	.094	.069	.109	.081	.059	.075	.057	.042	.043	.033	.025	.014	.011	.008	
4.0	.119	.083	.055	.102	.071	.048	.070	.050	.034	.041	.029	.020	.013	.010	.007	
5.0	.112	.073	.045	.096	.064	.039	.066	.044	.028	.038	.026	.016	.012	.009	.005	
6.0	.105	.066	.038	.091	.057	.033	.062	.040	.023	.036	.024	.014	.012	.008	.005	
7.0	.100	.060	.032	.086	.052	.028	.059	.036	.020	.034	.021	.012	.011	.007	.004	
8.0	.094	.055	.028	.081	.048	.024	.056	.033	.017	.033	.020	.010	.011	.006	.003	
9.0	.090	.051	.024	.077	.044	.021	.054	.031	.015	.031	.018	.009	.010	.006	.003	
10.0	.085	.047	.021	.074	.041	.019	.051	.029	.013	.030	.017	.008	.010	.006	.003	

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C Interval: 30.0DEG  
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Temperature:25.3DEG  
Operators:Zoe  
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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:CLU028-1204C4-303H5M3-F1 Ra:90  
REFLECTOR:AP-060C-WW  
DRIVER:9290 028 091 900mA  
30minutes warm-up

## UGR(Unified Glare Rating) Table

Test:U:220.23V I:0.1664A P:35.283W PF:0.9600 Freq:49.99Hz Lamp Flux:3396.9x1 lm										
NAME: 2214.429A					TYPE:			WEIGHT:		
SPEC.:3000K					DIM.:			SERIAL No.:2301120042		
MFR.: RISE					SUR.:0.005904m2			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	12.2	13.4	12.4	13.5	13.7	7.7	8.8	7.9	9.0	9.2
3H	12.0	13.1	12.3	13.3	13.6	7.5	8.6	7.8	8.8	9.0
4H	12.0	13.0	12.3	13.2	13.5	7.4	8.4	7.7	8.7	8.9
6H	11.9	12.9	12.2	13.2	13.4	7.3	8.3	7.6	8.5	8.8
8H	11.9	12.9	12.3	13.1	13.4	7.3	8.2	7.6	8.5	8.8
12H	12.0	12.9	12.3	13.2	13.4	7.2	8.2	7.6	8.4	8.7
4H 2H	11.9	12.9	12.2	13.2	13.4	7.4	8.4	7.7	8.7	8.9
3H	11.7	12.7	12.1	12.9	13.2	7.2	8.1	7.5	8.4	8.7
4H	11.7	12.5	12.0	12.8	13.1	7.1	7.9	7.5	8.2	8.6
6H	11.6	12.4	12.0	12.7	13.1	7.0	7.8	7.4	8.1	8.5
8H	11.7	12.4	12.1	12.7	13.1	7.0	7.7	7.4	8.1	8.4
12H	11.8	12.4	12.2	12.8	13.2	7.0	7.7	7.4	8.0	8.4
8H 4H	11.5	12.2	11.9	12.6	13.0	7.0	7.7	7.4	8.0	8.4
6H	11.5	12.1	11.9	12.5	12.9	6.9	7.5	7.3	7.9	8.3
8H	11.6	12.1	12.0	12.5	13.0	6.9	7.4	7.4	7.8	8.3
12H	11.7	12.1	12.2	12.6	13.1	7.0	7.4	7.5	7.9	8.4
12H 4H	11.5	12.1	11.9	12.5	12.9	6.9	7.6	7.3	7.9	8.3
6H	11.5	12.0	11.9	12.4	12.9	6.9	7.4	7.3	7.8	8.3
8H	11.5	12.0	12.0	12.4	12.9	6.9	7.3	7.4	7.8	8.3
Variations with the observer position at spacings:										
S = 1.0H	+ 5.4 / - 9.4					+ 3.7 / - 8.5				
1.5H	+ 4.2 / -11.2					+ 8.8 / - 8.6				
2.0H	+ 6.8 / - 8.7					+ 4.4 / - 1.0				

CIE Pub.117, 3397 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 4.2$ )  
Area: 0.005904 m2

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C Interval: 30.0DEG  
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Humidity:65.0%  
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### UTILIZATION FACTORS TABLE

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SPEC.:3000K	DIM.:	SERIAL No.:2301120042
MFR.: RISE	SUR.:0.005904m2	Shielding Angle:

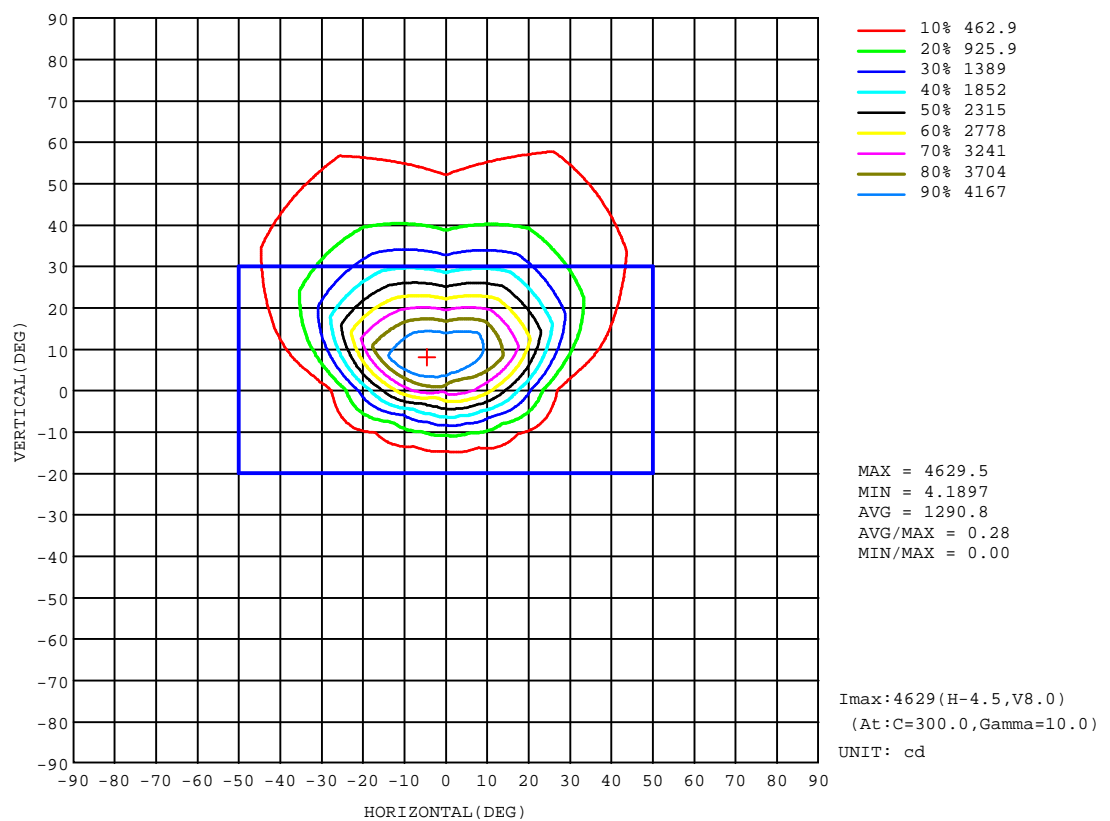
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	62	54	50	61	54	50	60	54	50	46
0.80	68	61	57	68	61	57	67	61	57	52
1.00	73	67	62	72	66	62	71	67	61	57
1.25	78	71	67	77	71	67	75	70	66	61
1.50	81	75	70	79	74	70	77	73	69	64
2.00	84	79	75	83	78	74	80	76	73	68
2.50	86	82	78	85	80	77	82	78	75	69
3.00	88	84	80	87	83	80	84	80	78	71
4.00	91	87	84	89	86	83	86	83	81	74
5.00	92	89	87	90	88	85	87	85	83	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.:2301120042
MFR.: RISE	SUR.:0.005904m2	Shielding Angle:

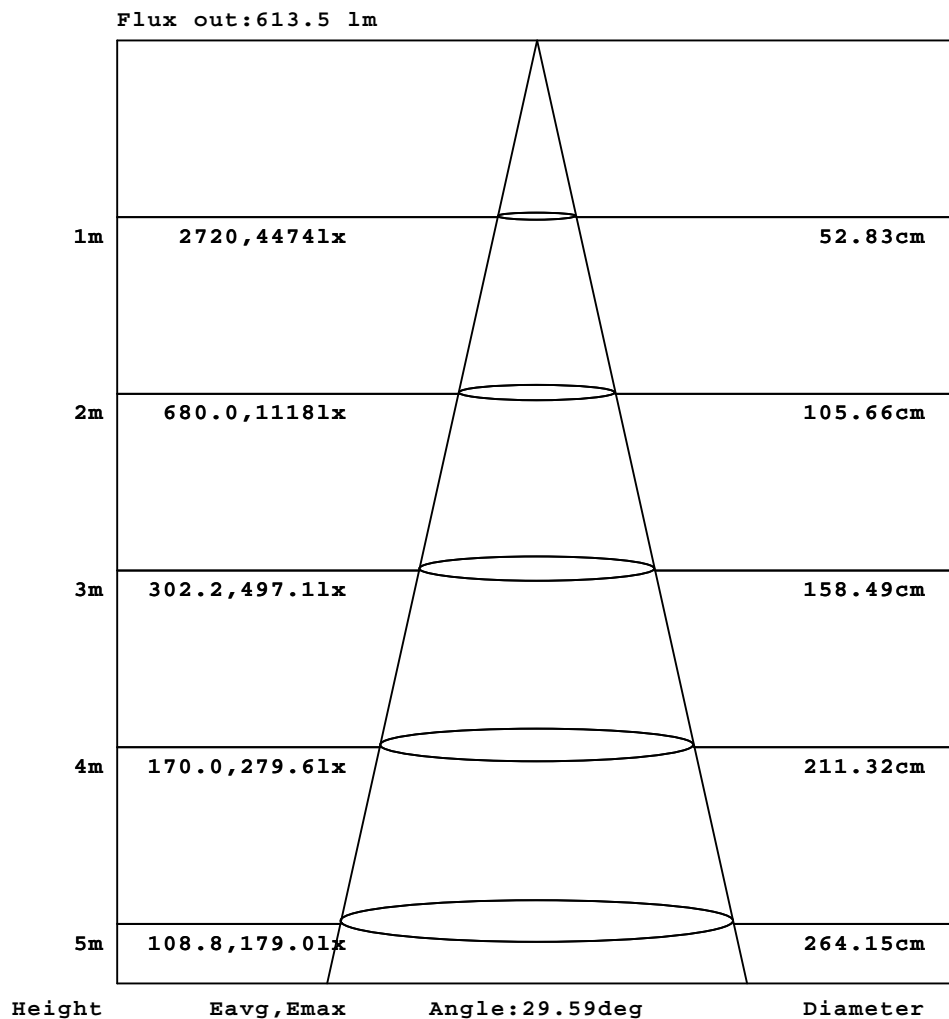


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## AAI Figure

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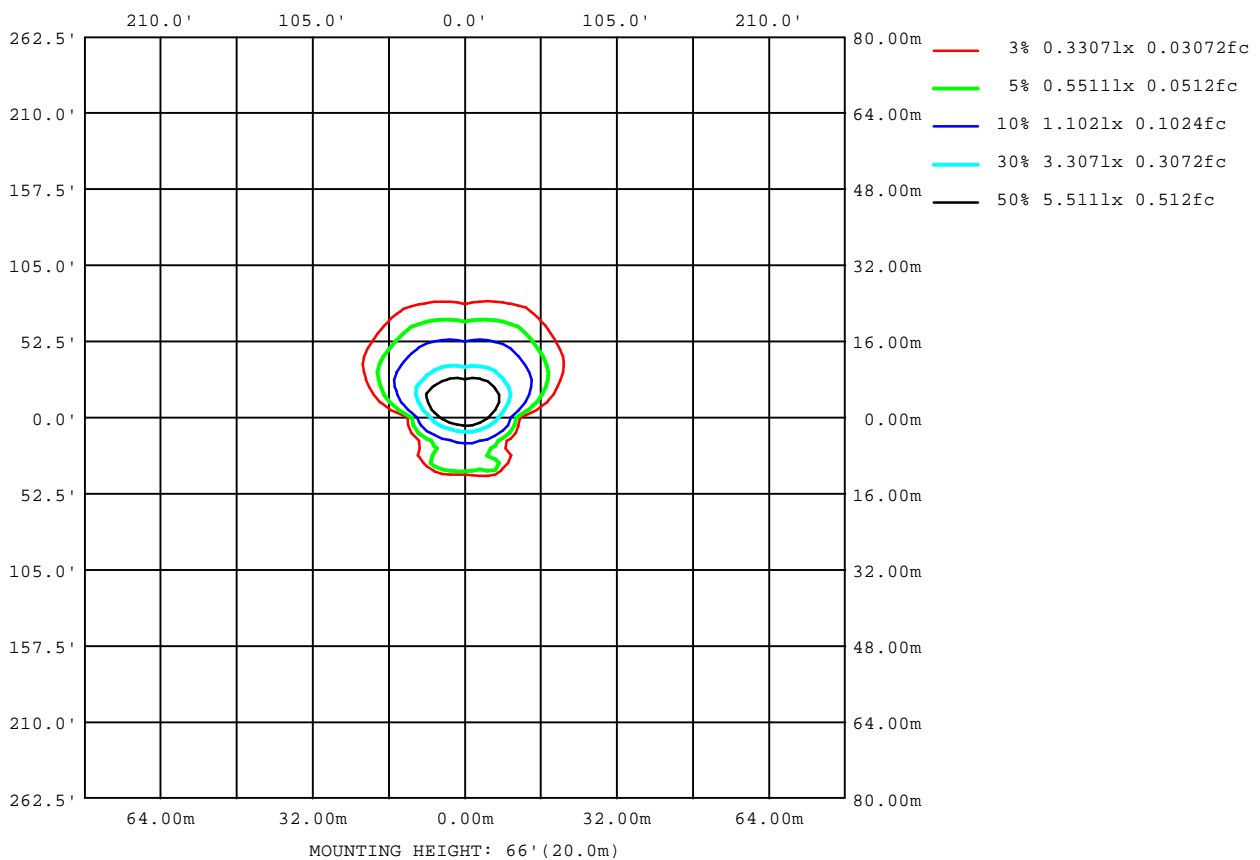
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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30minutes warm-up

## ISOLUX DIAGRAM

Test:U:220.23V I:0.1664A P:35.283W PF:0.9600 Freq:49.99Hz Lamp Flux:3396.9x1 lm		
NAME: 2214.429A	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2301120042
MFR.: RISE	SUR.:0.005904m2	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Zoe  
Test Date:2023-1-12

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:CLU028-1204C4-303H5M3-F1 Ra:90  
REFLECTOR:AP-060C-WW  
DRIVER:9290 028 091 900mA  
30minutes warm-up

## LED Avg.L Report

Test:U:220.23V I:0.1664A P:35.283W PF:0.9600 Freq:49.99Hz Lamp Flux:3396.9x1 lm		
NAME: 2214.429A	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2301120042
MFR.: RISE	SUR.:0.005904m2	Shielding Angle:

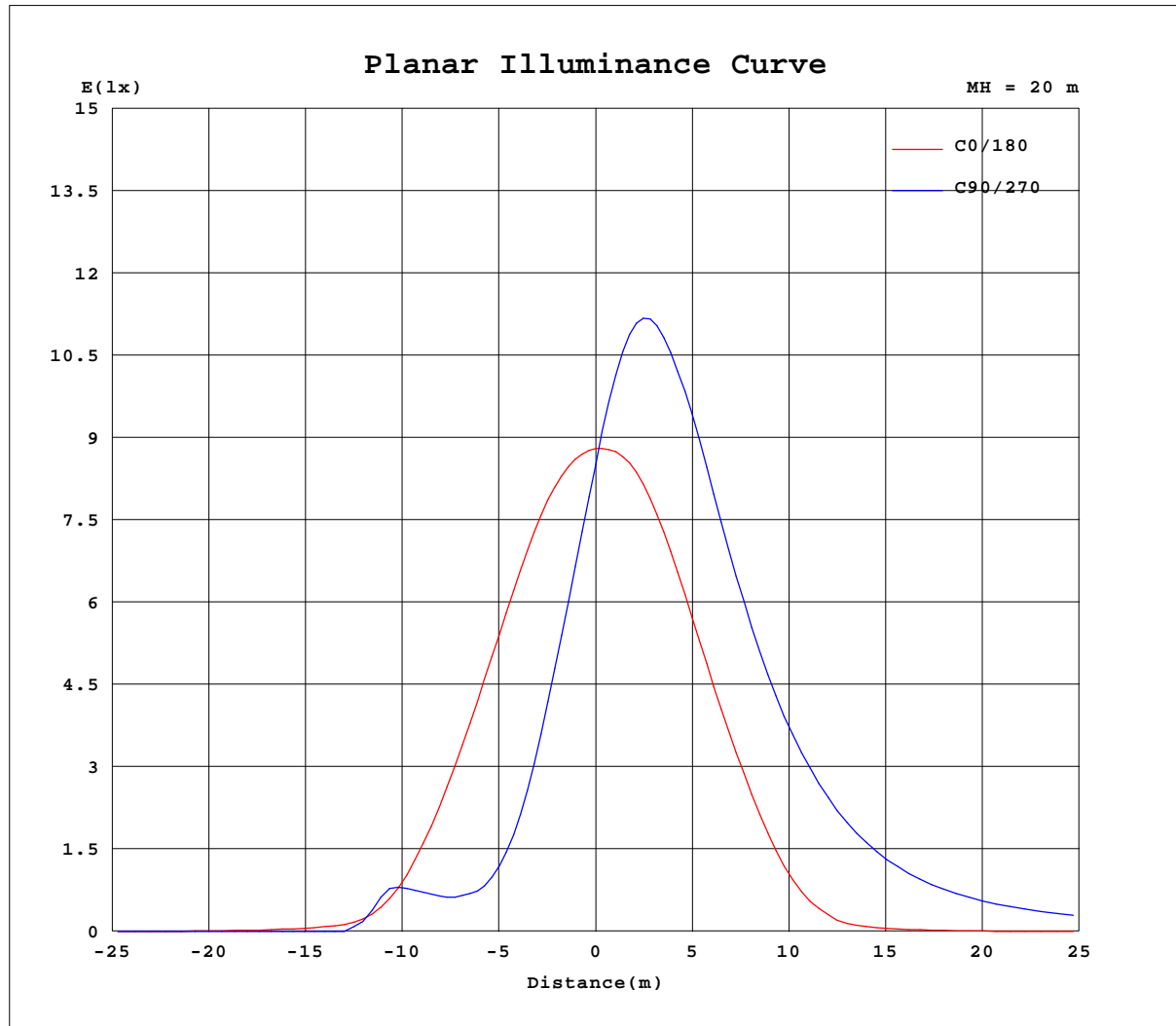
AvgL	cd/m2
L_0~180(65)av	1495
L_0~180(75)av	1886
L_0~180(85)av	2943
L_90~270(65)av	60258
L_90~270(75)av	71072
L_90~270(85)av	121223
L_45(65)av	79805
L_45(75)av	104378
L_45(85)av	222423

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:Zoe  
Test Date:2023-1-12

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:CLU028-1204C4-303H5M3-F1 Ra:90  
REFLECTOR:AP-060C-WW  
DRIVER:9290 028 091 900mA  
30minutes warm-up

## Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: Zoe  
 Test Date: 2023-1-12

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: CLU028-1204C4-303H5M3-F1 Ra:90  
 REFLECTOR: AP-060C-WW  
 DRIVER: 9290 028 091 900mA  
 30minutes warm-up



## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.23V I:0.1664A P:35.283W PF:0.9600 Freq:49.99Hz Lamp Flux:3396.9x1 lm		
NAME: 2214.429A	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2301120042
MFR.: RISE	SUR.:0.005904m2	Shielding Angle:

Table--1

UNIT: cd

C(°) g (°)	0	30	60	90	120	150	180	210	240	270	300	330						
0	3400	3400	3400	3400	3400	3400	3400	3400	3400	3400	3400	3400						
5	3246	2673	2288	2176	2289	2697	3337	3911	4266	4389	4318	3881						
10	2807	1783	1213	1074	1209	1795	2945	4167	4526	4520	4691	4113						
15	2146	999	525	441	522	990	2277	4104	4187	3974	4427	4004						
20	1407	472	291	302	319	472	1519	3666	3489	3113	3707	3497						
25	686	200	290	405	345	233	771	2955	2759	2304	2913	2751						
30	193	120	398	244	461	174	256	2174	2088	1656	2191	1980						
35	66.2	138	128	2.94	77.0	215	66.3	1497	1540	1178	1607	1355						
40	34.7	183	2.52	1.76	2.61	275	31.4	1020	1117	852	1164	947						
45	17.9	185	1.77	1.26	1.81	215	14.8	723	826	640	871	693						
50	8.83	62.2	1.10	0.66	1.02	4.28	7.97	544	648	501	695	549						
55	5.16	2.03	0.57	0.40	0.56	2.13	5.44	430	535	414	581	457						
60	4.00	1.41	0.32	0.13	0.29	1.38	4.33	346	457	351	498	392						
65	3.54	0.81	0.18	0.16	0.19	0.73	3.92	289	402	301	436	349						
70	3.28	0.43	0.27	0.24	0.28	0.48	3.67	250	361	258	388	321						
75	2.91	0.36	0.42	0.36	0.43	0.47	2.86	224	317	217	337	300						
80	2.46	0.49	0.66	0.52	0.66	0.65	2.34	208	254	169	268	290						
85	1.80	0.67	0.94	0.70	0.95	0.90	1.23	190	189	124	193	265						
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:2023-1-12

g Range: 0 - 180DEG  
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