

Luminaire Photograph



Light Output Ratio:	73.1%	
Luminaire Power:	28.65 W	
SHR Nominal:	0.75	Calculated using the TM5
SHR Maximum:	0.90	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2024-9-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
Remarks: LAMP: CLU038-1205C4-303H5M3-F1 CRI: 90
LENS: PM-1083C 50R
DRIVER: BK-PBL040E-A1000AS 700mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

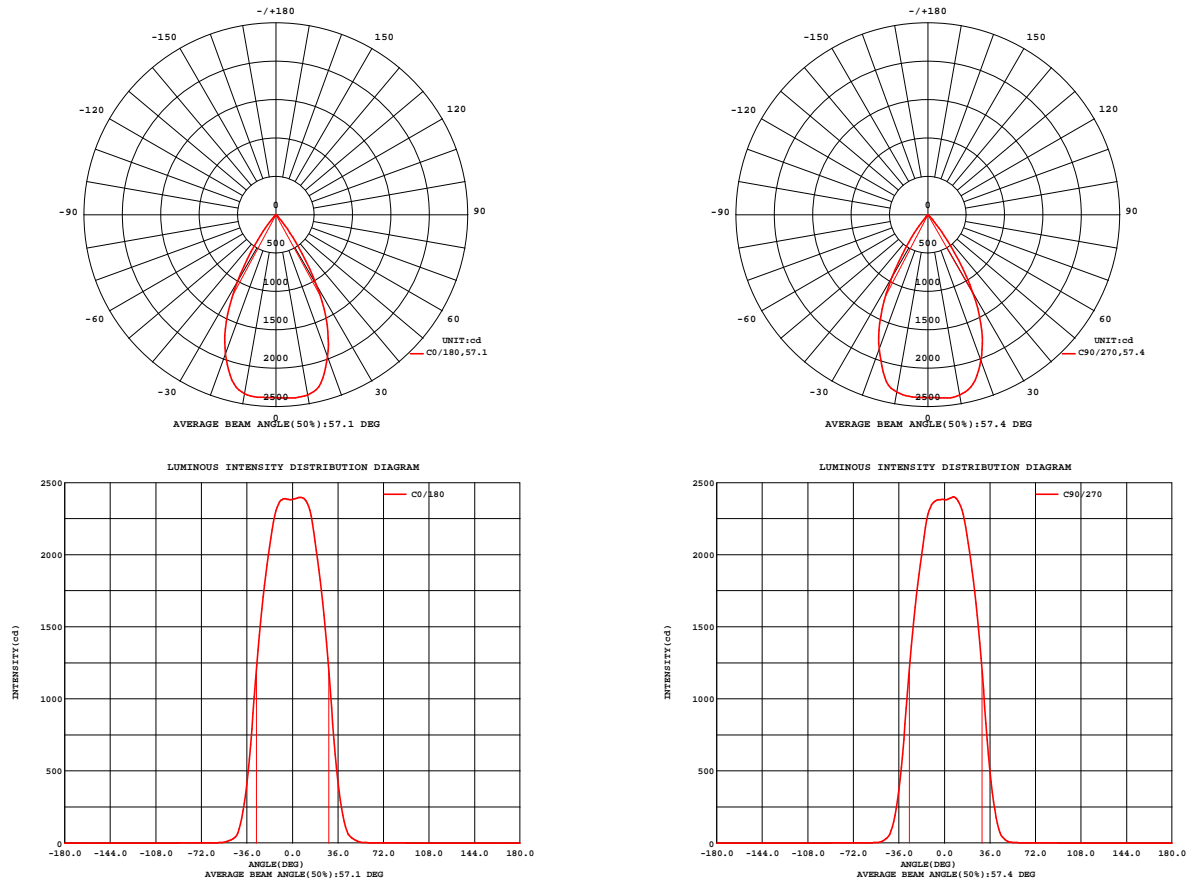


Fig. C0/C180

Fig. C90/C270

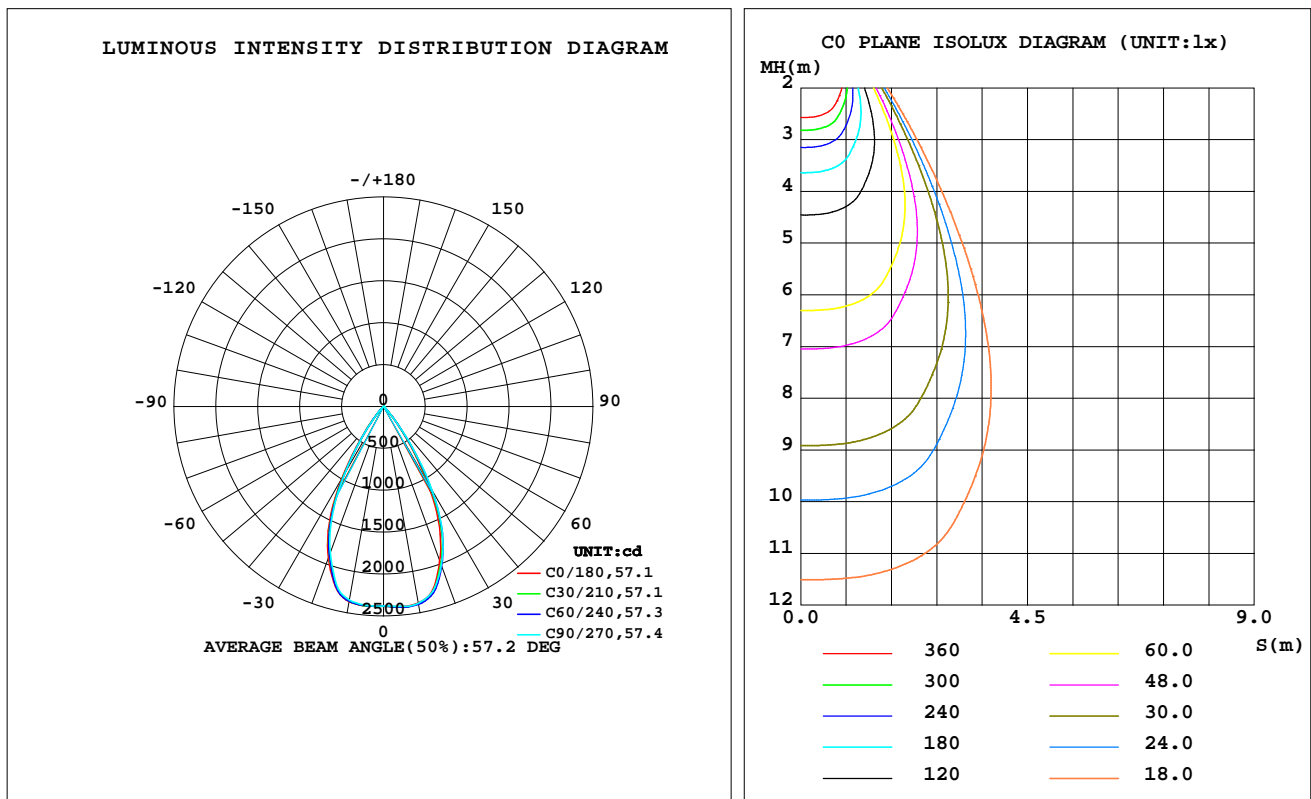
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.13V I:0.1332A P:28.651W PF:0.9750 Freq:49.99Hz Lamp Flux:2648.05x1 lm		
NAME: 2318.165-ACOT-72	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2409201205
MFR.: RISE	SUR.: 0.00607904m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 67.52 lm/W			
MODEL	CITIZEN	I _{max} (cd)	2409	S/MH(C0/180)	0.84
NOMINAL POWER(W)	28	LOR(%)	73.1	S/MH(C90/270)	0.82
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1934.6	η UP,DN(C0-180)	0.0,38.1
NOMINAL FLUX(lm)	2648.05	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,35.0
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	220.7	η down(%)	73.1	CIBSE SHR MAX	0.90



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30minutes warm-up

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	2382	2394	2384	2362	2365	2359	2345	2341	0- 10	227.4	227.4	11.8,8.59
20	1963	2017	2019	1965	1927	1892	1862	1879	10- 20	617.9	845.4	43.7,31.9
30	1055	1140	1175	1111	1013	962.0	935.3	975.5	20- 30	698.7	1544	79.8,58.3
40	191.2	220.9	230.9	210.1	171.2	153.8	148.2	163.0	30- 40	336.1	1880	97.2,71
50	19.76	17.99	11.74	16.50	16.38	11.76	8.163	13.62	40- 50	48.62	1929	99.7,72.8
60	2.109	1.993	1.704	1.935	1.997	1.711	1.476	1.782	50- 60	4.449	1933	99.9,73
70	0.5328	0.4164	0.3266	0.4237	0.5376	0.3786	0.3068	0.3822	60- 70	0.9980	1934	100,73
80	0.1775	0.1334	0.1237	0.1371	0.1779	0.1293	0.1212	0.1312	70- 80	0.2560	1934	100,73.1
90	0	0	0	0	0	0	0	0	80- 90	0.0706	1935	100,73.1
100	0	0	0	0	0	0	0	0	90-100	0	1935	100,73.1
110	0	0	0	0	0	0	0	0	100-110	0	1935	100,73.1
120	0	0	0	0	0	0	0	0	110-120	0	1935	100,73.1
130	0	0	0	0	0	0	0	0	120-130	0	1935	100,73.1
140	0	0	0	0	0	0	0	0	130-140	0	1935	100,73.1
150	0	0	0	0	0	0	0	0	140-150	0	1935	100,73.1
160	0	0	0	0	0	0	0	0	150-160	0	1935	100,73.1
170	0	0	0	0	0	0	0	0	160-170	0	1935	100,73.1
180	0	0	0	0	0	0	0	0	170-180	0	1935	100,73.1
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
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LENS:PM-1083C 50R
DRIVER:BK-PBL040E-A1000AS 700mA
30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:220.13V I:0.1332A P:28.651W PF:0.9750 Freq:49.99Hz
Lamp Flux:2648.05x1 lm

NAME: 2318.165-ACOT-72

TYPE:

WEIGHT:

SPEC.: 3000K

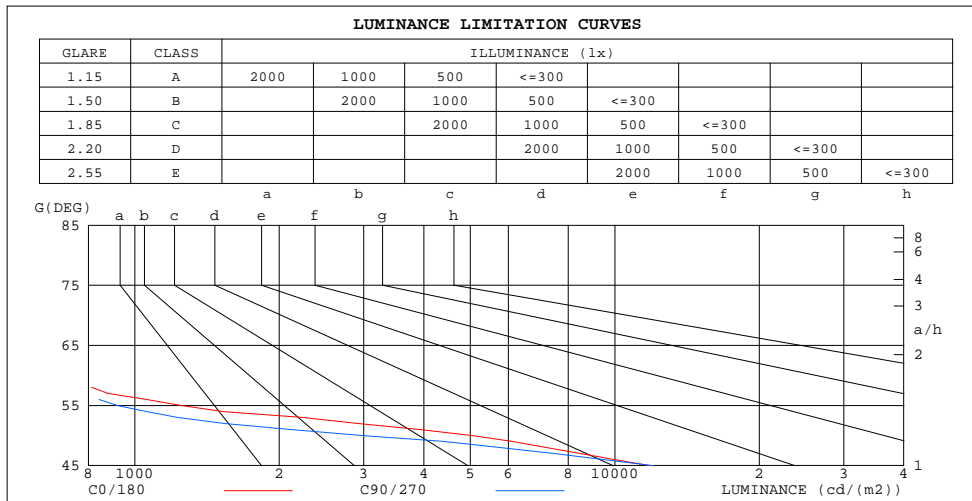
DIM.:

SERIAL No.: 2409201205

MFR.: RISE

SUR.: 0.00607904m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	G(270)	LUMINANCE
85	181	105
80	168	117
75	175	140
70	256	157
65	457	311
60	694	561
55	1252	920
50	5057	3005
45	11882	12046

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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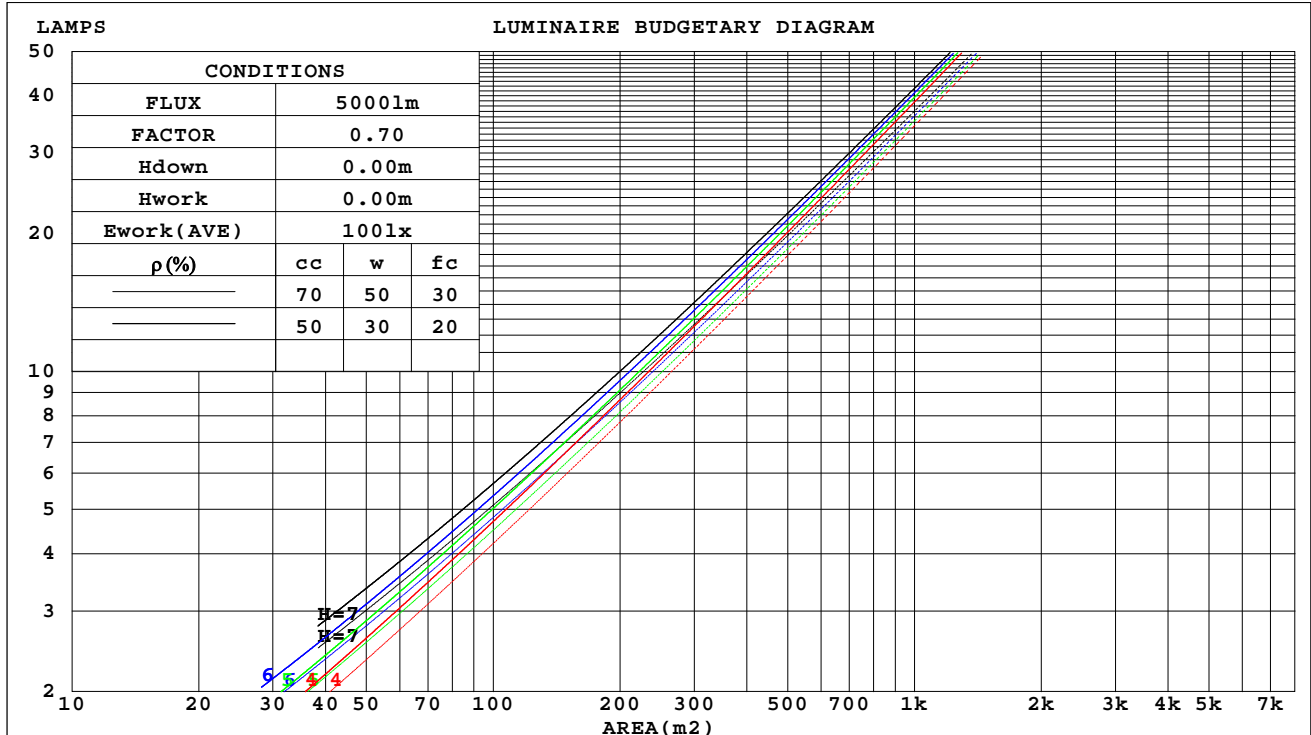
SERIAL No.: 2409201205

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SUR.: 0.00607904m2

Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	.87	.87	.87	.85	.85	.85	.81	.81	.81	.78	.78	.78	.75	.75	.75	.73
1.0	.81	.80	.78	.80	.78	.77	.77	.76	.74	.74	.73	.72	.72	.71	.70	.69
2.0	.76	.73	.71	.75	.72	.70	.72	.70	.69	.70	.69	.67	.68	.67	.66	.65
3.0	.71	.68	.65	.70	.67	.65	.68	.66	.64	.67	.65	.63	.65	.63	.62	.61
4.0	.67	.63	.60	.66	.63	.60	.65	.62	.59	.63	.61	.59	.62	.60	.58	.57
5.0	.63	.59	.56	.62	.59	.56	.61	.58	.55	.60	.57	.55	.59	.56	.55	.54
6.0	.60	.55	.53	.59	.55	.52	.58	.55	.52	.57	.54	.52	.56	.53	.51	.50
7.0	.56	.52	.49	.56	.52	.49	.55	.51	.49	.54	.51	.49	.53	.51	.48	.47
8.0	.53	.49	.46	.53	.49	.46	.52	.49	.46	.51	.48	.46	.51	.48	.46	.45
9.0	.51	.46	.44	.50	.46	.44	.50	.46	.44	.49	.46	.43	.48	.45	.43	.42
10.0	.48	.44	.41	.48	.44	.41	.47	.44	.41	.47	.43	.41	.46	.43	.41	.40



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WEC AND CCEC

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NAME: 2318.165-ACOT-72	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2409201205
MFR.: RISE	SUR.: 0.00607904m2	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)									
0.0																
1.0	.123	.070	.022	.118	.067	.021	.109	.062	.020	.101	.058	.019	.093	.054	.017	
2.0	.117	.064	.020	.113	.062	.019	.105	.059	.018	.098	.055	.017	.092	.052	.016	
3.0	.112	.059	.018	.108	.058	.017	.102	.055	.017	.096	.052	.016	.090	.050	.015	
4.0	.106	.055	.016	.103	.054	.016	.098	.052	.015	.093	.050	.015	.088	.048	.015	
5.0	.101	.052	.015	.099	.051	.015	.094	.049	.014	.089	.047	.014	.085	.046	.014	
6.0	.097	.049	.014	.095	.048	.014	.091	.046	.013	.087	.045	.013	.083	.044	.013	
7.0	.093	.046	.013	.091	.045	.013	.087	.044	.013	.084	.043	.012	.080	.042	.012	
8.0	.089	.044	.012	.087	.043	.012	.084	.042	.012	.081	.041	.012	.078	.040	.012	
9.0	.086	.041	.012	.084	.041	.011	.081	.040	.011	.078	.039	.011	.076	.038	.011	
10.0	.082	.040	.011	.081	.039	.011	.078	.038	.011	.076	.038	.011	.073	.037	.011	

pcc	80%			70%			50%			30%			10%			0	
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
pfc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)										
0.0	.139	.139	.139	.119	.119	.119	.081	.081	.081	.047	.047	.047	.015	.015	.015		
1.0	.125	.115	.106	.107	.099	.092	.073	.068	.063	.042	.039	.037	.013	.013	.012		
2.0	.113	.097	.083	.097	.083	.072	.066	.058	.050	.038	.034	.029	.012	.011	.010		
3.0	.104	.083	.066	.089	.072	.058	.061	.050	.040	.035	.029	.024	.011	.009	.008		
4.0	.096	.072	.054	.082	.062	.047	.057	.043	.033	.033	.025	.020	.011	.008	.006		
5.0	.089	.064	.044	.077	.055	.039	.053	.038	.027	.031	.023	.016	.010	.007	.005		
6.0	.084	.057	.037	.072	.049	.032	.050	.034	.023	.029	.020	.014	.009	.007	.004		
7.0	.079	.051	.031	.068	.044	.027	.047	.031	.019	.027	.018	.012	.009	.006	.004		
8.0	.075	.047	.027	.065	.040	.023	.045	.028	.017	.026	.017	.010	.008	.005	.003		
9.0	.071	.043	.023	.061	.037	.020	.043	.026	.014	.025	.015	.009	.008	.005	.003		
10.0	.068	.039	.020	.059	.034	.018	.041	.024	.013	.024	.014	.008	.008	.005	.003		

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UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2409201205		
MFR.: RISE					SUR.: 0.00607904m2			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	15.8	16.7	16.0	16.8	17.0	16.4	17.3	16.6	17.4	17.6
3H	15.6	16.4	15.8	16.6	16.8	16.2	17.0	16.5	17.2	17.4
4H	15.5	16.3	15.8	16.5	16.7	16.1	16.9	16.4	17.1	17.3
6H	15.4	16.1	15.7	16.4	16.6	16.0	16.8	16.3	17.0	17.2
8H	15.4	16.1	15.7	16.3	16.6	16.0	16.7	16.3	16.9	17.2
12H	15.3	16.0	15.6	16.3	16.5	15.9	16.6	16.3	16.9	17.2
4H 2H	15.5	16.3	15.8	16.5	16.7	16.1	16.9	16.4	17.1	17.3
3H	15.3	16.0	15.6	16.3	16.5	15.9	16.6	16.3	16.9	17.2
4H	15.2	15.8	15.6	16.1	16.4	15.9	16.5	16.2	16.8	17.1
6H	15.1	15.7	15.5	16.0	16.3	15.8	16.3	16.1	16.6	17.0
8H	15.1	15.6	15.5	15.9	16.3	15.7	16.2	16.1	16.5	16.9
12H	15.0	15.5	15.4	15.9	16.2	15.7	16.1	16.1	16.5	16.9
8H 4H	15.1	15.6	15.5	15.9	16.3	15.7	16.2	16.1	16.5	16.9
6H	15.0	15.4	15.4	15.8	16.2	15.6	16.0	16.0	16.4	16.8
8H	14.9	15.3	15.4	15.7	16.1	15.5	15.9	16.0	16.3	16.8
12H	14.9	15.2	15.3	15.6	16.1	15.5	15.8	16.0	16.2	16.7
12H 4H	15.0	15.5	15.4	15.9	16.2	15.7	16.1	16.1	16.5	16.9
6H	14.9	15.3	15.4	15.7	16.1	15.5	15.9	16.0	16.3	16.8
8H	14.9	15.2	15.3	15.6	16.1	15.5	15.8	16.0	16.2	16.7
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 3.8 / -21.2					+ 4.1 / -23.1				
1.5H	+ 6.4 / -17.9					+ 6.8 / -20.2				
2.0H	+ 7.0 / -11.7					+ 7.9 / -12.6				

CIE Pub.117, 2648 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.4)
Area: 0.00607904 m2

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UTILIZATION FACTORS TABLE

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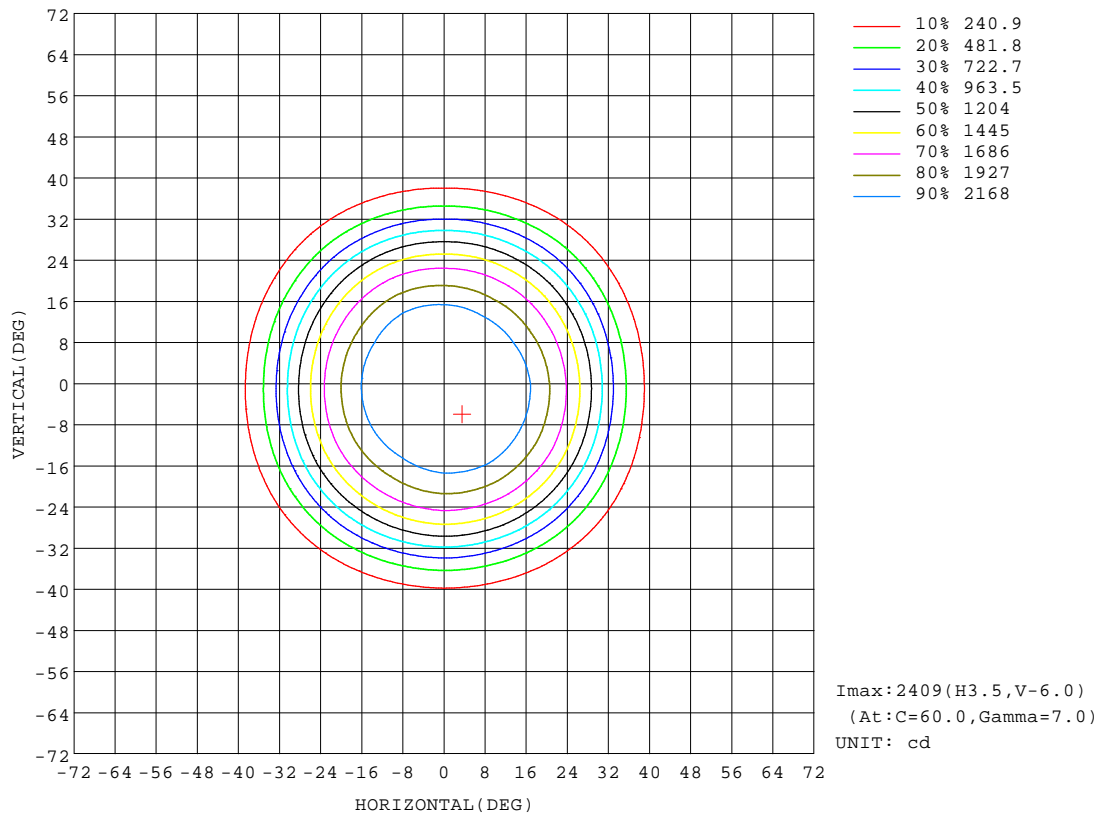
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	66	61	59	65	61	59	65	61	59	56
0.80	71	67	64	70	67	64	70	66	64	62
1.00	74	70	68	73	70	67	72	69	67	64
1.25	76	73	71	76	73	70	74	72	70	67
1.50	78	75	73	77	75	73	76	74	72	69
2.00	80	77	75	79	76	74	77	75	73	70
2.50	81	79	77	80	78	76	78	76	74	70
3.00	82	80	78	81	79	77	78	77	76	71
4.00	84	82	80	82	80	79	79	78	77	72
5.00	84	83	82	83	82	80	80	79	78	73
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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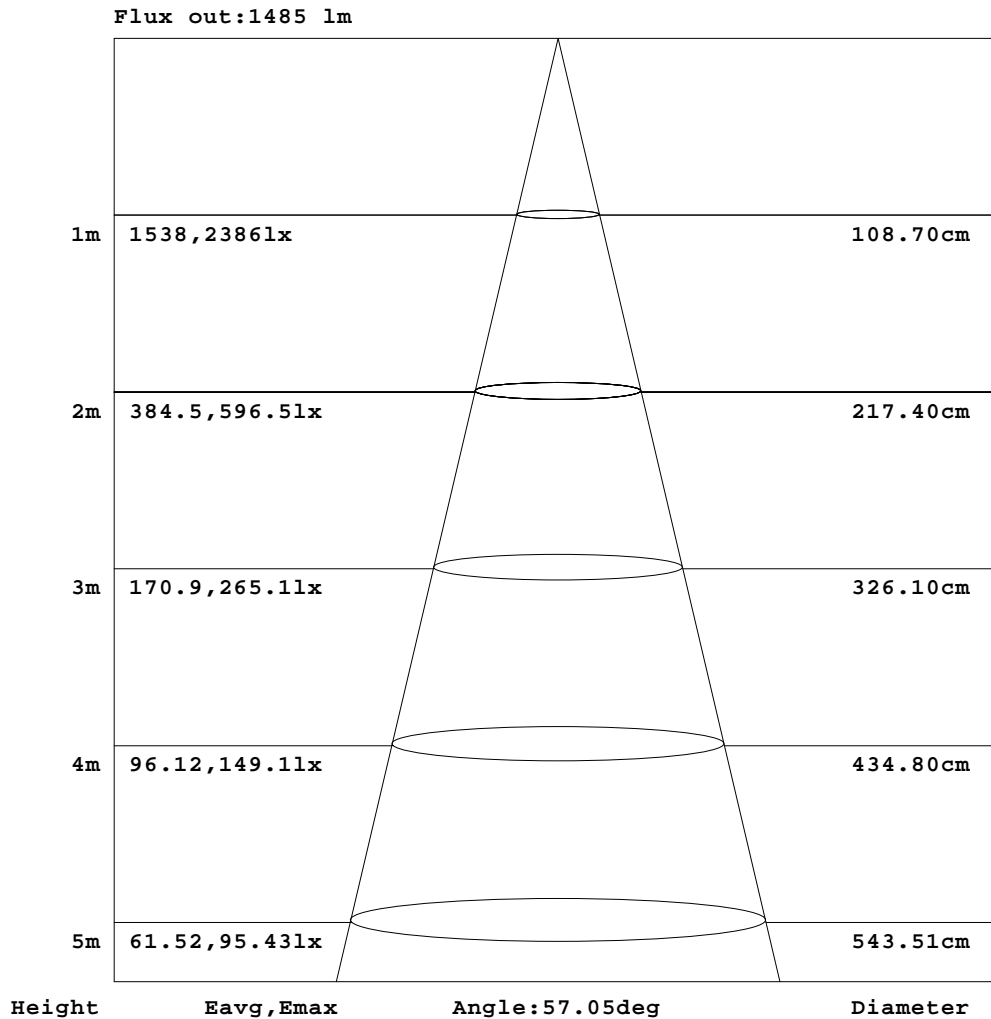


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Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CLU038-1205C4-303H5M3-F1 CRI:90
LENS:PM-1083C 50R
DRIVER:BK-PBL040E-A1000AS 700mA
30minutes warm-up

AAI Figure

Test:U:220.13V I:0.1332A P:28.651W PF:0.9750 Freq:49.99Hz Lamp Flux:2648.05x1 lm		
NAME: 2318.165-ACOT-72	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2409201205
MFR.: RISE	SUR.: 0.00607904m2	Shielding Angle:



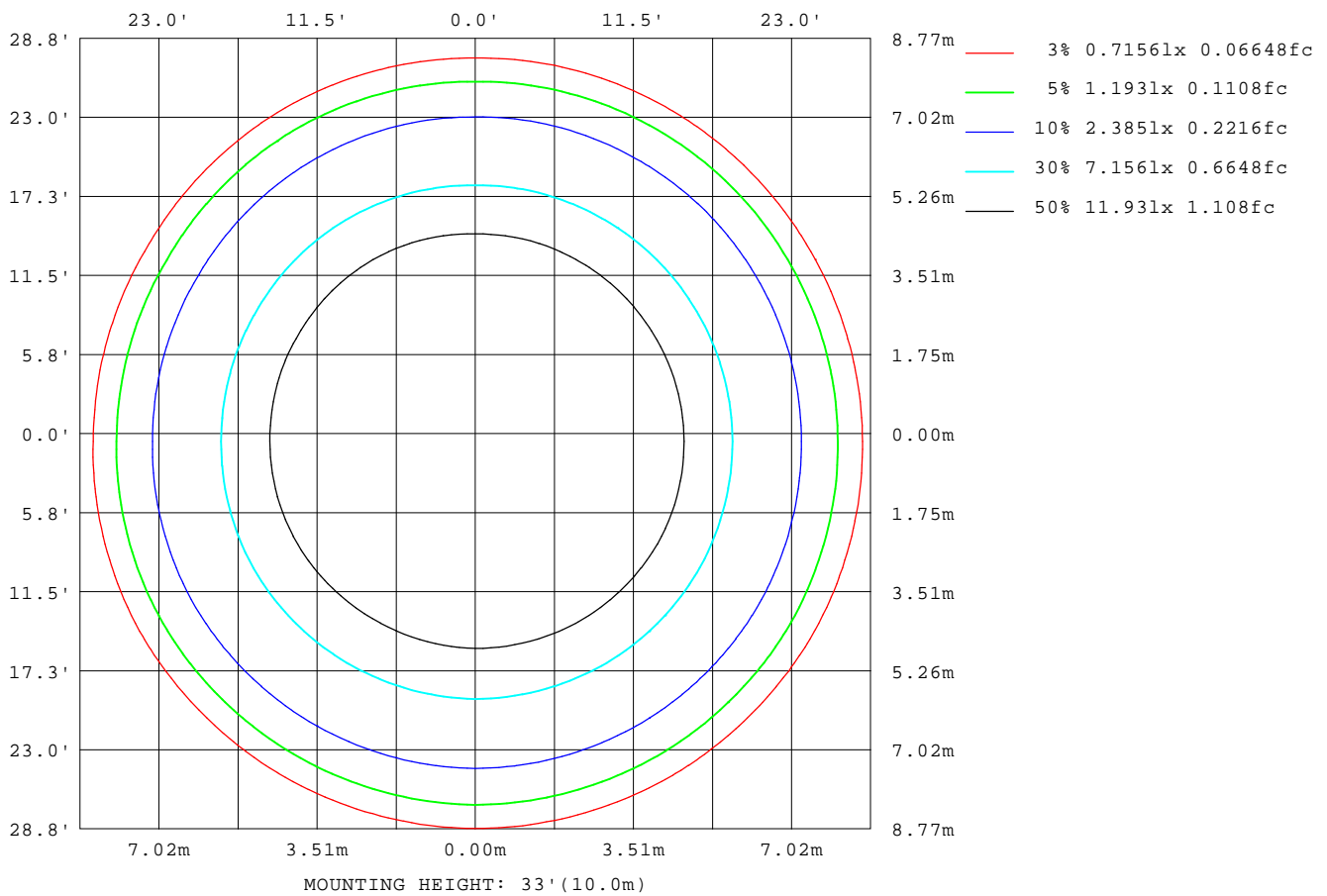
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-9-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CLU038-1205C4-303H5M3-F1 CRI:90
LENS:PM-1083C 50R
DRIVER:BK-PBL040E-A1000AS 700mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:220.13V I:0.1332A P:28.651W PF:0.9750 Freq:49.99Hz Lamp Flux:2648.05x1 lm		
NAME: 2318.165-ACOT-72	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2409201205
MFR.: RISE	SUR.: 0.00607904m2	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2024-9-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
Remarks: LAMP: CLU038-1205C4-303H5M3-F1 CRI: 90
LENS: PM-1083C 50R
DRIVER: BK-PBL040E-A1000AS 700mA
30minutes warm-up

LED Avg.L Report

Test:U:220.13V I:0.1332A P:28.651W PF:0.9750 Freq:49.99Hz Lamp Flux:2648.05x1 lm		
NAME: 2318.165-ACOT-72	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2409201205
MFR.: RISE	SUR.: 0.00607904m2	Shielding Angle:

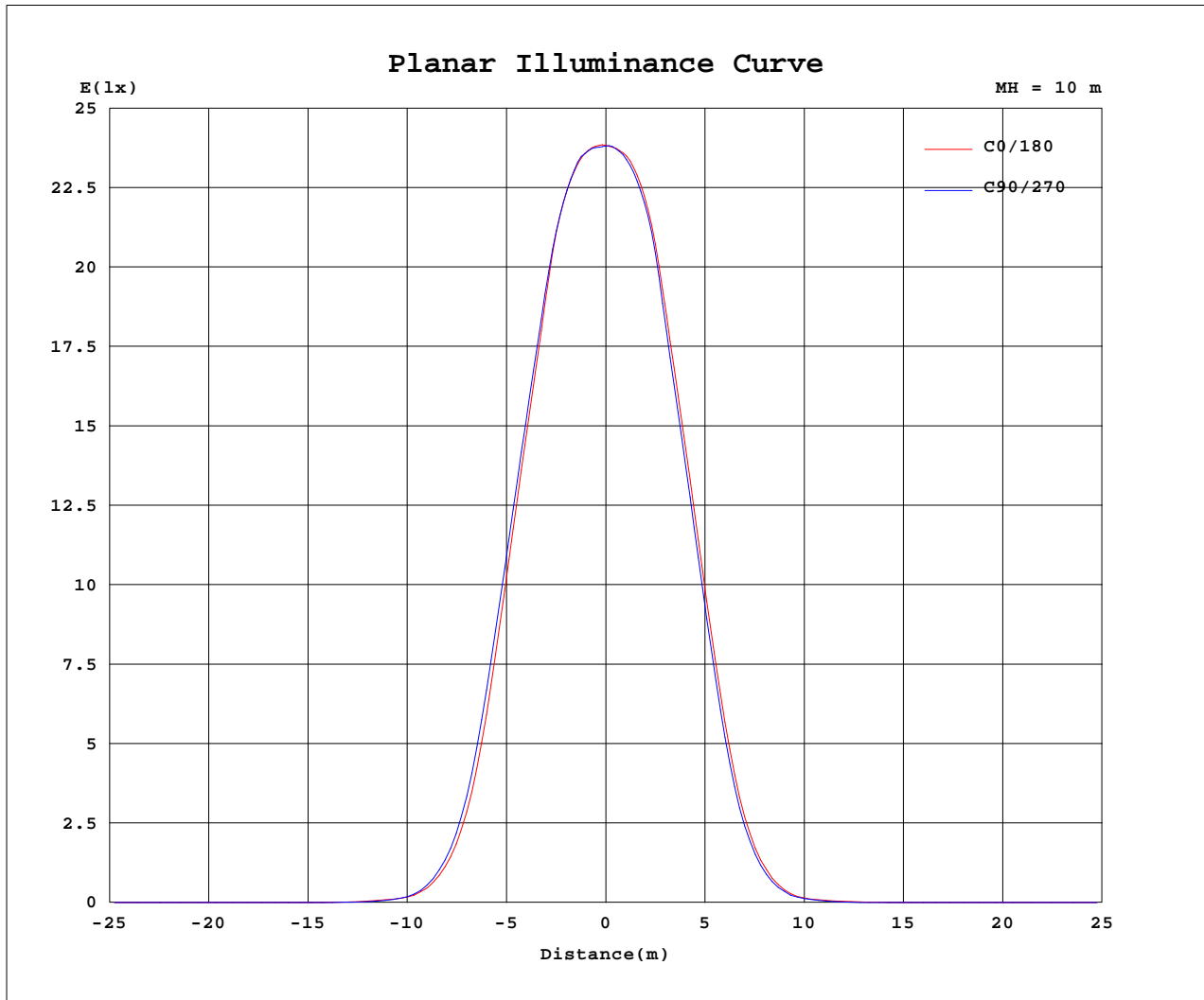
AvgL	cd/m2
L_0~180(65)av	453
L_0~180(75)av	174
L_0~180(85)av	178
L_90~270(65)av	290
L_90~270(75)av	136
L_90~270(85)av	100
L_45(65)av	378
L_45(75)av	143
L_45(85)av	88

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2024-9-20

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CLU038-1205C4-303H5M3-F1 CRI:90
LENS:PM-1083C 50R
DRIVER:BK-PBL040E-A1000AS 700mA
30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: zoe
 Test Date: 2024-9-20

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
 Humidity: 65.0%
 Test Distance: 3.160m [K=1.0000]
 Remarks: LAMP: CLU038-1205C4-303H5M3-F1 CRI: 90
 LENS: PM-1083C 50R
 DRIVER: BK-PBL040E-A1000AS 700mA
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.13V I:0.1332A P:28.651W PF:0.9750 Freq:49.99Hz Lamp Flux:2648.05x1 lm		
NAME: 2318.165-ACOT-72	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2409201205
MFR.: RISE	SUR.: 0.00607904m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	2383	2383	2382	2382	2380	2380	2383	2383	2382	2382	2380	2380						
5	2396	2403	2403	2393	2384	2384	2387	2389	2386	2381	2378	2384						
10	2382	2391	2397	2384	2361	2364	2365	2359	2359	2345	2333	2348						
15	2269	2284	2303	2282	2240	2236	2226	2203	2215	2189	2173	2205						
20	1963	2002	2031	2019	1973	1958	1927	1894	1890	1862	1861	1897						
25	1581	1641	1663	1664	1621	1588	1535	1498	1484	1459	1480	1519						
30	1055	1120	1160	1175	1135	1088	1013	970	954	935	954	997						
35	521	567	596	610	584	550	491	459	450	440	454	483						
40	191	217	224	231	216	204	171	154	153	148	157	169						
45	51.1	55.7	54.2	51.8	51.7	49.1	41.0	37.4	37.4	37.7	41.4	45.2						
50	19.8	22.1	13.9	11.7	13.7	19.3	16.4	14.6	8.92	8.16	10.6	16.6						
55	4.37	4.61	3.41	3.21	3.29	4.34	3.97	3.67	2.65	2.56	2.78	3.76						
60	2.11	2.16	1.83	1.70	1.79	2.08	2.00	1.86	1.57	1.48	1.63	1.93						
65	1.17	1.16	0.87	0.80	0.89	1.16	1.16	1.04	0.76	0.69	0.81	1.07						
70	0.53	0.51	0.32	0.33	0.32	0.53	0.54	0.45	0.30	0.31	0.30	0.46						
75	0.27	0.24	0.22	0.22	0.22	0.25	0.27	0.24	0.21	0.21	0.21	0.24						
80	0.18	0.14	0.12	0.12	0.12	0.15	0.18	0.14	0.12	0.12	0.12	0.15						
85	0.10	0.06	0.05	0.06	0.03	0.06	0.09	0.06	0.04	0.05	0.04	0.06						
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
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Operators:zoe
Test Date:2024-9-20

γ Range: 0 - 180DEG
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