

Luminaire Photograph



Light Output Ratio:	59.0%	
Luminaire Power:	28.57 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	0.30	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

Range: 0 - 180DEG
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-1083 15R
DRIVER: BK-PBL040E-A1000AS 700mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

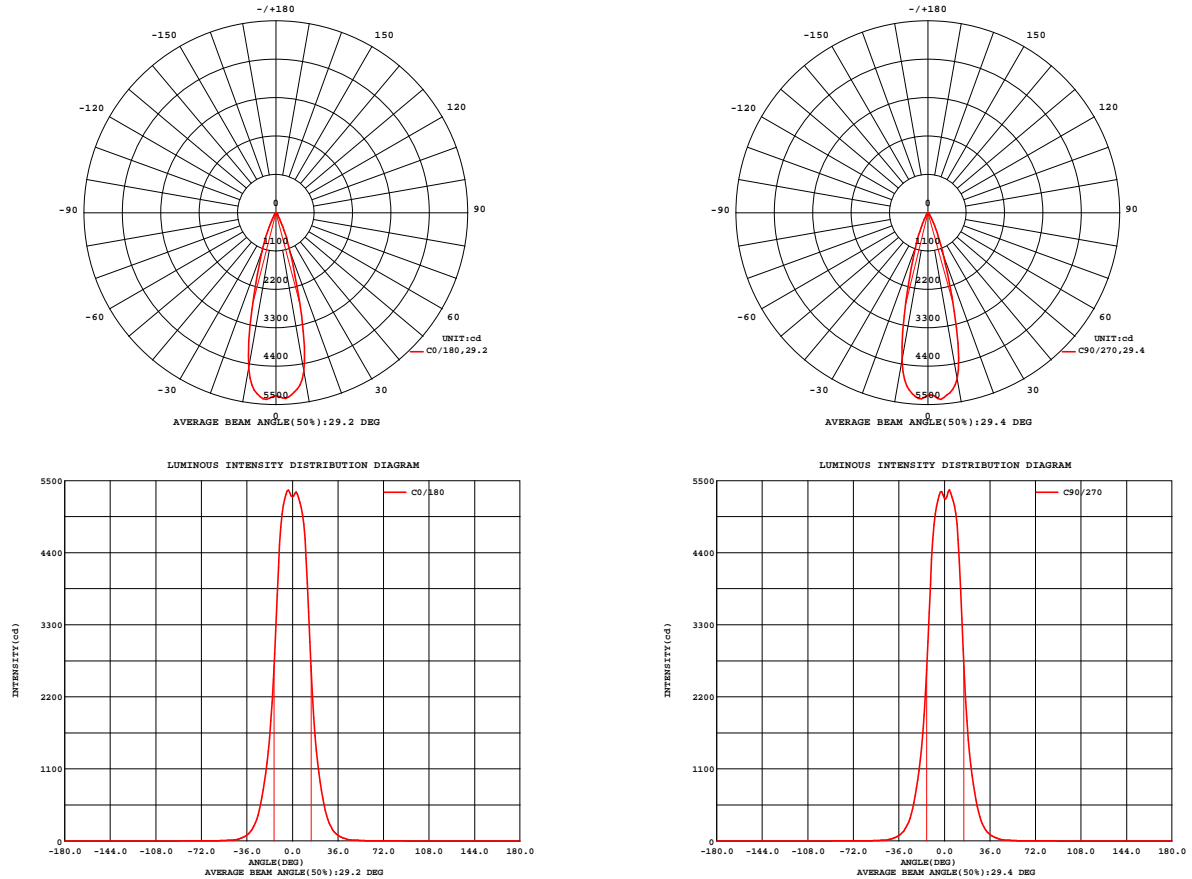


Fig. C0/C180

Fig. C90/C270

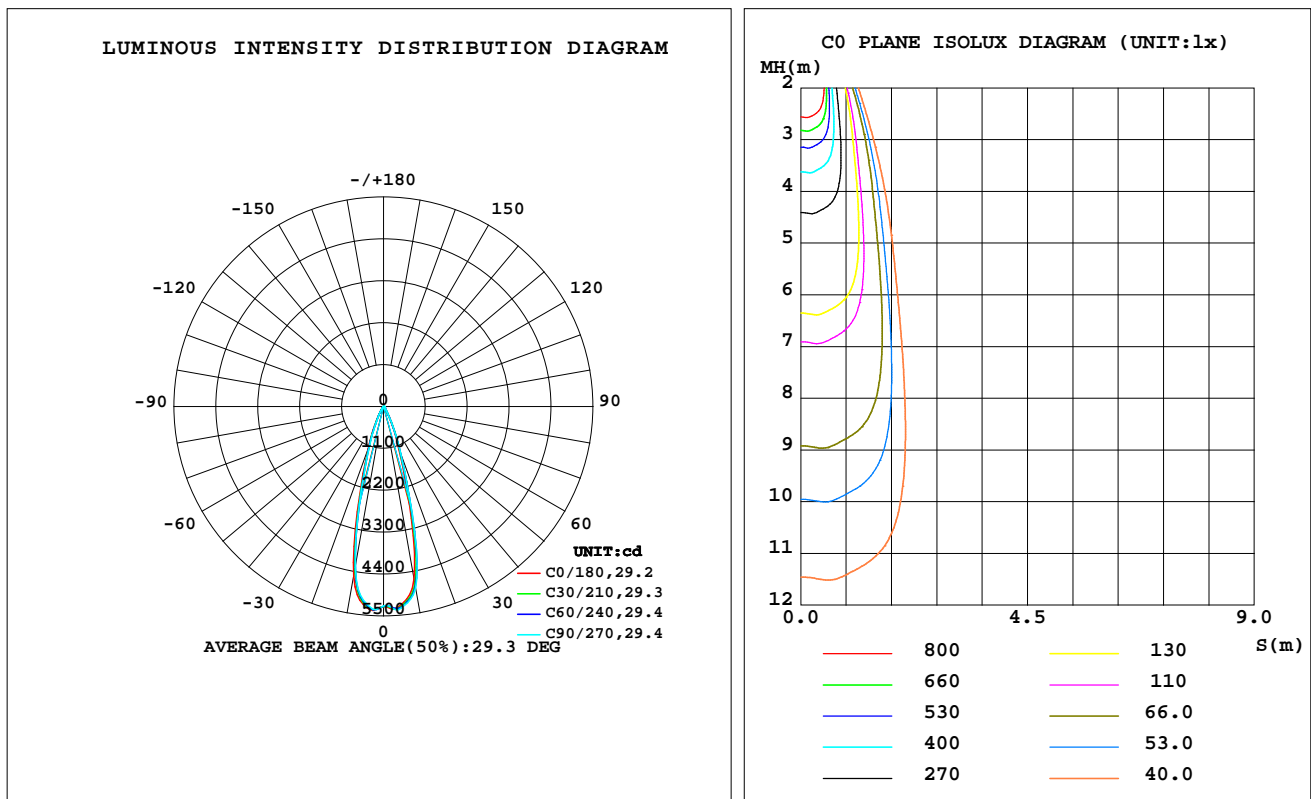
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2024-9-20

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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.09V I:0.1329A P:28.574W PF:0.9746 Freq:49.99Hz Lamp Flux:2648.05x1 lm		
NAME: 2318.165-ACOT-72	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2409201202
MFR.: RISE	SUR.: 0.00607904m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 54.63 lm/W			
MODEL	CITIZEN	I _{max} (cd)	5361	S/MH(C0/180)	0.46
NOMINAL POWER(W)	28	LOR(%)	59.0	S/MH(C90/270)	0.45
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1561.1	UP,DN(C0-180)	0.0,31.1
NOMINAL FLUX(lm)	2648.05	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,27.9
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	220.7	down(%)	59.0	CIBSE SHR MAX	0.30



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30minutes warm-up

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	4613	4779	4839	4738	4525	4330	4296	4432	0- 10	481.8	481.8	30.9,18.2
20	1202	1313	1329	1251	1191	1119	1072	1098	10- 20	709.9	1192	76.3,45
30	235.1	261.8	263.4	250.2	237.8	225.8	212.7	217.1	20- 30	270.3	1462	93.7,55.2
40	47.97	54.49	54.74	51.07	47.76	45.81	44.04	44.49	30- 40	72.73	1535	98.3,58
50	11.49	12.40	11.87	11.05	10.98	10.48	10.25	11.34	40- 50	17.60	1552	99.4,58.6
60	3.837	4.035	4.027	4.055	3.810	3.565	3.523	3.583	50- 60	6.255	1559	99.8,58.9
70	0.7472	0.8611	0.8887	0.7809	0.6639	0.5711	0.5602	0.6109	60- 70	2.006	1561	100,58.9
80	0.2189	0.2095	0.2233	0.2063	0.2049	0.1771	0.1813	0.1797	70- 80	0.3652	1561	100,58.9
90	0	0	0	0	0	0	0	0	80- 90	0.1127	1561	100,59
100	0	0	0	0	0	0	0	0	90-100	0	1561	100,59
110	0	0	0	0	0	0	0	0	100-110	0	1561	100,59
120	0	0	0	0	0	0	0	0	110-120	0	1561	100,59
130	0	0	0	0	0	0	0	0	120-130	0	1561	100,59
140	0	0	0	0	0	0	0	0	130-140	0	1561	100,59
150	0	0	0	0	0	0	0	0	140-150	0	1561	100,59
160	0	0	0	0	0	0	0	0	150-160	0	1561	100,59
170	0	0	0	0	0	0	0	0	160-170	0	1561	100,59
180	0	0	0	0	0	0	0	0	170-180	0	1561	100,59
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:220.09V I:0.1329A P:28.574W PF:0.9746 Freq:49.99Hz
Lamp Flux:2648.05x1 lm

NAME: 2318.165-ACOT-72

TYPE:

WEIGHT:

SPEC.: 3000K

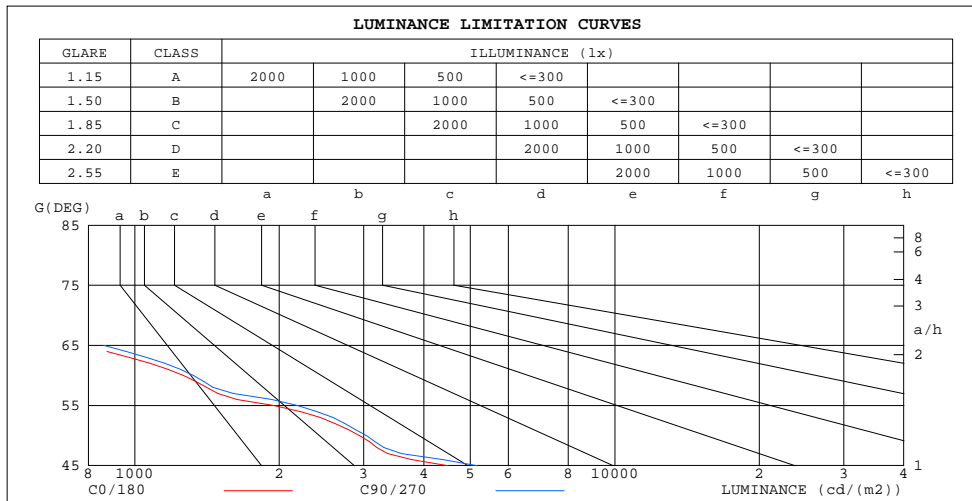
DIM.:

SERIAL No.: 2409201202

MFR.: RISE

SUR.: 0.00607904m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	230	239
80	207	212
75	208	216
70	359	427
65	777	862
60	1262	1325
55	1949	2186
50	2941	3038
45	4494	5170

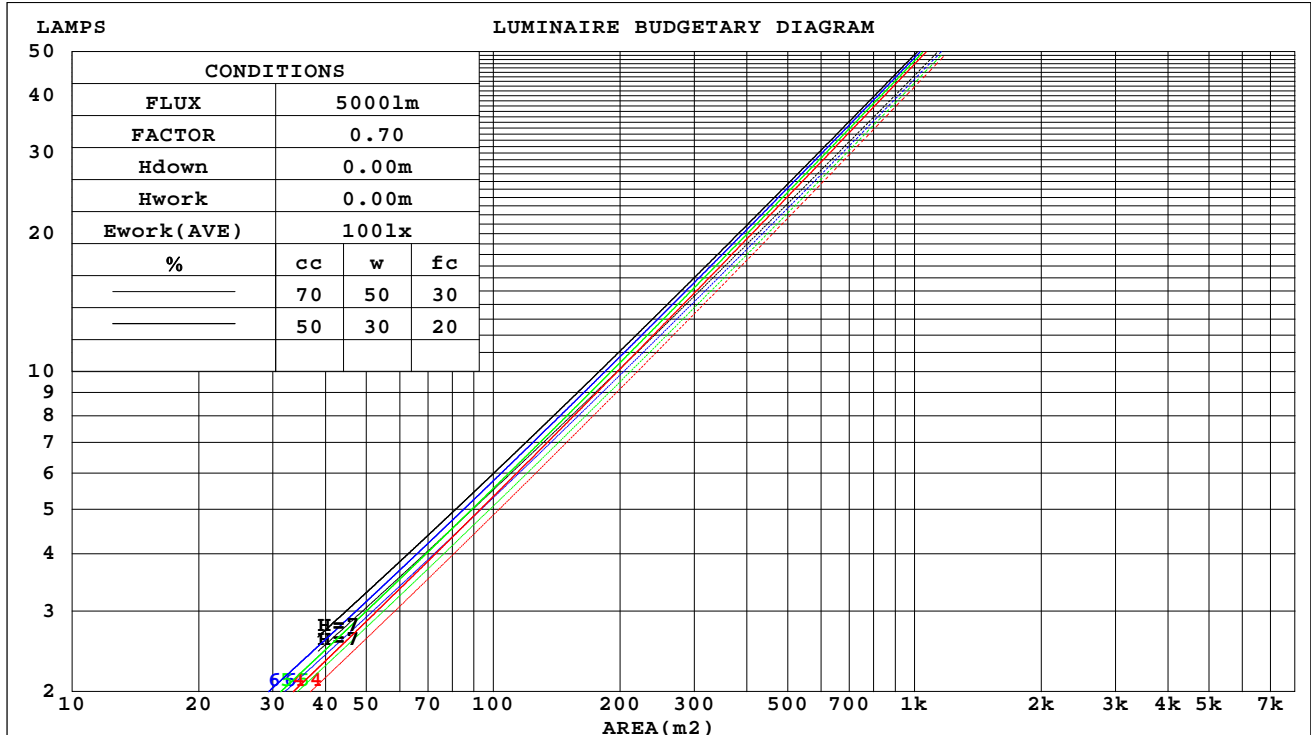
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	.70	.70	.70	.69	.69	.69	.66	.66	.66	.63	.63	.63	.60	.60	.60	.59
1.0	.66	.65	.64	.65	.64	.63	.63	.62	.61	.61	.60	.59	.59	.58	.58	.57
2.0	.63	.61	.60	.62	.61	.59	.60	.59	.58	.59	.58	.57	.57	.56	.56	.55
3.0	.60	.58	.56	.60	.58	.56	.58	.56	.55	.57	.55	.54	.55	.54	.53	.53
4.0	.58	.55	.54	.57	.55	.53	.56	.54	.53	.55	.53	.52	.54	.53	.51	.51
5.0	.56	.53	.51	.55	.53	.51	.54	.52	.51	.53	.51	.50	.52	.51	.50	.49
6.0	.53	.51	.49	.53	.51	.49	.52	.50	.49	.52	.50	.48	.51	.49	.48	.47
7.0	.52	.49	.47	.51	.49	.47	.51	.48	.47	.50	.48	.47	.49	.48	.46	.46
8.0	.50	.47	.46	.50	.47	.46	.49	.47	.45	.49	.47	.45	.48	.46	.45	.44
9.0	.48	.46	.44	.48	.46	.44	.48	.45	.44	.47	.45	.44	.47	.45	.44	.43
10.0	.47	.44	.43	.47	.44	.43	.46	.44	.43	.46	.44	.42	.45	.44	.42	.42



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30minutes warm-up



WEC AND CCEC

Test:U:220.09V I:0.1329A P:28.574W PF:0.9746 Freq:49.99Hz Lamp Flux:2648.05x1 lm		
NAME: 2318.165-ACOT-72	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2409201202
MFR.: RISE	SUR.: 0.00607904m2	Shielding Angle:

cc	80%			70%			50%			30%			10%			0	
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
fc	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.083	.047	.015	.079	.045	.014	.072	.041	.013	.065	.038	.012	.059	.034	.011		
2.0	.077	.042	.013	.074	.041	.013	.068	.038	.012	.063	.035	.011	.057	.032	.010		
3.0	.072	.039	.012	.070	.037	.011	.065	.035	.011	.060	.033	.010	.056	.031	.010		
4.0	.068	.035	.010	.066	.034	.010	.061	.033	.010	.058	.031	.009	.054	.029	.009		
5.0	.064	.033	.009	.062	.032	.009	.059	.031	.009	.055	.029	.009	.052	.028	.008		
6.0	.061	.031	.009	.059	.030	.009	.056	.029	.008	.053	.028	.008	.050	.027	.008		
7.0	.058	.029	.008	.057	.028	.008	.054	.027	.008	.051	.026	.008	.049	.025	.007		
8.0	.055	.027	.008	.054	.027	.008	.052	.026	.007	.049	.025	.007	.047	.024	.007		
9.0	.053	.026	.007	.052	.025	.007	.050	.025	.007	.048	.024	.007	.046	.023	.007		
10.0	.051	.024	.007	.050	.024	.007	.048	.023	.007	.046	.023	.007	.044	.022	.006		

cc	80%			70%			50%			30%			10%			0
w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio			Ceiling Cavity Exitance Coefficients(CCEC)												
0.0	.112	.112	.112	.096	.096	.096	.066	.066	.066	.038	.038	.038	.012	.012	.012	
1.0	.099	.093	.087	.085	.080	.075	.058	.055	.052	.033	.032	.030	.011	.010	.010	
2.0	.089	.078	.069	.076	.067	.060	.052	.047	.042	.030	.027	.024	.010	.009	.008	
3.0	.080	.067	.056	.069	.058	.049	.047	.040	.034	.027	.023	.020	.009	.008	.007	
4.0	.073	.058	.046	.063	.050	.040	.043	.035	.028	.025	.020	.017	.008	.007	.005	
5.0	.067	.051	.038	.058	.044	.033	.040	.031	.024	.023	.018	.014	.007	.006	.005	
6.0	.062	.045	.032	.053	.039	.028	.037	.027	.020	.021	.016	.012	.007	.005	.004	
7.0	.057	.040	.028	.049	.035	.024	.034	.024	.017	.020	.014	.010	.006	.005	.003	
8.0	.054	.036	.024	.046	.031	.021	.032	.022	.015	.019	.013	.009	.006	.004	.003	
9.0	.050	.033	.021	.043	.028	.018	.030	.020	.013	.018	.012	.008	.006	.004	.003	
10.0	.048	.030	.018	.041	.026	.016	.028	.018	.011	.017	.011	.007	.005	.004	.002	

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UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2409201202		
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	6.3	7.0	6.5	7.1	7.3	6.8	7.4	7.0	7.6	7.7
3H	6.2	6.8	6.4	7.0	7.2	6.6	7.3	6.9	7.5	7.6
4H	6.1	6.7	6.4	6.9	7.1	6.6	7.2	6.8	7.4	7.6
6H	6.0	6.6	6.3	6.8	7.0	6.5	7.0	6.8	7.3	7.5
8H	6.0	6.5	6.3	6.8	7.0	6.4	7.0	6.7	7.2	7.5
12H	5.9	6.5	6.2	6.7	7.0	6.4	6.9	6.7	7.2	7.4
4H 2H	6.1	6.7	6.4	6.9	7.1	6.6	7.2	6.8	7.4	7.6
3H	6.0	6.5	6.3	6.8	7.0	6.4	7.0	6.7	7.2	7.5
4H	5.9	6.4	6.2	6.7	7.0	6.3	6.8	6.7	7.1	7.4
6H	5.8	6.2	6.1	6.5	6.9	6.2	6.7	6.6	7.0	7.3
8H	5.7	6.1	6.1	6.5	6.8	6.2	6.6	6.6	6.9	7.3
12H	5.7	6.0	6.1	6.4	6.8	6.1	6.5	6.5	6.9	7.3
8H 4H	5.7	6.1	6.1	6.5	6.8	6.2	6.6	6.6	6.9	7.3
6H	5.6	6.0	6.0	6.3	6.8	6.1	6.4	6.5	6.8	7.2
8H	5.6	5.9	6.0	6.3	6.7	6.0	6.3	6.5	6.7	7.2
12H	5.5	5.8	6.0	6.2	6.7	6.0	6.2	6.4	6.7	7.1
12H 4H	5.7	6.0	6.1	6.4	6.8	6.1	6.5	6.5	6.9	7.3
6H	5.6	5.9	6.0	6.3	6.7	6.0	6.3	6.5	6.7	7.2
8H	5.5	5.8	6.0	6.2	6.7	6.0	6.2	6.4	6.7	7.1
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.9 / - 7.7					+ 3.3 / - 7.8				
1.5H	+ 4.9 / - 5.1					+ 5.2 / - 5.0				
2.0H	+ 3.8 / - 4.1					+ 4.4 / - 4.3				

CIE Pub.117, 2648 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 3.4)
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UTILIZATION FACTORS TABLE

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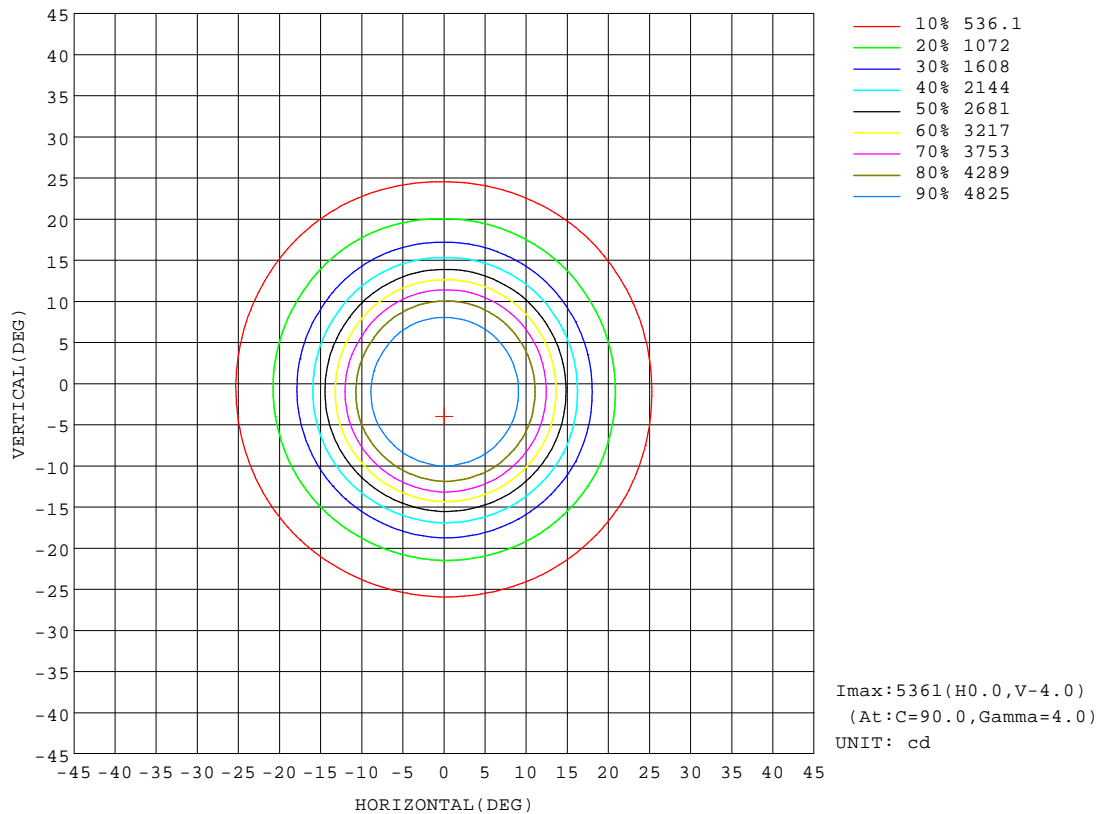
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	53	50	48	53	50	48	53	50	48	46
0.80	57	54	52	57	54	52	56	54	52	50
1.00	60	57	55	59	57	55	58	56	54	52
1.25	62	59	57	61	59	57	60	58	57	54
1.50	63	61	59	63	60	59	61	60	58	56
2.00	65	62	61	64	62	60	62	61	59	56
2.50	66	63	62	65	63	61	63	61	60	57
3.00	66	65	63	65	64	62	63	62	61	57
4.00	67	66	65	66	65	64	64	63	62	58
5.00	68	67	66	67	66	65	65	64	63	59
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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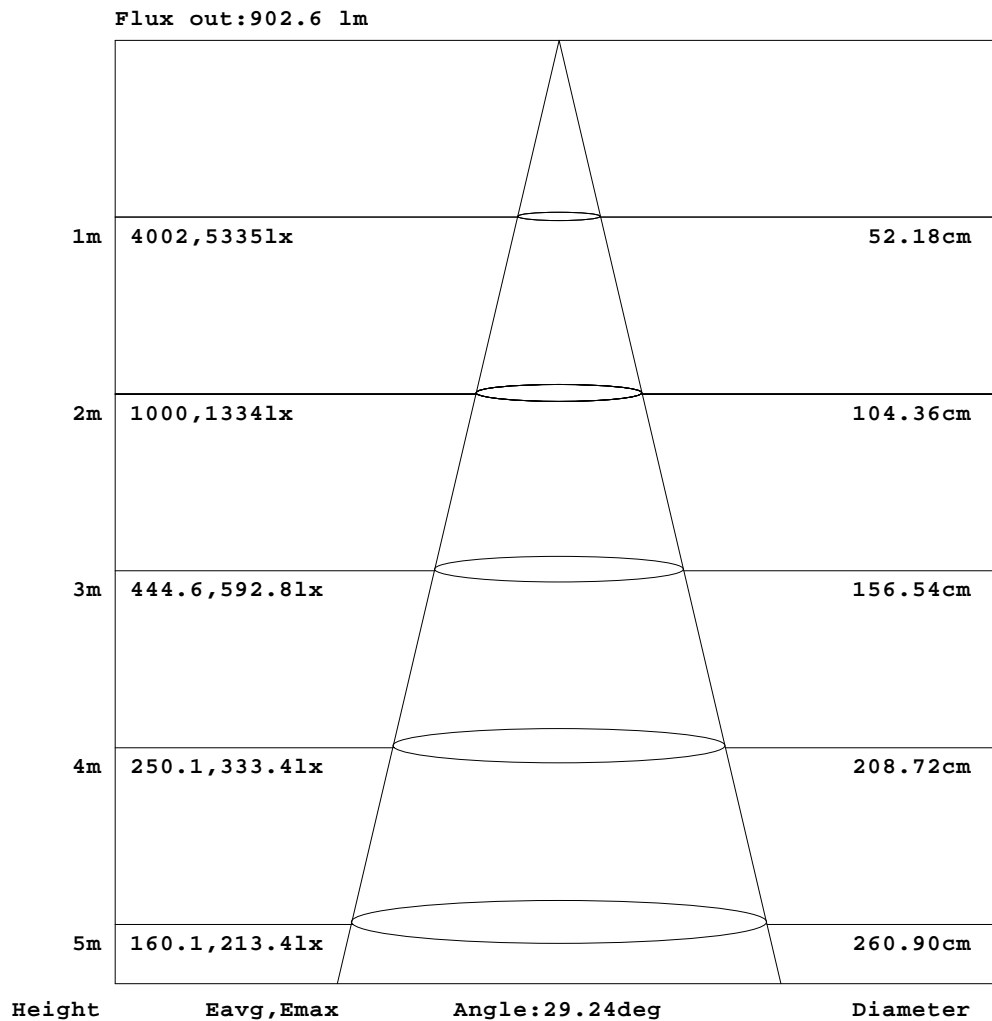


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30minutes warm-up

AAI Figure

Test:U:220.09V I:0.1329A P:28.574W PF:0.9746 Freq:49.99Hz Lamp Flux:2648.05x1 lm		
NAME: 2318.165-ACOT-72	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2409201202
MFR.: RISE	SUR.: 0.00607904m2	Shielding Angle:



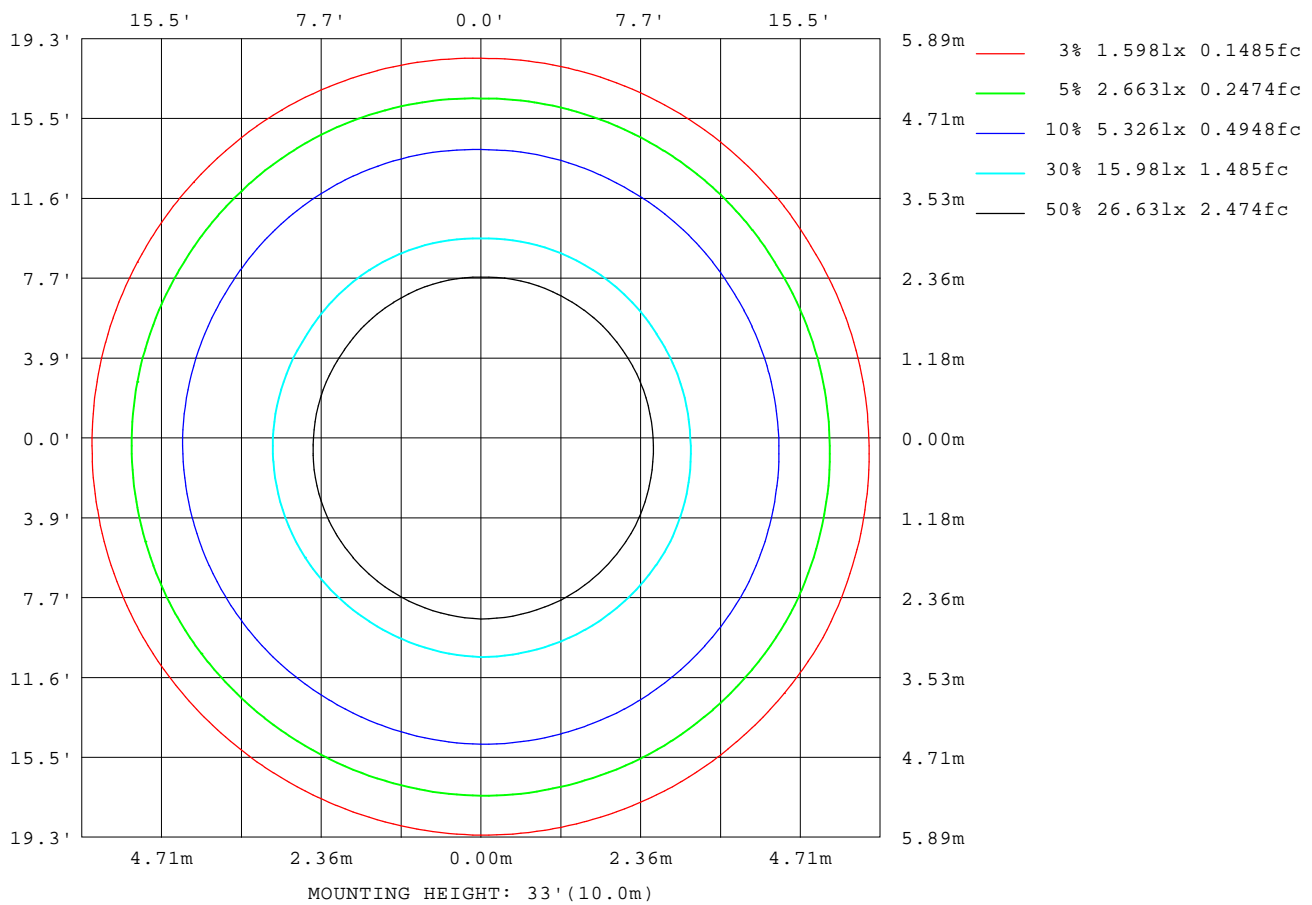
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

Range: 0 - 180DEG
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-1083 15R
DRIVER:BK-PBL040E-A1000AS 700mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:220.09V I:0.1329A P:28.574W PF:0.9746 Freq:49.99Hz Lamp Flux:2648.05x1 lm		
NAME: 2318.165-ACOT-72	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2409201202
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

Range: 0 - 180DEG
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-1083 15R
DRIVER: BK-PBL040E-A1000AS 700mA
30minutes warm-up

LED Avg.L Report

Test:U:220.09V I:0.1329A P:28.574W PF:0.9746 Freq:49.99Hz Lamp Flux:2648.05x1 lm		
NAME: 2318.165-ACOT-72	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2409201202
MFR.: RISE	SUR.: 0.00607904m2	Shielding Angle:

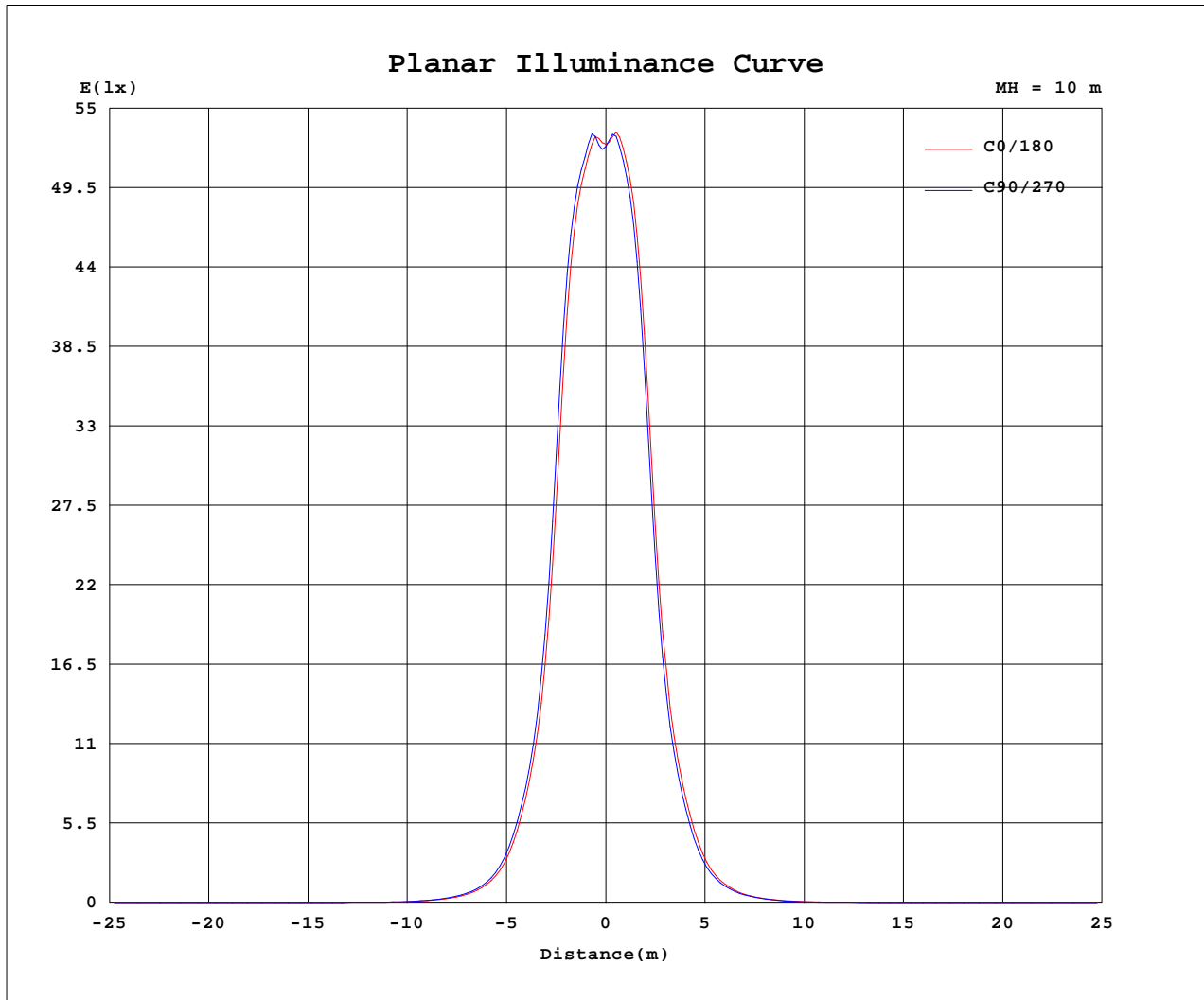
AvgL	cd/m2
L_0~180(65)av	745
L_0~180(75)av	205
L_0~180(85)av	218
L_90~270(65)av	751
L_90~270(75)av	199
L_90~270(85)av	211
L_45(65)av	747
L_45(75)av	195
L_45(85)av	176

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

Range: 0 - 180DEG
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-1083 15R
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

Range: 0 - 180DEG
 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-1083 15R
 DRIVER: BK-PBL040E-A1000AS 700mA
 30minutes warm-up



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.09V I:0.1329A P:28.574W PF:0.9746 Freq:49.99Hz Lamp Flux:2648.05x1 lm		
NAME: 2318.165-ACOT-72	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2409201202
MFR.: RISE	SUR.: 0.00607904m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	5251	5248	5241	5235	5225	5222	5251	5248	5241	5235	5225	5222						
5	5227	5270	5295	5311	5306	5311	5285	5253	5222	5200	5201	5211						
10	4613	4741	4816	4839	4785	4692	4525	4357	4302	4296	4377	4487						
15	2597	2804	2917	2928	2796	2641	2459	2312	2264	2242	2300	2422						
20	1202	1294	1332	1329	1268	1234	1191	1128	1111	1072	1079	1116						
25	559	614	632	629	600	583	564	530	515	491	495	513						
30	235	258	265	263	253	247	238	228	223	213	216	218						
35	105	117	120	119	113	111	106	103	101	97.0	95.8	97.7						
40	48.0	53.7	55.3	54.7	51.6	50.6	47.8	46.4	45.2	44.0	44.1	44.9						
45	19.3	21.9	22.8	22.2	20.4	20.2	18.9	17.2	16.3	16.2	18.3	18.4						
50	11.5	12.2	12.6	11.9	11.0	11.1	11.0	10.8	10.2	10.3	10.8	11.9						
55	6.80	7.70	8.15	7.62	6.72	6.62	6.73	6.06	5.85	5.81	6.29	6.91						
60	3.84	4.00	4.07	4.03	4.06	4.05	3.81	3.60	3.53	3.52	3.54	3.63						
65	2.00	2.16	2.22	2.21	2.13	2.02	1.83	1.68	1.64	1.64	1.71	1.81						
70	0.75	0.84	0.88	0.89	0.82	0.74	0.66	0.59	0.55	0.56	0.58	0.64						
75	0.33	0.32	0.33	0.34	0.33	0.32	0.32	0.30	0.29	0.29	0.28	0.30						
80	0.22	0.21	0.21	0.22	0.21	0.20	0.20	0.18	0.17	0.18	0.17	0.19						
85	0.12	0.10	0.11	0.13	0.11	0.10	0.11	0.08	0.08	0.10	0.08	0.09						
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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Operators:zoe
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