

Luminaire Photograph



Light Output Ratio:	68.3%	
Luminaire Power:	7.54 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: 2022-9-19

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: CXB1304-0000-000F0UA430G Ra:90
LENS: PM-1084B 36R
DRIVER: KEDH009S0350NR12A1 350mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

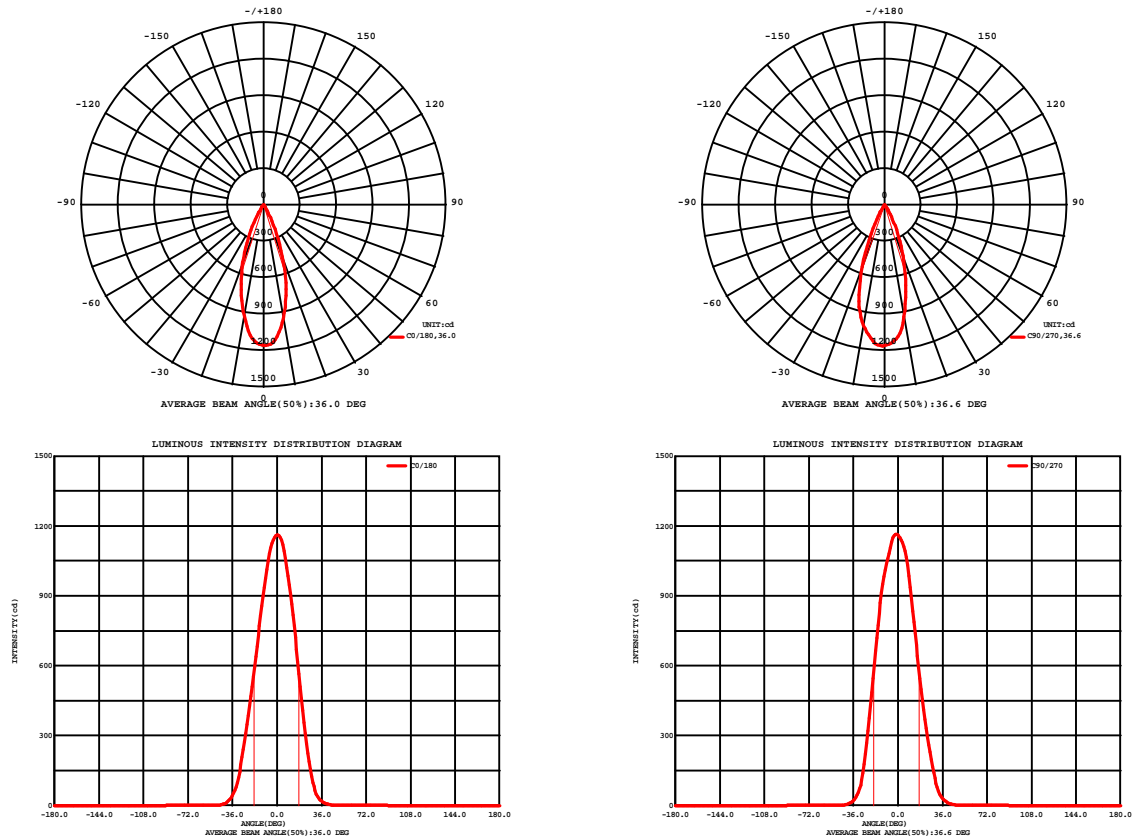


Fig. C0/C180

Fig. C90/C270

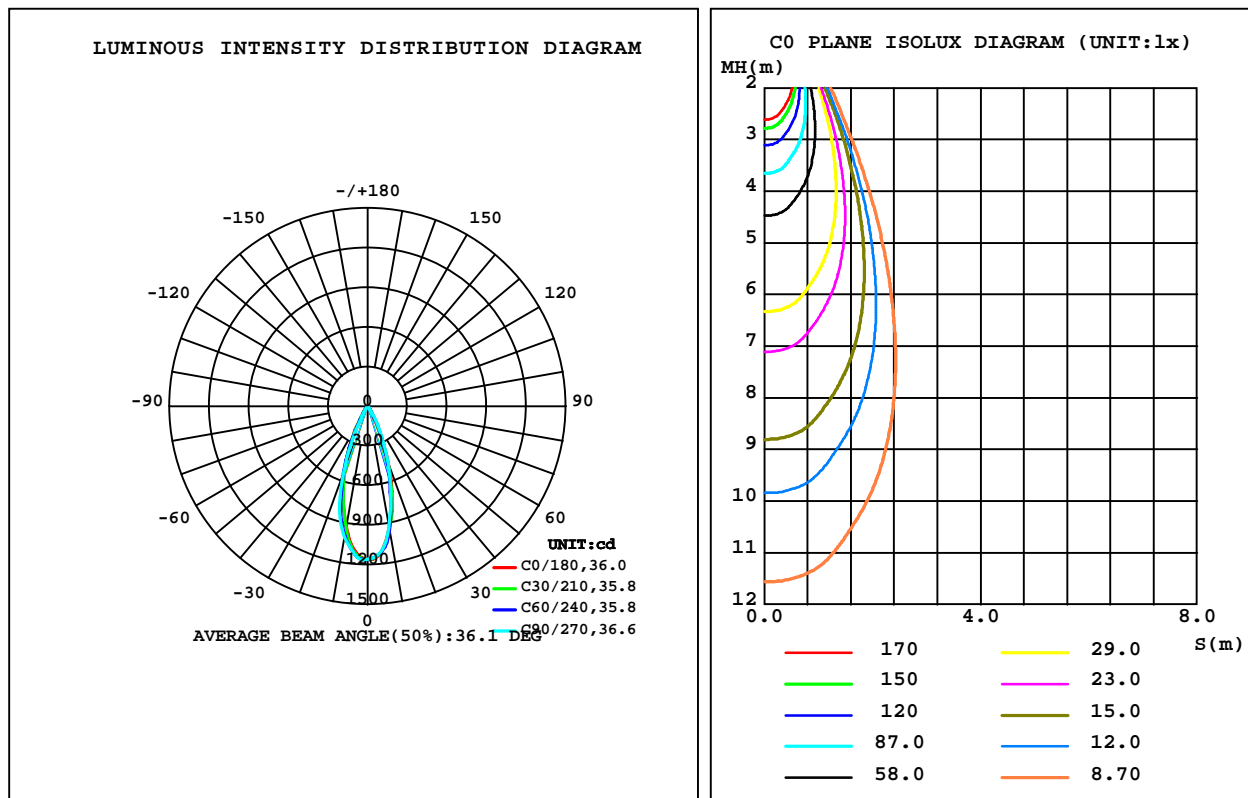
C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: Zoe
Test Date: 2022-9-19

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: CXB1304-0000-000F0UA430G Ra: 90
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.22V I:0.0374A P:7.5396W PF:0.9101 Freq:49.99Hz Lamp Flux:663.403x1 lm		
NAME: 2218.118-ACOT-96	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209190926
MFR.: RISE	SUR.:0.0016m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 60.13 lm/W			
MODEL	CREE	I _{max} (cd)	1164	S/MH(C0/180)	0.60
NOMINAL POWER(W)	7	LOR(%)	68.3	S/MH(C90/270)	0.60
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	453.35	h UP,DN(C0-180)	0.0,33.0
NOMINAL FLUX(lm)	663.403	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,35.3
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	h down(%)	68.3	CIBSE SHR MAX	0.60



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Interval: 1.0DEG
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Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CXB1304-0000-000F0UA430G Ra:90
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30minutes warm-up

ZONAL FLUX DIAGRAM

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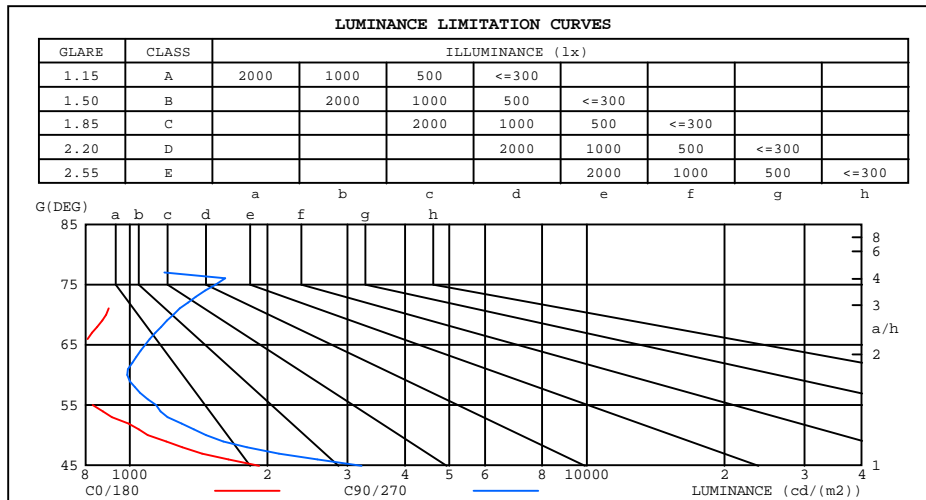
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	946.7	954.0	935.7	939.0	934.1	972.0	1011	979.1	0- 10	101.7	101.7	22.4,15.3
20	457.8	435.1	453.5	451.3	509.7	524.8	544.2	491.6	10- 20	198.3	299.9	66.2,45.2
30	80.09	96.02	117.5	133.2	144.7	129.7	87.35	90.52	20- 30	122.2	422.2	93.1,63.6
40	7.627	10.16	12.46	15.74	14.52	11.08	6.454	7.316	30- 40	26.78	448.9	99,67.7
50	1.127	1.424	1.511	1.579	1.084	0.8742	0.6062	0.8136	40- 50	2.981	451.9	99.7,68.1
60	0.6121	0.6516	0.7895	0.6744	0.5592	0.4299	0.3958	0.4413	50- 60	0.6822	452.6	99.8,68.2
70	0.4858	0.5305	0.6828	0.5260	0.4222	0.3288	0.0860	0.3112	60- 70	0.4955	453.1	99.9,68.3
80	0.0332	0.0433	0.0566	0.0529	0.0374	0.0234	0.0209	0.0173	70- 80	0.2374	453.3	100,68.3
90	0	0	0	0	0	0	0	0	80- 90	0.0171	453.3	100,68.3
100	0	0	0	0	0	0	0	0	90-100	0	453.3	100,68.3
110	0	0	0	0	0	0	0	0	100-110	0	453.3	100,68.3
120	0	0	0	0	0	0	0	0	110-120	0	453.3	100,68.3
130	0	0	0	0	0	0	0	0	120-130	0	453.3	100,68.3
140	0	0	0	0	0	0	0	0	130-140	0	453.3	100,68.3
150	0	0	0	0	0	0	0	0	140-150	0	453.3	100,68.3
160	0	0	0	0	0	0	0	0	150-160	0	453.3	100,68.3
170	0	0	0	0	0	0	0	0	160-170	0	453.3	100,68.3
180	0	0	0	0	0	0	0	0	170-180	0	453.3	100,68.3
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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30minutes warm-up

LUMINANCE LIMITATION CURVES

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NAME: 2218.118-ACOT-96	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209190926
MFR.: RISE	SUR.:0.0016m2	Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	103	222
80	119	204
75	138	1544
70	889	1248
65	796	1081
60	766	987
55	831	1143
50	1097	1469
45	1920	3222

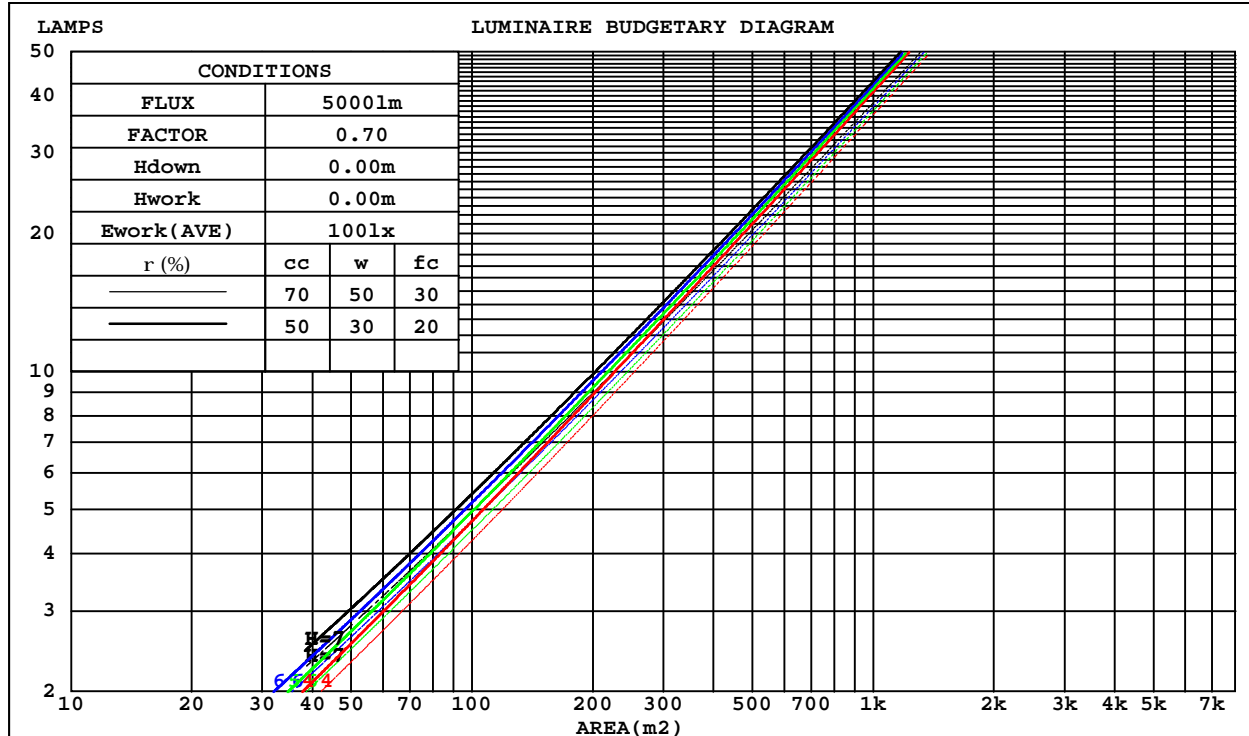
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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
r fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Coefficients of Utilization(CU)															
0.0	.81	.81	.81	.79	.79	.79	.76	.76	.76	.73	.73	.73	.70	.70	.70	.68
1.0	.77	.75	.74	.75	.74	.73	.73	.72	.71	.70	.69	.69	.68	.67	.67	.65
2.0	.73	.70	.68	.71	.69	.68	.69	.68	.66	.67	.66	.65	.66	.64	.64	.63
3.0	.69	.66	.64	.68	.66	.64	.66	.64	.63	.65	.63	.62	.63	.62	.61	.60
4.0	.66	.63	.60	.65	.62	.60	.64	.61	.59	.62	.60	.59	.61	.60	.58	.57
5.0	.63	.60	.57	.62	.59	.57	.61	.59	.57	.60	.58	.56	.59	.57	.56	.55
6.0	.60	.57	.55	.60	.57	.54	.59	.56	.54	.58	.56	.54	.57	.55	.53	.53
7.0	.58	.54	.52	.57	.54	.52	.57	.54	.52	.56	.53	.52	.55	.53	.51	.51
8.0	.55	.52	.50	.55	.52	.50	.54	.52	.50	.54	.51	.50	.53	.51	.49	.49
9.0	.53	.50	.48	.53	.50	.48	.52	.50	.48	.52	.49	.48	.51	.49	.47	.47
10.0	.51	.48	.46	.51	.48	.46	.51	.48	.46	.50	.48	.46	.50	.47	.46	.45



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WEC AND CCEC

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NAME: 2218.118-ACOT-96	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209190926
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	.102	.058	.018	.097	.055	.018	.089	.051	.016	.081	.047	.015	.074	.043	.014	
2.0	.095	.052	.016	.092	.050	.016	.085	.047	.015	.078	.044	.014	.072	.041	.013	
3.0	.090	.048	.014	.087	.046	.014	.081	.044	.013	.075	.041	.013	.070	.039	.012	
4.0	.085	.044	.013	.082	.043	.013	.077	.041	.012	.072	.039	.012	.068	.037	.011	
5.0	.080	.041	.012	.078	.040	.012	.074	.038	.011	.070	.037	.011	.066	.035	.011	
6.0	.076	.038	.011	.075	.038	.011	.071	.036	.011	.067	.035	.010	.064	.034	.010	
7.0	.073	.036	.010	.071	.036	.010	.068	.034	.010	.065	.033	.010	.062	.032	.009	
8.0	.070	.034	.010	.068	.034	.010	.065	.033	.009	.063	.032	.009	.060	.031	.009	
9.0	.067	.032	.009	.066	.032	.009	.063	.031	.009	.061	.030	.009	.058	.030	.009	
10.0	.064	.031	.009	.063	.031	.009	.061	.030	.008	.059	.029	.008	.057	.029	.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	.130	.130	.130	.111	.111	.111	.076	.076	.076	.044	.044	.044	.014	.014	.014	
1.0	.116	.108	.101	.099	.092	.087	.068	.064	.060	.039	.037	.035	.012	.012	.011	
2.0	.104	.091	.080	.089	.078	.069	.061	.054	.048	.035	.031	.028	.011	.010	.009	
3.0	.094	.077	.064	.081	.067	.056	.055	.046	.039	.032	.027	.023	.010	.009	.008	
4.0	.086	.067	.053	.074	.058	.046	.051	.040	.032	.029	.024	.019	.009	.008	.006	
5.0	.079	.059	.044	.068	.051	.038	.047	.036	.027	.027	.021	.016	.009	.007	.005	
6.0	.074	.052	.037	.063	.045	.032	.044	.032	.023	.025	.019	.013	.008	.006	.004	
7.0	.069	.047	.031	.059	.041	.027	.041	.028	.019	.024	.017	.011	.008	.005	.004	
8.0	.065	.042	.027	.056	.037	.023	.038	.026	.017	.022	.015	.010	.007	.005	.003	
9.0	.061	.039	.023	.053	.033	.020	.036	.023	.014	.021	.014	.009	.007	.005	.003	
10.0	.058	.035	.020	.050	.031	.018	.035	.022	.013	.020	.013	.008	.007	.004	.003	

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UGR(Unified Glare Rating) Table

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SPEC.:3000K					DIM.:			SERIAL No.:2209190926				
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	2H	8.7	9.5	8.9	9.6	9.8	10.8	11.5	11.0	11.7	11.9	
	3H	8.7	9.3	8.9	9.5	9.7	10.7	11.4	11.0	11.6	11.8	
	4H	8.6	9.2	8.8	9.4	9.7	10.7	11.4	11.0	11.6	11.8	
	6H	8.5	9.1	8.8	9.3	9.6	10.6	11.3	10.9	11.5	11.7	
	8H	8.5	9.0	8.8	9.3	9.5	10.6	11.2	10.9	11.4	11.7	
	12H	8.4	9.0	8.7	9.2	9.5	10.6	11.1	10.9	11.4	11.7	
	4H	2H	8.5	9.2	8.8	9.4	9.6	10.6	11.2	10.8	11.4	11.7
		3H	8.5	9.0	8.8	9.3	9.6	10.5	11.1	10.8	11.3	11.6
		4H	8.4	8.9	8.7	9.2	9.5	10.5	11.1	10.9	11.3	11.6
		6H	8.3	8.8	8.7	9.1	9.4	10.5	10.9	10.8	11.2	11.6
		8H	8.3	8.7	8.6	9.0	9.4	10.4	10.8	10.8	11.2	11.5
		12H	8.2	8.6	8.6	9.0	9.3	10.4	10.7	10.8	11.1	11.5
	8H	4H	8.3	8.7	8.7	9.1	9.4	10.4	10.8	10.8	11.2	11.5
		6H	8.2	8.5	8.6	8.9	9.3	10.3	10.7	10.8	11.1	11.5
		8H	8.1	8.4	8.6	8.9	9.3	10.3	10.6	10.7	11.0	11.4
		12H	8.1	8.3	8.5	8.8	9.3	10.2	10.5	10.7	10.9	11.4
	12H	4H	8.2	8.6	8.7	9.0	9.4	10.4	10.7	10.8	11.1	11.5
		6H	8.1	8.4	8.6	8.9	9.3	10.3	10.6	10.7	11.0	11.4
8H		8.1	8.3	8.5	8.8	9.3	10.2	10.5	10.7	10.9	11.4	
Variations with the observer position at spacings:												
S = 1.0H		+ 3.2 / - 6.0				+ 4.0 / - 5.8						
1.5H		+ 5.6 / - 5.0				+ 6.4 / - 5.6						
2.0H		+ 3.3 / - 1.9				+ 2.9 / - 1.3						

CIE Pub.117, 663.4 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -1.4)
Area: 0.0016 m2

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UTILIZATION FACTORS TABLE

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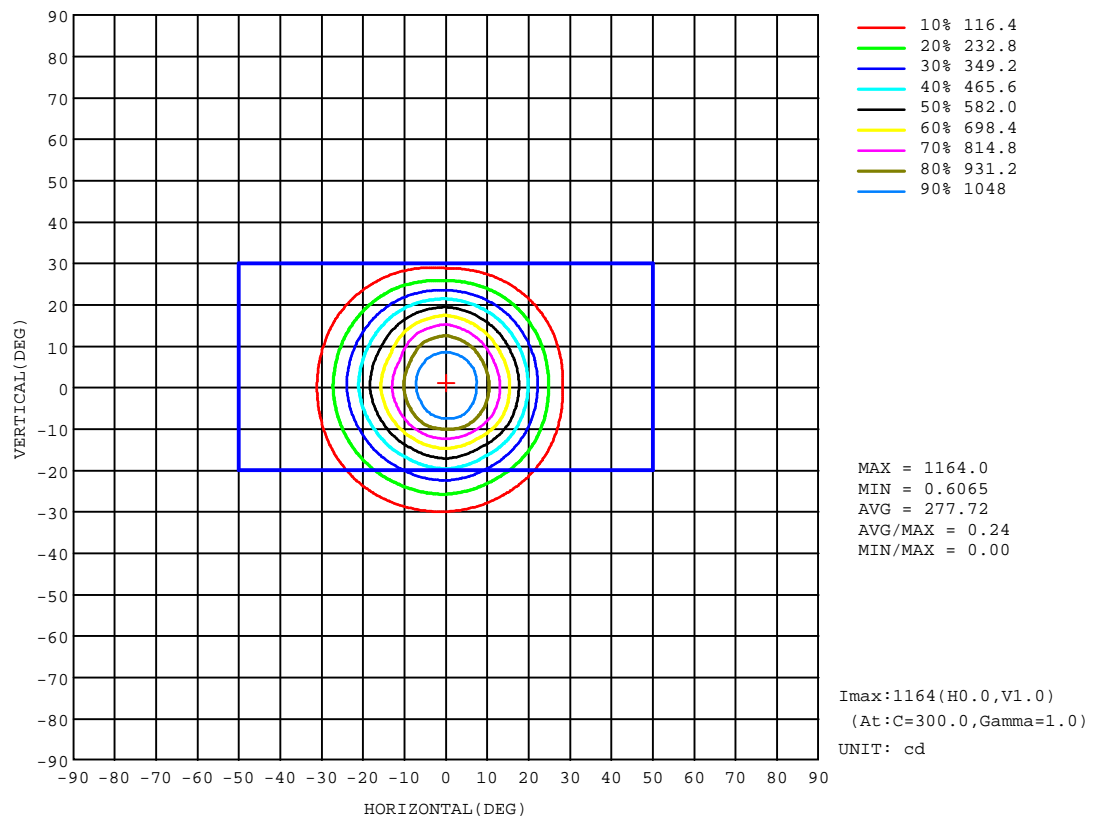
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	62	58	56	62	58	56	61	58	56	54
0.80	67	63	61	66	63	61	66	63	61	59
1.00	69	66	64	69	66	64	68	66	63	61
1.25	72	69	67	71	68	66	70	68	66	63
1.50	74	71	69	73	70	68	71	69	68	65
2.00	75	72	71	74	72	70	72	70	69	66
2.50	76	74	72	75	73	71	73	71	70	66
3.00	77	75	73	76	74	72	74	72	71	67
4.00	78	77	75	77	75	74	74	73	72	68
5.00	79	78	77	78	76	76	75	74	73	68
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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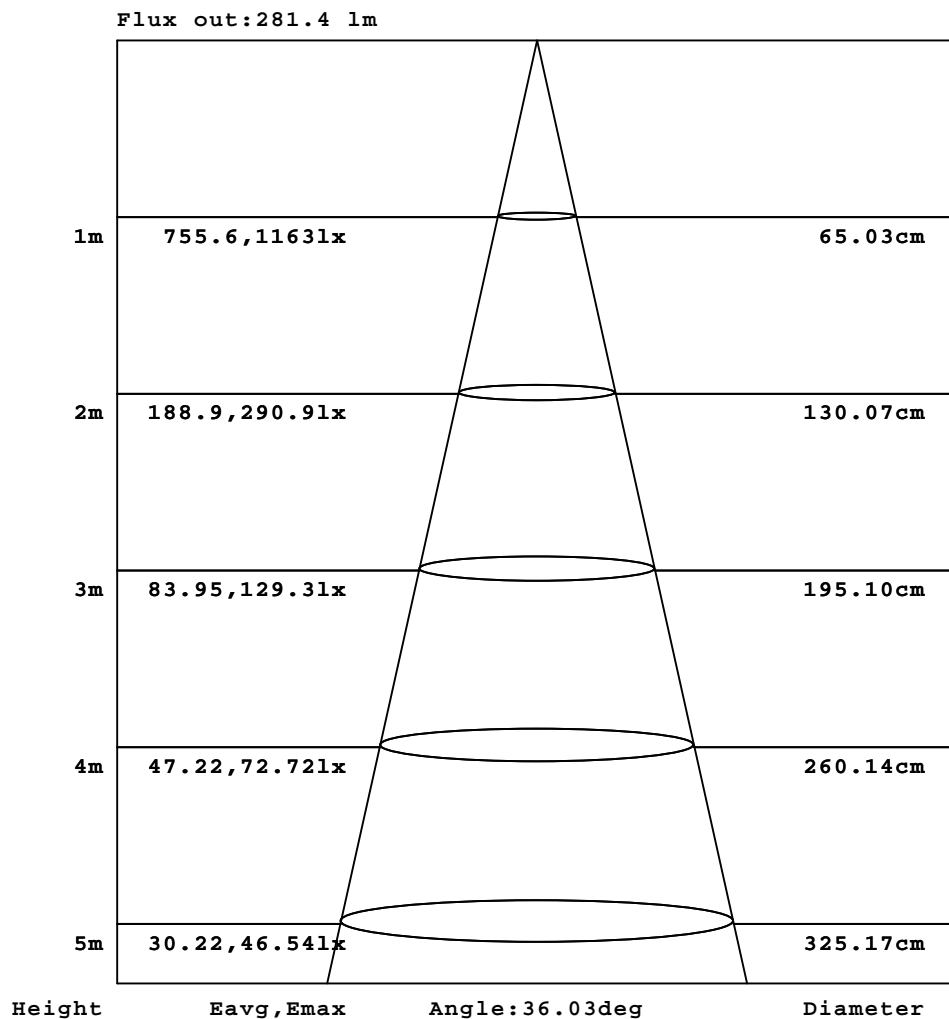


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Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CXB1304-0000-000F0UA430G Ra:90
LENS: PM-1084B 36R
DRIVER: KEDH009S0350NR12A1 350mA
30minutes warm-up

AAI Figure

Test:U:220.22V I:0.0374A P:7.5396W PF:0.9101 Freq:49.99Hz Lamp Flux:663.403x1 lm		
NAME: 2218.118-ACOT-96	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209190926
MFR.: RISE	SUR.:0.0016m2	Shielding Angle:



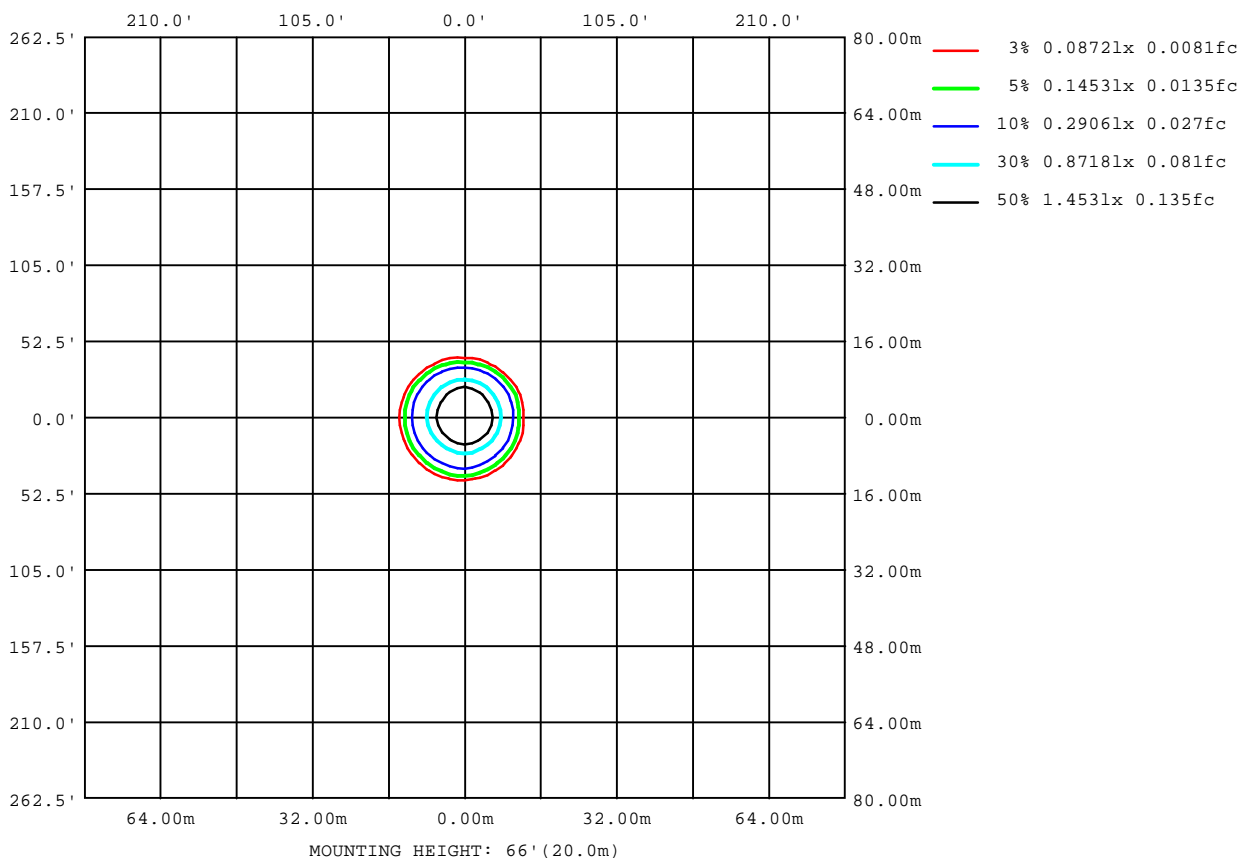
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2022-9-19

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:CXB1304-0000-000F0UA430G Ra:90
LENS: PM-1084B 36R
DRIVER: KEDH009S0350NR12A1 350mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:220.22V I:0.0374A P:7.5396W PF:0.9101 Freq:49.99Hz Lamp Flux:663.403x1 lm		
NAME: 2218.118-ACOT-96	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209190926
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:2022-9-19

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:CXB1304-0000-000F0UA430G Ra:90
LENS: PM-1084B 36R
DRIVER: KEDH009S0350NR12A1 350mA
30minutes warm-up

LED Avg.L Report

Test:U:220.22V I:0.0374A P:7.5396W PF:0.9101 Freq:49.99Hz Lamp Flux:663.403x1 lm		
NAME: 2218.118-ACOT-96	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209190926
MFR.: RISE	SUR.:0.0016m2	Shielding Angle:

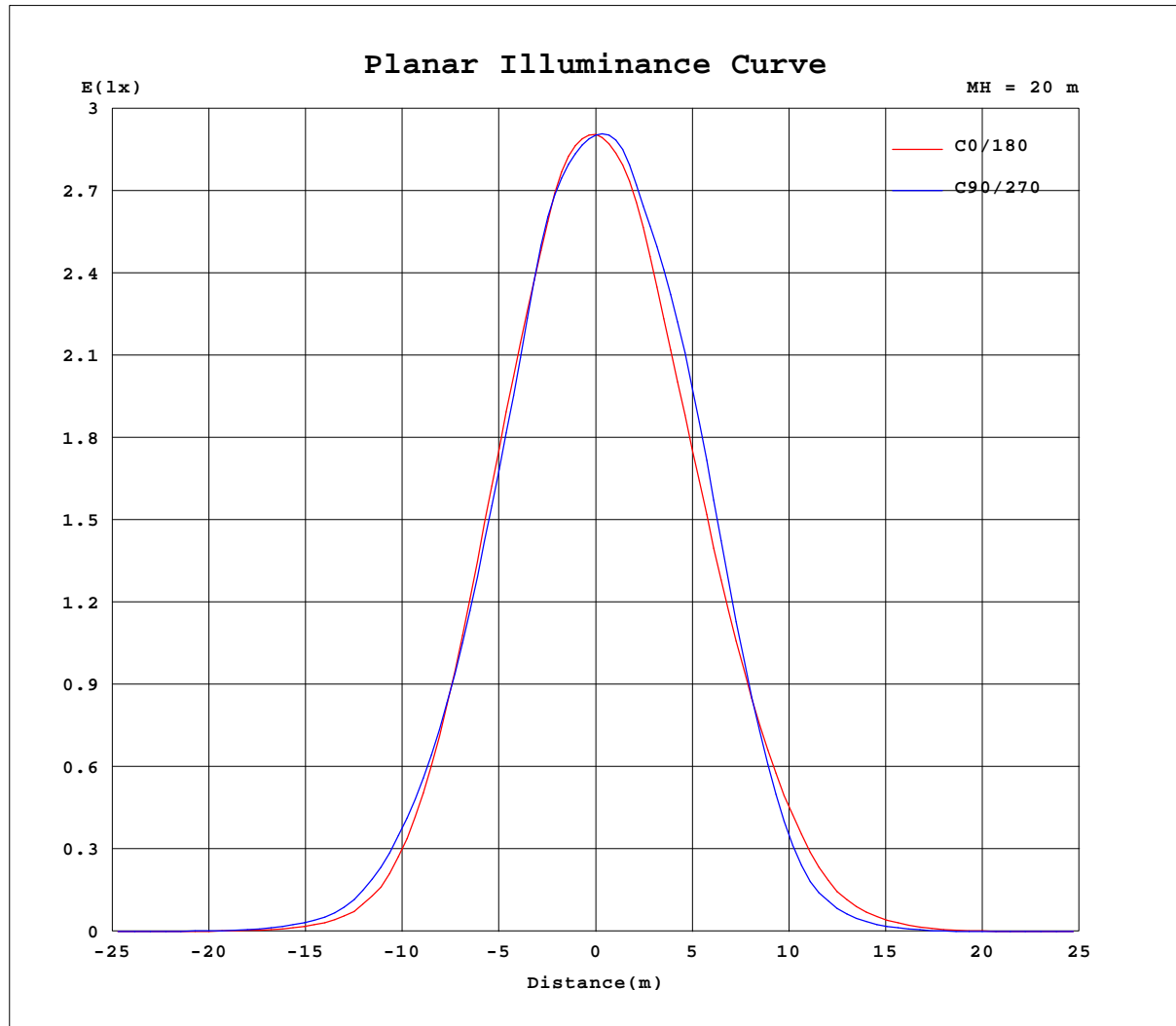
AvgL	cd/m2
L_0~180(65)av	747
L_0~180(75)av	159
L_0~180(85)av	115
L_90~270(65)av	828
L_90~270(75)av	821
L_90~270(85)av	135
L_45(65)av	708
L_45(75)av	564
L_45(85)av	84

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:Zoe
Test Date:2022-9-19

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:CXB1304-0000-000F0UA430G Ra:90
LENS: PM-1084B 36R
DRIVER: KEDH009S0350NR12A1 350mA
30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: Zoe
 Test Date: 2022-9-19

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: CXB1304-0000-000F0UA430G Ra:90
 LENS: PM-1084B 36R
 DRIVER: KEDH009S0350NR12A1 350mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.22V I:0.0374A P:7.5396W PF:0.9101 Freq:49.99Hz Lamp Flux:663.403x1 lm		
NAME: 2218.118-ACOT-96	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209190926
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	1161	1161	1161	1161	1161	1161	1161	1161	1161	1161	1161	1161						
5	1120	1117	1114	1111	1104	1099	1105	1116	1130	1130	1138	1135						
10	947	949	959	936	947	931	934	946	998	1011	995	964						
15	720	716	671	689	680	700	728	718	796	824	771	723						
20	458	443	427	454	441	462	510	511	539	544	507	476						
25	225	232	234	259	262	281	310	306	301	269	260	244						
30	80.1	91.1	101	117	127	139	145	141	119	87.4	90.1	90.9						
35	24.7	27.9	33.9	39.3	47.3	50.7	52.5	45.5	35.4	26.6	25.7	24.6						
40	7.63	9.46	10.9	12.5	15.0	16.5	14.5	12.9	9.29	6.45	6.74	7.90						
45	2.17	3.25	3.84	3.64	4.96	4.48	2.94	3.37	2.16	1.06	1.72	2.33						
50	1.13	1.35	1.50	1.51	1.70	1.46	1.08	1.02	0.72	0.61	0.68	0.95						
55	0.76	0.83	0.95	1.05	0.97	0.81	0.74	0.62	0.49	0.44	0.47	0.63						
60	0.61	0.61	0.69	0.79	0.73	0.61	0.56	0.46	0.40	0.40	0.39	0.49						
65	0.54	0.56	0.61	0.73	0.64	0.53	0.47	0.41	0.36	0.39	0.34	0.44						
70	0.49	0.49	0.57	0.68	0.59	0.47	0.42	0.35	0.31	0.09	0.27	0.35						
75	0.06	0.33	0.47	0.64	0.50	0.35	0.07	0.06	0.05	0.04	0.04	0.05						
80	0.03	0.04	0.05	0.06	0.06	0.05	0.04	0.03	0.02	0.02	0.01	0.02						
85	0.01	0.01	0.02	0.03	0.03	0.02	0.02	0.01	0.00	0.01	0.00	0.00						
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:2022-9-19

g Range: 0 - 180DEG
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