

Luminaire Photograph



Light Output Ratio:	69.3%	
Luminaire Power:	7.542 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	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-1084A 24R
DRIVER: KEDH009S0350NR12A1 350mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

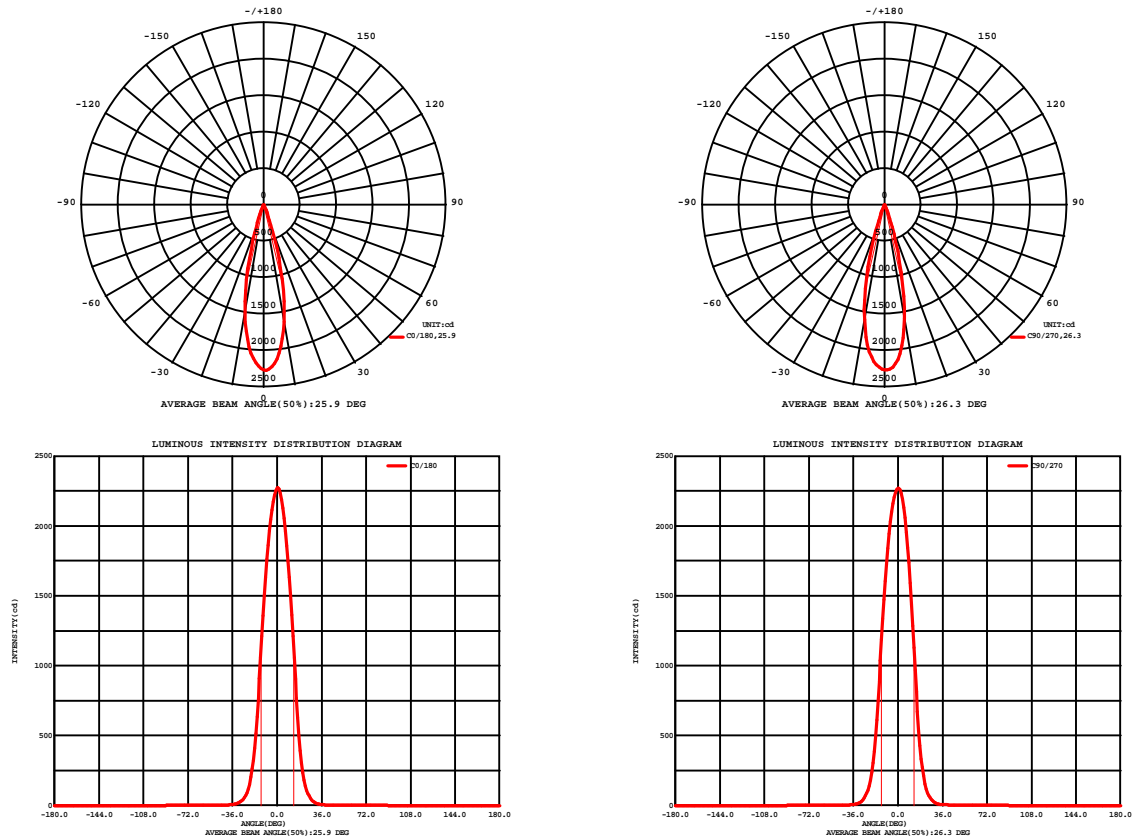


Fig. C0/C180

Fig. C90/C270

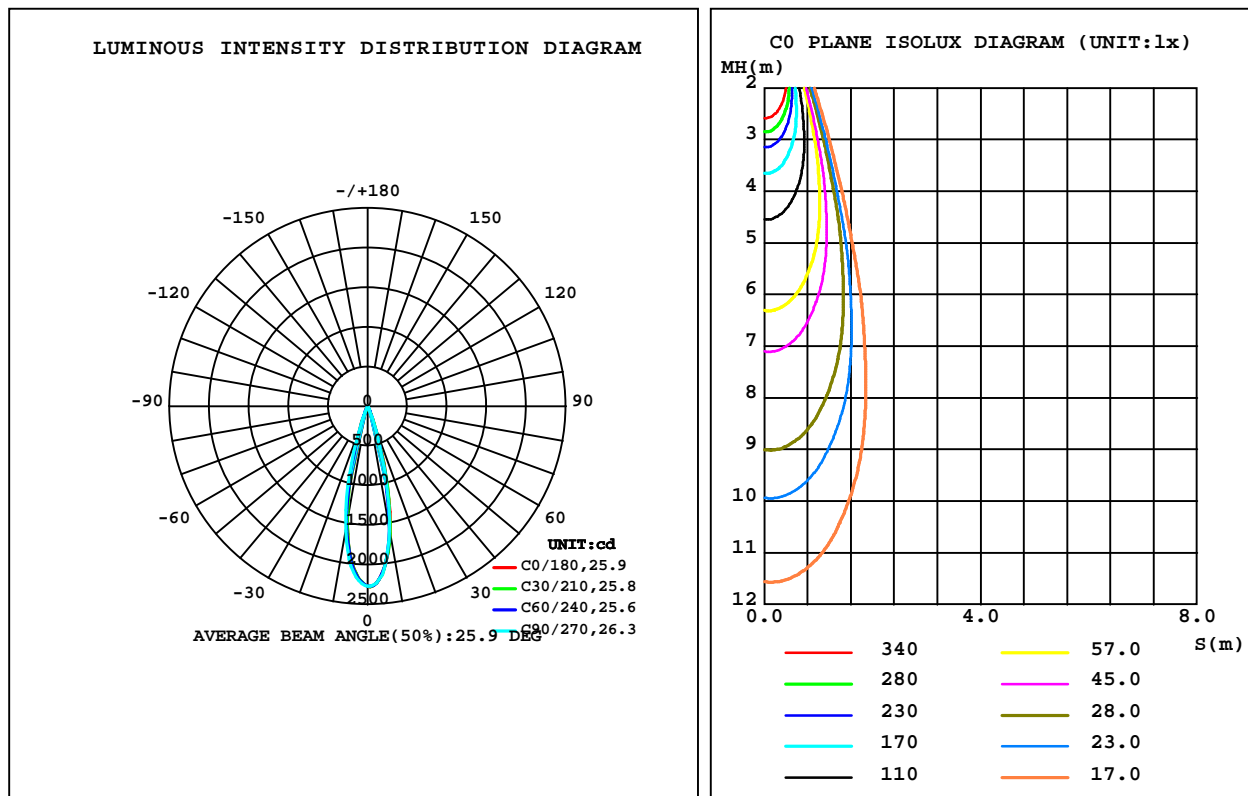
C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:Zoe
 Test Date:2022-9-19

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]
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 30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.22V I:0.0374A P:7.5417W PF:0.9120 Freq:49.99Hz Lamp Flux:663.403x1 lm		
NAME: 2218.118-ACOT-96	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209190924
MFR.: RISE	SUR.:0.0016m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 60.97 lm/W			
MODEL	CREE	I _{max} (cd)	2277	S/MH(C0/180)	0.41
NOMINAL POWER(W)	7	LOR(%)	69.3	S/MH(C90/270)	0.43
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	459.79	h UP,DN(C0-180)	0.0,34.4
NOMINAL FLUX(lm)	663.403	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,35.0
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	220	h down(%)	69.3	CIBSE SHR MAX	1.00



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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
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30minutes warm-up

ZONAL FLUX DIAGRAM

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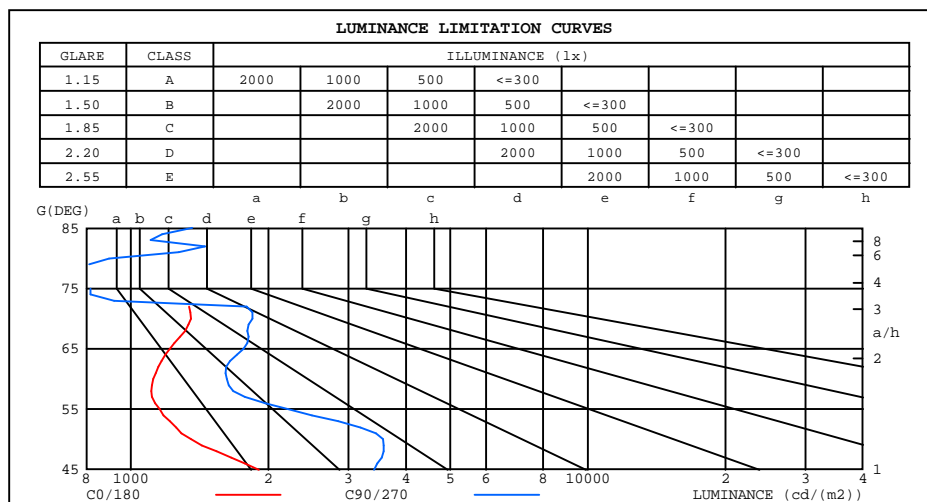
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	1631	1611	1592	1501	1500	1515	1605	1633	0- 10	183.6	183.6	39.9,27.7
20	305.8	276.5	271.1	224.6	263.1	262.5	303.6	315.9	10- 20	222.1	405.7	88.2,61.1
30	24.32	24.71	22.77	22.63	23.54	24.62	24.50	29.65	20- 30	43.91	449.6	97.8,67.8
40	3.946	3.671	4.618	3.617	3.893	3.746	3.471	3.487	30- 40	6.204	455.8	99.1,68.7
50	1.394	1.477	3.672	1.614	1.265	1.177	0.9764	1.088	40- 50	1.772	457.6	99.5,69
60	0.8972	0.8485	1.299	0.8941	0.8308	0.7329	0.6893	0.7230	50- 60	0.9747	458.5	99.7,69.1
70	0.7425	0.6951	1.010	0.6669	0.6580	0.6886	0.8039	0.7048	60- 70	0.7861	459.3	99.9,69.2
80	0.0857	0.2080	0.2495	0.2119	0.1129	0.0636	0.0454	0.0541	70- 80	0.3774	459.7	100,69.3
90	0	0	0	0	0	0	0	0	80- 90	0.1039	459.8	100,69.3
100	0	0	0	0	0	0	0	0	90-100	0	459.8	100,69.3
110	0	0	0	0	0	0	0	0	100-110	0	459.8	100,69.3
120	0	0	0	0	0	0	0	0	110-120	0	459.8	100,69.3
130	0	0	0	0	0	0	0	0	120-130	0	459.8	100,69.3
140	0	0	0	0	0	0	0	0	130-140	0	459.8	100,69.3
150	0	0	0	0	0	0	0	0	140-150	0	459.8	100,69.3
160	0	0	0	0	0	0	0	0	150-160	0	459.8	100,69.3
170	0	0	0	0	0	0	0	0	160-170	0	459.8	100,69.3
180	0	0	0	0	0	0	0	0	170-180	0	459.8	100,69.3
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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LENS: PM-1084A 24R
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LUMINANCE LIMITATION CURVES

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SPEC.:3000K	DIM.:	SERIAL No.:2209190924
MFR.: RISE	SUR.:0.0016m2	Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	330	1362
80	308	898
75	342	817
70	1357	1847
65	1219	1767
60	1121	1624
55	1156	2204
50	1356	3571
45	1906	3408

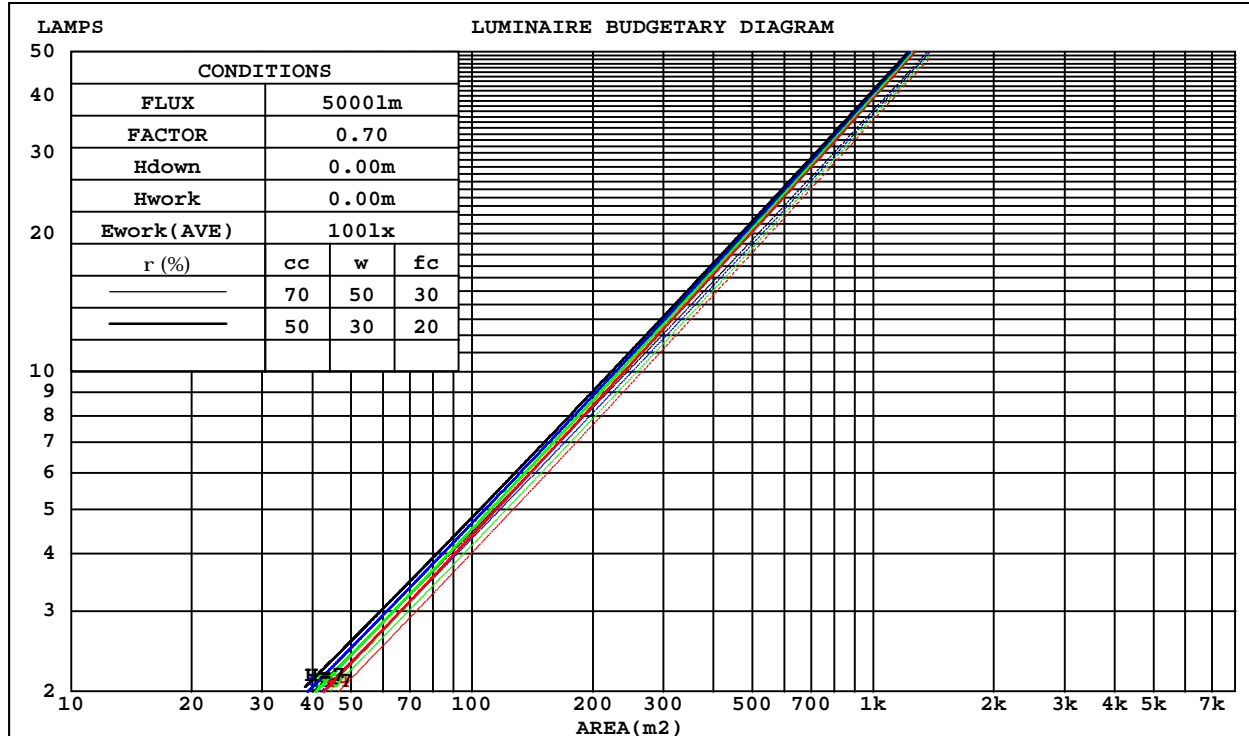
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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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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	.83	.83	.83	.81	.81	.81	.77	.77	.77	.74	.74	.74	.71	.71	.71	.69
1.0	.78	.77	.76	.77	.76	.75	.74	.73	.73	.72	.71	.70	.69	.69	.68	.67
2.0	.75	.73	.71	.74	.72	.71	.72	.70	.69	.70	.69	.68	.68	.67	.66	.65
3.0	.72	.70	.68	.71	.69	.67	.70	.68	.66	.68	.67	.65	.67	.65	.64	.64
4.0	.70	.67	.65	.69	.67	.65	.68	.66	.64	.66	.65	.63	.65	.64	.63	.62
5.0	.67	.65	.63	.67	.64	.63	.66	.64	.62	.65	.63	.62	.64	.62	.61	.60
6.0	.65	.63	.61	.65	.62	.61	.64	.62	.60	.63	.61	.60	.62	.61	.60	.59
7.0	.64	.61	.59	.63	.61	.59	.62	.60	.59	.62	.60	.58	.61	.59	.58	.57
8.0	.62	.59	.57	.62	.59	.57	.61	.59	.57	.60	.58	.57	.60	.58	.57	.56
9.0	.60	.58	.56	.60	.58	.56	.60	.57	.56	.59	.57	.56	.59	.57	.55	.55
10.0	.59	.56	.55	.59	.56	.55	.58	.56	.54	.58	.56	.54	.57	.56	.54	.54



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WEC AND CCEC

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SPEC.:3000K	DIM.:	SERIAL No.:2209190924
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	.090	.051	.016	.086	.049	.016	.077	.044	.014	.069	.040	.013	.062	.036	.012	
2.0	.083	.046	.014	.079	.044	.013	.072	.040	.012	.066	.037	.012	.060	.034	.011	
3.0	.077	.041	.012	.074	.040	.012	.068	.037	.011	.063	.034	.011	.058	.032	.010	
4.0	.072	.037	.011	.069	.036	.011	.064	.034	.010	.060	.032	.010	.055	.030	.009	
5.0	.067	.034	.010	.065	.033	.010	.061	.032	.009	.057	.030	.009	.053	.029	.009	
6.0	.063	.032	.009	.062	.031	.009	.058	.030	.009	.055	.028	.008	.052	.027	.008	
7.0	.060	.030	.008	.059	.029	.008	.055	.028	.008	.053	.027	.008	.050	.026	.008	
8.0	.057	.028	.008	.056	.027	.008	.053	.027	.008	.051	.026	.007	.048	.025	.007	
9.0	.055	.026	.007	.053	.026	.007	.051	.025	.007	.049	.024	.007	.047	.024	.007	
10.0	.052	.025	.007	.051	.025	.007	.049	.024	.007	.047	.023	.007	.045	.023	.007	

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	.132	.132	.132	.113	.113	.113	.077	.077	.077	.044	.044	.044	.014	.014	.014	
1.0	.116	.109	.103	.100	.094	.089	.068	.065	.061	.039	.037	.036	.013	.012	.012	
2.0	.103	.092	.082	.089	.079	.071	.061	.055	.050	.035	.032	.029	.011	.010	.009	
3.0	.093	.078	.067	.080	.068	.058	.055	.047	.041	.032	.027	.024	.010	.009	.008	
4.0	.084	.068	.055	.072	.059	.048	.049	.041	.034	.029	.024	.020	.009	.008	.007	
5.0	.076	.059	.046	.066	.051	.040	.045	.036	.029	.026	.021	.017	.008	.007	.006	
6.0	.070	.052	.039	.060	.045	.034	.041	.032	.024	.024	.019	.014	.008	.006	.005	
7.0	.065	.046	.034	.056	.040	.029	.038	.028	.021	.022	.017	.012	.007	.005	.004	
8.0	.060	.042	.029	.052	.036	.025	.036	.025	.018	.021	.015	.011	.007	.005	.004	
9.0	.056	.038	.025	.048	.033	.022	.033	.023	.016	.019	.014	.009	.006	.004	.003	
10.0	.052	.034	.022	.045	.030	.019	.031	.021	.014	.018	.012	.008	.006	.004	.003	

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UGR(Unified Glare Rating) Table

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SPEC.:3000K					DIM.:			SERIAL No.:2209190924		
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	1.7	2.3	1.9	2.4	2.6	3.0	3.6	3.2	3.7	3.9
3H	2.7	3.2	2.9	3.4	3.6	4.1	4.7	4.3	4.9	5.0
4H	2.7	3.3	3.0	3.5	3.7	4.2	4.8	4.5	5.0	5.2
6H	2.7	3.2	3.0	3.5	3.7	4.3	4.8	4.6	5.1	5.3
8H	2.7	3.2	3.0	3.4	3.7	4.5	5.0	4.8	5.2	5.5
12H	2.7	3.2	3.0	3.4	3.7	4.6	5.0	4.9	5.3	5.6
4H 2H	1.9	2.5	2.2	2.7	2.9	3.1	3.6	3.3	3.8	4.0
3H	3.1	3.6	3.4	3.9	4.1	4.4	4.9	4.7	5.1	5.4
4H	3.2	3.7	3.6	4.0	4.3	4.6	5.0	4.9	5.3	5.6
6H	3.2	3.6	3.6	3.9	4.3	4.7	5.1	5.1	5.4	5.8
8H	3.2	3.6	3.6	3.9	4.3	5.0	5.4	5.4	5.7	6.1
12H	3.2	3.6	3.6	3.9	4.3	5.1	5.5	5.5	5.8	6.2
8H 4H	3.3	3.7	3.7	4.0	4.4	4.6	4.9	5.0	5.3	5.6
6H	3.4	3.7	3.8	4.1	4.5	4.8	5.2	5.3	5.5	6.0
8H	3.4	3.7	3.9	4.1	4.5	5.2	5.5	5.7	5.9	6.3
12H	3.5	3.7	4.0	4.2	4.7	5.4	5.7	5.9	6.1	6.6
12H 4H	3.3	3.6	3.7	4.0	4.4	4.5	4.9	4.9	5.2	5.6
6H	3.4	3.7	3.9	4.1	4.5	4.9	5.1	5.3	5.5	6.0
8H	3.5	3.8	4.0	4.2	4.7	5.2	5.5	5.7	5.9	6.4
Variations with the observer position at spacings:										
S = 1.0H	+ 1.3 / - 1.1					+ 0.9 / - 0.7				
1.5H	+ 2.0 / - 1.0					+ 1.2 / - 1.1				
2.0H	+ 2.1 / - 1.1					+ 2.6 / - 1.5				

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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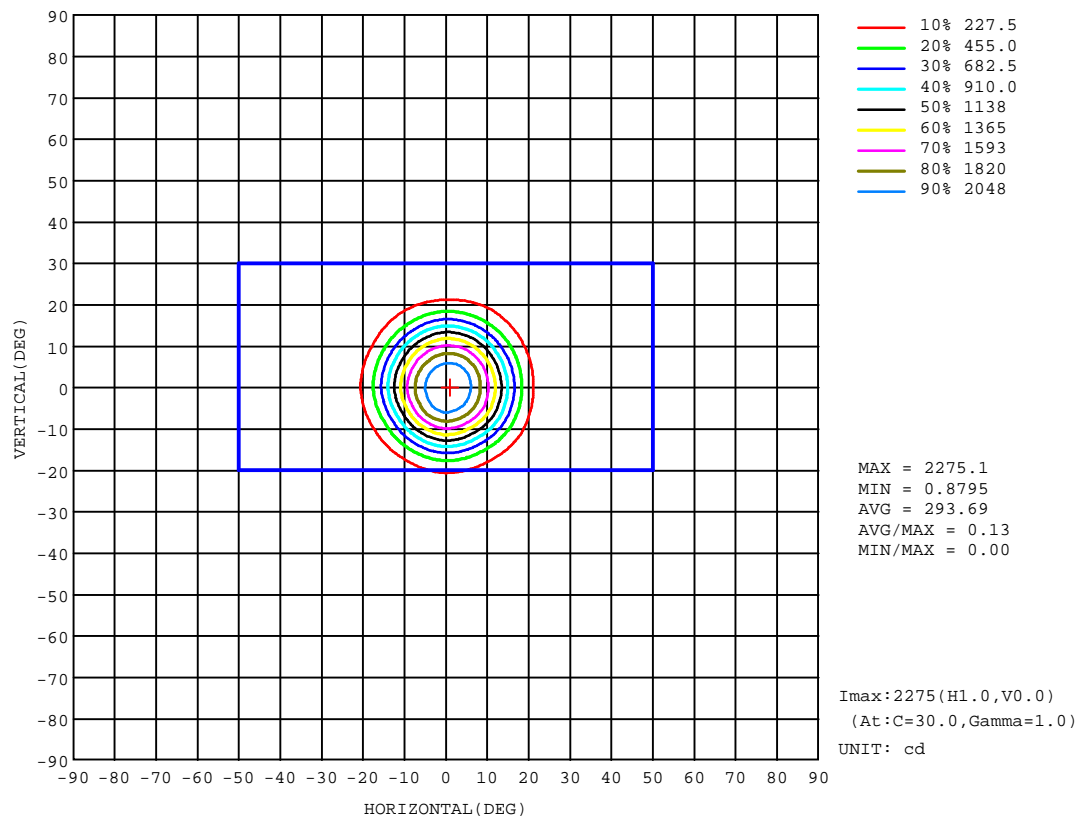
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	63	59	57	63	59	57	62	59	57	54
0.80	68	64	62	67	64	62	67	64	62	59
1.00	70	67	65	70	67	65	69	66	64	62
1.25	73	70	68	72	69	67	71	69	67	64
1.50	75	72	70	74	71	69	72	70	69	66
2.00	76	73	71	75	73	71	73	71	70	66
2.50	77	75	73	76	74	72	74	72	71	67
3.00	78	76	74	77	75	73	75	73	72	68
4.00	79	78	76	78	77	75	76	74	73	69
5.00	80	79	78	79	78	77	76	75	74	69
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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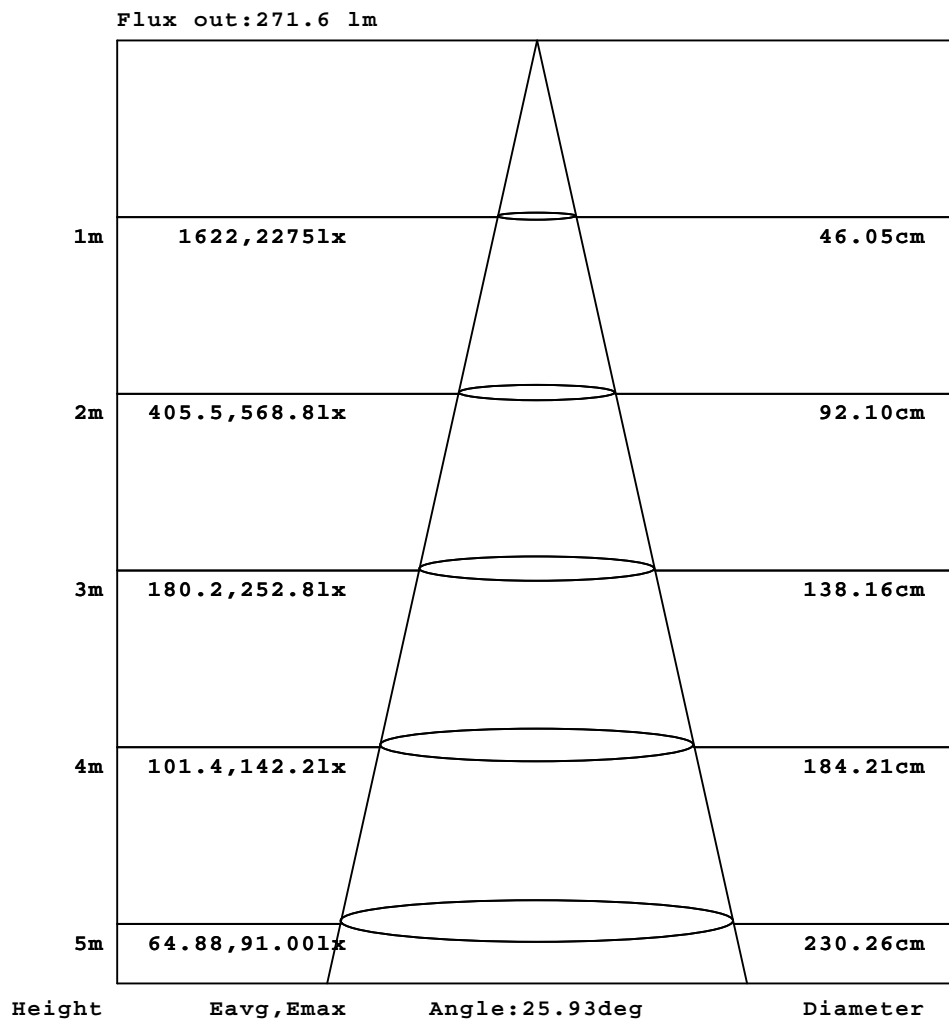


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Test Distance:3.160m [K=1.0000]
Remarks: LAMP:CXB1304-0000-000F0UA430G Ra:90
LENS: PM-1084A 24R
DRIVER: KEDH009S0350NR12A1 350mA
30minutes warm-up

AAI Figure

Test:U:220.22V I:0.0374A P:7.5417W PF:0.9120 Freq:49.99Hz Lamp Flux:663.403x1 lm		
NAME: 2218.118-ACOT-96	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209190924
MFR.: RISE	SUR.:0.0016m2	Shielding Angle:



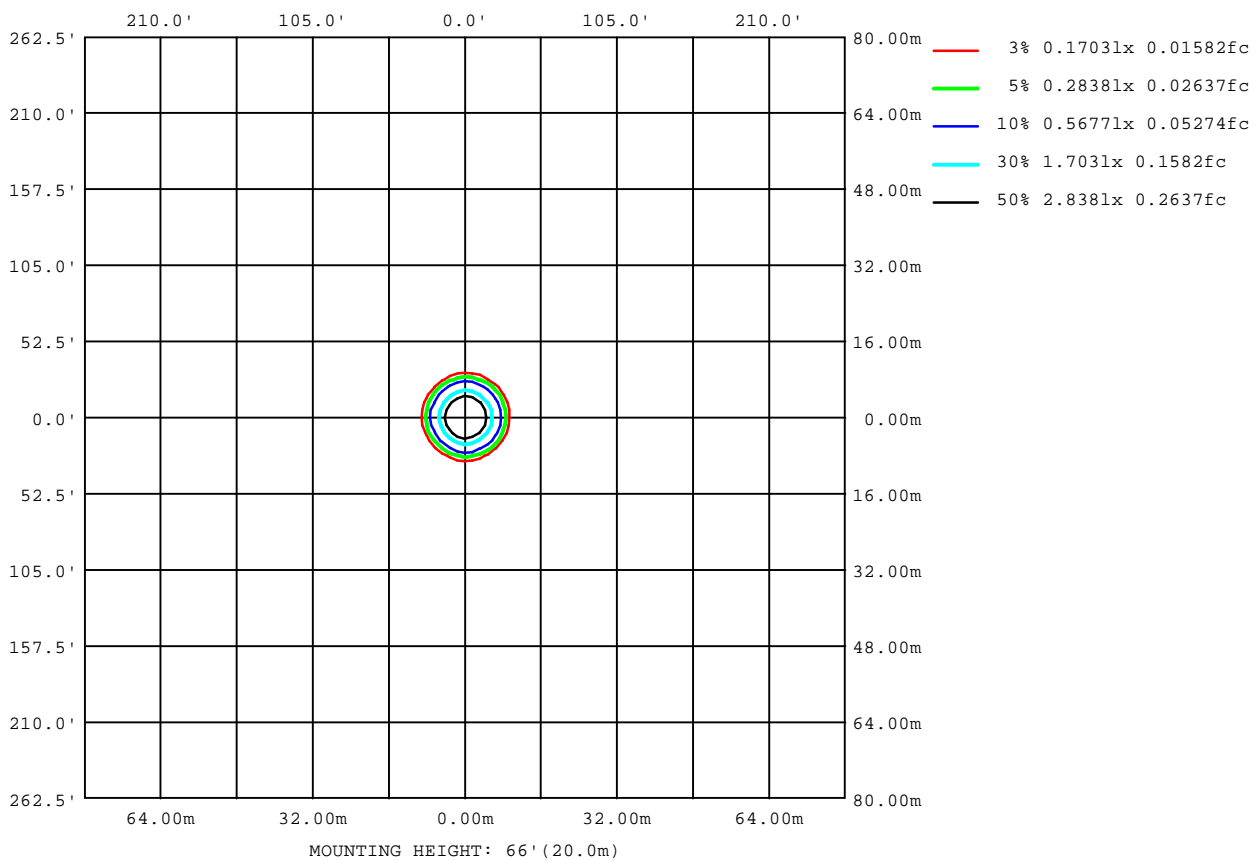
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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

Angle Range: 0 - 180DEG
Angle 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-1084A 24R
DRIVER: KEDH009S0350NR12A1 350mA
30minutes warm-up

ISOLUX DIAGRAM

Test:U:220.22V I:0.0374A P:7.5417W PF:0.9120 Freq:49.99Hz Lamp Flux:663.403x1 lm		
NAME: 2218.118-ACOT-96	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209190924
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-1084A 24R
DRIVER: KEDH009S0350NR12A1 350mA
30minutes warm-up

LED Avg.L Report

Test:U:220.22V I:0.0374A P:7.5417W PF:0.9120 Freq:49.99Hz Lamp Flux:663.403x1 lm		
NAME: 2218.118-ACOT-96	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209190924
MFR.: RISE	SUR.:0.0016m2	Shielding Angle:

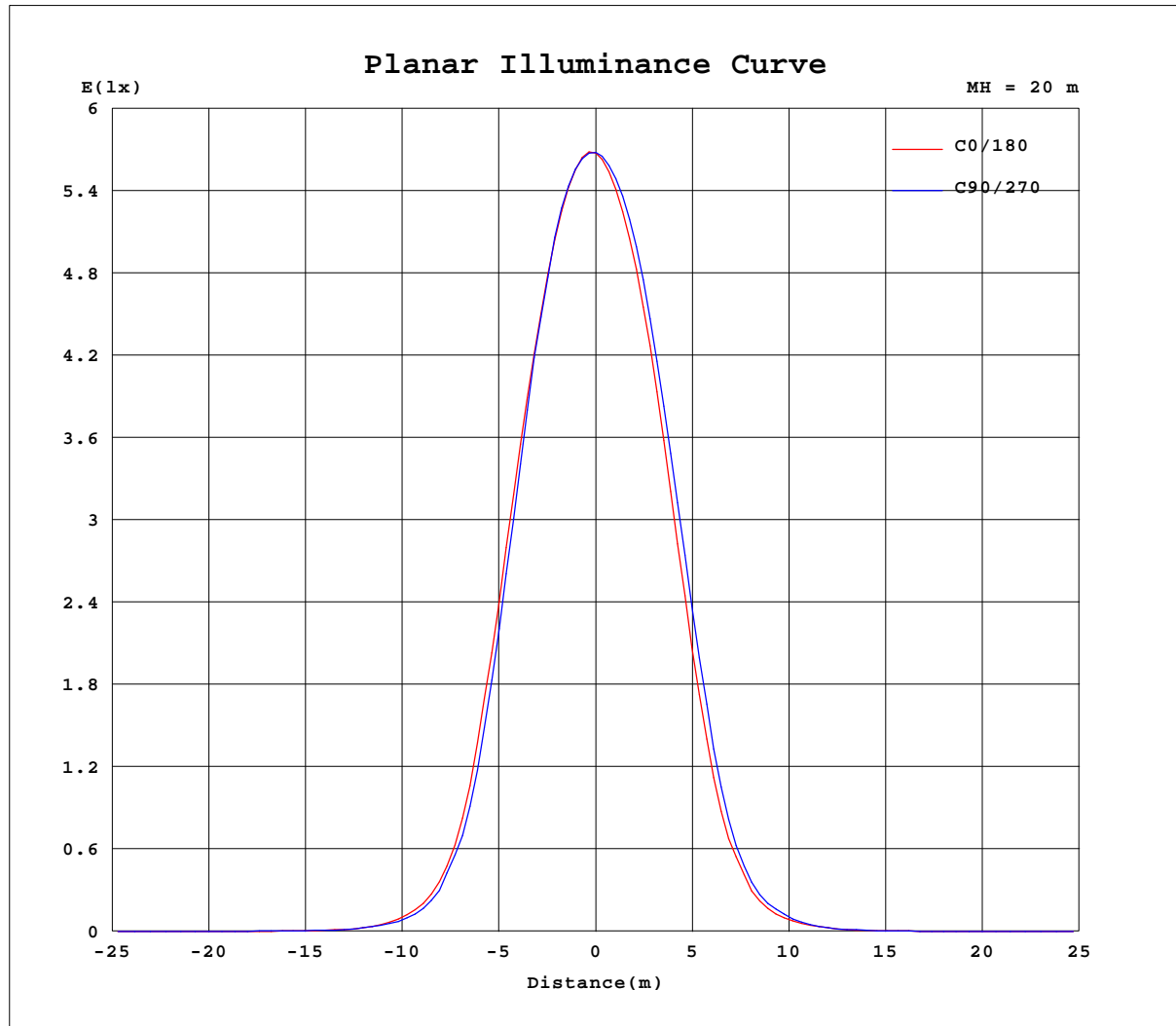
AvgL	cd/m2
L_0~180(65)av	1150
L_0~180(75)av	375
L_0~180(85)av	396
L_90~270(65)av	1403
L_90~270(75)av	512
L_90~270(85)av	770
L_45(65)av	1113
L_45(75)av	835
L_45(85)av	727

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-1084A 24R
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

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-1084A 24R
 DRIVER: KEDH009S0350NR12A1 350mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.22V I:0.0374A P:7.5417W PF:0.9120 Freq:49.99Hz Lamp Flux:663.403x1 lm		
NAME: 2218.118-ACOT-96	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:2209190924
MFR.: RISE	SUR.:0.0016m2	Shielding Angle:

Table--1

UNIT: cd

C(°)	0	30	60	90	120	150	180	210	240	270	300	330						
g (°)	0	30	60	90	120	150	180	210	240	270	300	330						
0	2271	2271	2271	2271	2271	2271	2271	2271	2271	2271	2271	2271						
5	2126	2130	2126	2133	2101	2055	2045	2048	2069	2101	2131	2139						
10	1631	1636	1586	1592	1528	1474	1500	1490	1540	1605	1632	1634						
15	902	887	811	812	744	697	766	759	801	885	897	883						
20	306	294	259	271	224	225	263	244	281	304	317	315						
25	86.5	82.9	77.6	70.6	69.5	64.4	70.5	76.0	77.4	88.9	94.2	94.2						
30	24.3	25.9	23.5	22.8	21.9	23.3	23.5	24.0	25.3	24.5	29.2	30.1						
35	8.27	8.03	8.22	7.78	7.96	8.12	7.88	8.73	8.85	8.19	8.39	9.49						
40	3.95	3.71	3.64	4.62	3.69	3.54	3.89	4.00	3.49	3.47	3.40	3.57						
45	2.16	2.21	2.18	3.85	2.33	1.85	2.07	2.37	1.78	1.66	1.65	1.89						
50	1.39	1.26	1.69	3.67	2.04	1.18	1.26	1.23	1.12	0.98	0.99	1.18						
55	1.06	0.90	1.17	2.02	1.30	0.89	1.01	0.88	0.78	0.77	0.75	0.88						
60	0.90	0.76	0.94	1.30	1.03	0.76	0.83	0.76	0.70	0.69	0.68	0.77						
65	0.82	0.72	0.87	1.19	0.93	0.68	0.73	0.73	0.72	0.70	0.70	0.76						
70	0.74	0.66	0.73	1.01	0.77	0.57	0.66	0.66	0.72	0.80	0.70	0.71						
75	0.14	0.22	0.34	0.34	0.28	0.36	0.17	0.37	0.38	0.09	0.33	0.34						
80	0.09	0.18	0.24	0.25	0.23	0.20	0.11	0.08	0.05	0.05	0.04	0.07						
85	0.05	0.18	0.16	0.19	0.17	0.17	0.06	0.05	0.02	0.02	0.02	0.03						
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:2022-9-19

g Range: 0 - 180DEG
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Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.416
Humidity:65.0%
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