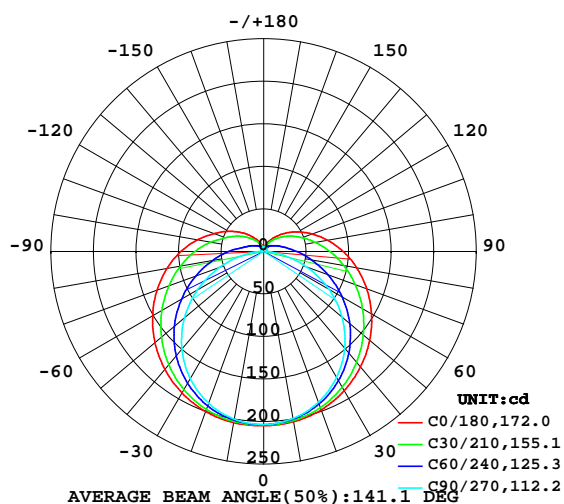


## LUMINAIRE PHOTOMETRIC TEST REPORT

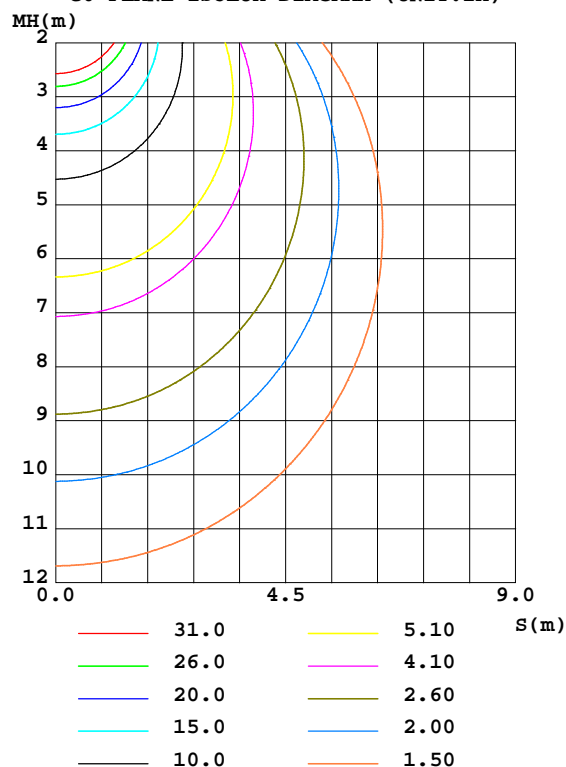
Test:U:220.90V I:0.0720A P:8.4600W PF:0.5290 Freq:50.00Hz Lamp Flux:953.11x1 lm		
NAME: S460 8W 000 4000K	TYPE:长条形	
MFR.:	DIM.: 460*62*63mm	
	SUR.: 343*57mm	

DATA OF LAMP		PHOTOMETRIC DATA Eff: 112.66 lm/W			
MODEL		Imax(cd)	204.9	S/MH(C0/180)	1.38
NOMINAL POWER(W)	8	LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	953.11	$\eta$ UP,DN(C0-180)	9.0,40.6
NOMINAL FLUX(lm)	953.11	CIE CLASS	SEMI-D.	$\eta$ UP,DN(C180-360)	9.0,41.4
LAMPS INSIDE	1	$\eta$ up(%)	17.9	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	220	$\eta$ down(%)	82.1	CIBSE SHR MAX	1.55

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2020-08-25

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.406.11  
Humidity:65.0%  
Test Distance:8.000m [K=0.7063]  
Remarks: 电源: LS-8-200 SI1(伊戈尔)  
PCB: S460-12S3P-V1.0  
灯珠: HL-A-2835D46W-S1-08-HR3  
0.5W

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

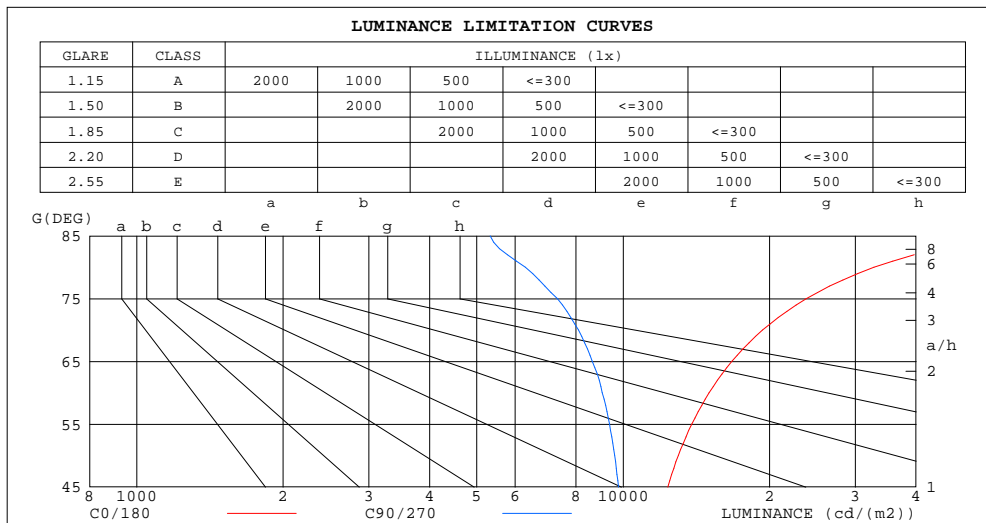
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	203.3	201.0	199.4	200.8	204.3	202.1	200.1	200.9	0- 10	19.34	19.34	2.03,2.03
20	198.1	193.0	188.5	193.6	200.1	195.3	189.8	193.8	10- 20	56.06	75.39	7.91,7.91
30	189.2	180.0	171.3	181.5	192.1	183.3	172.7	181.8	20- 30	86.92	162.3	17,17
40	177.2	162.9	148.3	165.1	180.8	166.9	149.7	165.4	30- 40	108.7	271.1	28.4,28.4
50	162.8	142.6	120.4	145.3	167.0	147.1	121.7	145.9	40- 50	119.7	390.7	41,41
60	146.4	120.3	88.34	123.0	150.8	124.7	89.45	124.2	50- 60	119.3	510.0	53.5,53.5
70	129.1	97.62	53.97	100.3	133.5	101.8	55.68	102.1	60- 70	108.8	618.9	64.9,64.9
80	111.0	76.38	21.31	79.65	115.5	80.12	23.47	80.92	70- 80	91.45	710.3	74.5,74.5
90	93.48	58.45	3.294	61.96	97.44	61.27	3.919	62.57	80- 90	71.76	782.1	82.1,82.1
100	76.48	44.37	3.010	47.68	79.43	44.79	2.864	46.58	90-100	55.08	837.2	87.8,87.8
110	60.67	33.60	3.420	36.12	61.84	33.32	3.244	31.97	100-110	40.65	877.8	92.1,92.1
120	46.30	25.24	3.811	27.02	47.54	25.09	3.675	24.95	110-120	29.19	907.0	95.2,95.2
130	33.61	18.56	4.155	19.72	34.86	18.55	4.094	18.73	120-130	19.90	926.9	97.2,97.2
140	23.29	13.16	4.506	14.11	24.17	13.42	4.475	13.88	130-140	12.73	939.6	98.6,98.6
150	15.19	8.863	4.960	9.944	15.76	9.507	4.837	9.269	140-150	7.372	947.0	99.4,99.4
160	9.381	6.451	5.386	7.059	9.705	6.834	5.186	6.374	150-160	3.817	950.8	99.8,99.8
170	5.823	5.725	5.636	5.692	5.834	5.632	5.497	5.557	160-170	1.765	952.6	99.9,99.9
180	5.721	5.708	5.674	5.641	5.748	5.704	5.669	5.640	170-180	0.5393	953.1	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

**C Range:** 0 - 360DEG  
**C Interval:** 30.0DEG  
**Test Speed:** HIGH  
**Temperature:** 25.3DEG  
**Operators:** DAMIN  
**Test Date:** 2020-08-25

**$\gamma$  Range:** 0 - 180DEG  
 **$\gamma$  Interval:** 1.0DEG  
**Test System:** EVERFINE GO-2000B\_V1 SYSTEM V2.0.406.11  
**Humidity:** 65.0%  
**Test Distance:** 8.000m [K=0.7063]  
**Remarks:** 电源: LS-8-200 SI1(伊戈尔)  
 PCB: S460-12S3P-V1.0  
 灯珠: HL-A-2835D46W-S1-08-HR3  
 0.5W

## LUMINANCE LIMITATION CURVES

Test:U:220.90V I:0.0720A P:8.4600W PF:0.5290 Freq:50.00Hz Lamp Flux:953.11x1 lm		
NAME: S460 8W 000 4000K	TYPE:长条形	
MFR.:	DIM.: 460*62*63mm	
	SUR.:343*57mm	



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	60171	5331
80	32791	6292
75	23801	7321
70	19354	8093
65	16732	8643
60	15019	9060
55	13840	9371
50	12985	9602
45	12346	9789

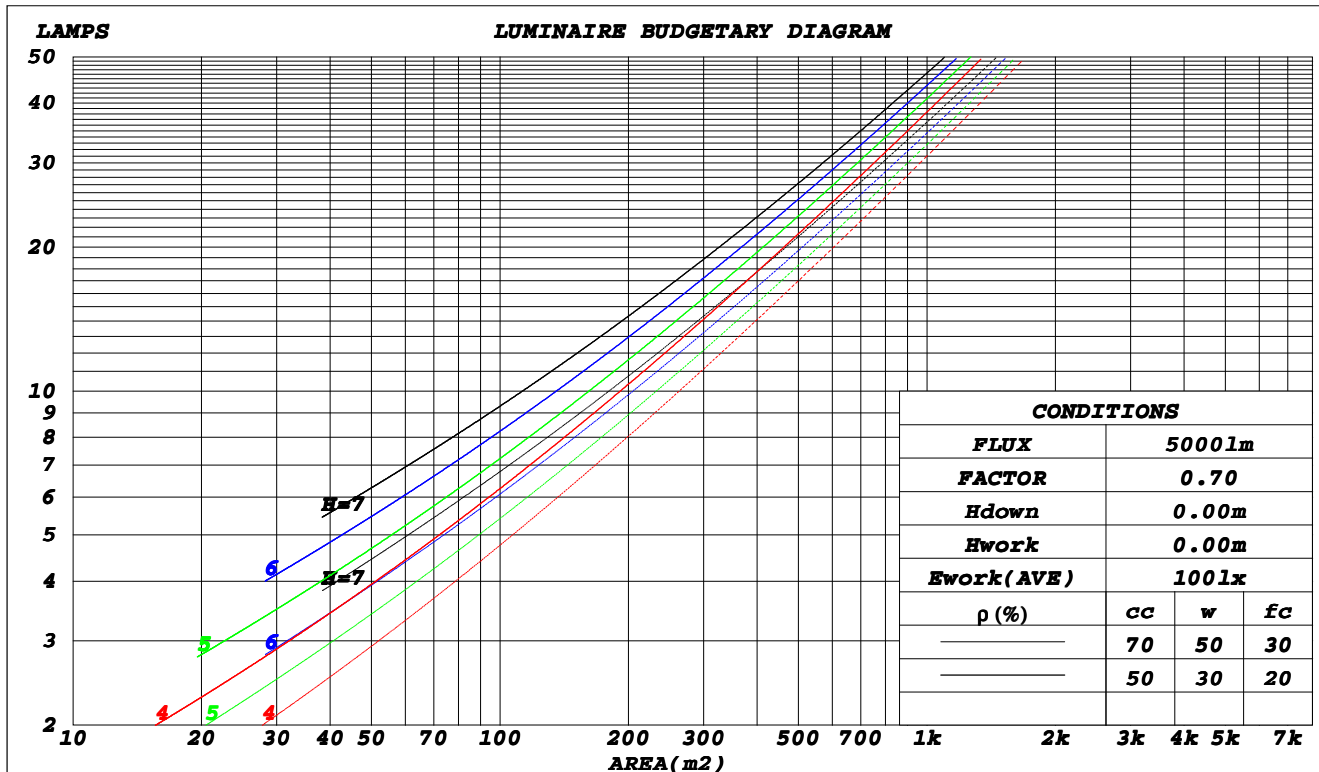
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:DAMIN  
Test Date:2020-08-25

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.406.11  
Humidity:65.0%  
Test Distance:8.000m [K=0.7063]  
Remarks: 电源: LS-8-200 SI1(伊戈尔)  
PCB: S460-12S3P-V1.0  
灯珠: HL-A-2835D46W-S1-08-HR3  
0.5W

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.90V I:0.0720A P:8.4600W PF:0.5290 Freq:50.00Hz Lamp Flux:953.11x1 lm		
NAME: S460 8W 000 4000K	TYPE:长条形	
MFR.:	DIM.: 460*62*63mm	
	SUR.:343*57mm	

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilization(CU)									
0.0	1.15	1.15	1.15	1.10	1.10	1.10	1.01	1.01	1.01	.93	.93	.93	.86	.86	.86	.82
1.0	.96	.90	.85	.91	.87	.82	.84	.80	.76	.77	.74	.71	.70	.68	.66	.62
2.0	.82	.74	.67	.78	.71	.65	.72	.66	.61	.66	.61	.57	.60	.56	.53	.49
3.0	.71	.62	.55	.68	.60	.53	.62	.55	.50	.57	.51	.47	.52	.47	.43	.40
4.0	.62	.53	.45	.60	.51	.44	.55	.47	.42	.50	.44	.39	.46	.41	.37	.34
5.0	.55	.46	.39	.53	.44	.37	.49	.41	.35	.45	.38	.33	.41	.36	.31	.29
6.0	.49	.40	.33	.47	.39	.32	.44	.36	.31	.40	.34	.29	.37	.32	.27	.25
7.0	.44	.35	.29	.43	.34	.28	.40	.32	.27	.37	.30	.25	.34	.28	.24	.22
8.0	.40	.32	.26	.39	.31	.25	.36	.29	.24	.33	.27	.23	.31	.25	.21	.19
9.0	.37	.29	.23	.36	.28	.22	.33	.26	.21	.31	.25	.20	.29	.23	.19	.17
10.0	.34	.26	.21	.33	.25	.20	.31	.24	.19	.28	.22	.18	.26	.21	.17	.15



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2020-08-25

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.406.11  
 Humidity: 65.0%  
 Test Distance: 8.000m [K=0.7063]  
 Remarks: 电源: LS-8-200 SI1(伊戈尔)  
 PCB: S460-12S3P-V1.0  
 灯珠: HL-A-2835D46W-S1-08-HR3  
 0.5W

## WEC AND CCEC

Test:U:220.90V I:0.0720A P:8.4600W PF:0.5290 Freq:50.00Hz Lamp Flux:953.11x1 lm		
NAME: S460 8W 000 4000K	TYPE:长条形	
MFR.:	DIM.: 460*62*63mm	
	SUR.:343*57mm	

$\rho_{cc}$	80%			70%			50%			30%			10%			0	
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
$\rho_{fc}$	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.387	.220	.070	.374	.213	.068	.350	.201	.064	.328	.189	.061	.308	.179	.058		
2.0	.334	.183	.056	.323	.178	.055	.301	.168	.052	.282	.158	.049	.263	.149	.047		
3.0	.297	.158	.047	.287	.154	.046	.267	.145	.044	.249	.137	.042	.232	.129	.040		
4.0	.267	.139	.041	.258	.135	.040	.240	.127	.038	.224	.120	.036	.209	.113	.035		
5.0	.243	.124	.036	.234	.120	.035	.218	.114	.033	.203	.107	.032	.189	.101	.030		
6.0	.222	.112	.032	.215	.108	.031	.200	.103	.030	.186	.097	.028	.174	.091	.027		
7.0	.205	.101	.029	.198	.099	.028	.185	.093	.027	.172	.088	.026	.160	.083	.025		
8.0	.190	.093	.026	.184	.090	.026	.172	.086	.024	.160	.081	.023	.149	.077	.022		
9.0	.177	.086	.024	.171	.083	.023	.160	.079	.022	.149	.075	.021	.139	.071	.020		
10.0	.166	.080	.022	.160	.077	.022	.150	.073	.021	.140	.070	.020	.131	.066	.019		

$\rho_{cc}$	80%			70%			50%			30%			10%			0
$\rho_w$	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
$\rho_{fc}$	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.327	.327	.327	.280	.280	.280	.191	.191	.191	.110	.110	.110	.035	.035	.035	
1.0	.323	.293	.266	.277	.252	.229	.189	.173	.158	.109	.100	.092	.035	.032	.030	
2.0	.317	.270	.232	.271	.233	.200	.186	.161	.140	.107	.094	.082	.034	.030	.027	
3.0	.309	.254	.210	.265	.219	.182	.182	.152	.128	.105	.089	.075	.034	.029	.025	
4.0	.301	.242	.196	.259	.209	.170	.178	.145	.120	.103	.085	.071	.033	.028	.023	
5.0	.294	.232	.186	.252	.200	.162	.174	.140	.114	.101	.082	.068	.032	.027	.022	
6.0	.286	.224	.179	.246	.194	.156	.170	.136	.110	.098	.080	.066	.032	.026	.022	
7.0	.279	.217	.174	.240	.188	.151	.166	.132	.107	.096	.078	.064	.031	.025	.021	
8.0	.272	.212	.170	.235	.184	.148	.162	.129	.105	.094	.076	.063	.031	.025	.021	
9.0	.266	.207	.167	.229	.180	.145	.159	.126	.103	.093	.075	.062	.030	.024	.020	
10.0	.260	.203	.164	.224	.176	.143	.156	.124	.102	.091	.073	.061	.029	.024	.020	

**C Range:** 0 - 360DEG  
**C Interval:** 30.0DEG  
**Test Speed:** HIGH  
**Temperature:** 25.3DEG  
**Operators:** DAMIN  
**Test Date:** 2020-08-25

**$\gamma$  Range:** 0 - 180DEG  
 **$\gamma$  Interval:** 1.0DEG  
**Test System:** EVERFINE GO-2000B\_V1 SYSTEM V2.0.406.11  
**Humidity:** 65.0%  
**Test Distance:** 8.000m [K=0.7063]  
**Remarks:** 电源: LS-8-200 SI1(伊戈尔)  
 PCB: S460-12S3P-V1.0  
 灯珠: HL-A-2835D46W-S1-08-HR3  
 0.5W

UGR(Unified Glare Rating) Table

Test:U:220.90V I:0.0720A P:8.4600W PF:0.5290 Freq:50.00Hz Lamp Flux:953.1lx1 lm										
NAME: S460 8W 000 4000K					TYPE:长条形					
MFR.:					DIM.: 460*62*63mm					
					SUR.:343*57mm					
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	21.2	22.6	21.7	23.1	23.6	19.2	20.6	19.7	21.1	21.7
3H	23.9	25.1	24.4	25.7	26.3	20.8	22.0	21.3	22.6	23.2
4H	25.4	26.6	25.9	27.1	27.8	21.4	22.6	22.0	23.2	23.8
6H	27.0	28.2	27.6	28.7	29.4	21.8	23.0	22.4	23.6	24.2
8H	27.9	29.0	28.5	29.6	30.3	22.0	23.1	22.6	23.7	24.3
12H	29.0	30.1	29.6	30.7	31.3	22.0	23.1	22.6	23.7	24.4
4H 2H	21.8	23.0	22.3	23.5	24.1	20.3	21.5	20.9	22.1	22.7
3H	24.7	25.7	25.3	26.3	27.0	22.1	23.2	22.7	23.8	24.5
4H	26.4	27.3	27.0	28.0	28.7	23.0	23.9	23.6	24.5	25.3
6H	28.2	29.1	28.9	29.7	30.5	23.6	24.5	24.3	25.1	25.9
8H	29.3	30.1	29.9	30.7	31.5	23.8	24.7	24.5	25.3	26.1
12H	30.5	31.2	31.1	31.9	32.7	24.0	24.8	24.7	25.4	26.2
8H 4H	26.7	27.5	27.4	28.2	28.9	24.0	24.8	24.6	25.5	26.2
6H	28.9	29.6	29.6	30.3	31.1	25.0	25.7	25.7	26.4	27.2
8H	30.1	30.8	30.8	31.5	32.3	25.5	26.1	26.2	26.8	27.6
12H	31.6	32.1	32.3	32.9	33.7	25.9	26.4	26.6	27.1	28.0
12H 4H	26.7	27.5	27.4	28.1	28.9	24.3	25.1	25.0	25.8	26.5
6H	29.0	29.6	29.7	30.3	31.1	25.6	26.2	26.3	26.9	27.7
8H	30.4	30.9	31.1	31.6	32.5	26.2	26.8	27.0	27.5	28.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.1					+ 0.1 / - 0.1				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				

CIE Pub.117, 953.1 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = -0.2$ )

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2020-08-25

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.406.11  
 Humidity:65.0%  
 Test Distance:8.000m [K=0.7063]  
 Remarks: 电源: LS-8-200 SI1(伊戈尔)  
 PCB: S460-12S3P-V1.0  
 灯珠: HL-A-2835D46W-S1-08-HR3  
 0.5W

## UTILIZATION FACTORS TABLE

Test:U:220.90V I:0.0720A P:8.4600W PF:0.5290 Freq:50.00Hz Lamp Flux:953.11x1 lm		
NAME: S460 8W 000 4000K	TYPE:长条形	
MFR.:	DIM.: 460*62*63mm	
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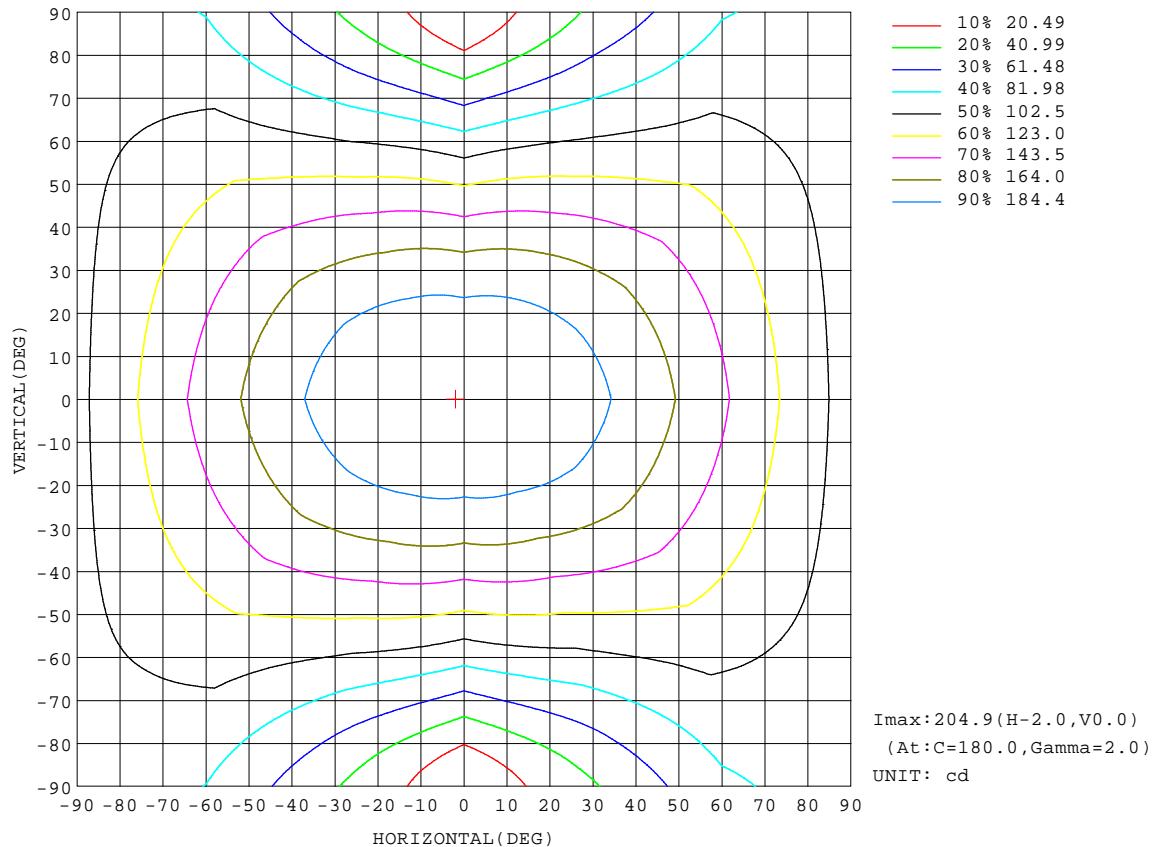
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	48	35	28	46	35	28	45	34	27	20
0.80	57	44	36	55	43	35	52	42	34	27
1.00	65	52	43	63	50	43	59	51	41	33
1.25	71	59	50	69	57	49	65	55	48	38
1.50	77	64	56	74	63	55	69	60	53	42
2.00	84	73	64	81	71	63	75	67	60	49
2.50	88	78	70	85	76	68	79	71	65	52
3.00	92	83	75	89	80	73	82	75	69	56
4.00	97	89	82	93	86	80	86	80	75	61
5.00	100	93	87	96	90	84	88	83	79	64
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

**C Range:** 0 - 360DEG  
**C Interval:** 30.0DEG  
**Test Speed:** HIGH  
**Temperature:** 25.3DEG  
**Operators:** DAMIN  
**Test Date:** 2020-08-25

**$\gamma$  Range:** 0 - 180DEG  
 **$\gamma$  Interval:** 1.0DEG  
**Test System:** EVERFINE GO-2000B\_V1 SYSTEM V2.0.406.11  
**Humidity:** 65.0%  
**Test Distance:** 8.000m [K=0.7063]  
**Remarks:** 电源: LS-8-200 SI1(伊戈尔)  
 PCB: S460-12S3P-V1.0  
 灯珠: HL-A-2835D46W-S1-08-HR3  
 0.5W

## ISOCANDELA DIAGRAM

Test:U:220.90V I:0.0720A P:8.4600W PF:0.5290 Freq:50.00Hz Lamp Flux:953.11x1 lm		
NAME: S460 8W 000 4000K	TYPE:长条形	
MFR.:	DIM.: 460*62*63mm	
	SUR.:343*57mm	



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
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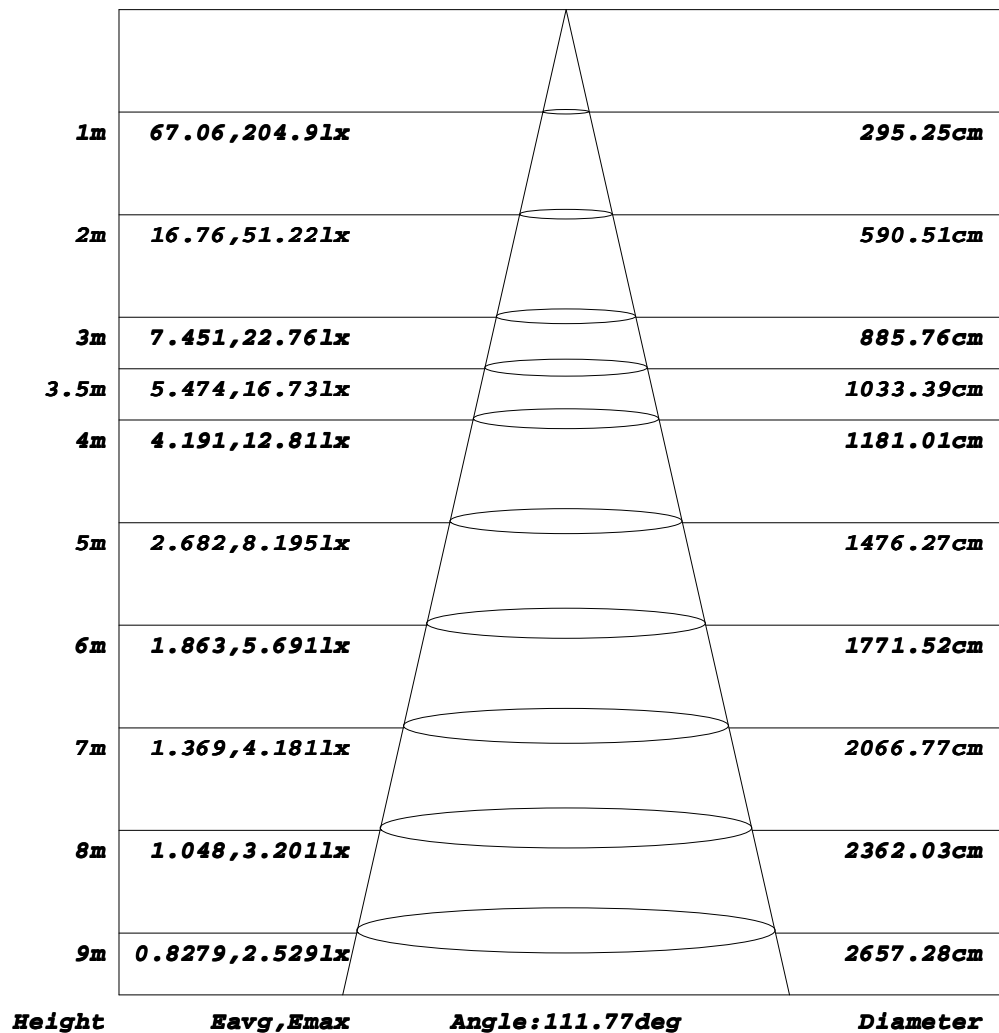
γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.406.11  
Humidity:65.0%  
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Remarks: 电源: LS-8-200 SI1(伊戈尔)  
PCB: S460-12S3P-V1.0  
灯珠: HL-A-2835D46W-S1-08-HR3  
0.5W



## AAI Figure

Test:U:220.90V I:0.0720A P:8.4600W PF:0.5290 Freq:50.00Hz Lamp Flux:953.11x1 lm		
NAME: S460 8W 000 4000K	TYPE:长条形	
MFR.:	DIM.: 460*62*63mm	
	SUR.:343*57mm	

Flux out:463.0 lm



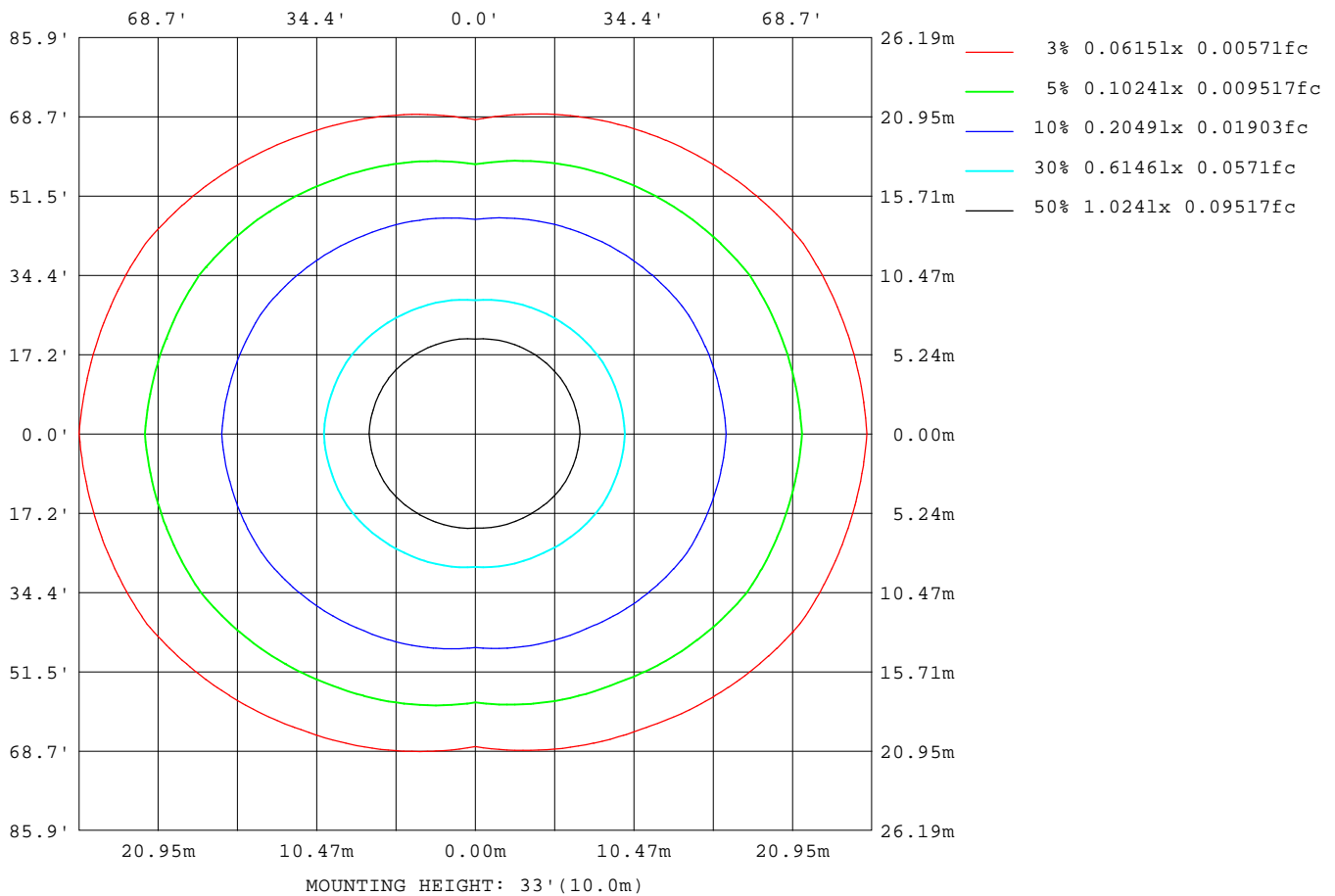
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: DAMIN  
 Test Date: 2020-08-25

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.406.11  
 Humidity: 65.0%  
 Test Distance: 8.000m [K=0.7063]  
 Remarks: 电源: LS-8-200 SI1(伊戈尔)  
 PCB: S460-12S3P-V1.0  
 灯珠: HL-A-2835D46W-S1-08-HR3  
 0.5W

## ISOLUX DIAGRAM

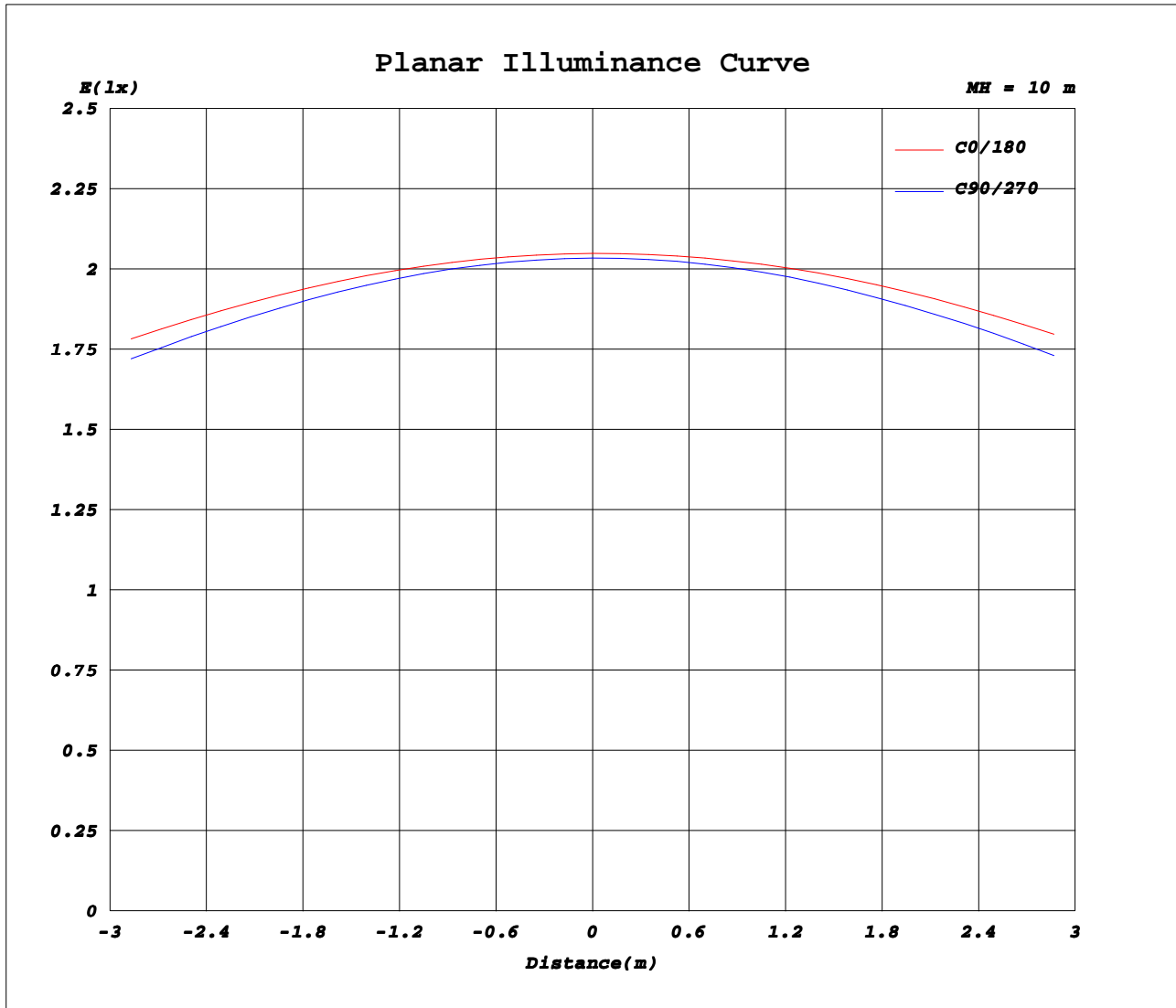
Test:U:220.90V I:0.0720A P:8.4600W PF:0.5290 Freq:50.00Hz Lamp Flux:953.11x1 lm		
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Operators: DAMIN  
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$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.406.11  
Humidity: 65.0%  
Test Distance: 8.000m [K=0.7063]  
Remarks: 电源: LS-8-200 SI1(伊戈尔)  
PCB: S460-12S3P-V1.0  
灯珠: HL-A-2835D46W-S1-08-HR3  
0.5W

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: DAMIN  
Test Date: 2020-08-25

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.406.11  
Humidity: 65.0%  
Test Distance: 8.000m [K=0.7063]  
Remarks: 电源: LS-8-200 SI1(伊戈尔)  
PCB: S460-12S3P-V1.0  
灯珠: HL-A-2835D46W-S1-08-HR3  
0.5W

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.90V I:0.0720A P:8.4600W PF:0.5290 Freq:50.00Hz Lamp Flux:953.11x1 lm		
NAME: S460 8W 000 4000K	TYPE:长条形	
MFR.:	DIM.: 460*62*63mm	
	SUR.: 343*57mm	

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	205	204	204	203	203	203	205	204	204	203	203	203							
5	204	203	203	202	202	203	205	204	203	203	203	203							
10	203	202	200	199	200	202	204	203	201	200	201	201							
15	201	199	196	195	196	199	203	201	198	196	197	199							
20	198	195	191	188	191	196	200	198	193	190	192	195							
25	194	190	184	181	185	191	197	193	187	182	186	191							
30	189	184	176	171	177	186	192	188	179	173	179	185							
35	184	178	166	160	168	180	187	181	170	162	170	178							
40	177	170	156	148	158	173	181	174	160	150	160	171							
45	170	162	144	135	147	165	174	166	149	136	149	163							
50	163	153	132	120	135	156	167	157	137	122	137	155							
55	155	144	119	105	122	146	159	148	124	106	125	145							
60	146	134	106	88.3	109	136	151	138	111	89.4	112	136							
65	138	124	93.3	71.2	96.2	127	142	129	98.1	72.6	99.4	127							
70	129	115	80.5	54.0	83.1	118	134	119	85.0	55.7	86.9	117							
75	120	105	68.3	36.9	71.2	108	125	109	72.5	39.0	74.8	108							
80	111	95.8	57.0	21.3	60.2	99.1	115	99.3	61.0	23.5	63.5	98.3							
85	102	86.6	47.2	9.06	50.6	90.2	106	89.9	50.6	10.8	53.5	89.2							
90	93.5	78.0	38.9	3.29	42.3	81.6	97.4	81.0	41.6	3.92	44.7	80.5							
95	84.8	69.7	32.2	2.81	35.4	73.4	88.5	72.3	33.6	2.71	37.2	72.1							
100	76.5	62.0	26.8	3.01	29.8	65.6	79.4	63.4	26.2	2.86	29.5	63.7							
105	68.4	54.8	22.5	3.22	25.2	57.7	70.1	54.6	22.0	3.05	24.2	52.8							
110	60.7	48.1	19.1	3.42	21.5	50.7	61.8	47.9	18.8	3.24	18.8	45.1							
115	53.3	42.0	16.4	3.63	18.5	44.1	54.6	41.8	16.2	3.46	18.3	40.3							
120	46.3	36.3	14.2	3.81	15.9	38.1	47.5	36.2	14.0	3.68	15.9	34.0							
125	39.8	31.1	12.3	3.99	13.7	32.6	40.9	31.0	12.2	3.89	13.9	29.5							
130	33.6	26.4	10.8	4.15	11.9	27.6	34.9	26.4	10.7	4.09	12.1	25.4							
135	28.2	22.2	9.21	4.32	10.3	23.2	29.4	22.2	9.53	4.29	10.4	22.9							
140	23.3	18.4	7.87	4.51	9.00	19.2	24.2	18.4	8.39	4.47	8.70	19.1							
145	19.0	15.0	6.90	4.72	7.94	15.8	19.7	15.2	7.48	4.65	7.42	15.6							
150	15.2	11.5	6.19	4.96	7.01	12.9	15.8	12.4	6.62	4.84	6.50	12.0							
155	12.0	9.01	5.78	5.18	6.23	10.4	12.6	10.0	5.98	5.01	5.80	9.20							
160	9.38	7.28	5.62	5.39	5.75	8.37	9.70	8.09	5.58	5.19	5.49	7.26							
165	7.23	6.17	5.60	5.53	5.57	6.68	7.49	6.50	5.48	5.35	5.39	6.02							
170	5.82	5.81	5.64	5.64	5.56	5.83	5.83	5.74	5.53	5.50	5.48	5.63							
175	5.69	5.72	5.69	5.68	5.61	5.62	5.69	5.63	5.64	5.60	5.58	5.62							
180	5.72	5.72	5.70	5.67	5.63	5.66	5.75	5.70	5.71	5.67	5.63	5.65							

**C Range: 0 - 360DEG**  
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**Test Speed: HIGH**  
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**0.5W**