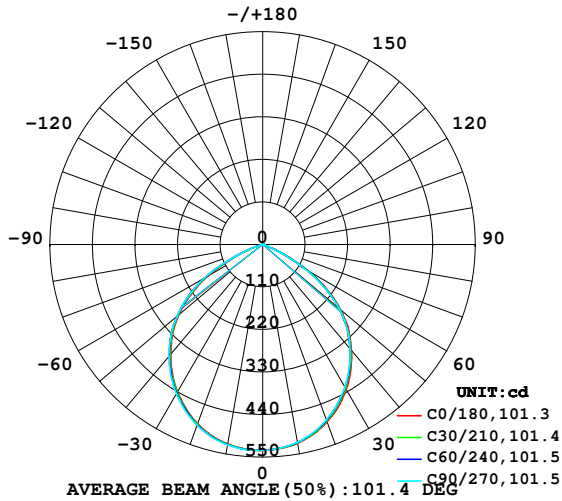


## LUMINAIRE PHOTOMETRIC TEST REPORT

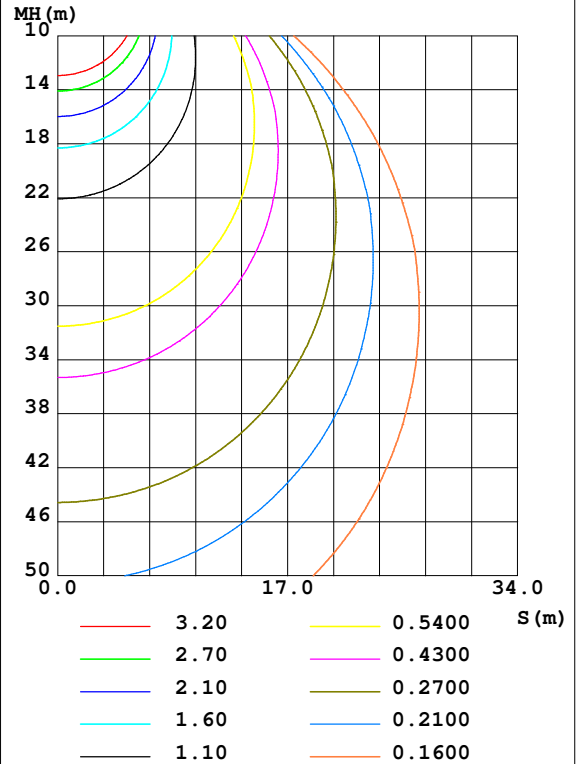
Test:U:230.46V I:0.0911A P:20.023W PF:0.9536 Freq:50.01Hz Lamp Flux:1177.73x1 lm		
NAME: SSD160	TYPE: INDOOR	WEIGHT: 450gr
SPEC.: 20W	DIM.: Ø200-H50mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 58.82 lm/W
MODEL	SSD160	I <sub>max</sub> (cd)	532.8	S/MH (C0/180)	1.23	
NOMINAL POWER (W)	20	LOR (%)	100.0	S/MH (C90/270)	1.24	
RATED VOLTAGE (V)	230.0	TOTAL FLUX (lm)	1177.7	η UP, DN (C0-180)	0.0, 47.8	
NOMINAL FLUX (lm)	1177.73	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 52.2	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25	
TEST VOLTAGE (V)	230	η down (%)	100.0	CIBSE SHR MAX	1.35	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT: lx)



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25DEG  
Operators: L Y T P A  
Test Date: 23/10/2023

γ Range: 0 - 180DEG  
γ Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.400  
Humidity: 25.0%  
Test Distance: 7.000m [K=1.0000]  
Remarks: SSD160-20W-OPAL

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	521.8	520.4	519.4	520.0	523.7	525.1	526.0	525.5	0- 10	50.36	50.36	4.28,4.28
20	488.1	485.1	482.5	484.2	493.0	495.1	497.2	497.0	10- 20	143.7	194.0	16.5,16.5
30	432.5	428.6	425.6	427.4	440.5	442.8	446.2	445.4	20- 30	214.3	408.4	34.7,34.7
40	357.5	353.8	351.6	354.4	370.3	374.0	377.1	374.4	30- 40	251.2	659.6	56,56
50	263.4	259.6	258.0	261.9	283.4	287.9	290.2	286.6	40- 50	247.8	907.4	77,77
60	132.2	128.2	126.0	126.9	162.7	172.4	174.9	166.7	50- 60	191.6	1099	93.3,93.3
70	6.144	3.190	0.0939	5.836	26.39	30.17	33.95	26.19	60- 70	76.48	1175	99.8,99.8
80	0	0	0	0	0	0	0	0	70- 80	2.248	1178	100,100
90	0	0	0	0	0	0	0	0	80- 90	0	1178	100,100
100	0	0	0	0	0	0	0	0	90-100	0	1178	100,100
110	0	0	0	0	0	0	0	0	100-110	0	1178	100,100
120	0	0	0	0	0	0	0	0	110-120	0	1178	100,100
130	0	0	0	0	0	0	0	0	120-130	0	1178	100,100
140	0	0	0	0	0	0	0	0	130-140	0	1178	100,100
150	0	0	0	0	0	0	0	0	140-150	0	1178	100,100
160	0	0	0	0	0	0	0	0	150-160	0	1178	100,100
170	0	0	0	0	0	0	0	0	160-170	0	1178	100,100
180	0	0	0	0	0	0	0	0	170-180	0	1178	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 786.72 lm

%lum = 66.8%

%lamp = 66.8%

Conical surface Flux(120deg): 1099 lm

%lum = 93.3%

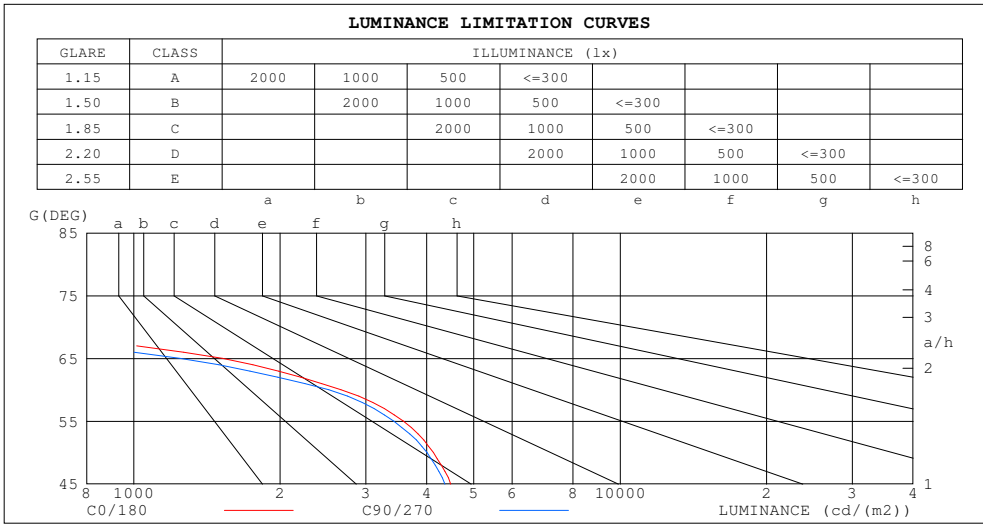
%lamp = 93.3%

C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature:25DEG  
Operators:L Ý T P A  
Test Date:23/10/2023

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.0.400  
Humidity:25.0%  
Test Distance:7.000m [K=1.0000]  
Remarks: SSD160-20W-OPAL

## LUMINANCE LIMITATION CURVES

Test:U:230.46V I:0.0911A P:20.023W PF:0.9536 Freq:50.01Hz Lamp Flux:1177.73x1 lm		
NAME: SSD160	TYPE: INDOOR	WEIGHT: 450gr
SPEC.: 20W	DIM.: Ø200-H50mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	0	0
80	0	0
75	0	0
70	181	3
65	1521	1245
60	2664	2516
55	3582	3422
50	4129	4006
45	4486	4365

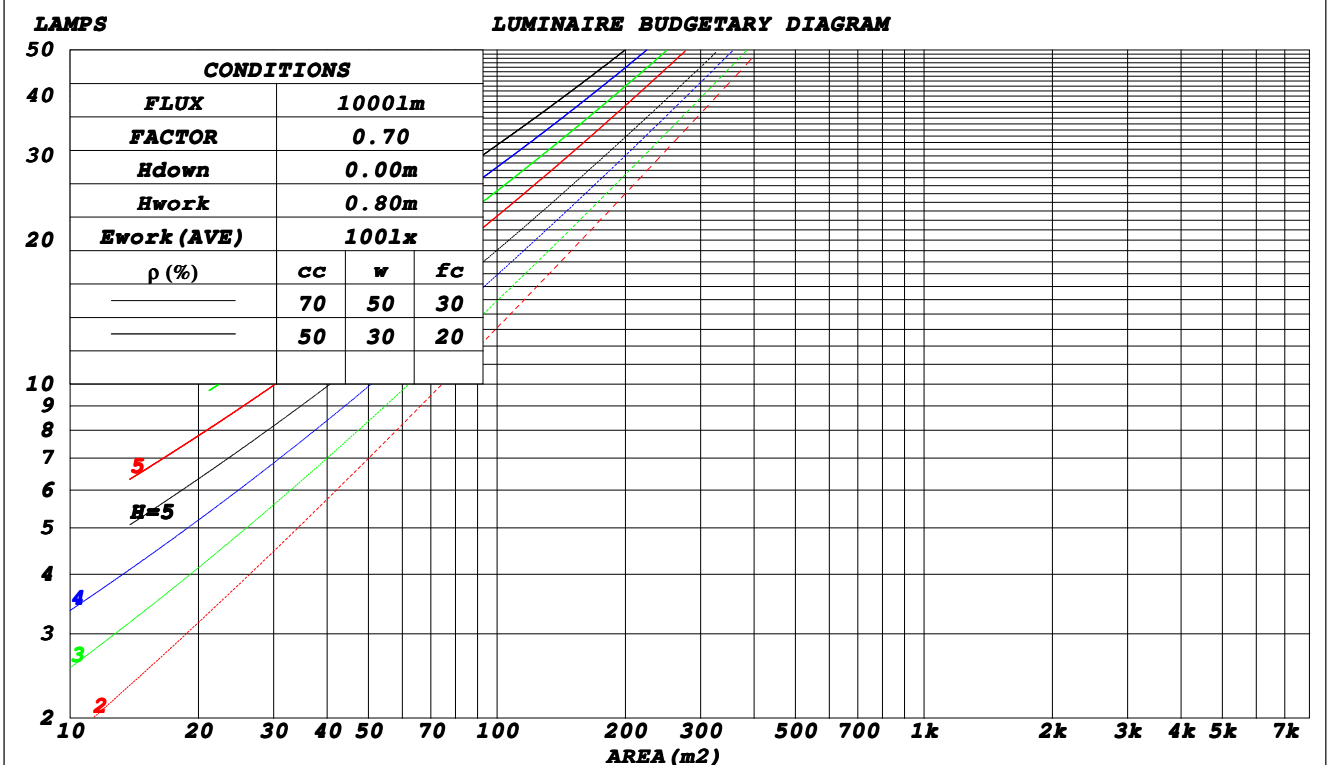
**C Range: 0 - 360DEG**  
**C Interval: 15.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25DEG**  
**Operators: L Y T P A**  
**Test Date: 23/10/2023**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.400**  
**Humidity: 25.0%**  
**Test Distance: 7.000m [K=1.0000]**  
**Remarks: SSD160-20W-OPAL**

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.46V I:0.0911A P:20.023W PF:0.9536 Freq:50.01Hz Lamp Flux:1177.73x1 lm		
NAME: SSD160	TYPE: INDOOR	WEIGHT: 450gr
SPEC.: 20W	DIM.: Ø200-H50mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

$\rho_{cc}$	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
<b>RCR</b>	<b>RCR:Room Cavity Ratio</b>															
	<b>Coefficients of Utilization(CU)</b>															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.08	1.04	1.01	1.05	1.02	.00	1.01	.99	.96	.97	.95	.94	.94	.92	.91	.89
2.0	.96	.91	.86	.94	.89	.85	.91	.87	.83	.88	.84	.81	.85	.82	.79	.77
3.0	.86	.79	.74	.84	.78	.73	.82	.76	.72	.79	.74	.70	.77	.73	.69	.67
4.0	.77	.69	.64	.76	.69	.63	.73	.67	.62	.71	.66	.62	.69	.65	.61	.59
5.0	.69	.61	.56	.68	.61	.55	.66	.60	.55	.64	.59	.54	.63	.58	.54	.52
6.0	.63	.55	.49	.62	.54	.49	.60	.53	.48	.59	.53	.48	.57	.52	.48	.46
7.0	.57	.49	.44	.57	.49	.43	.55	.48	.43	.54	.47	.43	.52	.47	.43	.41
8.0	.52	.45	.39	.52	.44	.39	.51	.44	.39	.49	.43	.39	.48	.43	.38	.37
9.0	.48	.41	.35	.48	.40	.35	.47	.40	.35	.46	.39	.35	.45	.39	.35	.33
10.0	.45	.37	.32	.44	.37	.32	.43	.37	.32	.42	.36	.32	.41	.36	.32	.30



C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25DEG  
 Operators: L Y T P A  
 Test Date: 23/10/2023

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.400  
 Humidity: 25.0%  
 Test Distance: 7.000m [K=1.0000]  
 Remarks: SSD160-20W-OPAL

### WEC AND CCEC

Test:U:230.46V I:0.0911A P:20.023W PF:0.9536 Freq:50.01Hz Lamp Flux:1177.73x1 lm		
NAME: SSD160	TYPE: INDOOR	WEIGHT: 450gr
SPEC.: 20W	DIM.: Ø200-H50mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

$\rho_{cc}$	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
<b>RCR</b>	<b>RCR:Room Cavity Ratio</b>						<b>Wall Exitance Coefficients (WEC)</b>									
0.0																
1.0	.239	.136	.043	.232	.133	.042	.219	.126	.040	.208	.120	.038	.197	.114	.037	
2.0	.237	.130	.040	.231	.127	.039	.220	.122	.038	.209	.117	.037	.200	.113	.036	
3.0	.228	.121	.036	.222	.119	.036	.213	.115	.035	.203	.112	.034	.195	.108	.033	
4.0	.216	.112	.033	.212	.111	.033	.203	.108	.032	.195	.105	.032	.187	.102	.031	
5.0	.204	.104	.030	.200	.103	.030	.193	.100	.030	.185	.098	.029	.179	.095	.029	
6.0	.193	.097	.028	.189	.096	.028	.182	.093	.027	.176	.091	.027	.170	.089	.027	
7.0	.182	.090	.025	.179	.089	.025	.172	.087	.025	.167	.085	.025	.161	.084	.025	
8.0	.172	.084	.024	.169	.083	.023	.163	.082	.023	.158	.080	.023	.153	.079	.023	
9.0	.162	.079	.022	.160	.078	.022	.155	.077	.022	.150	.075	.022	.146	.074	.021	
10.0	.154	.074	.020	.151	.073	.020	.147	.072	.020	.143	.071	.020	.139	.070	.020	

$\rho_{cc}$	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
<b>RCR</b>	<b>RCR:Room Cavity Ratio</b>						<b>Ceiling Cavity Exitance Coefficients (CCEC)</b>									
0.0																
1.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
2.0	.175	.157	.140	.150	.135	.120	.103	.093	.083	.059	.054	.048	.019	.017	.016	
3.0	.165	.132	.105	.141	.114	.090	.097	.079	.063	.056	.046	.037	.018	.015	.012	
4.0	.156	.114	.080	.134	.098	.070	.092	.068	.049	.053	.040	.029	.017	.013	.009	
5.0	.142	.090	.051	.122	.077	.044	.084	.054	.031	.049	.032	.019	.016	.010	.006	
6.0	.135	.081	.042	.116	.070	.037	.080	.049	.026	.047	.029	.015	.015	.009	.005	
7.0	.129	.074	.036	.111	.064	.031	.077	.045	.022	.045	.027	.013	.014	.009	.004	
8.0	.123	.068	.030	.106	.059	.027	.073	.042	.019	.043	.025	.011	.014	.008	.004	
9.0	.118	.063	.027	.101	.055	.023	.070	.039	.016	.041	.023	.010	.013	.007	.003	
10.0	.113	.059	.023	.097	.051	.020	.067	.036	.015	.039	.021	.009	.013	.007	.003	

**C Range: 0 - 360DEG**  
**C Interval: 15.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25DEG**  
**Operators: L Y T P A**  
**Test Date: 23/10/2023**

**$\gamma$  Range: 0 - 180DEG**  
 **$\gamma$  Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.400**  
**Humidity: 25.0%**  
**Test Distance: 7.000m [K=1.0000]**  
**Remarks: SSD160-20W-OPAL**

## UGR(Unified Glare Rating) Table

Test:U:230.46V I:0.0911A P:20.023W PF:0.9536 Freq:50.01Hz Lamp Flux:1177.73x1 lm										
NAME: SSD160					TYPE: INDOOR			WEIGHT: 450gr		
SPEC.: 20W					DIM.: Ø200-H50mm			SERIAL No.:		
MFR.: LITPA AYDINLATMA					SUR.:			Shielding Angle:		
<b>ceiling/cavity</b>	<b>0.7</b>	<b>0.7</b>	<b>0.5</b>	<b>0.5</b>	<b>0.3</b>	<b>0.7</b>	<b>0.7</b>	<b>0.5</b>	<b>0.5</b>	<b>0.3</b>
<b>walls</b>	<b>0.5</b>	<b>0.3</b>	<b>0.5</b>	<b>0.3</b>	<b>0.3</b>	<b>0.5</b>	<b>0.3</b>	<b>0.5</b>	<b>0.3</b>	<b>0.3</b>
<b>working plane</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>
<b>Room dimensions</b>	<b>Viewed crosswise</b>					<b>Viewed endwise</b>				
<b>x = 2H y = 2H</b>	<b>16.7</b>	<b>18.1</b>	<b>17.0</b>	<b>18.3</b>	<b>18.5</b>	<b>16.6</b>	<b>17.9</b>	<b>16.8</b>	<b>18.1</b>	<b>18.3</b>
<b>3H</b>	<b>16.7</b>	<b>17.9</b>	<b>17.0</b>	<b>18.2</b>	<b>18.4</b>	<b>16.5</b>	<b>17.7</b>	<b>16.8</b>	<b>17.9</b>	<b>18.2</b>
<b>4H</b>	<b>16.6</b>	<b>17.8</b>	<b>16.9</b>	<b>18.0</b>	<b>18.3</b>	<b>16.4</b>	<b>17.5</b>	<b>16.7</b>	<b>17.8</b>	<b>18.0</b>
<b>6H</b>	<b>16.5</b>	<b>17.6</b>	<b>16.8</b>	<b>17.9</b>	<b>18.1</b>	<b>16.3</b>	<b>17.4</b>	<b>16.6</b>	<b>17.6</b>	<b>17.9</b>
<b>8H</b>	<b>16.5</b>	<b>17.5</b>	<b>16.8</b>	<b>17.8</b>	<b>18.1</b>	<b>16.2</b>	<b>17.3</b>	<b>16.6</b>	<b>17.5</b>	<b>17.8</b>
<b>12H</b>	<b>16.4</b>	<b>17.4</b>	<b>16.7</b>	<b>17.7</b>	<b>18.0</b>	<b>16.2</b>	<b>17.2</b>	<b>16.5</b>	<b>17.5</b>	<b>17.8</b>
<b>4H 2H</b>	<b>16.8</b>	<b>18.0</b>	<b>17.1</b>	<b>18.2</b>	<b>18.5</b>	<b>16.6</b>	<b>17.8</b>	<b>17.0</b>	<b>18.1</b>	<b>18.3</b>
<b>3H</b>	<b>16.8</b>	<b>17.8</b>	<b>17.1</b>	<b>18.1</b>	<b>18.4</b>	<b>16.6</b>	<b>17.6</b>	<b>16.9</b>	<b>17.9</b>	<b>18.1</b>
<b>4H</b>	<b>16.7</b>	<b>17.6</b>	<b>17.0</b>	<b>17.9</b>	<b>18.2</b>	<b>16.5</b>	<b>17.4</b>	<b>16.8</b>	<b>17.7</b>	<b>18.0</b>
<b>6H</b>	<b>16.6</b>	<b>17.4</b>	<b>17.0</b>	<b>17.7</b>	<b>18.1</b>	<b>16.4</b>	<b>17.2</b>	<b>16.8</b>	<b>17.5</b>	<b>17.9</b>
<b>8H</b>	<b>16.5</b>	<b>17.3</b>	<b>16.9</b>	<b>17.6</b>	<b>18.0</b>	<b>16.3</b>	<b>17.1</b>	<b>16.7</b>	<b>17.4</b>	<b>17.8</b>
<b>12H</b>	<b>16.5</b>	<b>17.2</b>	<b>16.9</b>	<b>17.5</b>	<b>17.9</b>	<b>16.3</b>	<b>17.0</b>	<b>16.7</b>	<b>17.3</b>	<b>17.7</b>
<b>8H 4H</b>	<b>16.5</b>	<b>17.3</b>	<b>16.9</b>	<b>17.6</b>	<b>18.0</b>	<b>16.3</b>	<b>17.1</b>	<b>16.7</b>	<b>17.4</b>	<b>17.8</b>
<b>6H</b>	<b>16.5</b>	<b>17.1</b>	<b>16.9</b>	<b>17.5</b>	<b>17.9</b>	<b>16.3</b>	<b>16.8</b>	<b>16.7</b>	<b>17.2</b>	<b>17.7</b>
<b>8H</b>	<b>16.4</b>	<b>16.9</b>	<b>16.9</b>	<b>17.4</b>	<b>17.8</b>	<b>16.2</b>	<b>16.7</b>	<b>16.7</b>	<b>17.2</b>	<b>17.6</b>
<b>12H</b>	<b>16.4</b>	<b>16.8</b>	<b>16.8</b>	<b>17.3</b>	<b>17.7</b>	<b>16.2</b>	<b>16.6</b>	<b>16.6</b>	<b>17.1</b>	<b>17.5</b>
<b>12H 4H</b>	<b>16.5</b>	<b>17.2</b>	<b>16.9</b>	<b>17.5</b>	<b>17.9</b>	<b>16.3</b>	<b>17.0</b>	<b>16.7</b>	<b>17.3</b>	<b>17.7</b>
<b>6H</b>	<b>16.4</b>	<b>16.9</b>	<b>16.9</b>	<b>17.4</b>	<b>17.8</b>	<b>16.2</b>	<b>16.7</b>	<b>16.7</b>	<b>17.2</b>	<b>17.6</b>
<b>8H</b>	<b>16.4</b>	<b>16.8</b>	<b>16.8</b>	<b>17.3</b>	<b>17.7</b>	<b>16.2</b>	<b>16.6</b>	<b>16.6</b>	<b>17.1</b>	<b>17.5</b>
<b>Variations with the observer position at spacings:</b>										
<b>S = 1.0H</b>	<b>+ 0.7 / - 1.0</b>					<b>+ 0.7 / - 1.0</b>				
<b>1.5H</b>	<b>+ 0.5 / - 0.8</b>					<b>+ 0.5 / - 1.0</b>				
<b>2.0H</b>	<b>+ 1.5 / - 3.1</b>					<b>+ 1.5 / - 3.4</b>				

CIE Pub.117, 1178 lm Total Lamp Luminous Flux Corrected ( $8\log(F/F_0) = 0.6$ )

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25DEG  
 Operators: L Y T P A  
 Test Date: 23/10/2023

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.400  
 Humidity: 25.0%  
 Test Distance: 7.000m [K=1.0000]  
 Remarks: SSD160-20W-OPAL

## UTILIZATION FACTORS TABLE

Test:U:230.46V I:0.0911A P:20.023W PF:0.9536 Freq:50.01Hz Lamp Flux:1177.73x1 lm		
NAME: SSD160	TYPE: INDOOR	WEIGHT:450gr
SPEC.:20W	DIM.: Ø200-H50mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

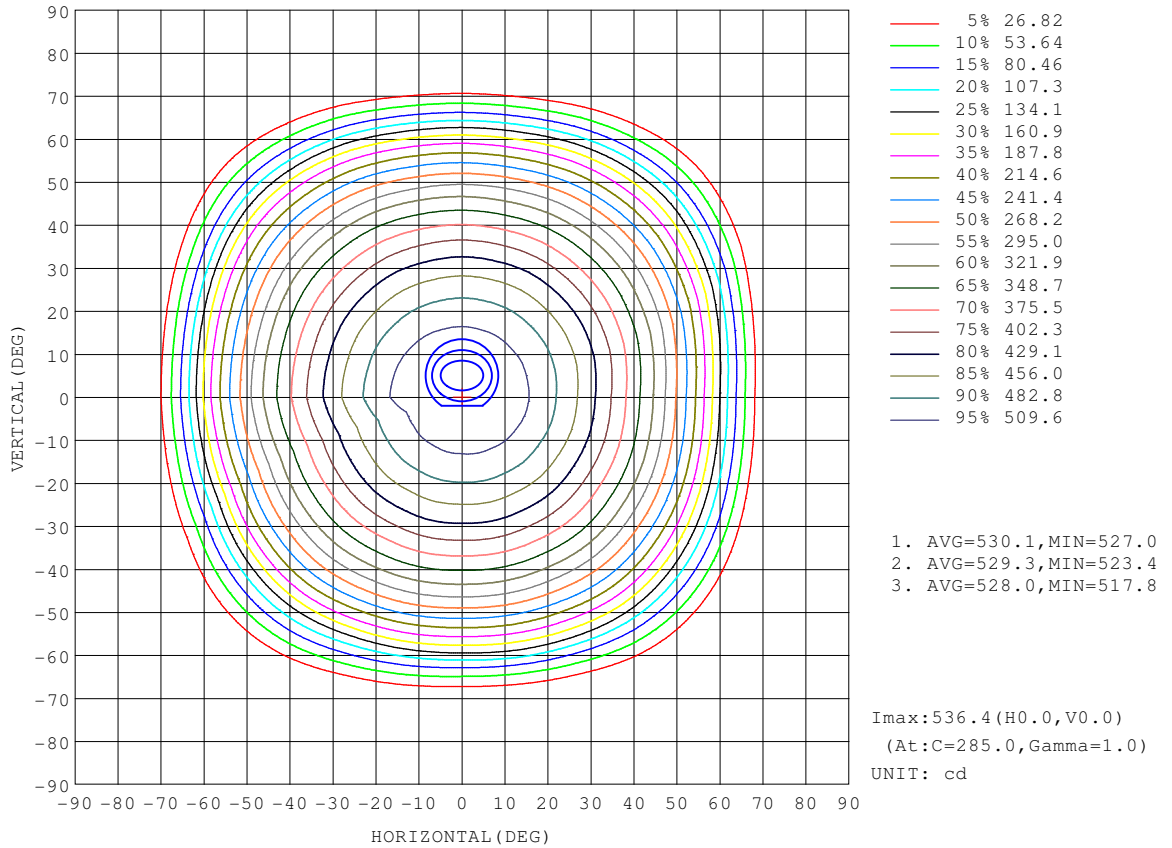
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	63	53	46	62	52	46	61	52	46	40
0.80	74	64	57	73	63	57	71	63	57	50
1.00	83	73	67	82	73	67	80	74	66	60
1.25	90	81	75	89	81	75	86	79	74	68
1.50	95	87	81	93	86	80	90	84	79	73
2.00	101	94	89	99	93	88	96	91	87	80
2.50	104	98	93	102	96	92	98	94	90	83
3.00	106	101	97	104	100	96	101	97	94	86
4.00	109	105	101	107	103	100	103	100	97	89
5.00	111	107	104	109	106	103	105	102	100	91
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended				SHRNOM = 1.25			

**C Range: 0 - 360DEG**  
**C Interval: 15.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25DEG**  
**Operators: L Ý T P A**  
**Test Date: 23/10/2023**

**$\gamma$  Range: 0 - 180DEG**  
 **$\gamma$  Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.400**  
**Humidity: 25.0%**  
**Test Distance: 7.000m [K=1.0000]**  
**Remarks: SSD160-20W-OPAL**

## ISOCANDELA DIAGRAM

Test:U:230.46V I:0.0911A P:20.023W PF:0.9536 Freq:50.01Hz Lamp Flux:1177.73x1 lm		
NAME: SSD160	TYPE: INDOOR	WEIGHT: 450gr
SPEC.: 20W	DIM.: Ø200-H50mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

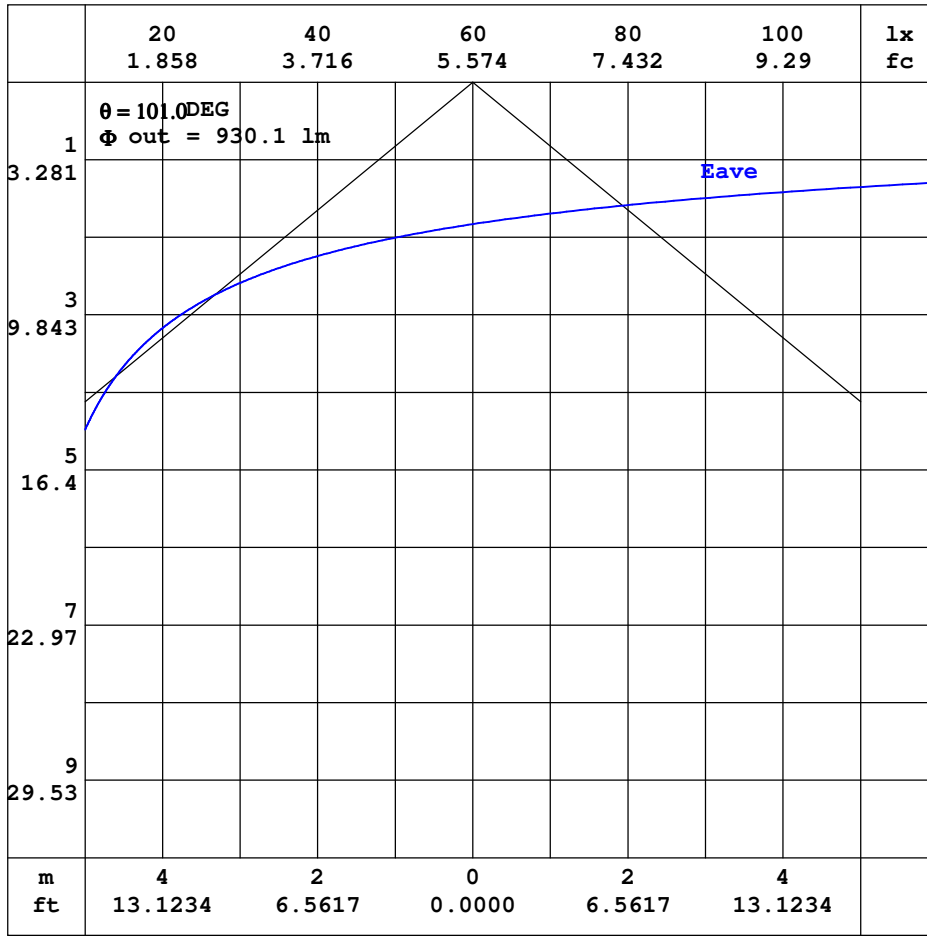


**C Range: 0 - 360DEG**  
**C Interval: 15.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25DEG**  
**Operators: L Y T P A**  
**Test Date: 23/10/2023**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.400**  
**Humidity: 25.0%**  
**Test Distance: 7.000m [K=1.0000]**  
**Remarks: SSD160-20W-OPAL**

## AAI CURVES

Test:U:230.46V I:0.0911A P:20.023W PF:0.9536 Freq:50.01Hz Lamp Flux:1177.73x1 lm		
NAME: SSD160	TYPE: INDOOR	WEIGHT: 450gr
SPEC.: 20W	DIM.: Ø200-H50mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:



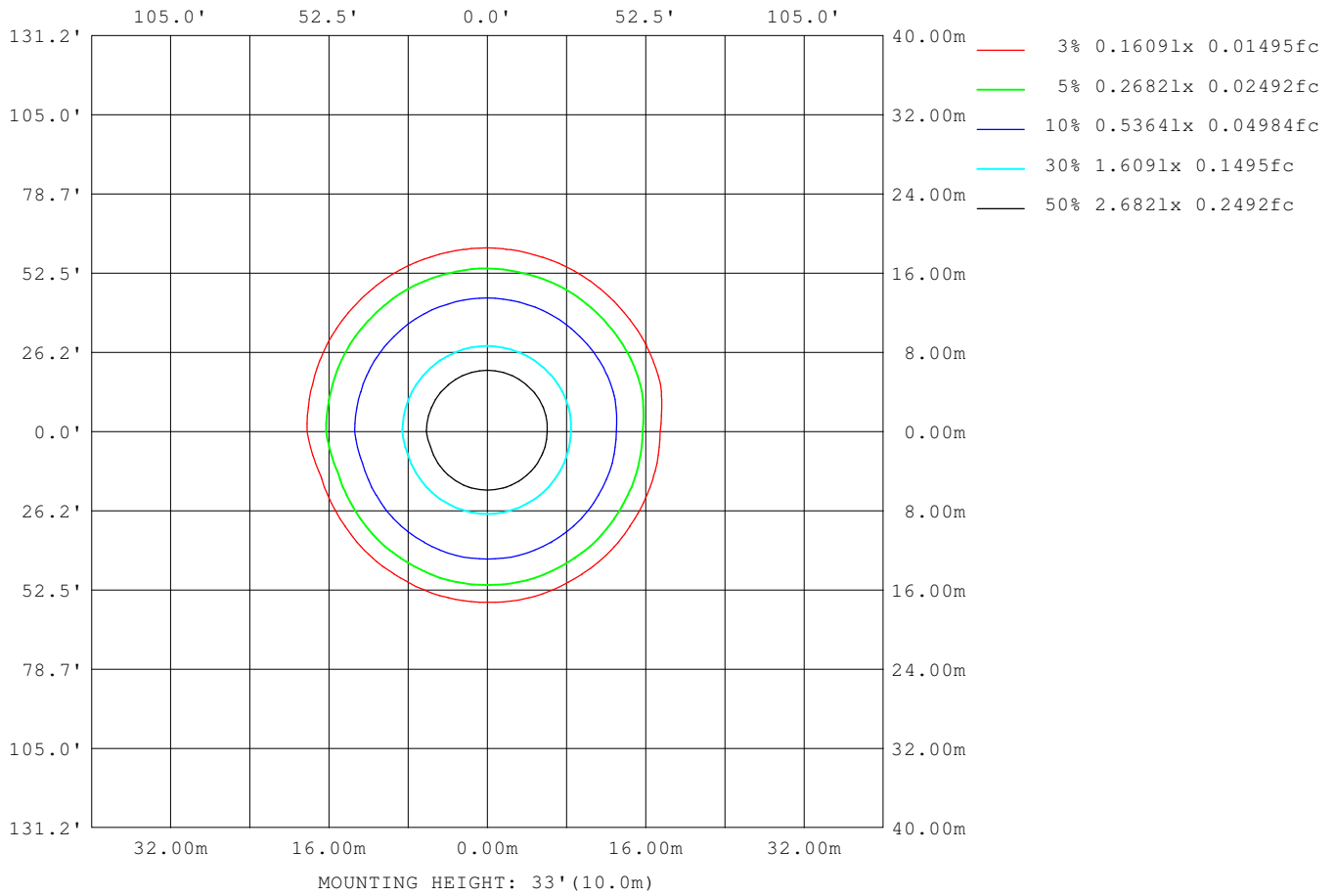
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

**C Range: 0 - 360DEG**  
**C Interval: 15.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25DEG**  
**Operators: L Y T P A**  
**Test Date: 23/10/2023**

**$\gamma$  Range: 0 - 180DEG**  
 **$\gamma$  Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.400**  
**Humidity: 25.0%**  
**Test Distance: 7.000m [K=1.0000]**  
**Remarks: SSD160-20W-OPAL**

## ISOLUX DIAGRAM

Test:U:230.46V I:0.0911A P:20.023W PF:0.9536 Freq:50.01Hz Lamp Flux:1177.73x1 lm		
NAME: SSD160	TYPE: INDOOR	WEIGHT: 450gr
SPEC.: 20W	DIM.: Ø200-H50mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:



**C Range: 0 - 360DEG**  
**C Interval: 15.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25DEG**  
**Operators: L Y T P A**  
**Test Date: 23/10/2023**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.400**  
**Humidity: 25.0%**  
**Test Distance: 7.000m [K=1.0000]**  
**Remarks: SSD160-20W-OPAL**

## LED Avg.L Report

Test:U:230.46V I:0.0911A P:20.023W PF:0.9536 Freq:50.01Hz Lamp Flux:1177.73x1 lm		
NAME: SSD160	TYPE: INDOOR	WEIGHT: 450gr
SPEC.: 20W	DIM.: Ø200-H50mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

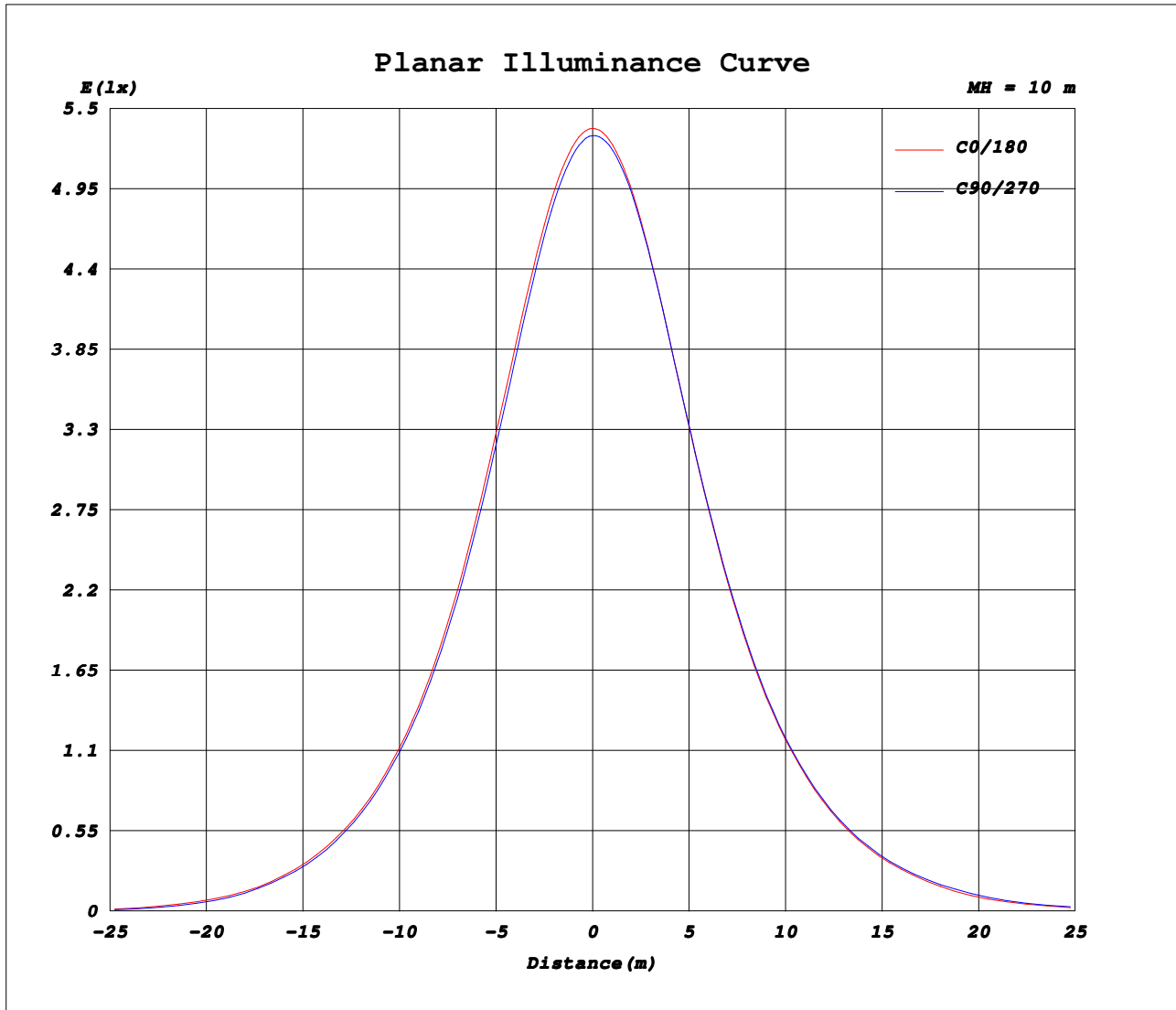
AvgL	cd/m2
L_0~180 (65) av	1769
L_0~180 (75) av	0
L_0~180 (85) av	0
L_90~270 (65) av	1777
L_90~270 (75) av	0
L_90~270 (85) av	0
L_45 (65) av	1784
L_45 (75) av	0
L_45 (85) av	0

Standard: GB/T 29293-2012

**C Range: 0 - 360DEG**  
**C Interval: 15.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25DEG**  
**Operators: L Y T P A**  
**Test Date: 23/10/2023**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.400**  
**Humidity: 25.0%**  
**Test Distance: 7.000m [K=1.0000]**  
**Remarks: SSD160-20W-OPAL**

## Planar Illuminance Curve



C Range: 0 - 360DEG  
C Interval: 15.0DEG  
Test Speed: HIGH  
Temperature: 25DEG  
Operators: L Ý T P A  
Test Date: 23/10/2023

$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 1.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.400  
Humidity: 25.0%  
Test Distance: 7.000m [K=1.0000]  
Remarks: SSD160-20W-OPAL

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.46V I:0.0911A P:20.023W PF:0.9536 Freq:50.01Hz Lamp Flux:1177.73x1 lm		
NAME: SSD160	TYPE: INDOOR	WEIGHT: 450gr
SPEC.: 20W	DIM.: Ø200-H50mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) γ (DEG)	0	15	30	45	60	75	90	105	120	135	150	165	180	195	210	225	240	255	270
0	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532	532
5	529	529	529	529	528	529	529	529	528	529	529	529	531	531	531	531	531	531	532
10	522	522	521	520	519	520	519	520	519	520	520	520	524	524	525	525	526	526	526
15	508	508	506	506	505	505	504	504	504	505	505	506	512	512	513	513	514	514	515
20	488	488	486	485	483	483	483	483	483	484	484	485	493	493	495	495	496	496	497
25	463	462	460	459	457	457	456	457	456	458	458	460	469	469	471	471	473	473	474
30	433	432	429	429	426	426	426	426	426	427	427	430	440	441	442	443	445	445	446
35	397	396	393	393	391	391	390	392	391	393	393	395	407	408	410	410	412	412	414
40	357	357	354	354	352	353	352	353	352	354	354	357	370	371	373	374	376	376	377
45	315	314	311	311	309	310	309	311	311	313	313	315	330	331	334	334	336	336	336
50	263	262	259	260	258	259	258	260	259	262	262	265	283	284	287	288	290	289	290
55	204	203	199	200	198	199	197	199	198	202	202	207	228	230	234	234	237	236	237
60	132	131	127	128	127	129	126	126	124	127	127	132	163	167	172	172	175	174	175
65	63.8	63.3	59.6	58.4	54.0	53.8	52.7	56.3	57.5	60.9	61.3	63.9	85.7	87.1	91.5	93.0	97.1	96.6	97.5
70	6.14	6.31	3.40	3.19	0.26	1.19	0.09	2.25	2.44	5.84	6.39	9.07	26.4	26.5	29.9	30.2	33.1	32.4	33.9
75	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
80	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
85	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	0.00	0.00	0.00	0.00	0.00	0.00	0.00

C Range: 0 - 360DEG  
 C Interval: 15.0DEG  
 Test Speed: HIGH  
 Temperature: 25DEG  
 Operators: L Y T P A  
 Test Date: 23/10/2023

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.400  
 Humidity: 25.0%  
 Test Distance: 7.000m [K=1.0000]  
 Remarks: SSD160-20W-OPAL

## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:230.46V I:0.0911A P:20.023W PF:0.9536 Freq:50.01Hz Lamp Flux:1177.73x1 lm		
NAME: SSD160	TYPE: INDOOR	WEIGHT: 450gr
SPEC.: 20W	DIM.: Ø200-H50mm	SERIAL No.:
MFR.: LITPA AYDINLATMA	SUR.:	Shielding Angle:

Table--2

UNIT: cd

C (DEG) \ γ (DEG)	285	300	315	330	345															
0	532	532	532	532	532															
5	532	531	532	532	531															
10	526	526	526	526	525															
15	515	515	515	515	514															
20	497	497	497	497	496															
25	474	474	474	474	472															
30	446	446	445	445	444															
35	413	414	412	412	410															
40	376	376	374	374	372															
45	335	335	333	333	330															
50	289	289	287	286	282															
55	234	234	231	230	226															
60	171	172	167	165	160															
65	94.2	93.9	89.3	87.6	84.4															
70	31.0	29.9	26.2	26.0	23.4															
75	0.00	0.00	0.00	0.00	0.00															
80	0.00	0.00	0.00	0.00	0.00															
85	0.00	0.00	0.00	0.00	0.00															
90	0.00	0.00	0.00	0.00	0.00															
95	0.00	0.00	0.00	0.00	0.00															
100	0.00	0.00	0.00	0.00	0.00															
105	0.00	0.00	0.00	0.00	0.00															
110	0.00	0.00	0.00	0.00	0.00															
115	0.00	0.00	0.00	0.00	0.00															
120	0.00	0.00	0.00	0.00	0.00															
125	0.00	0.00	0.00	0.00	0.00															
130	0.00	0.00	0.00	0.00	0.00															
135	0.00	0.00	0.00	0.00	0.00															
140	0.00	0.00	0.00	0.00	0.00															
145	0.00	0.00	0.00	0.00	0.00															
150	0.00	0.00	0.00	0.00	0.00															
155	0.00	0.00	0.00	0.00	0.00															
160	0.00	0.00	0.00	0.00	0.00															
165	0.00	0.00	0.00	0.00	0.00															
170	0.00	0.00	0.00	0.00	0.00															
175	0.00	0.00	0.00	0.00	0.00															
180	0.00	0.00	0.00	0.00	0.00															

**C Range: 0 - 360DEG**  
**C Interval: 15.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25DEG**  
**Operators: L Y T P A**  
**Test Date: 23/10/2023**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.0.400**  
**Humidity: 25.0%**  
**Test Distance: 7.000m [K=1.0000]**  
**Remarks: SSD160-20W-OPAL**