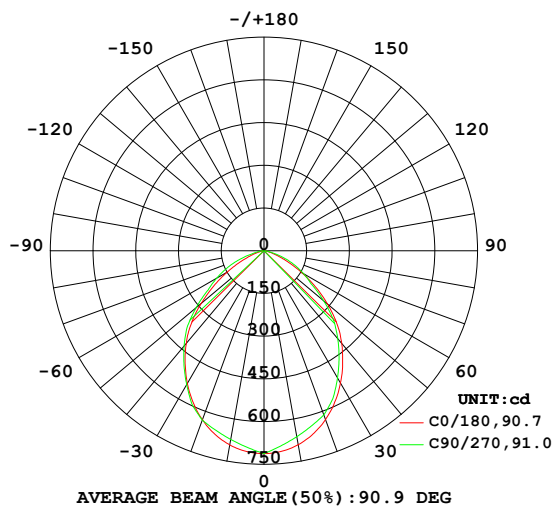


## LUMINAIRE PHOTOMETRIC TEST REPORT

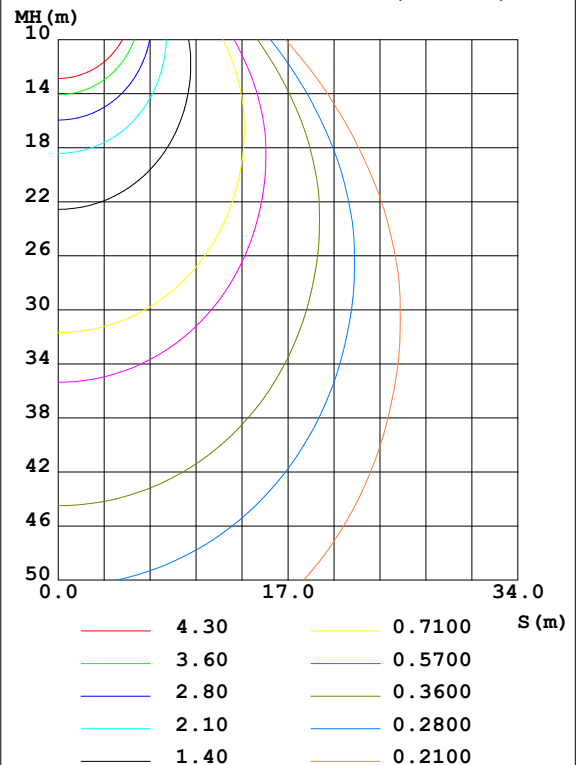
Test:U:120.70V I:0.1390A P:15.700W PF:0.9320 Freq:60.00Hz Lamp Flux:1427.93x1 lm		
NAME: AVD56B-5CCT-WH	TYPE: Down light	WEIGHT: 0.3Kg
SPEC.: 15W	DIM.: $\phi 188 \times 70$ (MM)	SERIAL No.: 01
MFR.: Signcomplex	SUR.: $\phi 90$ (MM)	Shielding Angle: 120°

DATA OF LAMP		PHOTOMETRIC DATA Eff: 90.95 lm/W			
MODEL	SMD 2835/LED	I <sub>max</sub> (cd)	712.4	S/MH (C0/180)	1.14
NOMINAL POWER (W)	15.7	LOR (%)	100.0	S/MH (C90/270)	1.10
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	1427.9	$\eta$ UP, DN (C0-180)	0.0, 51.5
NOMINAL FLUX (lm)	1427.93	CIE CLASS	DIRECT	$\eta$ UP, DN (C180-360)	0.0, 48.5
LAMPS INSIDE	1	$\eta$ up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120.7	$\eta$ down (%)	100.0	CIBSE SHR MAX	1.25

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



H( $\beta$ ) Range: -90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: yang  
Test Date: 2024-07-26

V(B) Range: -90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.429  
Humidity: 65.0%  
Test Distance: 8.345m [K=1.0186]  
Remarks:

## ZONAL FLUX DIAGRAM

## ZONAL FLUX DIAGRAM:

$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum, lamp
10	692.4	676.1	672.8	672.6	691.8	665.7	663.1	669.2	0- 10	65.71	65.71	4.6,4.6
20	631.9	622.3	633.2	613.4	631.1	600.0	613.7	608.8	10- 20	182.4	248.2	17.4,17.4
30	538.2	543.1	543.2	538.5	536.8	519.3	516.4	524.1	20- 30	265.1	513.3	35.9,35.9
40	424.6	423.7	436.4	423.7	424.8	400.3	403.0	400.4	30- 40	295.5	808.8	56.6,56.6
50	287.7	295.5	311.2	297.7	291.6	271.3	274.0	269.5	40- 50	272.1	1081	75.7,75.7
60	147.4	165.4	191.1	165.4	152.1	141.4	159.9	140.9	50- 60	195.1	1276	89.4,89.4
70	47.24	75.43	94.30	73.65	48.85	59.79	76.24	61.06	60- 70	106.6	1383	96.8,96.8
80	9.398	19.43	17.90	18.49	10.26	13.94	10.87	14.67	70- 80	38.59	1421	99.5,99.5
90	0.1161	1.363	2.587	1.837	0.2614	0.2517	0.2566	0.2517	80- 90	6.702	1428	100,100
100									90-100			
110									100-110			
120									110-120			
130									120-130			
140									130-140			
150									140-150			
160									150-160			
170									160-170			
180									170-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 951.27 lm

%lum = 66.6%

%lamp = 66.6%

Conical surface Flux(120deg): 1276 lm

%lum = 89.4%

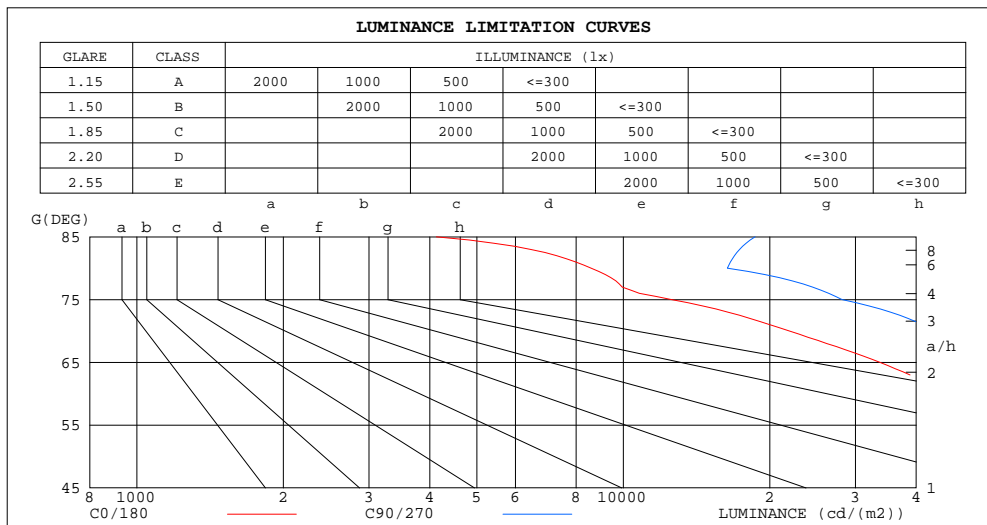
%lamp = 89.4%

H( $\beta$ ) Range:-90 - 90DEG  
 H( $\beta$ ) Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:yang  
 Test Date:2024-07-26

V(B) Range:-90 - 90DEG  
 V(B) Interval: 5.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.429  
 Humidity:65.0%  
 Test Distance:8.345m [K=1.0186]  
 Remarks:

## LUMINANCE LIMITATION CURVES

Test:U:120.70V I:0.1390A P:15.700W PF:0.9320 Freq:60.00Hz Lamp Flux:1427.93x1 lm		
NAME: AVD56B-5CCT-WH	TYPE: Down light	WEIGHT: 0.3Kg
SPEC.: 15W	DIM.: $\phi 188 \times 70$ (MM)	SERIAL No.: 01
MFR.: Signcomplex	SUR.: $\phi 90$ (MM)	Shielding Angle: 120°



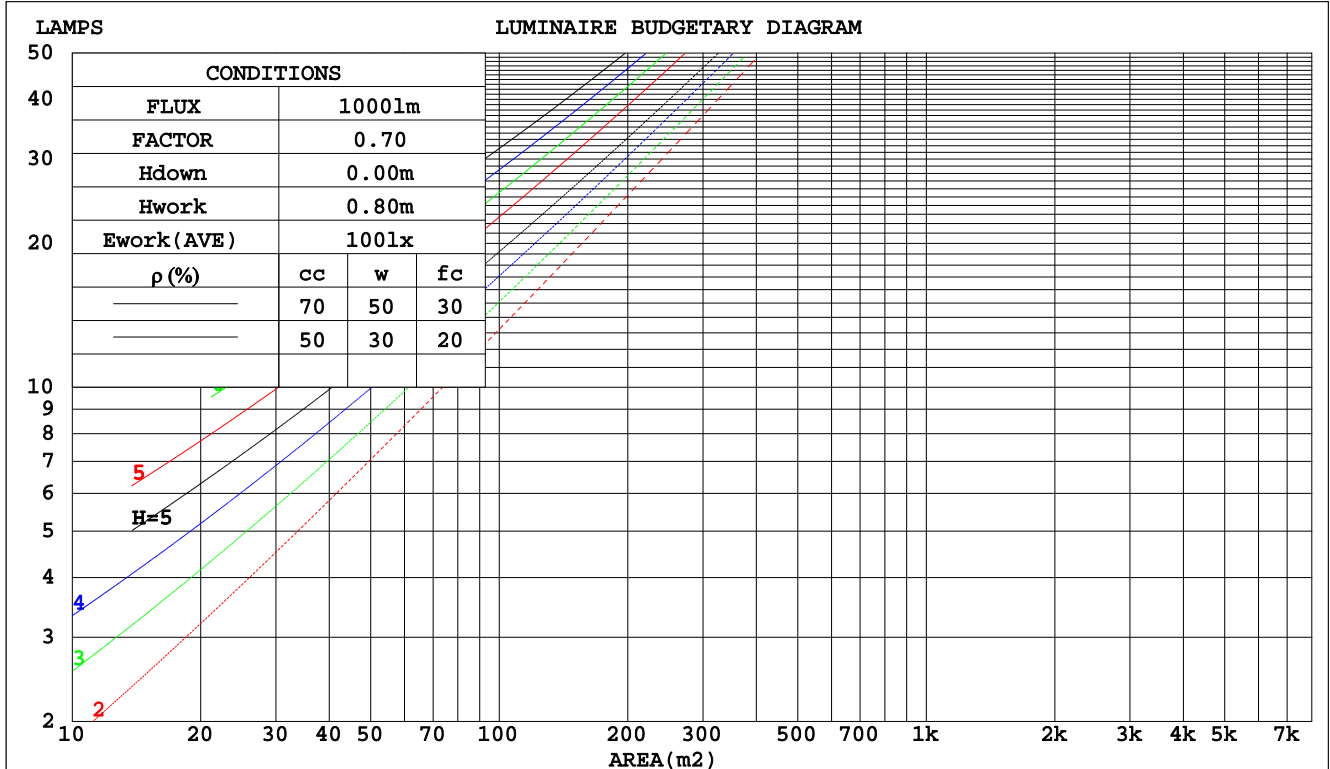
H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:yang  
Test Date:2024-07-26

V(B) Range:-90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.429  
Humidity:65.0%  
Test Distance:8.345m [K=1.0186]  
Remarks:

## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.70V I:0.1390A P:15.700W PF:0.9320 Freq:60.00Hz Lamp Flux:1427.93x1 lm		
NAME: AVD56B-5CCT-WH	TYPE: Down light	WEIGHT: 0.3Kg
SPEC.: 15W	DIM.: $\phi 188 \times 70$ (MM)	SERIAL No.: 01
MFR.: Signcomplex	SUR.: $\phi 90$ (MM)	Shielding Angle: 120°

$\rho_{cc}$	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	Coefficients of Utilization(CU)															
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	1.07	1.03	1.00	1.05	1.01	.98	1.00	.98	.95	.97	.94	.92	.93	.91	.90	.88
2.0	.95	.89	.84	.93	.88	.83	.90	.85	.82	.87	.83	.80	.84	.81	.78	.76
3.0	.85	.78	.72	.83	.77	.72	.81	.75	.70	.78	.73	.69	.76	.71	.68	.66
4.0	.76	.69	.63	.75	.68	.62	.73	.66	.61	.70	.65	.61	.68	.64	.60	.58
5.0	.69	.61	.55	.68	.60	.55	.66	.59	.54	.64	.58	.53	.62	.57	.53	.51
6.0	.63	.54	.49	.62	.54	.48	.60	.53	.48	.58	.52	.48	.57	.51	.47	.45
7.0	.57	.49	.43	.56	.49	.43	.55	.48	.43	.54	.47	.43	.52	.47	.42	.41
8.0	.53	.45	.39	.52	.44	.39	.51	.44	.39	.49	.43	.39	.48	.43	.38	.37
9.0	.48	.41	.36	.48	.41	.36	.47	.40	.35	.46	.40	.35	.45	.39	.35	.33
10.0	.45	.37	.33	.44	.37	.32	.43	.37	.32	.43	.36	.32	.42	.36	.32	.30



H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:yang  
Test Date:2024-07-26

V(B) Range:-90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.429  
Humidity:65.0%  
Test Distance:8.345m [K=1.0186]  
Remarks:

## WEC AND CCEC

Test:U:120.70V I:0.1390A P:15.700W PF:0.9320 Freq:60.00Hz Lamp Flux:1427.93x1 lm		
NAME: AVD56B-5CCT-WH	TYPE: Down light	WEIGHT: 0.3Kg
SPEC.: 15W	DIM.: $\phi$ 188*70 (MM)	SERIAL No.: 01
MFR.: Signcomplex	SUR.: $\phi$ 90 (MM)	Shielding Angle: 120°

$\rho_{cc}$	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	.254	.145	.046	.248	.141	.045	.235	.135	.043	.223	.128	.041	.212	.123	.040		
2.0	.247	.135	.042	.241	.133	.041	.230	.128	.040	.219	.123	.038	.210	.119	.037		
3.0	.234	.124	.037	.229	.122	.037	.219	.118	.036	.209	.115	.035	.201	.111	.034		
4.0	.220	.114	.034	.215	.113	.033	.206	.109	.033	.198	.106	.032	.191	.104	.032		
5.0	.206	.105	.030	.202	.104	.030	.194	.101	.030	.187	.099	.029	.180	.096	.029		
6.0	.194	.097	.028	.190	.096	.028	.183	.094	.027	.177	.092	.027	.171	.090	.027		
7.0	.182	.090	.026	.179	.089	.025	.173	.087	.025	.167	.086	.025	.161	.084	.025		
8.0	.172	.084	.024	.169	.083	.023	.163	.081	.023	.158	.080	.023	.153	.079	.023		
9.0	.162	.078	.022	.159	.078	.022	.154	.076	.022	.150	.075	.021	.145	.074	.021		
10.0	.153	.073	.020	.151	.073	.020	.146	.072	.020	.142	.071	.020	.138	.069	.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
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.190	.190	.190	.163	.163	.163	.111	.111	.111	.064	.064	.064	.020	.020	.020	
1.0	.176	.157	.139	.151	.134	.119	.103	.092	.083	.059	.054	.048	.019	.017	.016	
2.0	.166	.132	.103	.142	.114	.089	.098	.079	.062	.056	.046	.037	.018	.015	.012	
3.0	.158	.114	.079	.135	.098	.069	.093	.068	.048	.054	.040	.028	.017	.013	.009	
4.0	.150	.100	.063	.128	.087	.054	.088	.060	.038	.051	.035	.023	.016	.012	.007	
5.0	.142	.090	.051	.122	.078	.044	.084	.054	.031	.049	.032	.018	.016	.010	.006	
6.0	.135	.081	.042	.116	.070	.037	.080	.049	.026	.047	.029	.015	.015	.009	.005	
7.0	.129	.074	.035	.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	.112	.059	.024	.097	.051	.021	.067	.036	.015	.039	.021	.009	.013	.007	.003	

$H(\beta)$  Range:-90 - 90DEG  
 $H(\beta)$  Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:yang  
 Test Date:2024-07-26

$V(B)$  Range:-90 - 90DEG  
 $V(B)$  Interval: 5.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.429  
 Humidity:65.0%  
 Test Distance:8.345m [K=1.0186]  
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:120.70V I:0.1390A P:15.700W PF:0.9320 Freq:60.00Hz Lamp Flux:1427.93x1 lm											
NAME: AVD56B-5CCT-WH						TYPE: Down light		WEIGHT: 0.3Kg			
SPEC.: 15W						DIM.: $\phi$ 188*70 (MM)		SERIAL No.: 01			
MFR.: Signcomplex						SUR.: $\phi$ 90 (MM)		Shielding Angle: 120°			
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	25.5	27.0	25.9	27.3	27.6	26.2	27.7	26.6	28.0	28.3	
	3H	26.1	27.4	26.5	27.7	28.1	27.5	28.8	27.9	29.2	29.5
	4H	26.1	27.4	26.5	27.7	28.1	27.8	29.0	28.2	29.4	29.7
	6H	26.1	27.3	26.5	27.6	28.0	27.9	29.0	28.3	29.4	29.8
	8H	26.1	27.2	26.5	27.6	28.0	27.9	28.9	28.3	29.3	29.7
	12H	26.1	27.1	26.5	27.5	27.9	27.9	28.9	28.3	29.3	29.7
4H	2H	25.9	27.1	26.3	27.4	27.8	26.4	27.6	26.8	28.0	28.4
	3H	26.6	27.6	27.0	28.0	28.4	28.0	29.0	28.4	29.4	29.8
	4H	26.7	27.6	27.1	28.0	28.4	28.3	29.2	28.7	29.6	30.1
	6H	26.7	27.5	27.2	27.9	28.4	28.4	29.2	28.9	29.7	30.1
	8H	26.7	27.4	27.1	27.8	28.3	28.4	29.2	28.9	29.6	30.1
	12H	26.7	27.3	27.1	27.8	28.2	28.5	29.1	28.9	29.6	30.1
8H	4H	26.8	27.6	27.3	28.0	28.5	28.3	29.0	28.8	29.5	30.0
	6H	26.9	27.5	27.4	28.0	28.5	28.5	29.1	29.0	29.6	30.0
	8H	26.9	27.4	27.4	27.9	28.4	28.5	29.0	29.0	29.6	30.0
	12H	26.9	27.4	27.4	27.8	28.4	28.6	29.0	29.1	29.5	30.1
12H	4H	26.8	27.5	27.3	28.0	28.4	28.3	28.9	28.8	29.4	29.9
	6H	26.9	27.4	27.4	27.9	28.4	28.5	29.0	29.0	29.5	30.0
	8H	26.9	27.4	27.4	27.9	28.4	28.5	29.0	29.0	29.5	30.0
CIE190: 2010											

CIE190: 2010  
Area: 0.0063 m2

H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:yang  
Test Date:2024-07-26

V(B) Range:-90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.429  
Humidity:65.0%  
Test Distance:8.345m [K=1.0186]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:120.70V I:0.1390A P:15.700W PF:0.9320 Freq:60.00Hz Lamp Flux:1427.93x1 lm		
NAME: AVD56B-5CCT-WH	TYPE: Down light	WEIGHT: 0.3Kg
SPEC.: 15W	DIM.: $\phi 188 \times 70$ (MM)	SERIAL No.: 01
MFR.: Signcomplex	SUR.: $\phi 90$ (MM)	Shielding Angle: 120°

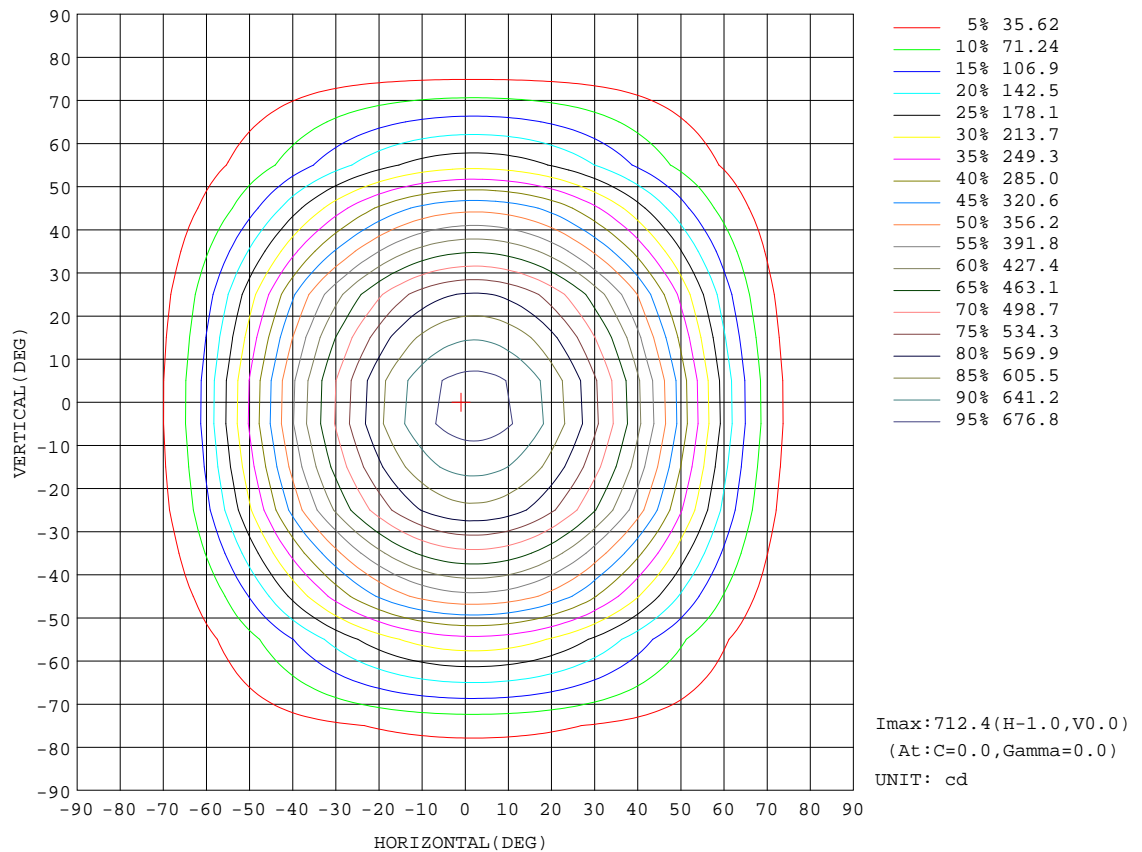
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	64	54	47	64	54	47	62	53	47	41
0.80	74	64	58	73	64	58	72	63	57	51
1.00	83	73	67	82	73	67	79	74	66	60
1.25	89	80	74	88	80	74	86	78	73	67
1.50	94	86	80	92	85	79	90	83	78	72
2.00	100	93	87	98	92	87	95	89	85	78
2.50	103	97	92	101	95	91	97	93	89	81
3.00	106	100	96	104	99	95	100	96	92	85
4.00	109	104	101	107	103	99	103	99	96	88
5.00	111	107	104	109	105	102	104	101	99	90
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

$H(\beta)$  Range:-90 - 90DEG  
 $H(\beta)$  Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:yang  
 Test Date:2024-07-26

$V(B)$  Range:-90 - 90DEG  
 $V(B)$  Interval: 5.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.429  
 Humidity:65.0%  
 Test Distance:8.345m [K=1.0186]  
 Remarks:

## ISOCANDELA DIAGRAM

Test:U:120.70V I:0.1390A P:15.700W PF:0.9320 Freq:60.00Hz Lamp Flux:1427.93x1 lm		
NAME: AVD56B-5CCT-WH	TYPE: Down light	WEIGHT: 0.3Kg
SPEC.: 15W	DIM.: $\phi 188 \times 70$ (MM)	SERIAL No.: 01
MFR.: Signcomplex	SUR.: $\phi 90$ (MM)	Shielding Angle: 120°



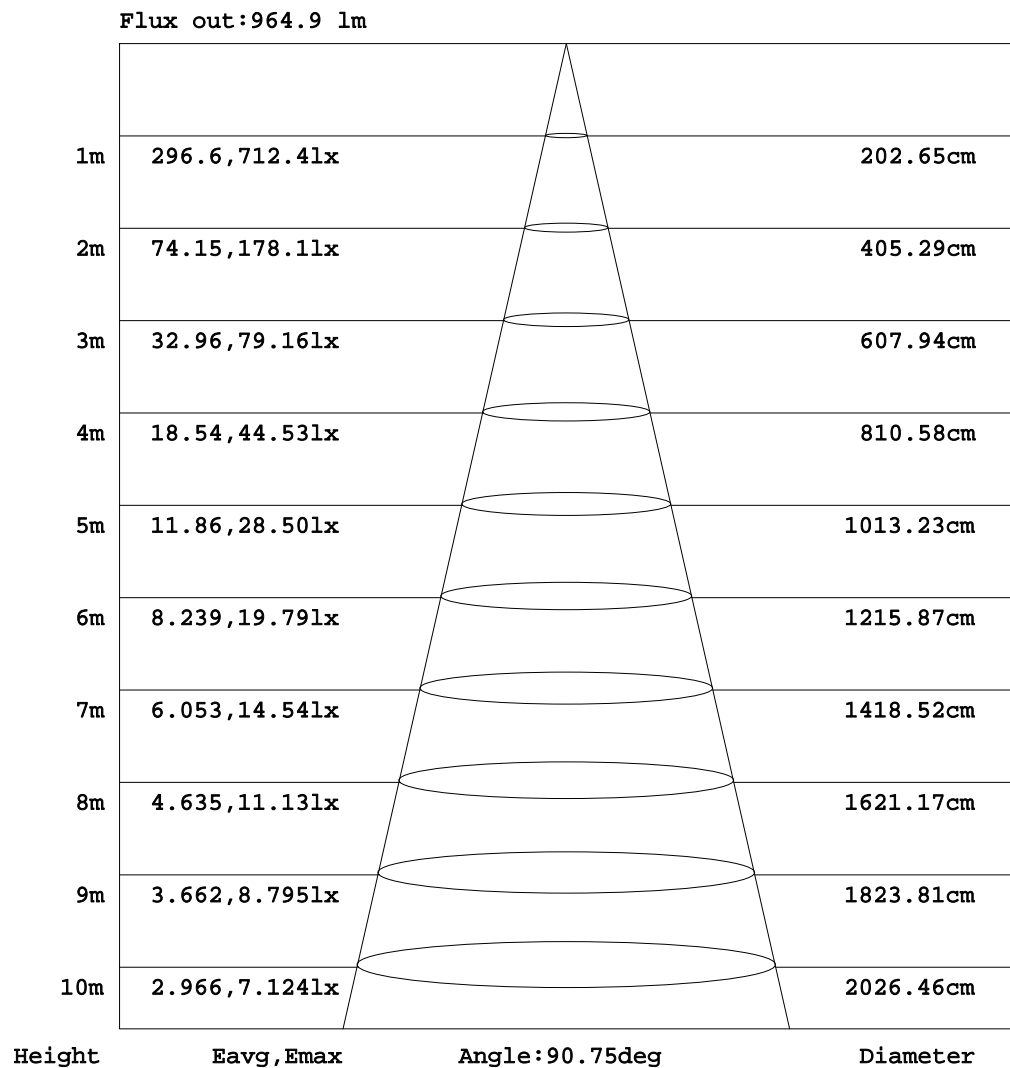
H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:yang  
Test Date:2024-07-26

V(B) Range:-90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.429  
Humidity:65.0%  
Test Distance:8.345m [K=1.0186]  
Remarks:



### AAI Figure

Test:U:120.70V I:0.1390A P:15.700W PF:0.9320 Freq:60.00Hz Lamp Flux:1427.93x1 lm		
NAME: AVD56B-5CCT-WH	TYPE: Down light	WEIGHT: 0.3Kg
SPEC.: 15W	DIM.: $\phi 188 \times 70$ (MM)	SERIAL No.: 01
MFR.: Signcomplex	SUR.: $\phi 90$ (MM)	Shielding Angle: 120°



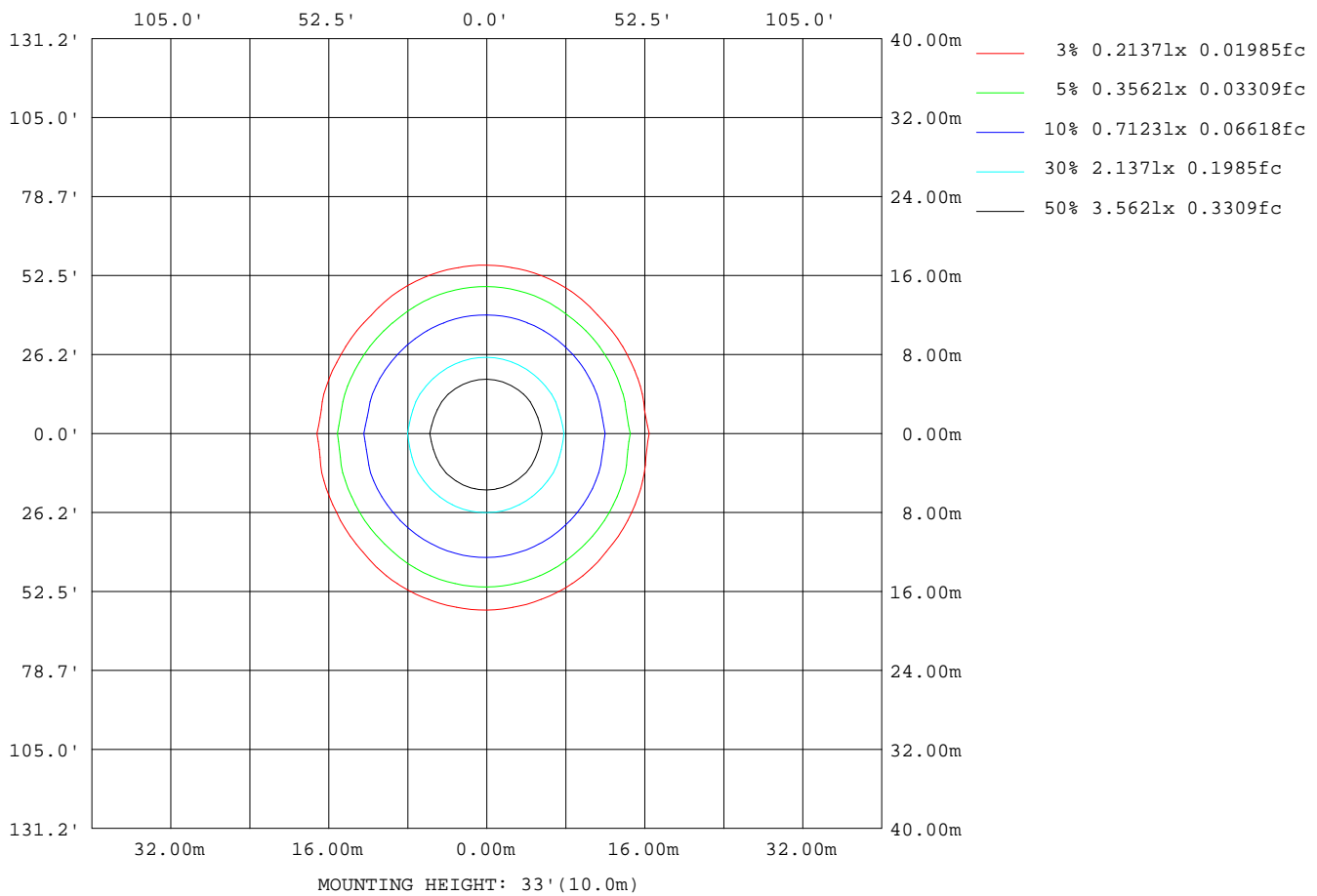
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H( $\beta$ ) Range: -90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: yang  
Test Date: 2024-07-26

V(B) Range: -90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System: EVERFINE GO-2000B\_V1 SYSTEM V2.00.429  
Humidity: 65.0%  
Test Distance: 8.345m [K=1.0186]  
Remarks:

## ISOLUX DIAGRAM

Test:U:120.70V I:0.1390A P:15.700W PF:0.9320 Freq:60.00Hz Lamp Flux:1427.93x1 lm		
NAME: AVD56B-5CCT-WH	TYPE: Down light	WEIGHT: 0.3Kg
SPEC.: 15W	DIM.: $\phi 188 \times 70$ (MM)	SERIAL No.: 01
MFR.: Signcomplex	SUR.: $\phi 90$ (MM)	Shielding Angle: 120°



H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:yang  
Test Date:2024-07-26

V(B) Range:-90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.429  
Humidity:65.0%  
Test Distance:8.345m [K=1.0186]  
Remarks:

## LED Avg.L Report

Test:U:120.70V I:0.1390A P:15.700W PF:0.9320 Freq:60.00Hz Lamp Flux:1427.93x1 lm		
NAME: AVD56B-5CCT-WH	TYPE: Down light	WEIGHT: 0.3Kg
SPEC.: 15W	DIM.: $\phi 188 \times 70$ (MM)	SERIAL No.: 01
MFR.: Signcomplex	SUR.: $\phi 90$ (MM)	Shielding Angle: 120°

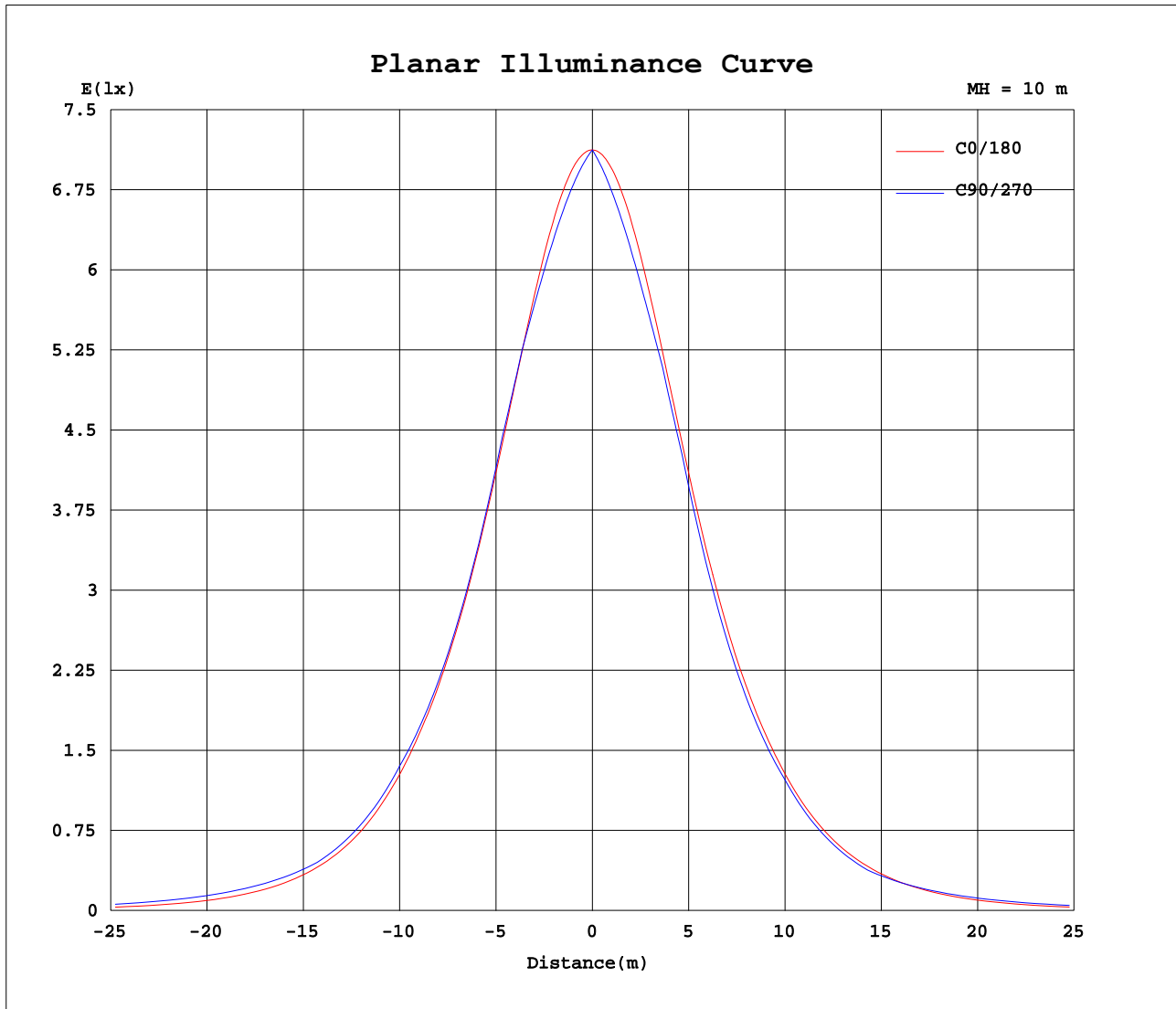
AvgL	cd/m2
L_0~180 (65) av	34233
L_0~180 (75) av	12953
L_0~180 (85) av	3693
L_90~270 (65) av	48948
L_90~270 (75) av	24631
L_90~270 (85) av	14389
L_45 (65) av	37070
L_45 (75) av	24545
L_45 (85) av	11057

Standard: GB/T 29293-2012

$H(\beta)$  Range:-90 - 90DEG  
 $H(\beta)$  Interval: 1.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:yang  
 Test Date:2024-07-26

$V(B)$  Range:-90 - 90DEG  
 $V(B)$  Interval: 5.0DEG  
 Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.429  
 Humidity:65.0%  
 Test Distance:8.345m [K=1.0186]  
 Remarks:

### Planar Illuminance Curve



H( $\beta$ ) Range:-90 - 90DEG  
H( $\beta$ ) Interval: 1.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:yang  
Test Date:2024-07-26

V(B) Range:-90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.429  
Humidity:65.0%  
Test Distance:8.345m [K=1.0186]  
Remarks:

V(B) Range:-90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.429  
Humidity:65.0%  
Test Distance:8.345m [K=1.0186]  
Remarks:

V(B) Range:-90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.429  
Humidity:65.0%  
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Remarks:

V(B) Range:-90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.429  
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Test Distance:8.345m [K=1.0186]  
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V(B) Range:-90 - 90DEG  
V(B) Interval: 5.0DEG  
Test System:EVERFINE GO-2000B\_V1 SYSTEM V2.00.429  
Humidity:65.0%  
Test Distance:8.345m [K=1.0186]  
Remarks: