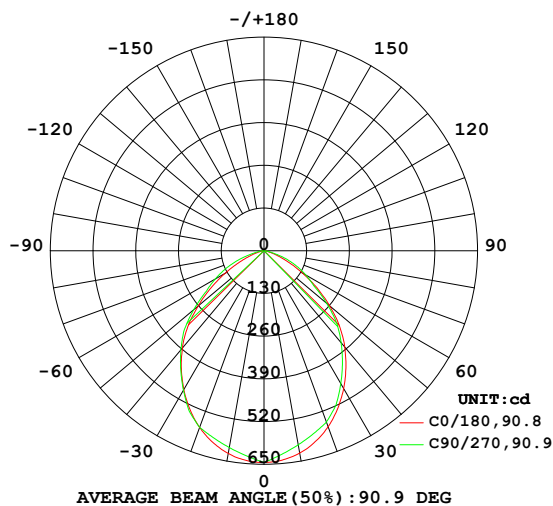


LUMINAIRE PHOTOMETRIC TEST REPORT

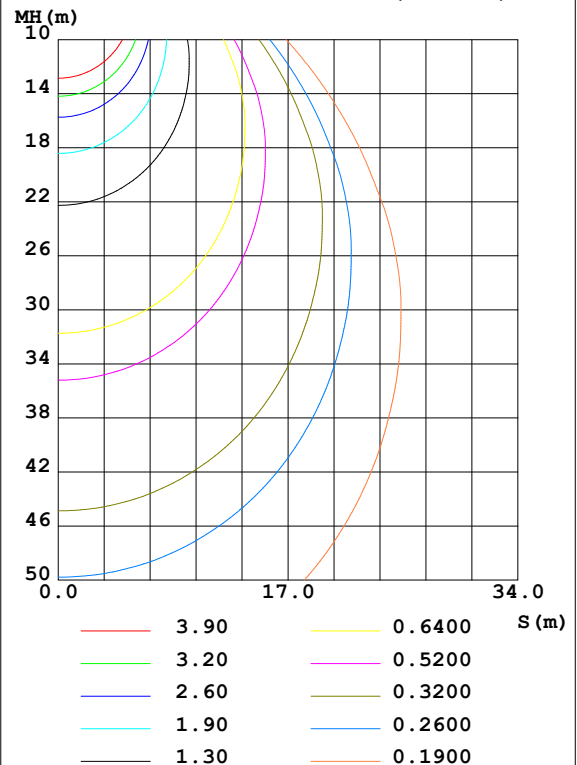
Test:U:120.70V I:0.1350A P:15.100W PF:0.9250 Freq:60.00Hz Lamp Flux:1290.4lx1 lm		
NAME: AVD56B-5CCT-WH	TYPE: Down light	WEIGHT: 0.3Kg
SPEC.: 15W	DIM.: ϕ 188*70 (MM)	SERIAL No.: 01
MFR.: Signcomplex	SUR.: ϕ 90 (MM)	Shielding Angle: 120°

DATA OF LAMP		PHOTOMETRIC DATA Eff: 85.46 lm/W			
MODEL	SMD 2835/LED	I _{max} (cd)	644.4	S/MH (C0/180)	1.14
NOMINAL POWER (W)	15.1	LOR (%)	100.0	S/MH (C90/270)	1.10
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	1290.4	η UP,DN (C0-180)	0.0,51.4
NOMINAL FLUX (lm)	1290.41	CIE CLASS	DIRECT	η UP,DN (C180-360)	0.0,48.6
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120.7	η down (%)	100.0	CIBSE SHR MAX	1.25

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



H(β) Range: -90 - 90DEG
H(β) 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:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	626.3	611.5	608.2	607.8	625.1	601.8	599.8	605.4	0- 10	59.42	59.42	4.61,4.61
20	572.5	562.9	572.1	553.9	570.3	541.9	555.2	551.1	10- 20	165.0	224.4	17.4,17.4
30	488.0	491.3	490.3	486.0	484.7	468.8	467.4	475.0	20- 30	239.7	464.1	36,36
40	385.9	382.5	393.3	380.7	382.4	361.2	365.3	364.2	30- 40	267.1	731.2	56.7,56.7
50	261.9	267.3	279.4	266.2	261.0	244.8	249.3	246.6	40- 50	245.8	977.0	75.7,75.7
60	135.4	149.6	170.8	146.6	133.9	127.7	146.1	130.0	50- 60	176.3	1153	89.4,89.4
70	43.35	68.18	84.27	64.98	43.40	53.94	69.60	56.48	60- 70	96.27	1250	96.8,96.8
80	8.509	17.55	15.98	16.43	9.202	12.53	9.835	13.44	70- 80	34.82	1284	99.5,99.5
90	0.1016	1.225	2.316	1.663	0.2419	0.2300	0.2323	0.2082	80- 90	6.028	1290	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): 859.95 lm

%lum = 66.6%

%lamp = 66.6%

Conical surface Flux(120deg): 1153.3 lm

%lum = 89.4%

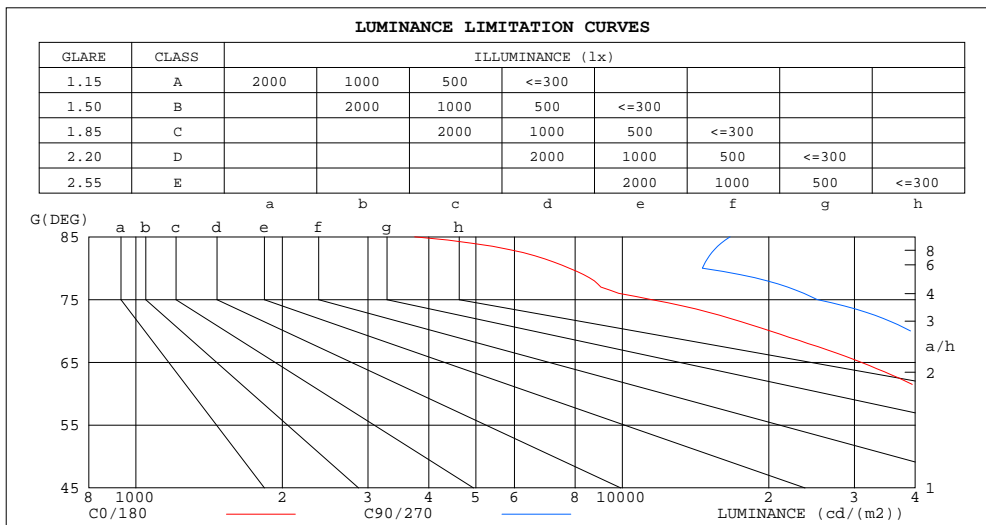
%lamp = 89.4%

H(β) Range:-90 - 90DEG
 H(β) 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:0.1350A P:15.100W PF:0.9250 Freq:60.00Hz Lamp Flux:1290.4lx1 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°



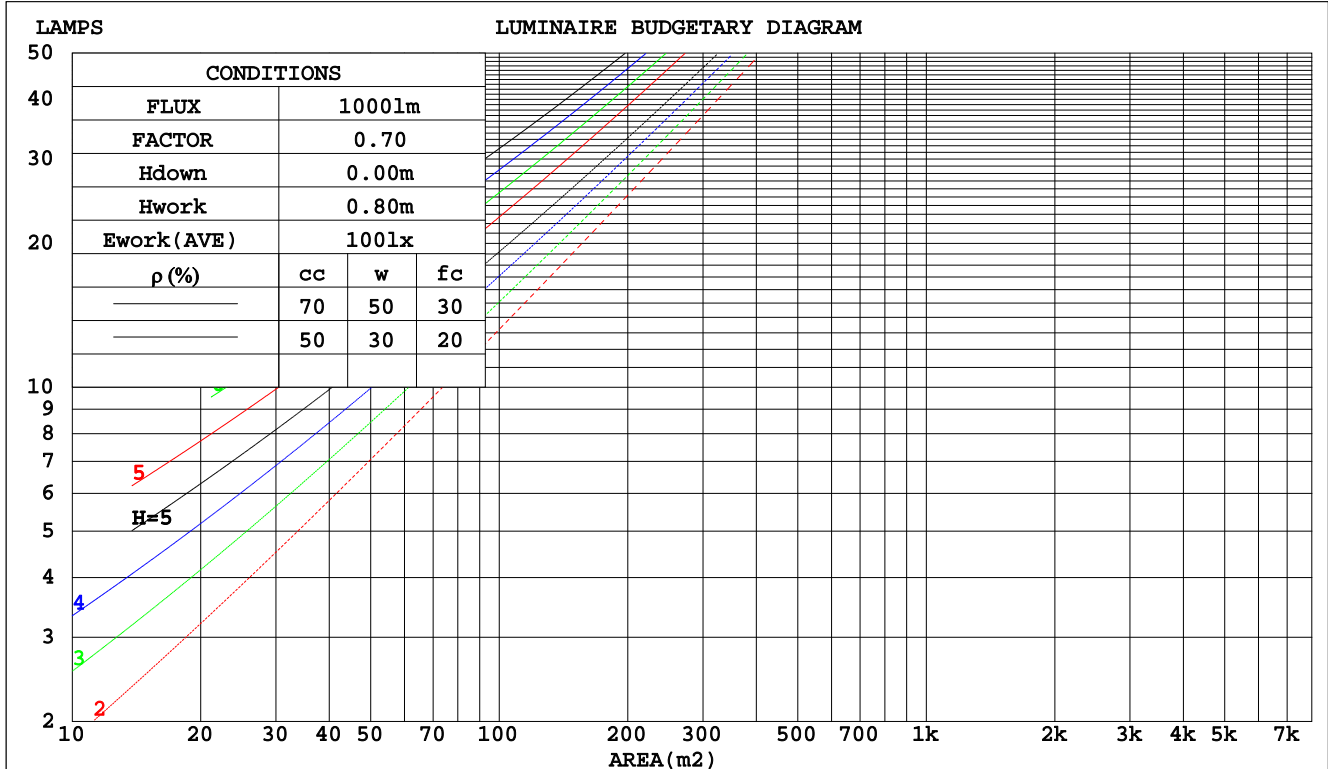
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:yang
Test Date:2024-07-26

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:0.1350A P:15.100W PF:0.9250 Freq:60.00Hz Lamp Flux:1290.41x1 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°

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						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	.54	.62	.57	.53	.51
6.0	.63	.55	.49	.62	.54	.48	.60	.53	.48	.58	.52	.48	.57	.51	.47	.45
7.0	.57	.49	.44	.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(β) Range:-90 - 90DEG
H(β) 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:0.1350A P:15.100W PF:0.9250 Freq:60.00Hz Lamp Flux:1290.4lx1 lm		
NAME: AVD56B-5CCT-WH	TYPE: Down light	WEIGHT: 0.3Kg
SPEC.: 15W	DIM.: ϕ 188*70 (MM)	SERIAL No.: 01
MFR.: Signcomplex	SUR.: ϕ 90 (MM)	Shielding Angle: 120°

ρ_{cc}	80%			70%			50%			30%			10%			0	
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0	
ρ_{fc}	20%			20%			20%			20%			20%			0	
RCR	RCR:Room Cavity Ratio						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.254	.145	.046	.247	.141	.045	.234	.135	.043	.223	.128	.041	.212	.123	.040		
2.0	.247	.135	.041	.241	.133	.041	.229	.128	.040	.219	.123	.038	.209	.118	.037		
3.0	.234	.124	.037	.228	.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		

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{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	.031	.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:0.1350A P:15.100W PF:0.9250 Freq:60.00Hz Lamp Flux:1290.41x1 lm											
NAME: AVD56B-5CCT-WH					TYPE: Down light			WEIGHT: 0.3Kg			
SPEC.: 15W					DIM.: \varnothing 188*70 (MM)			SERIAL No.: 01			
MFR.: Signcomplex					SUR.: \varnothing 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	2H	25.2	26.7	25.6	27.0	27.3	25.7	27.2	26.1	27.5	27.8
	3H	25.8	27.1	26.2	27.4	27.8	27.1	28.4	27.4	28.7	29.1
	4H	25.9	27.1	26.3	27.4	27.8	27.3	28.6	27.7	28.9	29.3
	6H	25.8	27.0	26.3	27.3	27.7	27.4	28.5	27.8	28.9	29.3
	8H	25.8	26.9	26.3	27.3	27.7	27.4	28.5	27.8	28.9	29.3
	12H	25.8	26.8	26.2	27.2	27.6	27.4	28.4	27.9	28.8	29.3
4H	2H	25.6	26.8	26.0	27.1	27.5	25.9	27.2	26.3	27.5	27.9
	3H	26.3	27.3	26.7	27.7	28.1	27.5	28.5	27.9	28.9	29.3
	4H	26.4	27.3	26.8	27.7	28.1	27.8	28.7	28.3	29.1	29.6
	6H	26.4	27.2	26.9	27.6	28.1	28.0	28.7	28.4	29.2	29.7
	8H	26.4	27.1	26.8	27.6	28.0	28.0	28.7	28.4	29.2	29.6
	12H	26.4	27.0	26.8	27.5	28.0	28.0	28.7	28.5	29.1	29.6
8H	4H	26.5	27.3	27.0	27.7	28.2	27.9	28.6	28.3	29.0	29.5
	6H	26.6	27.2	27.1	27.7	28.2	28.0	28.6	28.5	29.1	29.6
	8H	26.6	27.1	27.1	27.6	28.1	28.0	28.6	28.6	29.1	29.6
	12H	26.6	27.1	27.1	27.5	28.1	28.1	28.6	28.6	29.1	29.6
12H	4H	26.5	27.2	27.0	27.7	28.1	27.8	28.5	28.3	29.0	29.4
	6H	26.6	27.1	27.1	27.6	28.1	28.0	28.5	28.5	29.0	29.5
	8H	26.6	27.1	27.1	27.6	28.1	28.0	28.5	28.6	29.0	29.6
CIE190: 2010											

CIE190: 2010
Area: 0.0063 m2

H(β) Range:-90 - 90DEG
H(β) 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:0.1350A P:15.100W PF:0.9250 Freq:60.00Hz Lamp Flux:1290.4lx1 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°

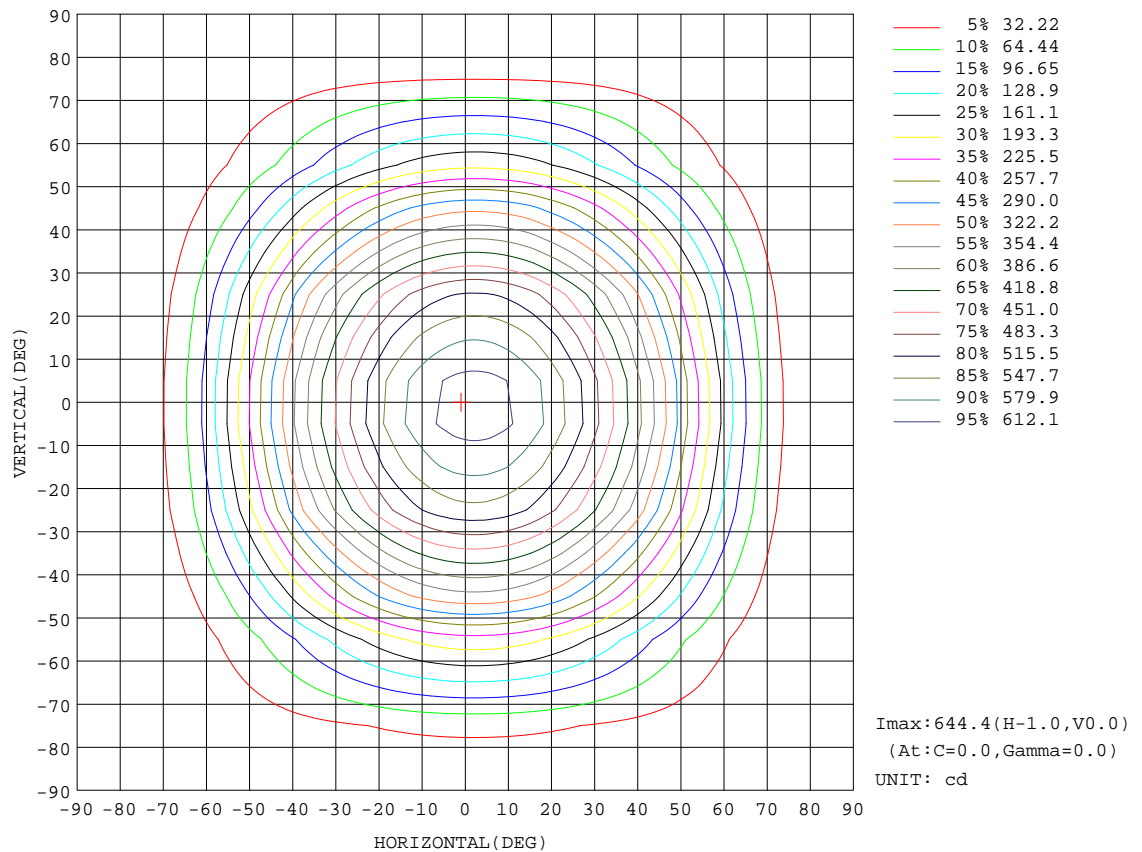
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	64	54	48	64	54	47	62	53	47	41
0.80	74	64	58	73	64	58	72	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:0.1350A P:15.100W PF:0.9250 Freq:60.00Hz Lamp Flux:1290.4lx1 lm		
NAME: AVD56B-5CCT-WH	TYPE: Down light	WEIGHT: 0.3Kg
SPEC.: 15W	DIM.: ϕ 188*70 (MM)	SERIAL No.: 01
MFR.: Signcomplex	SUR.: ϕ 90 (MM)	Shielding Angle: 120°



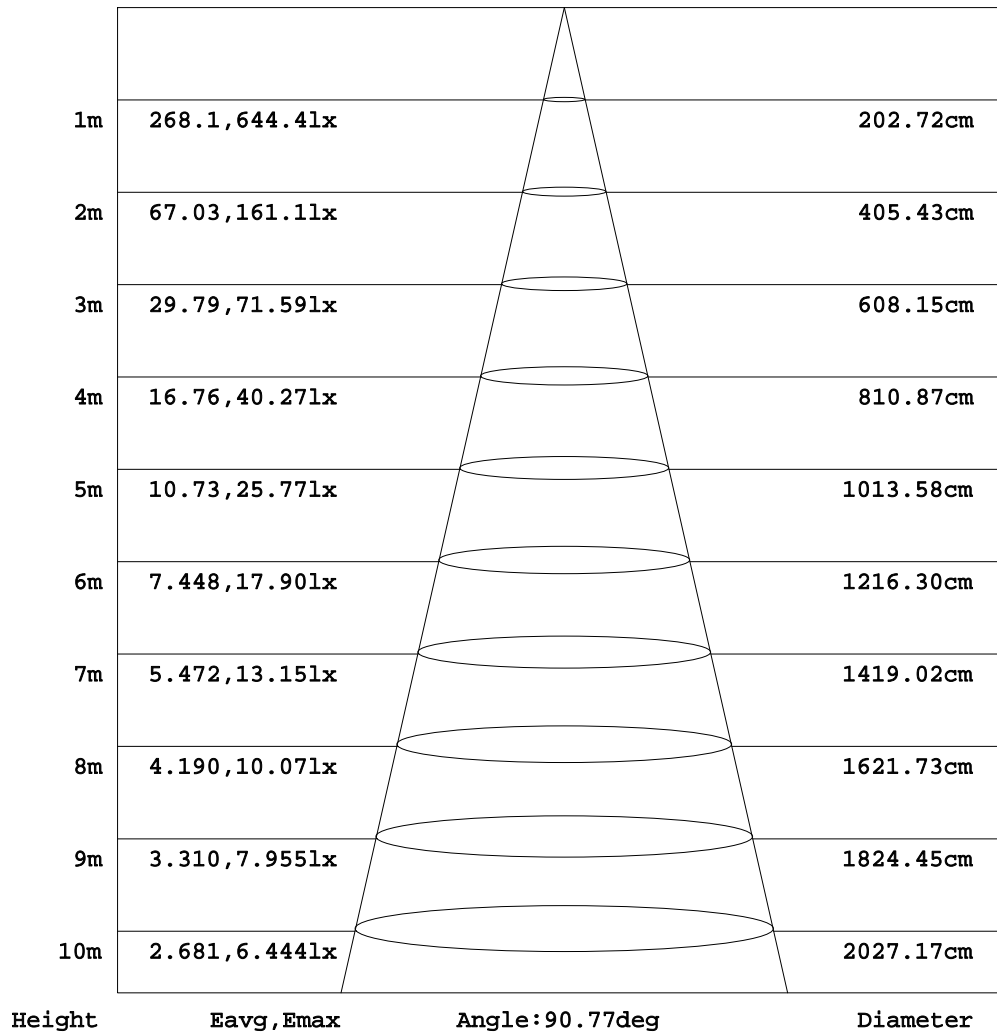
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:yang
Test Date:2024-07-26

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:0.1350A P:15.100W PF:0.9250 Freq:60.00Hz Lamp Flux:1290.4lx1 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°

Flux out:872.3 lm



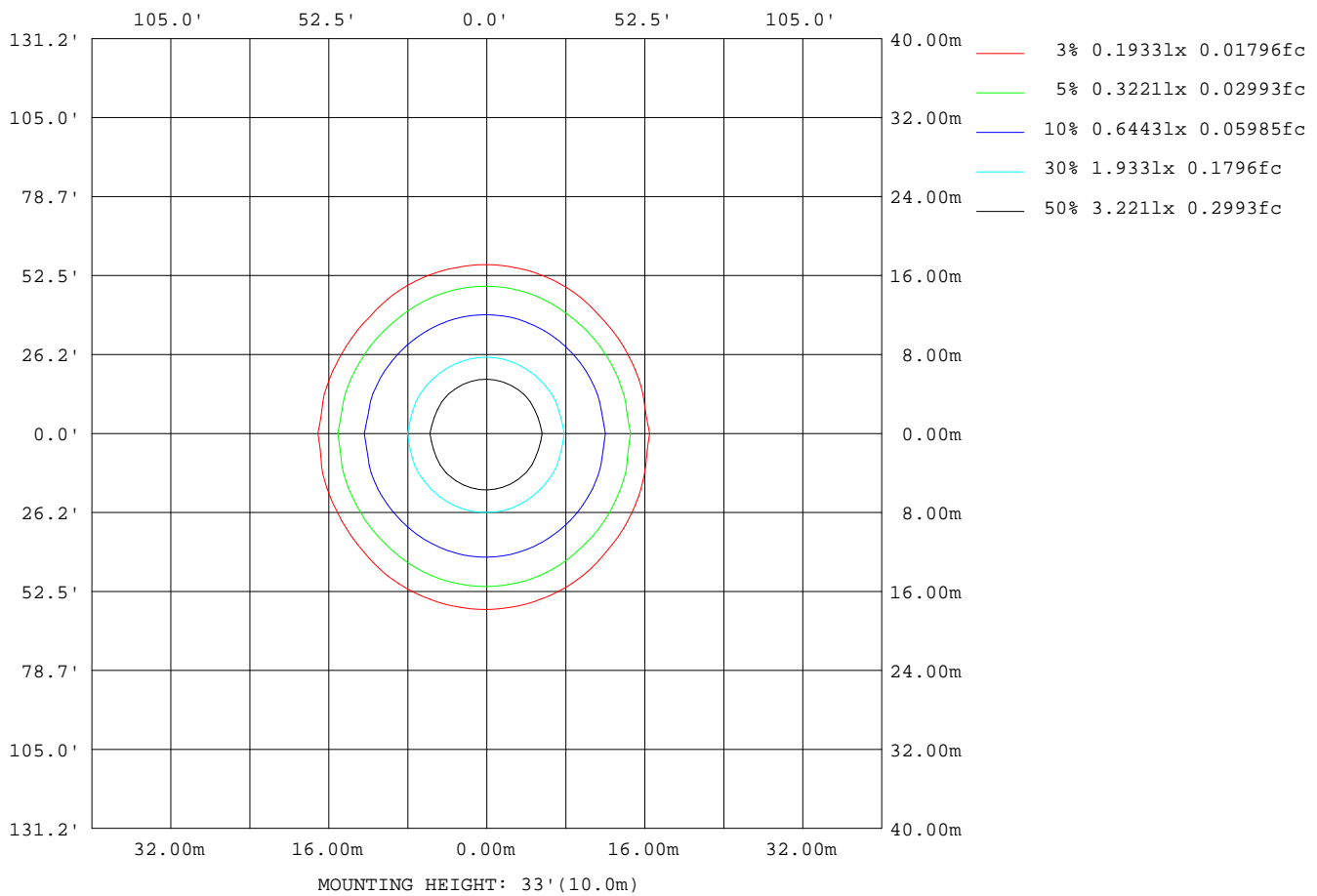
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(β) Range:-90 - 90DEG
H(β) 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:0.1350A P:15.100W PF:0.9250 Freq:60.00Hz Lamp Flux:1290.4lx1 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(β) Range:-90 - 90DEG
H(β) 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:0.1350A P:15.100W PF:0.9250 Freq:60.00Hz Lamp Flux:1290.41x1 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°

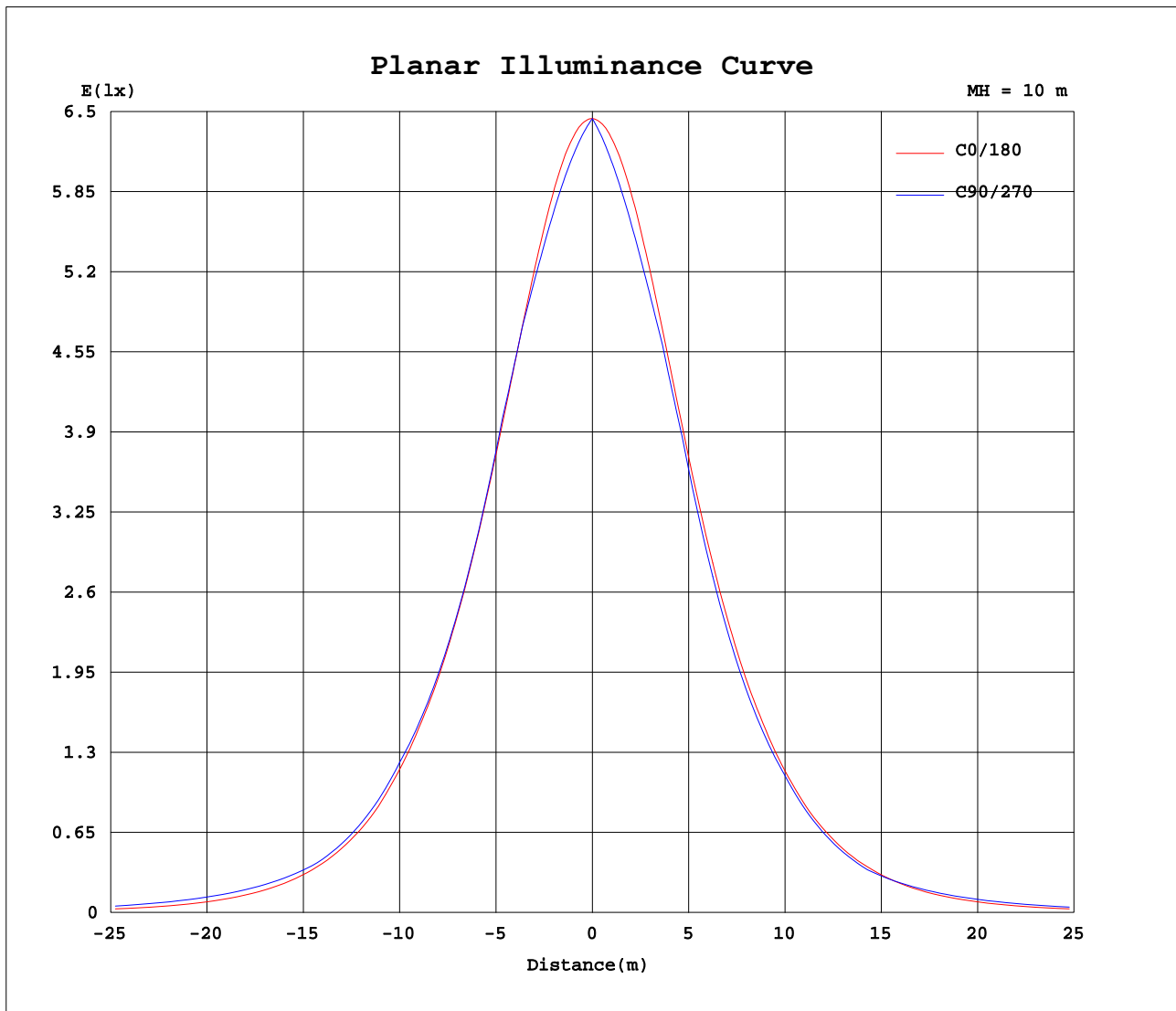
AvgL	cd/m2
L_0~180 (65) av	30923
L_0~180 (75) av	11684
L_0~180 (85) av	3356
L_90~270 (65) av	44185
L_90~270 (75) av	22186
L_90~270 (85) av	12908
L_45 (65) av	33470
L_45 (75) av	22149
L_45 (85) av	9948

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(β) Range:-90 - 90DEG
H(β) 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%
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%
Test Distance:8.345m [K=1.0186]
Remarks: