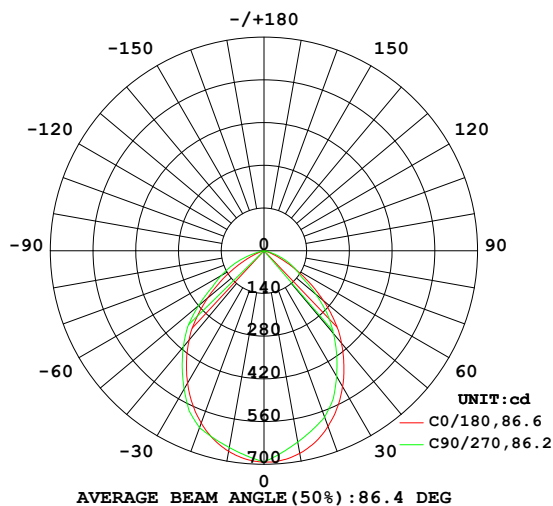


LUMINAIRE PHOTOMETRIC TEST REPORT

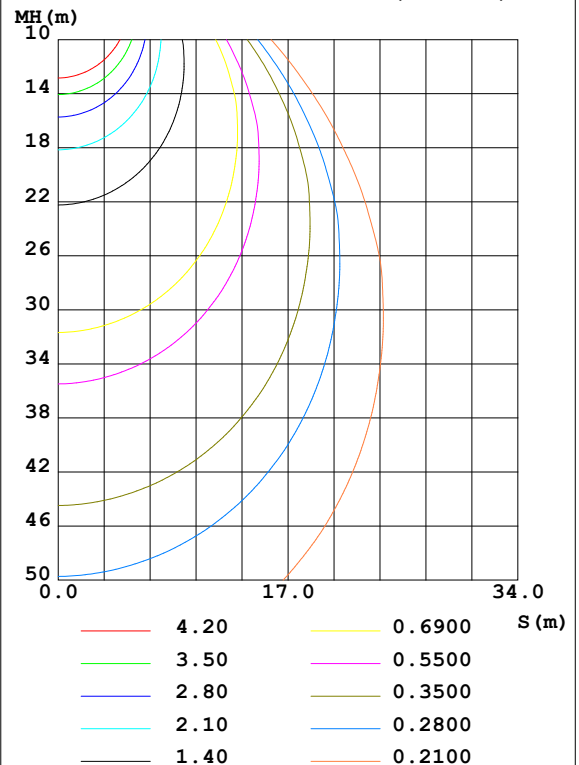
Test:U:121.00V I:0.1350A P:15.100W PF:0.9260 Freq:60.00Hz Lamp Flux:1259.83x1 lm		
NAME: AVD56-5CCT-DB	TYPE: Down light	WEIGHT: 0.3Kg
SPEC.: 15W	DIM.: $\phi 188 \times 70$ (MM)	SERIAL No.: 01
MFR.: Signcomplex	SUR.: $\phi 90$ (MM)	Shielding Angle: 120°

DATA OF LAMP		PHOTOMETRIC DATA Eff: 83.43 lm/W			
MODEL	SMD 2835/LED	I _{max} (cd)	692.8	S/MH (C0/180)	1.13
NOMINAL POWER (W)	15.1	LOR (%)	100.0	S/MH (C90/270)	1.06
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	1259.8	η UP, DN (C0-180)	0.0, 52.5
NOMINAL FLUX (lm)	1259.83	CIE CLASS	DIRECT	η UP, DN (C180-360)	0.0, 47.5
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE (V)	121	η down (%)	100.0	CIBSE SHR MAX	1.15

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=1.0904]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	667.6	654.5	654.9	655.9	674.5	643.1	636.5	641.7	0- 10	63.71	63.71	5.06,5.06
20	601.0	598.8	617.3	598.5	612.9	573.7	580.6	573.8	10- 20	175.8	239.5	19,19
30	501.0	516.2	523.6	522.6	514.8	487.6	475.7	481.4	20- 30	252.5	492.0	39.1,39.1
40	382.1	389.7	411.1	400.0	395.2	361.4	354.6	352.2	30- 40	274.6	766.5	60.8,60.8
50	241.0	257.9	280.3	266.9	254.0	226.4	222.3	219.1	40- 50	241.4	1008	80,80
60	106.2	129.0	160.8	131.6	112.6	98.06	117.3	95.89	50- 60	158.2	1166	92.6,92.6
70	20.19	49.33	70.84	48.32	20.90	31.50	50.58	31.95	60- 70	73.70	1240	98.4,98.4
80	0.4018	7.184	2.989	6.957	0.4553	3.733	0.4783	4.133	70- 80	18.77	1259	99.9,99.9
90	0.0498	1.160	1.551	1.684	0.1719	0.1554	0.1720	0.1720	80- 90	1.222	1260	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): 894.88 lm

%lum = 71.0%

%lamp = 71.0%

Conical surface Flux(120deg): 1166.1 lm

%lum = 92.6%

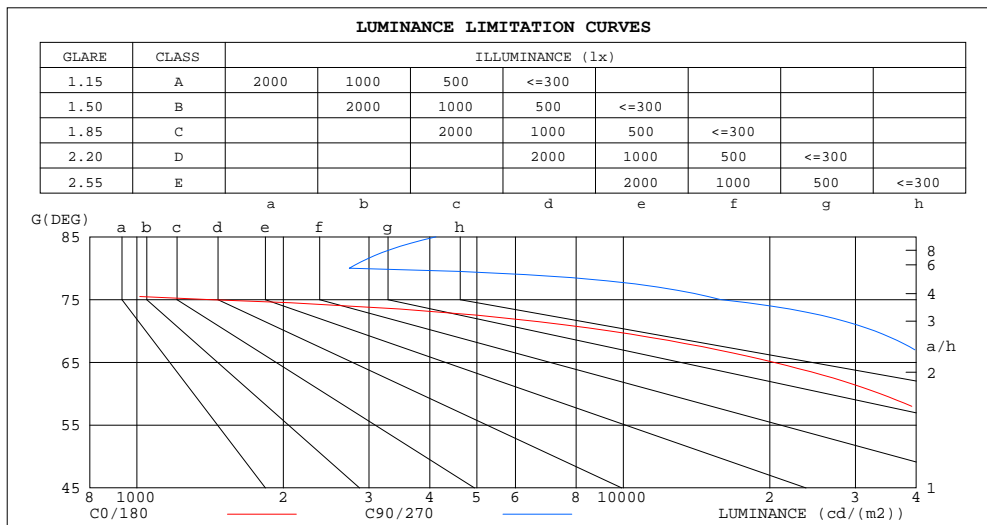
%lamp = 92.6%

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=1.0904]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:121.00V I:0.1350A P:15.100W PF:0.9260 Freq:60.00Hz Lamp Flux:1259.83x1 lm		
NAME: AVD56-5CCT-DB	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°



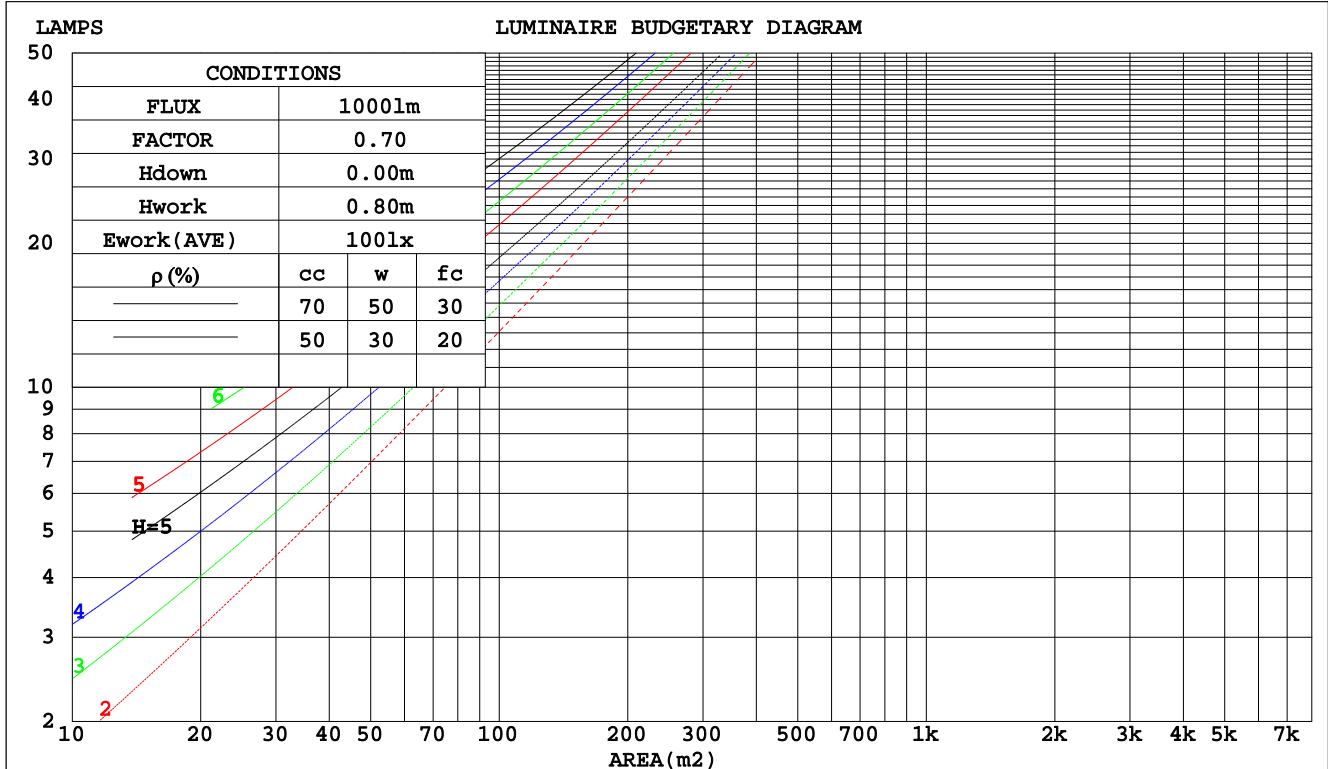
H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:yang
Test Date:2024-07-26

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=1.0904]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:121.00V I:0.1350A P:15.100W PF:0.9260 Freq:60.00Hz Lamp Flux:1259.83x1 lm		
NAME: AVD56-5CCT-DB	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	1.08	1.04	1.01	1.05	1.02	.00	1.01	.99	.97	.97	.96	.94	.94	.92	.91	.89
2.0	.97	.91	.86	.95	.90	.85	.91	.87	.84	.88	.85	.82	.85	.82	.80	.78
3.0	.87	.80	.75	.85	.79	.74	.82	.77	.73	.80	.75	.72	.77	.74	.70	.68
4.0	.78	.71	.65	.77	.70	.65	.75	.69	.64	.73	.67	.63	.70	.66	.62	.60
5.0	.71	.63	.58	.70	.63	.57	.68	.62	.57	.66	.60	.56	.64	.59	.56	.54
6.0	.65	.57	.51	.64	.56	.51	.62	.56	.51	.61	.55	.50	.59	.54	.50	.48
7.0	.59	.51	.46	.59	.51	.46	.57	.50	.46	.56	.50	.45	.54	.49	.45	.43
8.0	.55	.47	.42	.54	.47	.41	.53	.46	.41	.51	.45	.41	.50	.45	.41	.39
9.0	.50	.43	.38	.50	.43	.38	.49	.42	.38	.48	.42	.37	.47	.41	.37	.36
10.0	.47	.39	.35	.46	.39	.35	.45	.39	.34	.44	.39	.34	.44	.38	.34	.33



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=1.0904]
Remarks:

WEC AND CCEC

Test:U:121.00V I:0.1350A P:15.100W PF:0.9260 Freq:60.00Hz Lamp Flux:1259.83x1 lm		
NAME: AVD56-5CCT-DB	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	.238	.135	.043	.231	.132	.042	.218	.125	.040	.206	.119	.038	.195	.113	.036	
2.0	.233	.128	.039	.227	.125	.038	.216	.120	.037	.205	.115	.036	.196	.111	.035	
3.0	.222	.118	.035	.217	.116	.035	.207	.112	.034	.198	.109	.033	.190	.105	.033	
4.0	.210	.109	.032	.206	.108	.032	.197	.104	.031	.189	.102	.031	.182	.099	.030	
5.0	.198	.101	.029	.194	.100	.029	.187	.097	.029	.180	.095	.028	.173	.092	.028	
6.0	.187	.094	.027	.183	.093	.027	.177	.091	.026	.170	.088	.026	.164	.087	.026	
7.0	.176	.087	.025	.173	.086	.025	.167	.085	.024	.161	.083	.024	.156	.081	.024	
8.0	.167	.081	.023	.164	.081	.023	.158	.079	.023	.153	.078	.022	.148	.076	.022	
9.0	.158	.076	.021	.155	.076	.021	.150	.074	.021	.146	.073	.021	.141	.072	.021	
10.0	.150	.072	.020	.147	.071	.020	.143	.070	.020	.139	.069	.020	.135	.068	.019	

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	.175	.157	.140	.150	.135	.121	.103	.093	.083	.059	.054	.048	.019	.017	.016	
2.0	.164	.132	.105	.141	.114	.091	.096	.079	.063	.056	.046	.037	.018	.015	.012	
3.0	.155	.114	.081	.133	.098	.070	.091	.068	.049	.053	.040	.029	.017	.013	.010	
4.0	.147	.100	.064	.126	.087	.056	.087	.060	.039	.050	.035	.023	.016	.011	.008	
5.0	.140	.089	.052	.120	.077	.045	.083	.054	.032	.048	.032	.019	.015	.010	.006	
6.0	.133	.081	.043	.115	.070	.037	.079	.049	.026	.046	.029	.016	.015	.009	.005	
7.0	.127	.074	.036	.109	.064	.032	.075	.045	.022	.044	.026	.013	.014	.009	.004	
8.0	.121	.068	.031	.104	.059	.027	.072	.041	.019	.042	.024	.011	.014	.008	.004	
9.0	.116	.063	.027	.100	.055	.024	.069	.038	.017	.040	.023	.010	.013	.007	.003	
10.0	.111	.059	.024	.095	.051	.021	.066	.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=1.0904]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:121.00V I:0.1350A P:15.100W PF:0.9260 Freq:60.00Hz Lamp Flux:1259.83x1 lm												
NAME: AVD56-5CCT-DB					TYPE: Down light			WEIGHT: 0.3Kg				
SPEC.: 15W					DIM.: φ188*70 (MM)			SERIAL No.: 01				
MFR.: Signcomplex					SUR.: φ90 (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	24.2	25.6	24.6	25.9	26.3	25.5	26.9	25.9	27.2	27.5		
	3H	24.4	25.7	24.8	26.0	26.4	26.6	27.9	27.0	28.2	28.6	
	4H	24.4	25.6	24.8	25.9	26.3	26.8	27.9	27.2	28.3	28.7	
	6H	24.3	25.4	24.7	25.8	26.1	26.7	27.8	27.1	28.2	28.6	
	8H	24.3	25.3	24.7	25.7	26.1	26.7	27.7	27.1	28.1	28.5	
	12H	24.2	25.2	24.7	25.6	26.0	26.6	27.6	27.1	28.0	28.4	
	4H	2H	24.5	25.7	24.9	26.0	26.4	25.6	26.8	26.0	27.1	27.5
		3H	24.8	25.7	25.2	26.1	26.5	26.9	27.9	27.3	28.3	28.7
		4H	24.7	25.6	25.2	26.0	26.4	27.1	27.9	27.5	28.3	28.8
		6H	24.6	25.4	25.1	25.8	26.3	27.1	27.8	27.5	28.2	28.7
		8H	24.6	25.3	25.1	25.7	26.2	27.0	27.7	27.5	28.1	28.6
		12H	24.6	25.2	25.0	25.6	26.1	27.0	27.6	27.5	28.1	28.5
8H	4H	24.8	25.5	25.3	25.9	26.4	27.0	27.7	27.5	28.1	28.6	
	6H	24.7	25.3	25.2	25.8	26.2	27.0	27.5	27.5	28.0	28.5	
	8H	24.7	25.2	25.2	25.7	26.2	26.9	27.4	27.5	27.9	28.4	
	12H	24.6	25.1	25.1	25.6	26.1	26.9	27.3	27.4	27.8	28.4	
12H	4H	24.8	25.4	25.2	25.8	26.3	27.0	27.6	27.5	28.1	28.5	
	6H	24.7	25.2	25.2	25.6	26.2	26.9	27.4	27.5	27.9	28.4	
	8H	24.6	25.1	25.1	25.6	26.1	26.9	27.3	27.4	27.8	28.4	
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=1.0904]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:121.00V I:0.1350A P:15.100W PF:0.9260 Freq:60.00Hz Lamp Flux:1259.83x1 lm		
NAME: AVD56-5CCT-DB	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°

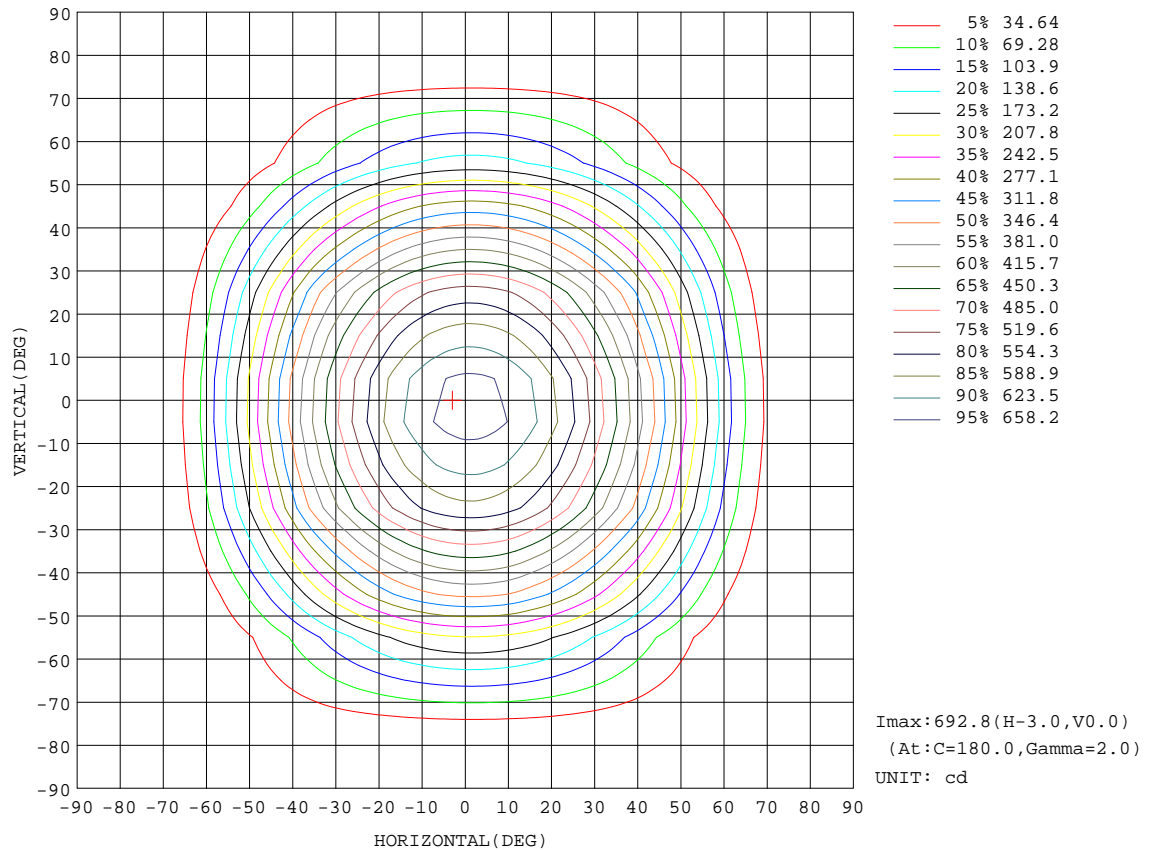
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	67	57	51	66	56	50	65	56	50	45
0.80	77	67	61	76	67	61	74	66	60	55
1.00	85	76	70	84	75	70	82	76	69	63
1.25	91	83	77	90	82	77	88	81	76	70
1.50	96	88	83	94	87	82	92	86	81	75
2.00	101	95	90	100	94	89	97	92	88	81
2.50	104	98	94	102	97	93	99	94	91	84
3.00	107	102	97	105	100	96	101	97	94	87
4.00	110	106	102	108	104	101	104	101	98	90
5.00	112	108	105	109	106	103	105	102	100	92
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=1.0904]
 Remarks:

ISOCANDELA DIAGRAM

Test:U:121.00V I:0.1350A P:15.100W PF:0.9260 Freq:60.00Hz Lamp Flux:1259.83x1 lm		
NAME: AVD56-5CCT-DB	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°

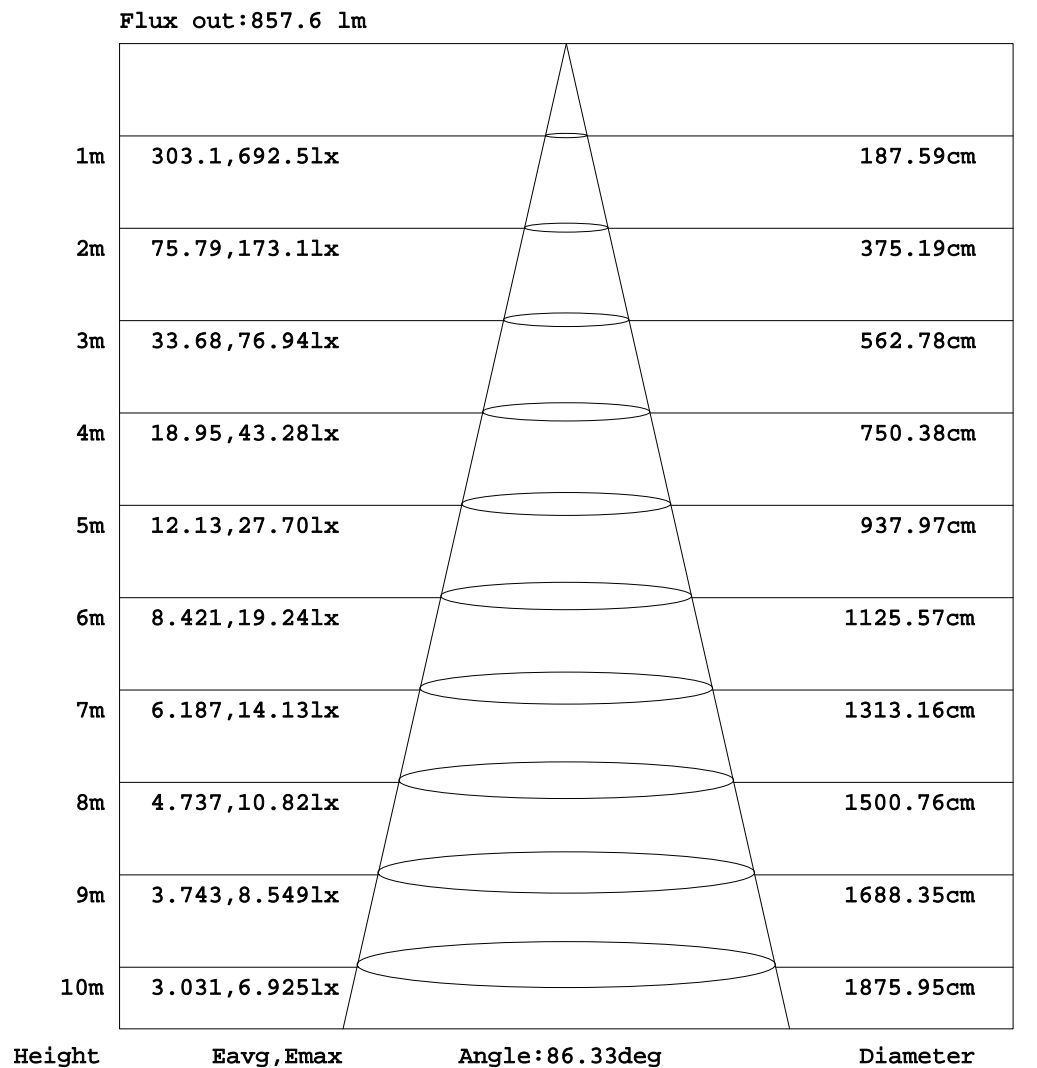


H(β) Range:-90 - 90DEG
H(β) Interval: 1.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:yang
Test Date:2024-07-26

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=1.0904]
Remarks:

AAI Figure

Test:U:121.00V I:0.1350A P:15.100W PF:0.9260 Freq:60.00Hz Lamp Flux:1259.83x1 lm		
NAME: AVD56-5CCT-DB	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°



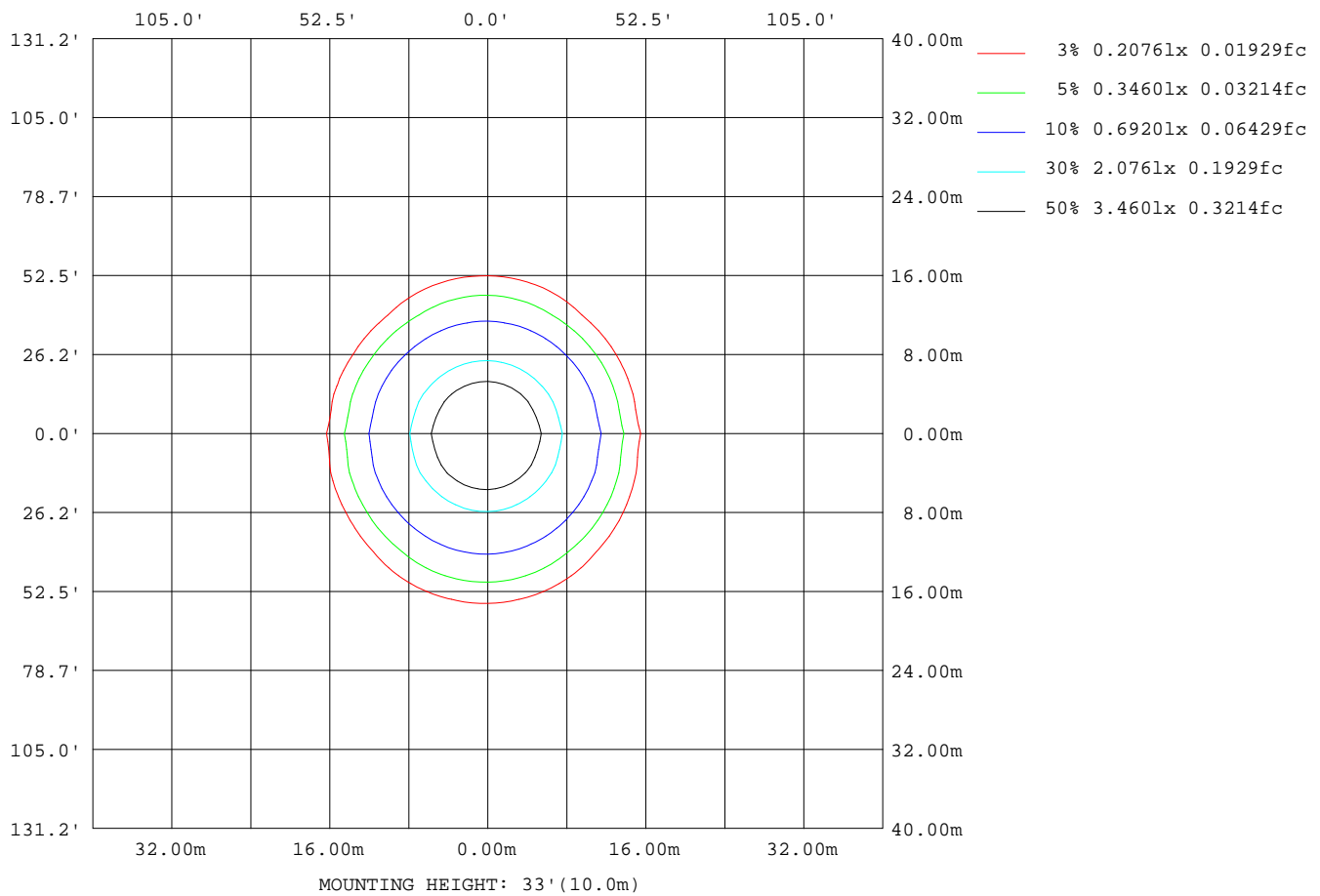
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

H(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=1.0904]
Remarks:

ISOLUX DIAGRAM

Test:U:121.00V I:0.1350A P:15.100W PF:0.9260 Freq:60.00Hz Lamp Flux:1259.83x1 lm		
NAME: AVD56-5CCT-DB	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=1.0904]
Remarks:

LED Avg.L Report

Test:U:121.00V I:0.1350A P:15.100W PF:0.9260 Freq:60.00Hz Lamp Flux:1259.83x1 lm		
NAME: AVD56-5CCT-DB	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°

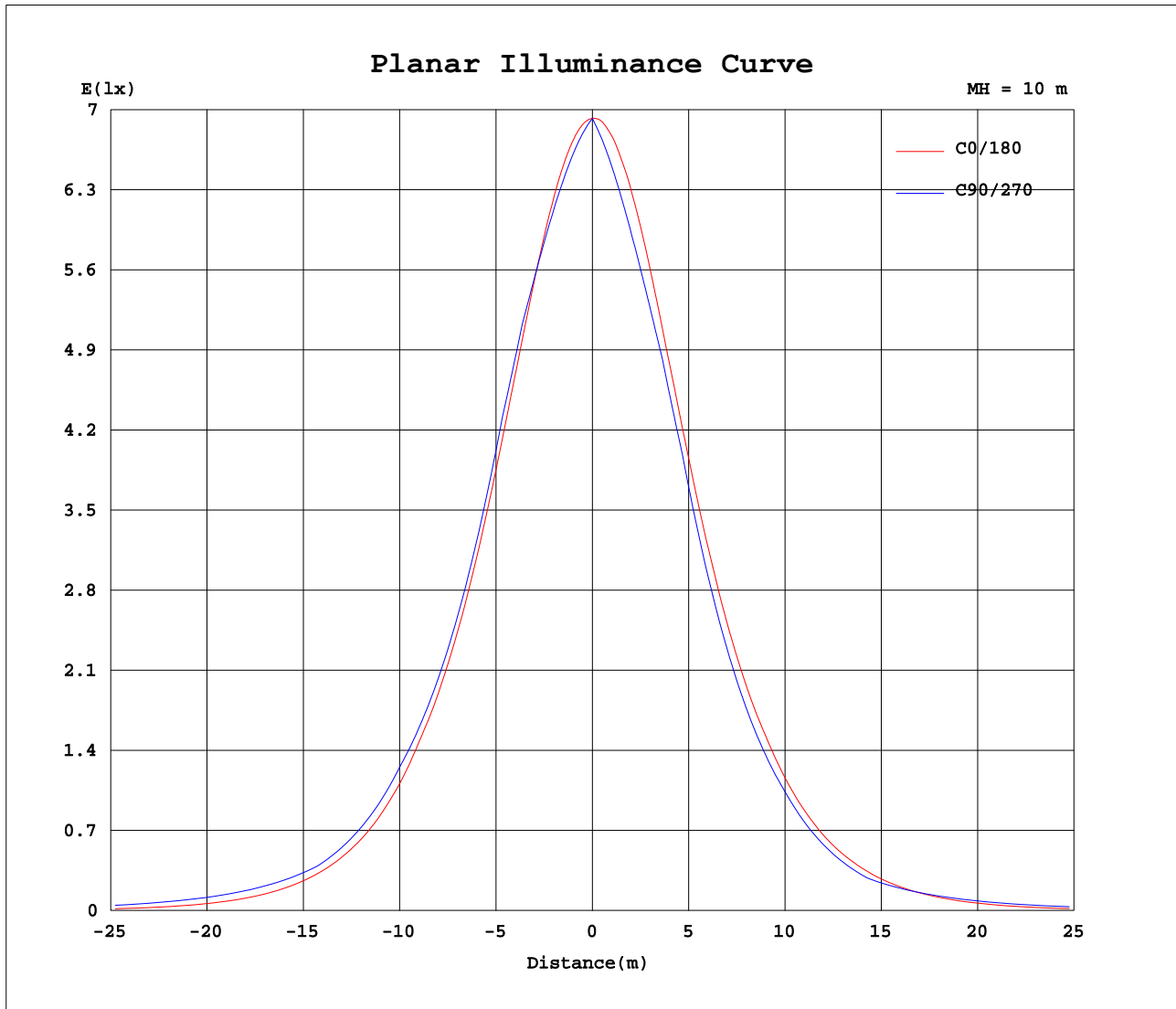
AvgL	cd/m2
L_0~180 (65) av	20932
L_0~180 (75) av	1481
L_0~180 (85) av	306
L_90~270 (65) av	37521
L_90~270 (75) av	13205
L_90~270 (85) av	2356
L_45 (65) av	23846
L_45 (75) av	12859
L_45 (85) av	1704

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=1.0904]
 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=1.0904]
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=1.0904]
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=1.0904]
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=1.0904]
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=1.0904]
Remarks: