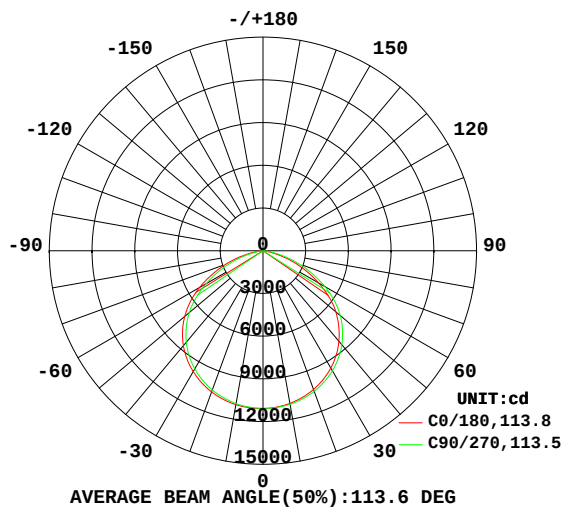


LUMINAIRE PHOTOMETRIC TEST REPORT

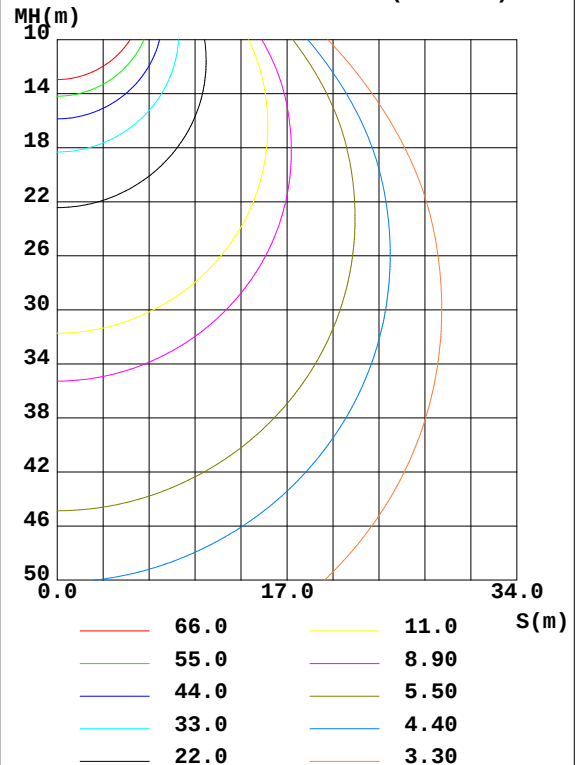
Test:U:230.35V I:0.8813A P:195.54W PF:0.9633 Freq:49.99Hz Lamp Flux:30961.5x1 lm		
NAME: KD008-BKTCTP300-200	TYPE:	WEIGHT:
SPEC.: black RA80 3000K+6000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 335mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 158.34 lm/W			
MODEL	2835 6000K	I _{max} (cd)	11077	S/MH(C0/180)	1.31
NOMINAL POWER(W)	200	LOR(%)	100.0	S/MH(C90/270)	1.29
RATED VOLTAGE(V)	220-240	TOTAL FLUX(lm)	30962	η UP, DN(C0-180)	0.0, 50.5
NOMINAL FLUX(lm)	30961.5	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 49.5
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	220	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: 22.5DEG
Test Speed: MEDIUM
Temperature:25DEG
Operators:
Test Date:2025-02-27

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.880m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

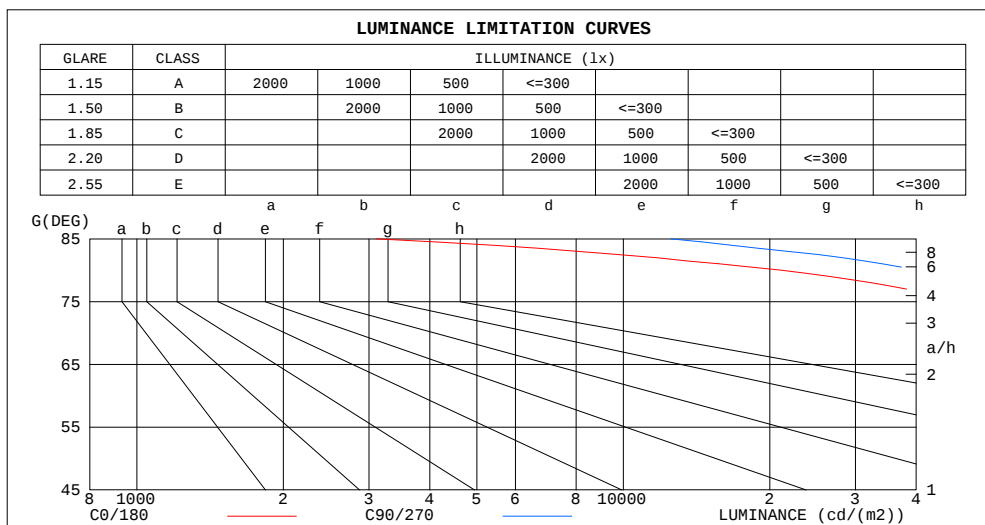
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1089	1091	1095	1097	1098	1094	1090	1088	0- 10	1050	1050	3.39, 3.39
20	1037	1043	1051	1054	1055	1048	1040	1036	10- 20	3031	4081	13.2, 13.2
30	952.1	961.6	973.9	979.4	980.3	970.7	958.3	951.5	20- 30	4656	8737	28.2, 28.2
40	829.1	845.4	861.7	869.1	869.6	856.7	837.7	827.7	30- 40	5708	14446	46.7, 46.7
50	668.2	687.5	708.2	716.5	717.8	700.7	676.3	666.3	40- 50	5983	20428	66, 66
60	449.5	475.6	499.6	509.0	512.6	490.2	458.7	450.4	50- 60	5285	25713	83, 83
70	221.0	240.7	268.2	281.1	279.8	255.7	230.5	222.5	60- 70	3601	29314	94.7, 94.7
80	32.33	44.27	61.84	70.67	68.17	51.48	36.72	32.35	70- 80	1506	30820	99.5, 99.5
90	1.363	1.258	1.152	1.100	1.235	1.320	1.442	1.493	80- 90	141.8	30962	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: ×10cd									UNIT: lm		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature: 25DEG
 Operators:
 Test Date: 2025-02-27

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
 Humidity: 65.0%
 Test Distance: 7.880m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.35V I:0.8813A P:195.54W PF:0.9633 Freq:49.99Hz Lamp Flux:30961.5x1 lm		
NAME: KD008-BKTCTP300-200	TYPE:	WEIGHT:
SPEC.: black RA80 3000K+6000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 335mm	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	3101	12520
80	21123	40405
75	49568	69259
70	73317	88981
65	89601	102720
60	101998	113367
55	112026	121072
50	117943	125008
45	120766	126796

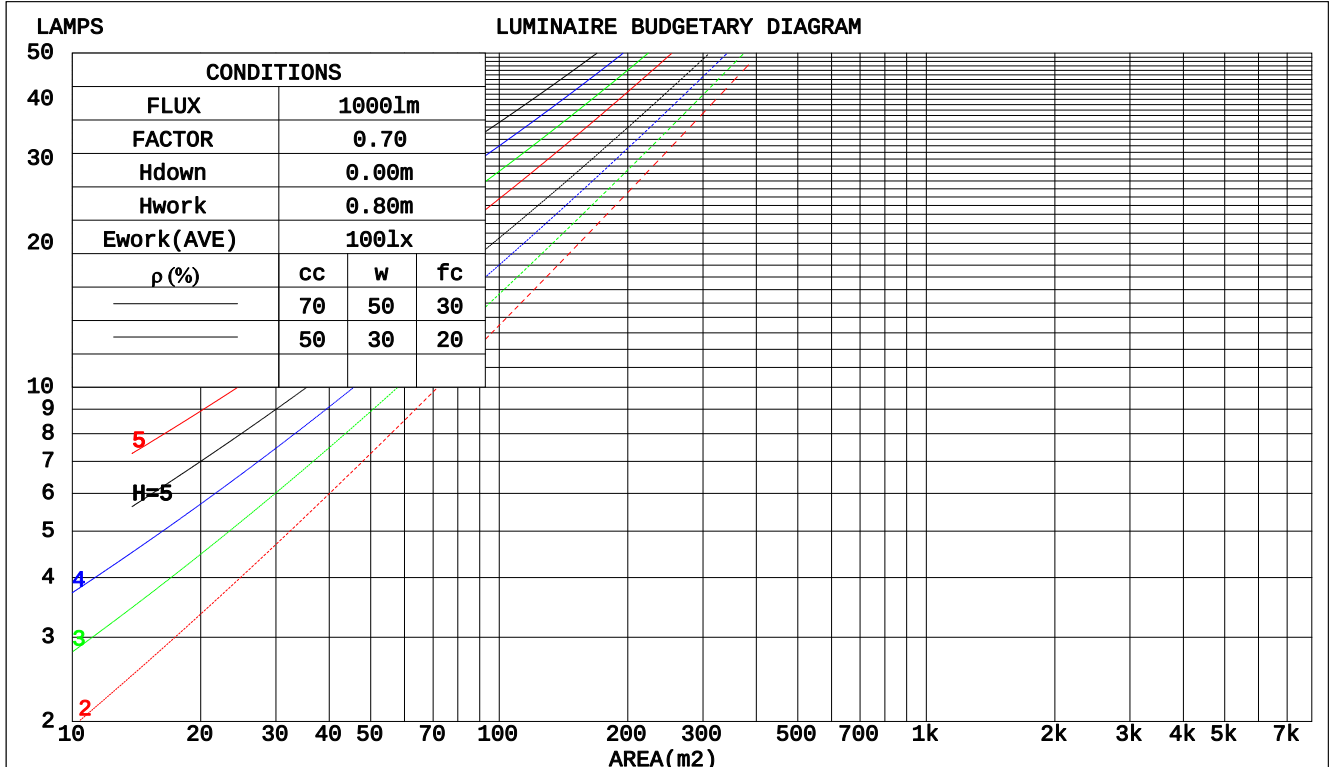
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature: 25DEG
Operators:
Test Date: 2025-02-27

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity: 65.0%
Test Distance: 7.880m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.35V I:0.8813A P:195.54W PF:0.9633 Freq:49.99Hz Lamp Flux:30961.5x1 lm		
NAME: KD008-BKTCTP300-200	TYPE:	WEIGHT:
SPEC.: black RA80 3000K+6000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 335mm	Shielding Angle:

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	Coefficients of Utilization(CU)															
	RCR:Room Cavity Ratio															
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	1.05	1.01	.98	1.03	.99	.96	.99	.96	.93	.95	.93	.90	.91	.89	.88	.86
2.0	.92	.86	.80	.90	.84	.79	.87	.82	.77	.84	.79	.76	.81	.77	.74	.72
3.0	.81	.73	.67	.80	.72	.66	.77	.70	.65	.74	.69	.64	.71	.67	.63	.61
4.0	.72	.63	.57	.71	.63	.56	.68	.61	.56	.66	.60	.55	.64	.59	.54	.52
5.0	.64	.55	.49	.63	.55	.49	.61	.54	.48	.59	.53	.48	.57	.52	.47	.45
6.0	.58	.49	.43	.57	.49	.43	.55	.48	.42	.53	.47	.42	.52	.46	.41	.39
7.0	.52	.44	.38	.52	.43	.38	.50	.43	.37	.49	.42	.37	.47	.41	.37	.35
8.0	.48	.39	.34	.47	.39	.33	.46	.38	.33	.45	.38	.33	.43	.37	.33	.31
9.0	.44	.36	.30	.43	.35	.30	.42	.35	.30	.41	.34	.30	.40	.34	.30	.28
10.0	.40	.33	.27	.40	.32	.27	.39	.32	.27	.38	.32	.27	.37	.31	.27	.25



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:25DEG
Operators:
Test Date:2025-02-27

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.880m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:230.35V I:0.8813A P:195.54W PF:0.9633 Freq:49.99Hz Lamp Flux:30961.5x1 lm					
NAME: KD008-BKTCTP300-200			TYPE:		WEIGHT:
SPEC.: black RA80 3000K+6000K			DIM.:		SERIAL No.:
MFR.:			SUR.: 335mm		Shielding Angle:

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	.284	.161	.051	.277	.158	.050	.263	.151	.048	.251	.145	.047	.240	.139	.045	
2.0	.275	.151	.046	.269	.148	.046	.257	.143	.044	.246	.138	.043	.237	.134	.042	
3.0	.258	.138	.041	.253	.135	.041	.243	.132	.040	.233	.128	.039	.225	.124	.038	
4.0	.241	.125	.037	.236	.124	.037	.227	.120	.036	.219	.117	.035	.211	.115	.035	
5.0	.224	.114	.033	.220	.113	.033	.212	.110	.033	.205	.108	.032	.198	.106	.032	
6.0	.209	.105	.030	.205	.104	.030	.198	.102	.030	.191	.100	.029	.185	.098	.029	
7.0	.195	.097	.027	.192	.096	.027	.186	.094	.027	.180	.092	.027	.174	.090	.027	
8.0	.183	.089	.025	.180	.089	.025	.174	.087	.025	.169	.086	.025	.164	.084	.024	
9.0	.172	.083	.023	.169	.082	.023	.164	.081	.023	.159	.080	.023	.155	.079	.023	
10.0	.162	.078	.022	.159	.077	.021	.155	.076	.021	.150	.075	.021	.146	.074	.021	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	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	.178	.156	.136	.153	.134	.117	.104	.092	.081	.060	.053	.047	.019	.017	.015	
2.0	.170	.132	.100	.146	.114	.086	.100	.079	.060	.058	.046	.035	.018	.015	.012	
3.0	.162	.114	.076	.139	.099	.066	.095	.068	.046	.055	.040	.027	.018	.013	.009	
4.0	.155	.101	.060	.133	.087	.052	.091	.061	.036	.053	.036	.022	.017	.012	.007	
5.0	.148	.090	.048	.127	.078	.042	.087	.055	.030	.051	.032	.018	.016	.010	.006	
6.0	.141	.082	.040	.121	.071	.035	.083	.050	.025	.048	.029	.015	.016	.010	.005	
7.0	.134	.075	.034	.115	.065	.029	.080	.046	.021	.046	.027	.012	.015	.009	.004	
8.0	.128	.069	.029	.110	.060	.025	.076	.042	.018	.044	.025	.011	.014	.008	.004	
9.0	.122	.064	.025	.105	.056	.022	.073	.039	.016	.042	.023	.009	.014	.008	.003	
10.0	.116	.060	.023	.100	.052	.020	.070	.037	.014	.041	.022	.008	.013	.007	.003	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:25DEG
Operators:
Test Date:2025-02-27

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.880m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.35V I:0.8813A P:195.54W PF:0.9633 Freq:49.99Hz Lamp Flux:30961.5x1 lm										
NAME: KD008-BKTCTP300-200					TYPE:			WEIGHT:		
SPEC.: black RA80 3000K+6000K					DIM.:			SERIAL No.:		
MFR.:					SUR.: 335mm			Shielding Angle:		
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	17.3	18.8	17.6	19.0	19.2	17.7	19.2	17.9	19.4	19.6
3H	18.3	19.7	18.6	19.9	20.2	18.9	20.2	19.2	20.5	20.7
4H	18.5	19.8	18.9	20.1	20.3	19.2	20.5	19.5	20.7	21.0
6H	18.5	19.8	18.9	20.0	20.3	19.3	20.5	19.6	20.8	21.1
8H	18.5	19.7	18.8	20.0	20.2	19.3	20.5	19.6	20.7	21.0
12H	18.5	19.6	18.8	19.9	20.2	19.2	20.4	19.6	20.7	21.0
4H 2H	17.9	19.2	18.2	19.4	19.7	18.1	19.4	18.4	19.7	19.9
3H	19.0	20.1	19.3	20.4	20.7	19.5	20.6	19.8	20.9	21.2
4H	19.3	20.3	19.7	20.6	21.0	19.9	20.9	20.2	21.2	21.5
6H	19.3	20.2	19.7	20.6	20.9	20.0	20.9	20.4	21.3	21.6
8H	19.3	20.1	19.7	20.5	20.9	20.0	20.9	20.4	21.2	21.6
12H	19.2	20.0	19.7	20.4	20.8	20.0	20.8	20.4	21.1	21.5
8H 4H	19.4	20.2	19.8	20.6	21.0	19.9	20.8	20.3	21.1	21.5
6H	19.5	20.1	19.9	20.6	21.0	20.1	20.8	20.6	21.2	21.6
8H	19.4	20.0	19.9	20.5	20.9	20.1	20.7	20.6	21.2	21.6
12H	19.4	19.9	19.9	20.4	20.8	20.1	20.6	20.6	21.1	21.6
12H 4H	19.3	20.1	19.8	20.5	20.9	19.9	20.7	20.3	21.0	21.4
6H	19.4	20.0	19.9	20.5	20.9	20.1	20.7	20.6	21.1	21.6
8H	19.4	19.9	19.9	20.4	20.9	20.1	20.6	20.6	21.1	21.6
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.3 / - 0.3					+ 0.2 / - 0.3				
1.5H	+ 0.3 / - 0.6					+ 0.2 / - 0.4				
2.0H	+ 0.5 / - 0.5					+ 0.4 / - 0.4				

CIE Pub.117, 30962 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 11.9)
Area: 0.08814 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:25DEG
Operators:
Test Date:2025-02-27

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.880m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.35V I:0.8813A P:195.54W PF:0.9633 Freq:49.99Hz Lamp Flux:30961.5x1 lm		
NAME: KD008-BKTCTP300-200	TYPE:	WEIGHT:
SPEC.: black RA80 3000K+6000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 335mm	Shielding Angle:

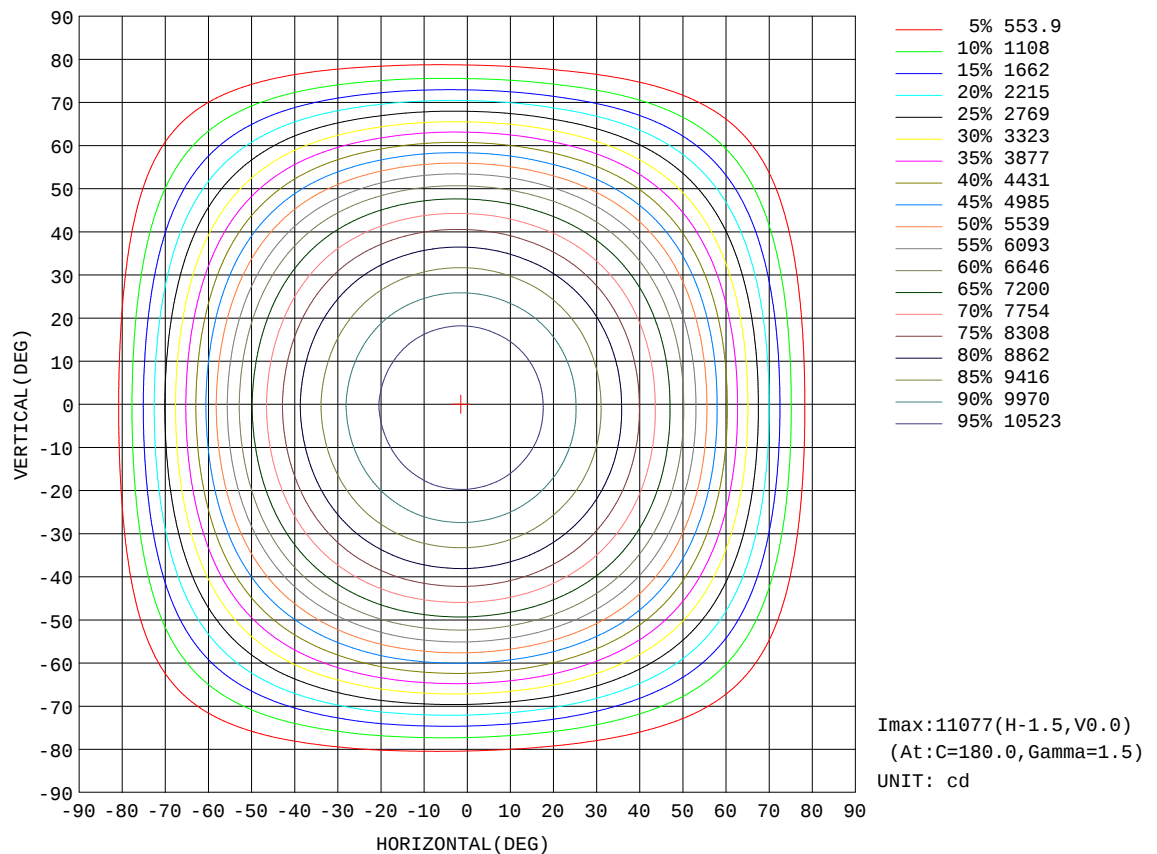
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	47	40	58	47	40	56	46	40	33
0.80	69	57	50	68	57	50	66	56	50	43
1.00	78	67	60	76	66	59	74	67	59	52
1.25	85	75	68	83	74	67	81	73	67	60
1.50	90	80	74	88	79	73	85	78	72	65
2.00	97	89	82	95	87	82	91	85	80	73
2.50	100	93	87	98	92	86	95	89	85	77
3.00	104	97	92	101	96	91	97	93	89	81
4.00	107	102	98	105	100	96	101	97	94	85
5.00	110	105	101	107	103	100	103	100	97	88
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:25DEG
Operators:
Test Date:2025-02-27

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.880m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:230.35V I:0.8813A P:195.54W PF:0.9633 Freq:49.99Hz Lamp Flux:30961.5x1 lm		
NAME: KD008-BKTCTP300-200	TYPE:	WEIGHT:
SPEC.: black RA80 3000K+6000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 335mm	Shielding Angle:

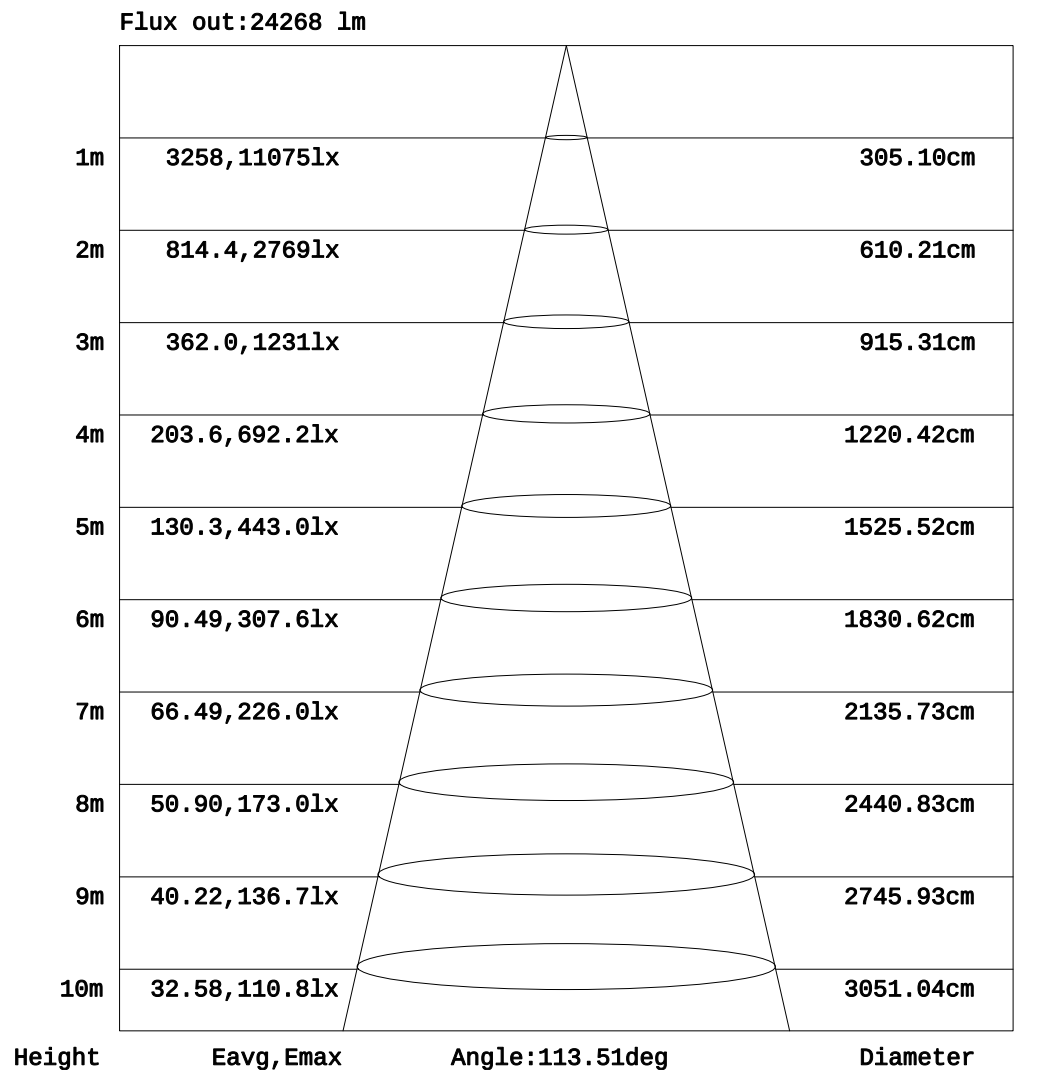


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:25DEG
Operators:
Test Date:2025-02-27

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.880m [K=1.0000]
Remarks:

AAI Figure

Test:U:230.35V I:0.8813A P:195.54W PF:0.9633 Freq:49.99Hz Lamp Flux:30961.5x1 lm		
NAME: KD008-BKTCTP300-200	TYPE:	WEIGHT:
SPEC.: black RA80 3000K+6000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 335mm	Shielding Angle:



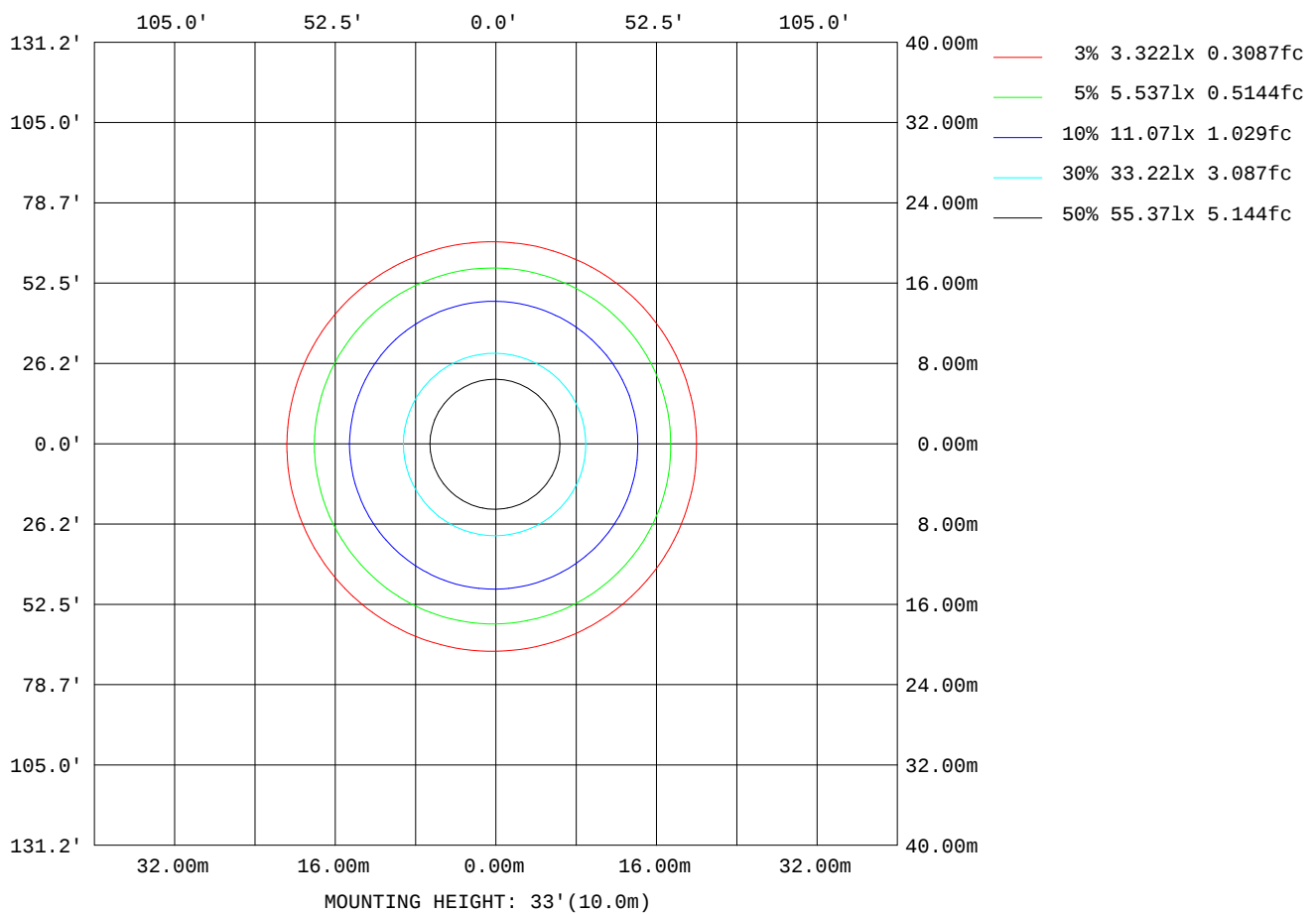
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:25DEG
Operators:
Test Date:2025-02-27

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.880m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:230.35V I:0.8813A P:195.54W PF:0.9633 Freq:49.99Hz Lamp Flux:30961.5x1 lm		
NAME: KD008-BKTCTP300-200	TYPE:	WEIGHT:
SPEC.: black RA80 3000K+6000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 335mm	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: MEDIUM
 Temperature: 25DEG
 Operators:
 Test Date: 2025-02-27

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
 Humidity: 65.0%
 Test Distance: 7.880m [K=1.0000]
 Remarks:

LED Avg.L Report

Test:U:230.35V I:0.8813A P:195.54W PF:0.9633 Freq:49.99Hz Lamp Flux:30961.5x1 lm		
NAME: KD008-BKTCTP300-200	TYPE:	WEIGHT:
SPEC.: black RA80 3000K+6000K	DIM.:	SERIAL No.:
MFR.:	SUR.: 335mm	Shielding Angle:

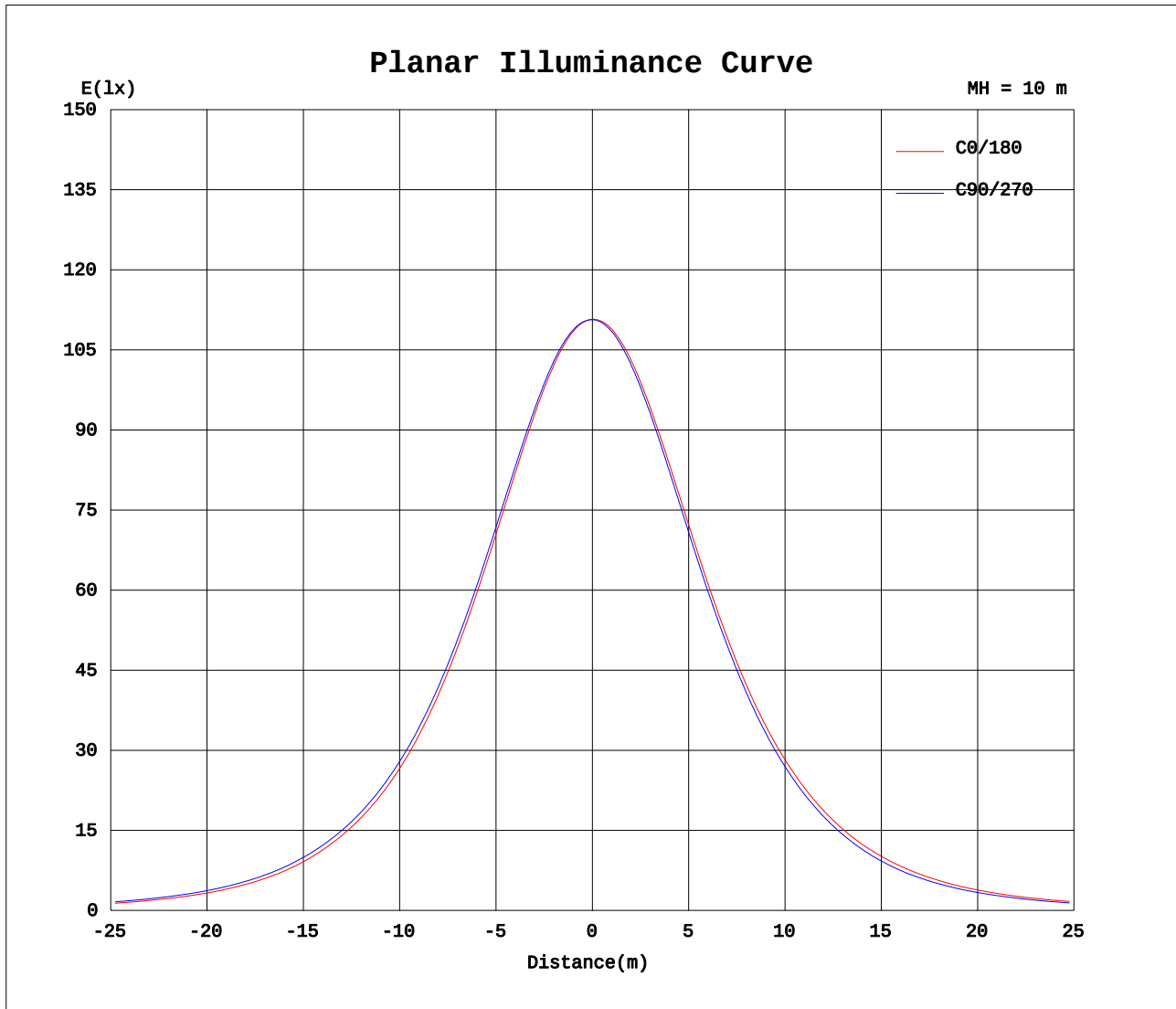
AvgL	cd/m2
L_0~180(65)av	97653
L_0~180(75)av	61818
L_0~180(85)av	9202
L_90~270(65)av	97420
L_90~270(75)av	61186
L_90~270(85)av	8311
L_45(65)av	97901
L_45(75)av	61374
L_45(85)av	8416

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature:25DEG
Operators:
Test Date:2025-02-27

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.880m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: MEDIUM
Temperature: 25DEG
Operators:
Test Date: 2025-02-27

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity: 65.0%
Test Distance: 7.880m [K=1.0000]
Remarks:

```

Range: 0 - 90DEG
Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.880m [K=1.0000]
Remarks:

```