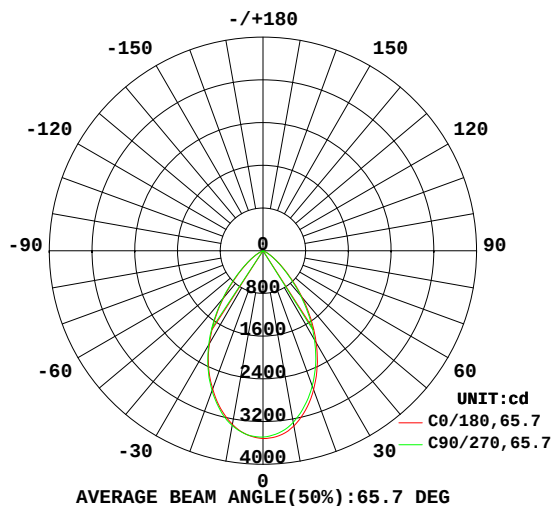


LUMINAIRE PHOTOMETRIC TEST REPORT

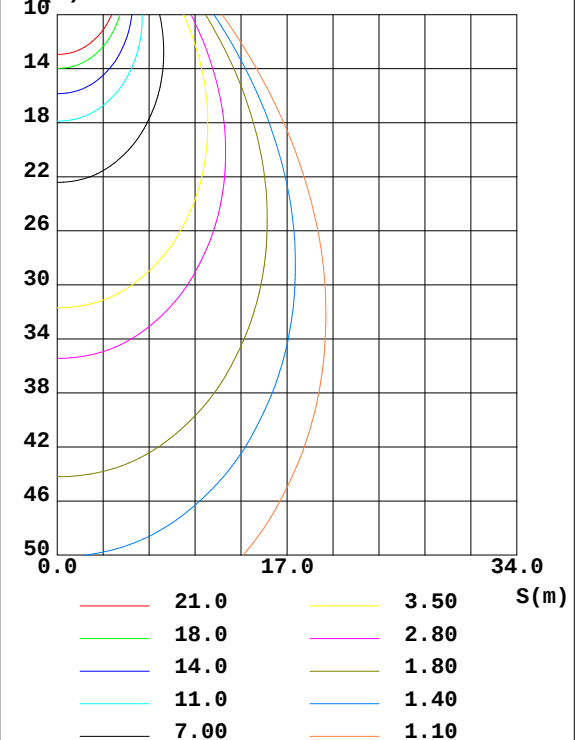
Test:U:230.00V I:0.1557A P:34.705W PF:0.9692 Freq:49.99Hz Lamp Flux:4145.14x1 lm		
NAME: DL3008-BKTC35S03	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 190mm	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 119.44 lm/W			
MODEL	2835 96 3000K	I _{max} (cd)	3516	S/MH(C0/180)	0.95
NOMINAL POWER(W)	35	LOR(%)	100.0	S/MH(C90/270)	0.96
RATED VOLTAGE(V)	220-240	TOTAL FLUX(lm)	4145.1	η UP, DN(C0-180)	0.0, 49.3
NOMINAL FLUX(lm)	4145.14	CIE CLASS	DIRECT	η UP, DN(C180-360)	0.0, 50.7
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.00
TEST VOLTAGE(V)	220	η down(%)	100.0	CIBSE SHR MAX	1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2024-07-08

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity: 65.0%
Test Distance: 7.450m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

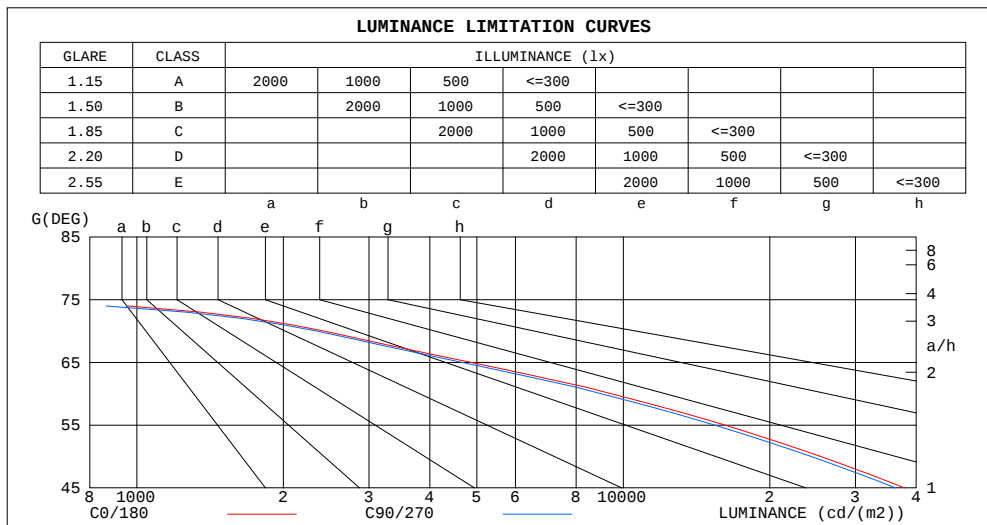
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	3332	3293	3264	3242	3302	3312	3324	3321	0- 10	324.0	324.0	7.82, 7.82
20	2768	2726	2696	2689	2756	2774	2790	2782	10- 20	854.4	1178	28.4, 28.4
30	1994	1955	1931	1932	2007	2021	2034	2027	20- 30	1092	2270	54.8, 54.8
40	1141	1114	1102	1096	1149	1164	1182	1176	30- 40	970.9	3241	78.2, 78.2
50	463.6	447.5	443.0	439.0	461.9	473.0	486.0	482.9	40- 50	590.2	3831	92.4, 92.4
60	133.6	128.9	127.4	124.3	134.1	135.3	140.1	140.0	50- 60	242.9	4074	98.3, 98.3
70	23.46	23.12	22.65	21.03	22.85	22.78	23.76	24.17	60- 70	63.51	4137	99.8, 99.8
80	0.4903	0.4980	0.5096	0.4903	0.2200	0.2162	0.2162	0.2200	70- 80	7.224	4145	100, 100
90	0.9033	0.9226	0.9419	0.9419	0.3204	0.3088	0.3050	0.3011	80- 90	0.5031	4145	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		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2024-07-08

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
 Humidity: 65.0%
 Test Distance: 7.450m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.00V I:0.1557A P:34.705W PF:0.9692 Freq:49.99Hz Lamp Flux:4145.14x1 lm		
NAME: DL3008-BKTC35S03	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 190mm	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	250	261
80	100	104
75	545	445
70	2419	2336
65	4853	4654
60	9424	8985
55	16172	15407
50	25442	24308
45	37861	36287

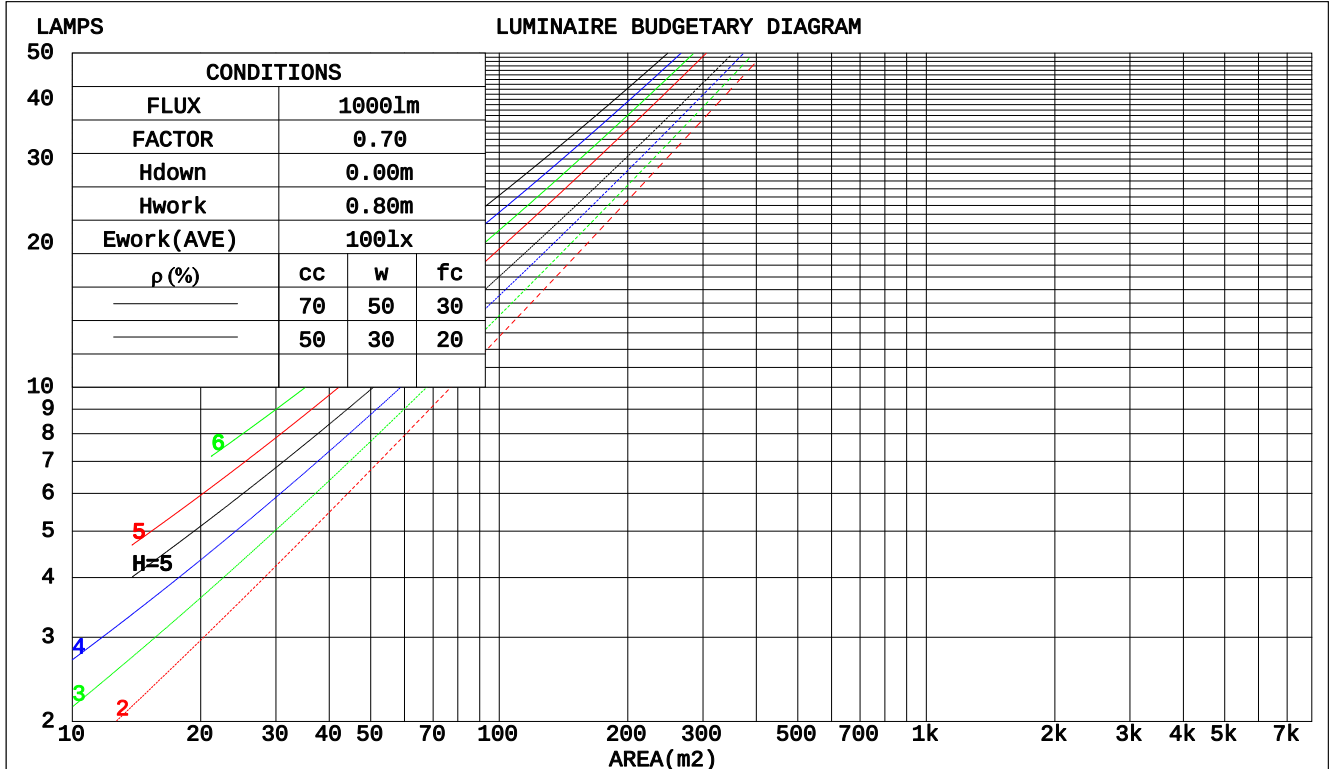
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2024-07-08

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity: 65.0%
Test Distance: 7.450m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.00V I:0.1557A P:34.705W PF:0.9692 Freq:49.99Hz Lamp Flux:4145.14x1 lm		
NAME: DL3008-BKTC35S03	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 190mm	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	1.10	1.07	1.04	1.07	1.05	1.03	1.03	1.01	.99	.90	.98	.96	.96	.95	.94	.92
2.0	1.01	.96	.92	.99	.95	.91	.95	.92	.89	.92	.90	.87	.90	.87	.85	.83
3.0	.92	.87	.82	.91	.86	.81	.88	.84	.80	.86	.82	.79	.83	.80	.78	.76
4.0	.85	.79	.74	.84	.78	.73	.81	.76	.72	.79	.75	.72	.77	.74	.71	.69
5.0	.78	.72	.67	.77	.71	.66	.76	.70	.66	.74	.69	.65	.72	.68	.65	.63
6.0	.73	.66	.61	.72	.65	.61	.70	.64	.60	.69	.64	.60	.67	.63	.59	.58
7.0	.67	.61	.56	.67	.60	.56	.65	.60	.55	.64	.59	.55	.63	.58	.55	.53
8.0	.63	.56	.51	.62	.56	.51	.61	.55	.51	.60	.55	.51	.59	.54	.51	.49
9.0	.59	.52	.48	.58	.52	.47	.57	.51	.47	.56	.51	.47	.55	.50	.47	.45
10.0	.55	.48	.44	.55	.48	.44	.54	.48	.44	.53	.48	.44	.52	.47	.44	.42



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2024-07-08

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:230.00V I:0.1557A P:34.705W PF:0.9692 Freq:49.99Hz Lamp Flux:4145.14x1 lm					
NAME: DL3008-BKTC35S03			TYPE:		WEIGHT:
SPEC.: black RA90 3000K+5700K			DIM.:		SERIAL No.:
MFR.:			SUR.: 190mm		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	.200	.114	.036	.194	.110	.035	.181	.104	.033	.169	.098	.031	.158	.092	.030		
2.0	.195	.107	.033	.189	.104	.032	.179	.099	.031	.169	.095	.030	.159	.090	.028		
3.0	.187	.100	.030	.182	.098	.029	.173	.094	.028	.164	.090	.028	.156	.086	.027		
4.0	.179	.093	.027	.174	.091	.027	.166	.088	.026	.159	.085	.026	.151	.082	.025		
5.0	.170	.087	.025	.166	.085	.025	.159	.083	.024	.152	.080	.024	.146	.078	.023		
6.0	.162	.081	.023	.158	.080	.023	.152	.078	.023	.146	.076	.022	.141	.074	.022		
7.0	.154	.076	.022	.151	.075	.021	.145	.073	.021	.140	.072	.021	.135	.070	.021		
8.0	.147	.072	.020	.144	.071	.020	.139	.069	.020	.134	.068	.020	.130	.067	.019		
9.0	.140	.068	.019	.138	.067	.019	.133	.066	.019	.129	.065	.018	.125	.063	.018		
10.0	.134	.064	.018	.131	.064	.018	.127	.062	.018	.123	.061	.017	.120	.060	.017		

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	.173	.157	.143	.148	.135	.123	.101	.093	.085	.058	.054	.050	.019	.017	.016		
2.0	.159	.132	.110	.136	.114	.095	.094	.079	.066	.054	.046	.039	.017	.015	.013		
3.0	.149	.114	.086	.127	.098	.075	.087	.068	.052	.050	.040	.031	.016	.013	.010		
4.0	.139	.099	.069	.120	.086	.060	.082	.060	.042	.048	.035	.025	.015	.011	.008		
5.0	.132	.088	.056	.113	.076	.049	.078	.053	.034	.045	.031	.020	.015	.010	.007		
6.0	.125	.079	.047	.107	.069	.041	.074	.048	.029	.043	.028	.017	.014	.009	.006		
7.0	.119	.072	.039	.102	.062	.034	.070	.044	.024	.041	.026	.014	.013	.008	.005		
8.0	.113	.066	.034	.097	.057	.029	.067	.040	.021	.039	.024	.012	.013	.008	.004		
9.0	.108	.061	.029	.093	.053	.025	.064	.037	.018	.037	.022	.011	.012	.007	.004		
10.0	.103	.057	.026	.089	.049	.022	.062	.035	.016	.036	.020	.009	.012	.007	.003		

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25DEG
 Operators:
 Test Date:2024-07-08

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
 Humidity:65.0%
 Test Distance:7.450m [K=1.0000]
 Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.00V I:0.1557A P:34.705W PF:0.9692 Freq:49.99Hz Lamp Flux:4145.14x1 lm										
NAME: DL3008-BKTC35S03					TYPE:			WEIGHT:		
SPEC.: black RA90 3000K+5700K					DIM.:			SERIAL No.:		
MFR.:					SUR.: 190mm			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	16.6	17.7	16.8	17.9	18.0	16.4	17.5	16.7	17.7	17.9
3H	16.5	17.5	16.7	17.7	17.9	16.3	17.3	16.6	17.5	17.7
4H	16.4	17.3	16.7	17.6	17.8	16.2	17.2	16.5	17.4	17.6
6H	16.3	17.2	16.6	17.4	17.7	16.1	17.0	16.4	17.3	17.5
8H	16.2	17.1	16.5	17.3	17.6	16.1	16.9	16.4	17.2	17.5
12H	16.2	17.0	16.5	17.3	17.6	16.0	16.8	16.3	17.1	17.4
4H 2H	16.4	17.4	16.7	17.6	17.8	16.3	17.2	16.6	17.5	17.7
3H	16.3	17.1	16.6	17.4	17.7	16.2	17.0	16.5	17.3	17.5
4H	16.2	17.0	16.6	17.3	17.6	16.1	16.8	16.4	17.1	17.4
6H	16.1	16.8	16.5	17.1	17.5	16.0	16.6	16.4	17.0	17.3
8H	16.1	16.7	16.5	17.0	17.4	15.9	16.5	16.3	16.9	17.2
12H	16.0	16.6	16.4	17.0	17.3	15.9	16.4	16.3	16.8	17.2
8H 4H	16.1	16.7	16.5	17.0	17.4	15.9	16.5	16.3	16.9	17.3
6H	16.0	16.5	16.4	16.9	17.3	15.8	16.3	16.3	16.7	17.1
8H	15.9	16.4	16.4	16.8	17.2	15.8	16.2	16.2	16.6	17.1
12H	15.9	16.3	16.4	16.7	17.2	15.7	16.1	16.2	16.5	17.0
12H 4H	16.0	16.6	16.4	17.0	17.3	15.9	16.4	16.3	16.8	17.2
6H	15.9	16.4	16.4	16.8	17.2	15.8	16.2	16.2	16.6	17.1
8H	15.9	16.3	16.4	16.7	17.2	15.7	16.1	16.2	16.5	17.0
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 2.0 / - 4.5					+ 2.0 / - 4.6				
1.5H	+ 2.3 / - 3.1					+ 2.3 / - 3.0				
2.0H	+ 4.2 / - 6.2					+ 4.1 / - 6.1				

CIE Pub.117, 4145 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 4.9)
Area: 0.02835 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2024-07-08

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.00V I:0.1557A P:34.705W PF:0.9692 Freq:49.99Hz Lamp Flux:4145.14x1 lm		
NAME: DL3008-BKTC35S03	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 190mm	Shielding Angle:

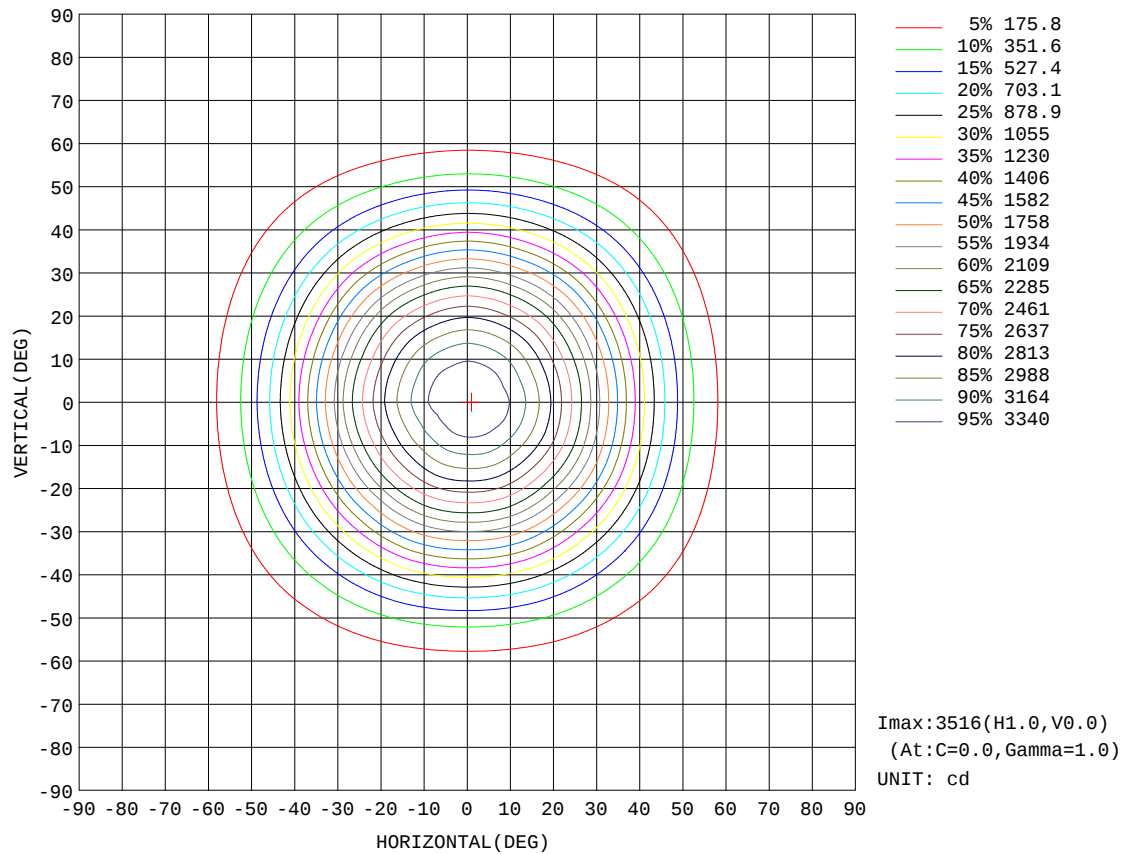
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	77	69	65	77	69	64	76	69	64	60
0.80	87	79	74	86	79	74	84	78	74	69
1.00	93	86	81	92	85	81	90	86	81	76
1.25	98	92	87	97	91	87	95	90	86	81
1.50	102	96	92	100	95	91	98	93	90	85
2.00	106	101	97	104	100	96	101	98	94	89
2.50	108	103	100	106	102	99	103	99	97	90
3.00	110	106	102	108	104	101	104	102	99	92
4.00	112	109	106	110	107	105	106	104	102	94
5.00	114	111	108	111	109	107	107	105	104	96
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: HIGH
Temperature:25DEG
Operators:
Test Date:2024-07-08

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:230.00V I:0.1557A P:34.705W PF:0.9692 Freq:49.99Hz Lamp Flux:4145.14x1 lm		
NAME: DL3008-BKTC35S03	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 190mm	Shielding Angle:



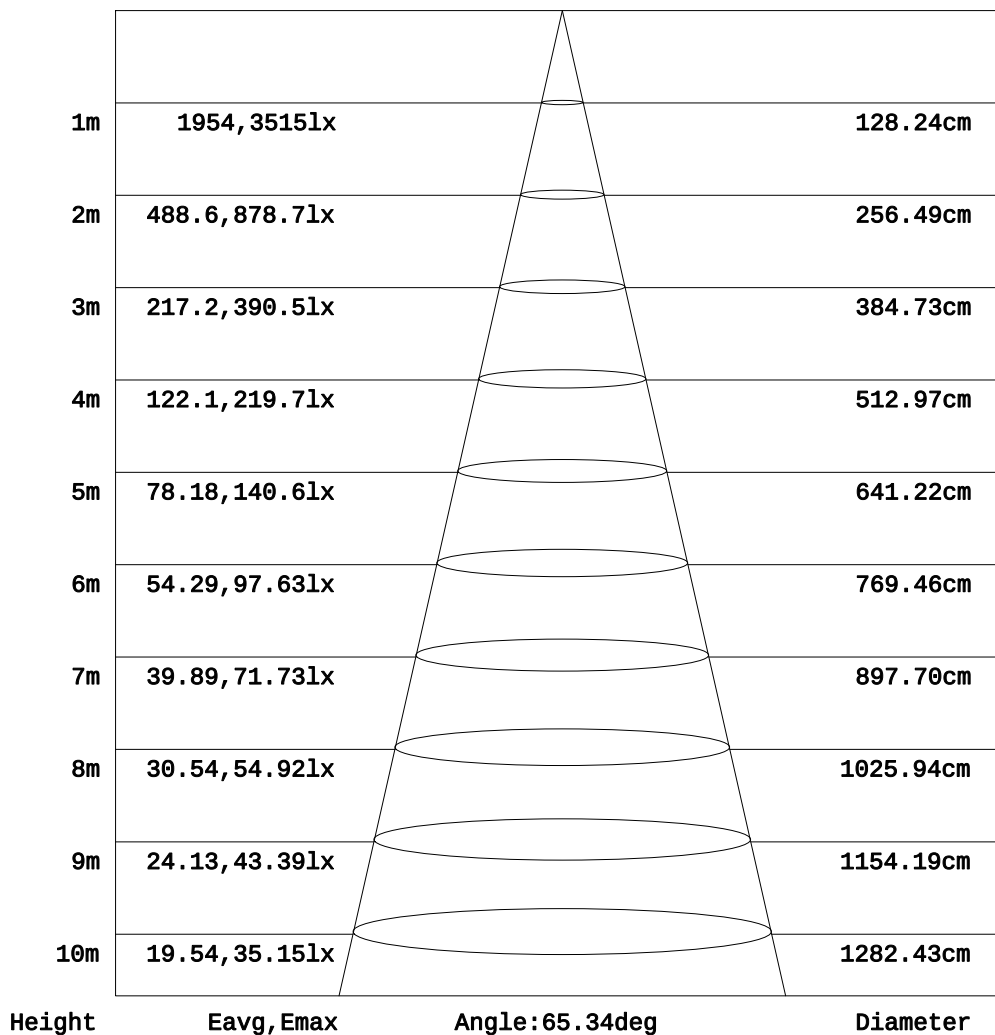
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2024-07-08

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity: 65.0%
Test Distance: 7.450m [K=1.0000]
Remarks:

AAI Figure

Test:U:230.00V I:0.1557A P:34.705W PF:0.9692 Freq:49.99Hz Lamp Flux:4145.14x1 lm		
NAME: DL3008-BKTC35S03	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 190mm	Shielding Angle:

Flux out:2589 lm



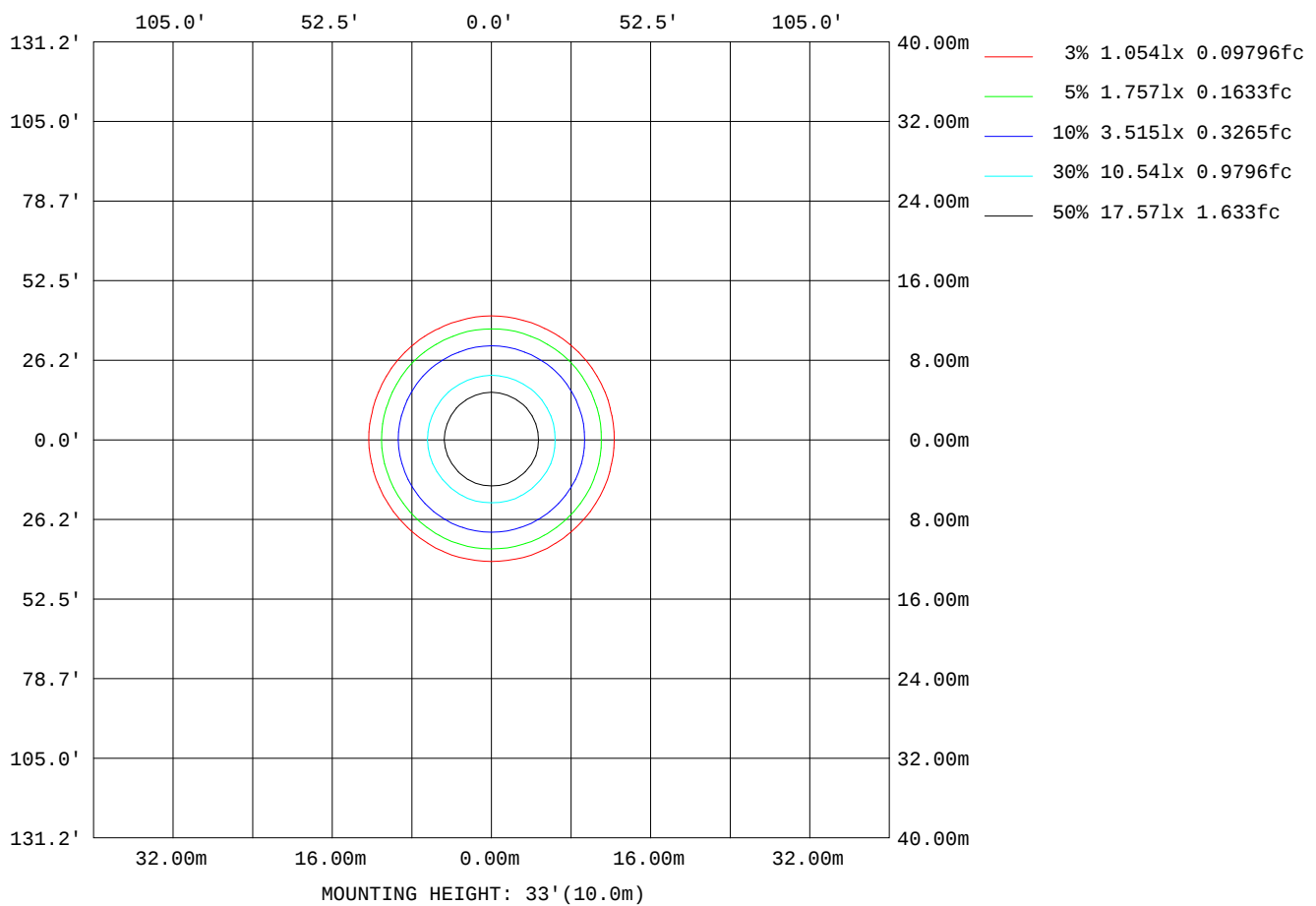
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25DEG
 Operators:
 Test Date: 2024-07-08

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
 Humidity: 65.0%
 Test Distance: 7.450m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:230.00V I:0.1557A P:34.705W PF:0.9692 Freq:49.99Hz Lamp Flux:4145.14x1 lm		
NAME: DL3008-BKTC35S03	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 190mm	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2024-07-08

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity: 65.0%
Test Distance: 7.450m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:230.00V I:0.1557A P:34.705W PF:0.9692 Freq:49.99Hz Lamp Flux:4145.14x1 lm		
NAME: DL3008-BKTC35S03	TYPE:	WEIGHT:
SPEC.: black RA90 3000K+5700K	DIM.:	SERIAL No.:
MFR.:	SUR.: 190mm	Shielding Angle:

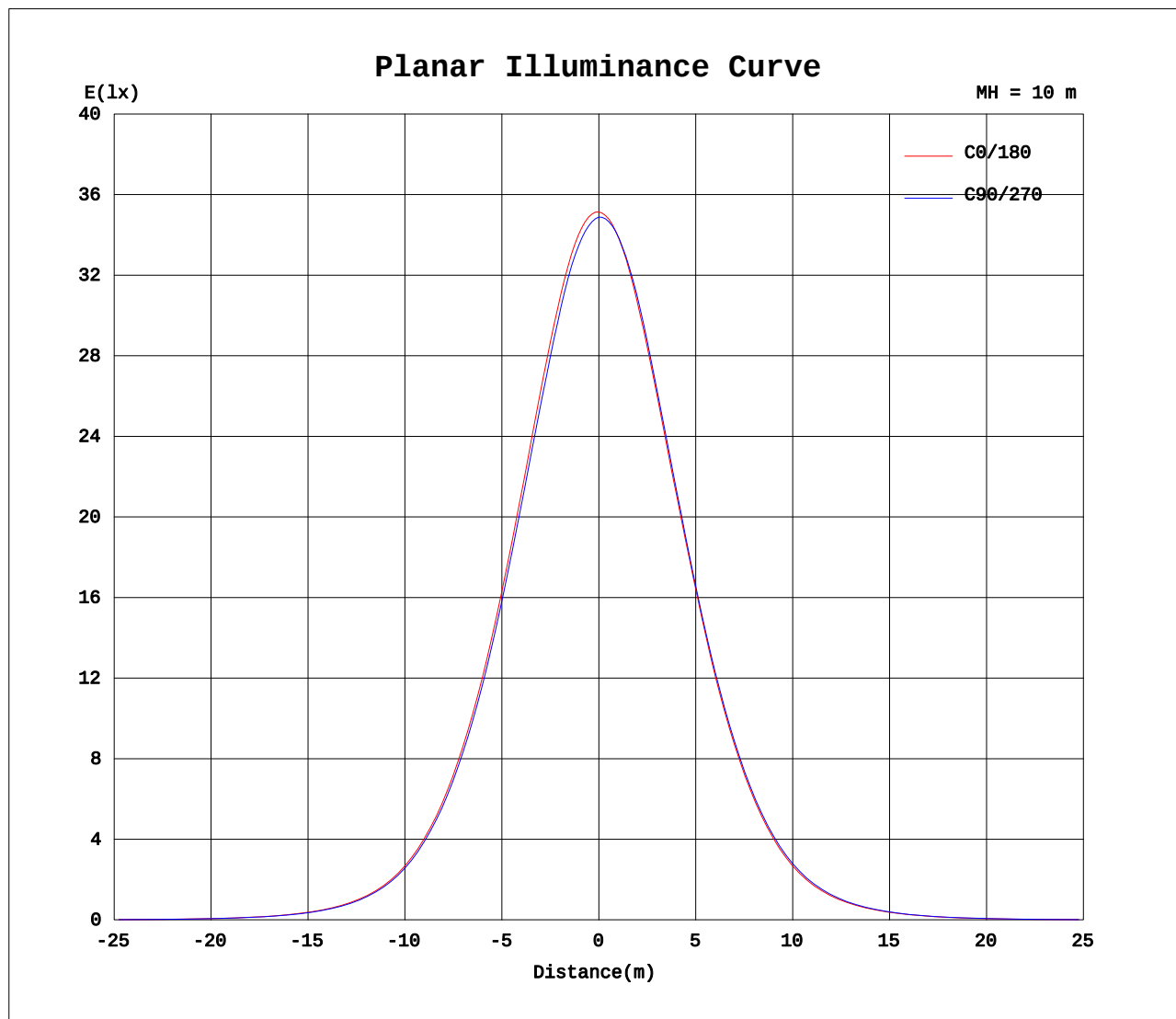
AvgL	cd/m2
L_0~180(65)av	4846
L_0~180(75)av	512
L_0~180(85)av	177
L_90~270(65)av	4838
L_90~270(75)av	522
L_90~270(85)av	179
L_45(65)av	4773
L_45(75)av	511
L_45(85)av	177

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25DEG
Operators:
Test Date:2024-07-08

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25DEG
Operators:
Test Date: 2024-07-08

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE G0-2000B_V1 SYSTEM V2.00.428
Humidity: 65.0%
Test Distance: 7.450m [K=1.0000]
Remarks:

```

Range: 0 - 90DEG
Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.00.428
Humidity:65.0%
Test Distance:7.450m [K=1.0000]
Remarks:

```