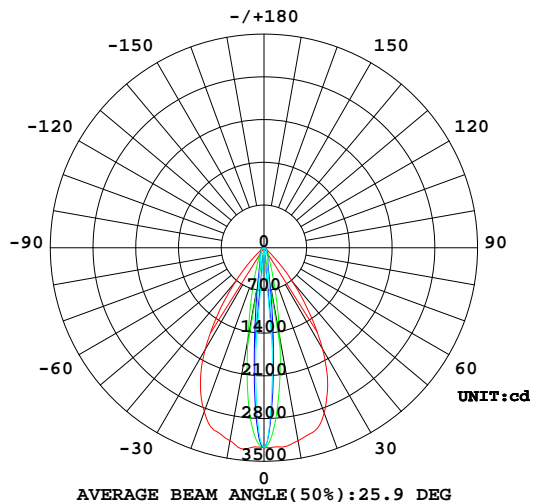


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.86V I:0.0830A P:13.615W PF:0.7429 Freq:50.01Hz Lamp Flux:920.638x1 lm		
NAME: SO05-28 L2895 0.3M 1# Bai	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Traxon Technologies	SUR.:	Shielding Angle:

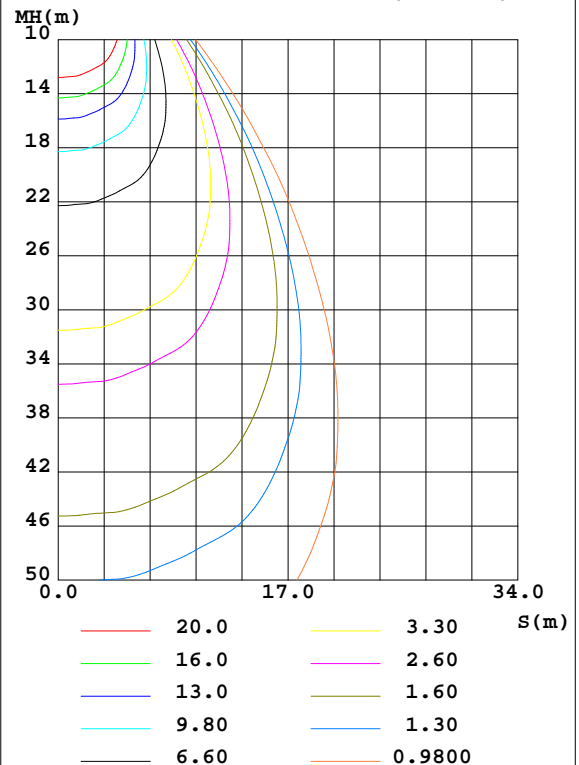
DATA OF LAMP		PHOTOMETRIC DATA Eff: 67.62 lm/W			
L2895-MODEL12-DW-60x10D-OSRAM-ALL		Imax(cd)	3316	S/MH(C0/180)	0.95
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)	0.16
RATED VOLTAGE(V)	220V	TOTAL FLUX(lm)	920.64	η UP,DN(C0-180)	0.0,49.6
NOMINAL FLUX(lm)	920.638	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.4
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	220V	η down(%)	100.0	CIBSE SHR MAX	1.00

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



— C0/180,64.4 Ic=3275
— C30/210,18.8 Ic=3274
— C60/240,11.0 Ic=3273
— C90/270,9.5 Ic=3272

C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-07-23

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:11.635m [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	3211	844.4	394.5	846.3	3212	903.1	430.6	843.5	0- 10	184.4	184.4	20,20
20	2883	214.7	172.3	210.1	2858	226.0	176.3	221.6	10- 20	240.1	424.6	46.1,46.1
30	1922	127.1	98.40	124.2	1934	128.3	101.8	128.5	20- 30	208.0	632.6	68.7,68.7
40	729.0	76.92	68.17	74.38	740.5	77.96	70.34	78.24	30- 40	135.8	768.4	83.5,83.5
50	106.5	52.27	48.11	50.73	109.2	52.79	49.73	53.04	40- 50	69.18	837.5	91,91
60	48.59	33.32	31.83	32.55	48.11	33.76	32.51	33.82	50- 60	40.53	878.1	95.4,95.4
70	27.77	17.72	15.34	17.74	28.87	18.00	15.63	17.79	60- 70	26.72	904.8	98.3,98.3
80	9.700	5.287	4.064	5.810	10.82	5.029	3.950	4.995	70- 80	12.51	917.3	99.6,99.6
90	1.810	1.969	2.258	2.310	1.792	1.232	2.090	1.302	80- 90	3.336	920.6	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): 809.18 lm

%lum = 87.9%

%lamp = 87.9%

Conical surface Flux(120deg): 878.07 lm

%lum = 95.4%

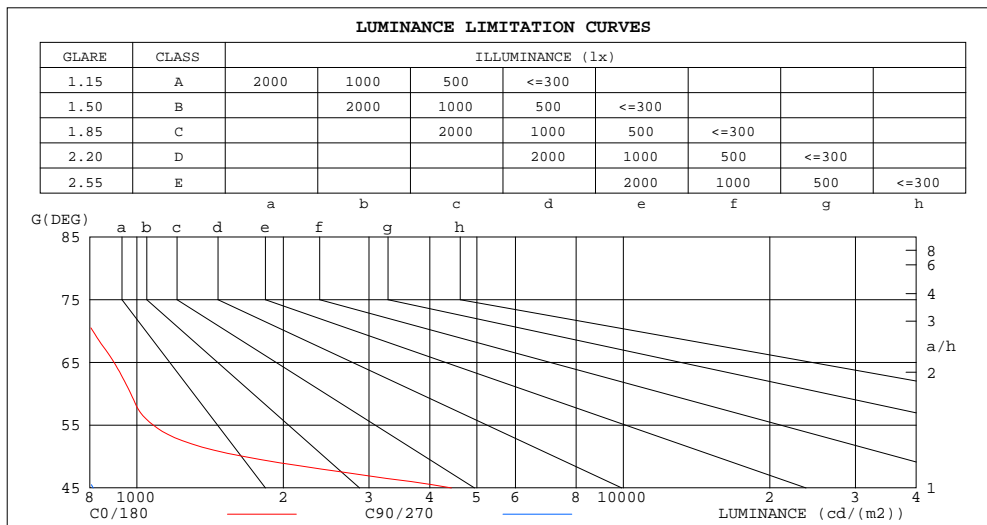
%lamp = 95.4%

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-07-23

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
 Humidity:65.0%
 Test Distance:11.635m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.86V I:0.0830A P:13.615W PF:0.7429 Freq:50.01Hz Lamp Flux:920.638x1 lm		
NAME: SO05-28 L2895 0.3M 1# Bai	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Traxon Technologies	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	445	293
80	559	234
75	714	324
70	812	449
65	897	560
60	972	637
55	1080	694
50	1656	749
45	4433	813

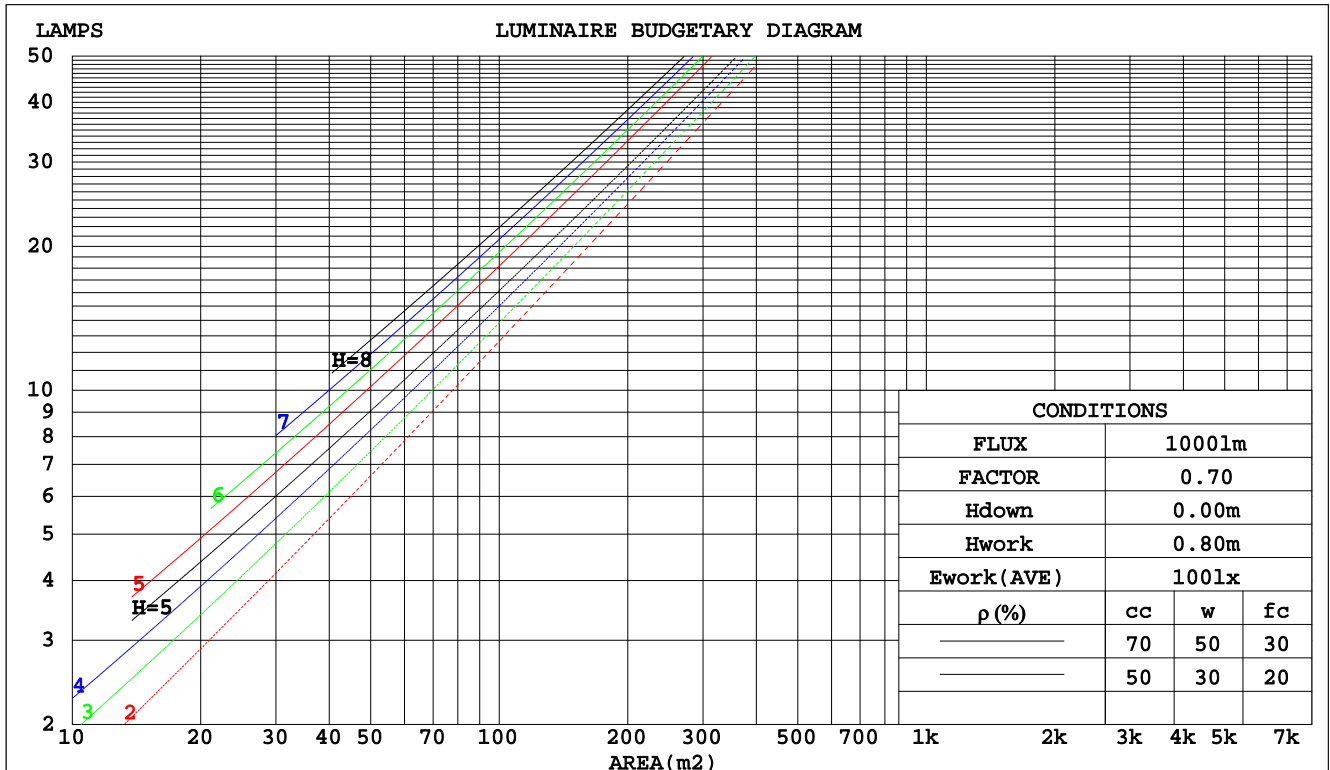
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2022-07-23

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity: 65.0%
Test Distance: 11.635m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.86V I:0.0830A P:13.615W PF:0.7429 Freq:50.01Hz Lamp Flux:920.638x1 lm		
NAME: SO05-28 L2895 0.3M 1# Bai	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Traxon Technologies	SUR.:	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-07-23

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.417
 Humidity: 65.0%
 Test Distance: 11.635m [K=1.0000]
 Remarks:

WEC AND CCEC

Test:U:220.86V I:0.0830A P:13.615W PF:0.7429 Freq:50.01Hz Lamp Flux:920.638x1 lm		
NAME: SO05-28 L2895 0.3M 1# Bai	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Traxon Technologies	SUR.:	Shielding Angle:

pcc	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						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.191	.108	.034	.184	.105	.033	.171	.098	.031	.160	.092	.030	.149	.086	.028		
2.0	.181	.099	.030	.175	.096	.030	.164	.091	.028	.155	.087	.027	.145	.082	.026		
3.0	.170	.091	.027	.165	.088	.027	.156	.085	.026	.148	.081	.025	.140	.077	.024		
4.0	.160	.083	.024	.156	.081	.024	.148	.078	.023	.141	.075	.023	.134	.073	.022		
5.0	.151	.077	.022	.147	.075	.022	.140	.073	.021	.134	.071	.021	.128	.068	.021		
6.0	.142	.071	.020	.139	.070	.020	.133	.068	.020	.127	.066	.019	.122	.064	.019		
7.0	.134	.066	.019	.132	.066	.019	.126	.064	.018	.121	.062	.018	.117	.061	.018		
8.0	.128	.062	.018	.125	.062	.017	.120	.060	.017	.116	.059	.017	.112	.057	.017		
9.0	.121	.059	.016	.119	.058	.016	.115	.057	.016	.111	.056	.016	.107	.054	.016		
10.0	.116	.055	.015	.114	.055	.015	.110	.054	.015	.106	.053	.015	.103	.052	.015		

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	.172	.157	.144	.147	.135	.124	.101	.093	.086	.058	.054	.050	.019	.017	.016		
2.0	.157	.132	.111	.135	.114	.096	.092	.079	.067	.053	.046	.039	.017	.015	.013		
3.0	.145	.114	.088	.125	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010		
4.0	.135	.099	.072	.116	.086	.062	.080	.060	.044	.046	.035	.026	.015	.011	.009		
5.0	.126	.087	.059	.108	.076	.051	.074	.053	.036	.043	.031	.022	.014	.010	.007		
6.0	.118	.078	.049	.101	.068	.043	.070	.047	.030	.041	.028	.018	.013	.009	.006		
7.0	.111	.070	.042	.096	.061	.037	.066	.043	.026	.038	.025	.015	.012	.008	.005		
8.0	.105	.064	.036	.090	.056	.031	.063	.039	.022	.036	.023	.013	.012	.008	.004		
9.0	.100	.059	.031	.086	.051	.027	.059	.036	.019	.035	.021	.012	.011	.007	.004		
10.0	.095	.054	.028	.082	.047	.024	.057	.033	.017	.033	.020	.010	.011	.006	.003		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-07-23

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:11.635m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.86V I:0.0830A P:13.615W PF:0.7429 Freq:50.01Hz Lamp Flux:920.638x1 lm											
NAME: SO05-28 L2895 0.3M 1# Bai						TYPE:		WEIGHT:			
SPEC.:						DIM.:		SERIAL No.:1			
MFR.: Traxon Technologies						SUR.:		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		12.5	13.5	12.8	13.7	13.8	7.2	8.2	7.4	8.3	8.5
	3H	12.9	13.8	13.2	14.0	14.2	8.1	9.0	8.4	9.2	9.4
	4H	13.1	14.0	13.4	14.2	14.4	8.4	9.2	8.6	9.4	9.7
	6H	13.2	14.0	13.5	14.3	14.5	8.5	9.3	8.8	9.5	9.7
	8H	13.2	14.0	13.6	14.3	14.5	8.5	9.2	8.8	9.5	9.8
	12H	13.2	14.0	13.6	14.2	14.5	8.5	9.2	8.8	9.5	9.8
4H	2H	12.5	13.3	12.7	13.5	13.7	7.8	8.6	8.0	8.8	9.1
	3H	13.0	13.7	13.3	14.0	14.3	8.8	9.6	9.1	9.8	10.1
	4H	13.2	13.9	13.6	14.2	14.5	9.1	9.8	9.5	10.1	10.4
	6H	13.4	14.0	13.8	14.3	14.7	9.3	9.9	9.6	10.2	10.5
	8H	13.4	14.0	13.8	14.4	14.7	9.3	9.9	9.7	10.2	10.6
	12H	13.5	14.0	13.9	14.3	14.7	9.3	9.8	9.7	10.2	10.6
8H	4H	13.2	13.7	13.6	14.1	14.4	9.3	9.8	9.7	10.2	10.6
	6H	13.4	13.8	13.8	14.2	14.7	9.5	10.0	9.9	10.3	10.8
	8H	13.5	13.9	13.9	14.3	14.7	9.6	10.0	10.0	10.4	10.8
	12H	13.5	13.9	14.0	14.3	14.8	9.6	10.0	10.1	10.4	10.9
12H	4H	13.1	13.6	13.5	14.0	14.4	9.3	9.8	9.7	10.2	10.5
	6H	13.4	13.8	13.8	14.2	14.6	9.5	9.9	10.0	10.3	10.8
	8H	13.4	13.8	13.9	14.2	14.7	9.6	9.9	10.1	10.4	10.8
Variations with the observer position at spacings:											
S = 1.0H	+ 5.8 / - 3.8					+ 0.4 / - 0.4					
1.5H	+ 8.0 / - 4.3					+ 0.1 / - 0.2					
2.0H	+ 6.9 / - 1.8					+ 0.4 / - 0.5					

CIE Pub.117, 920.6 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.3)
Area: 0.1 m2

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-07-23

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:11.635m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.86V I:0.0830A P:13.615W PF:0.7429 Freq:50.01Hz Lamp Flux:920.638x1 lm		
NAME: SO05-28 L2895 0.3M 1# Bai	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Traxon Technologies	SUR.:	Shielding Angle:

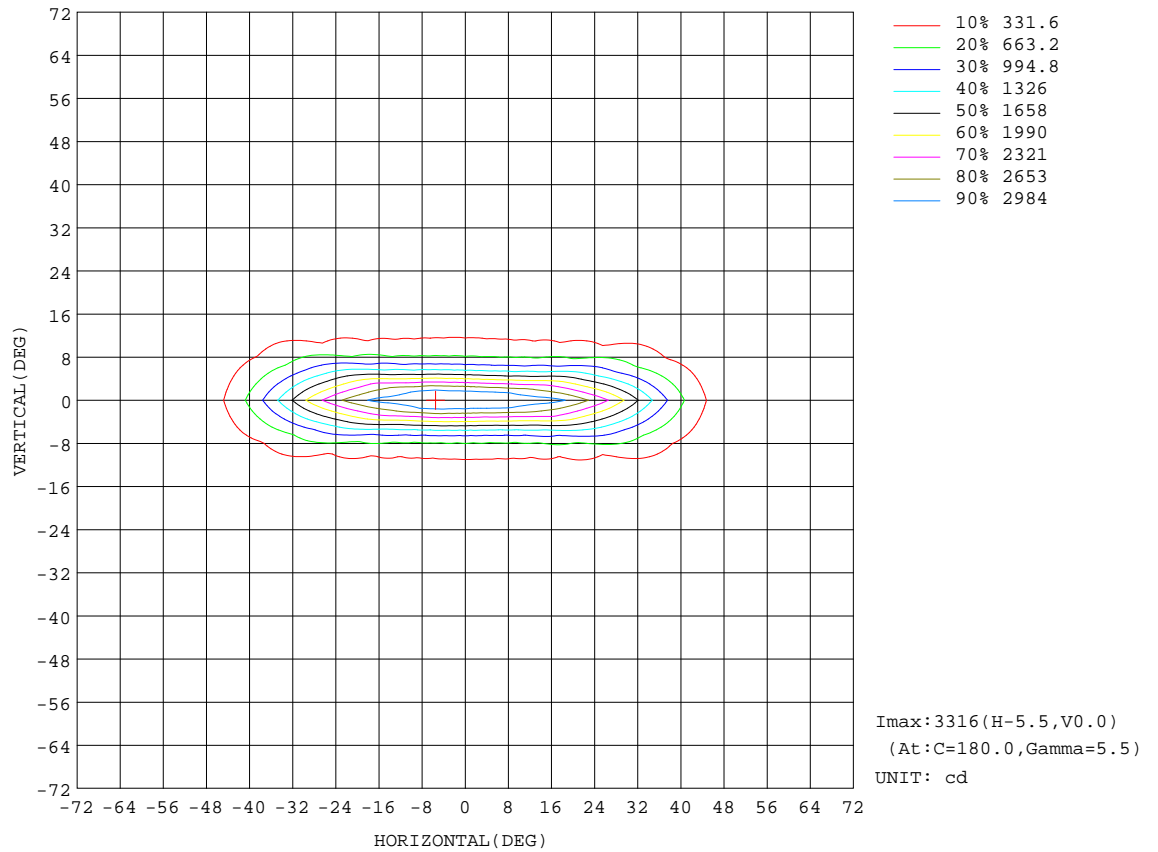
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	81	74	69	81	74	69	80	73	69	65
0.80	89	82	78	89	82	78	87	81	77	73
1.00	95	88	84	94	87	83	92	88	83	78
1.25	99	93	89	98	92	88	96	91	88	83
1.50	102	97	93	101	96	92	99	94	91	86
2.00	106	101	97	104	100	96	102	98	95	89
2.50	108	103	100	106	102	99	103	100	97	91
3.00	110	106	103	108	104	102	105	102	99	93
4.00	112	109	106	110	107	105	107	104	102	95
5.00	114	111	109	112	109	107	108	106	104	96
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-07-23

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:11.635m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.86V I:0.0830A P:13.615W PF:0.7429 Freq:50.01Hz Lamp Flux:920.638x1 lm		
NAME: SO05-28 L2895 0.3M 1# Bai	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Traxon Technologies	SUR.:	Shielding Angle:

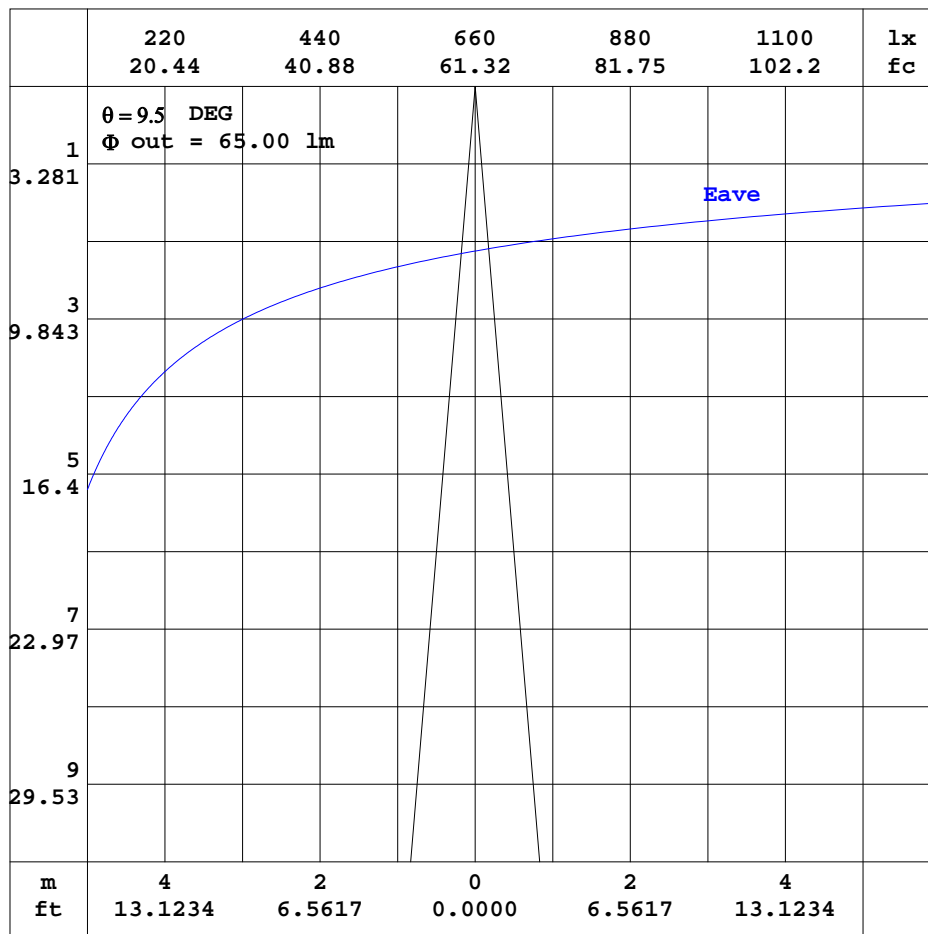


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-07-23

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:11.635m [K=1.0000]
Remarks:

AAI CURVES

Test:U:220.86V I:0.0830A P:13.615W PF:0.7429 Freq:50.01Hz Lamp Flux:920.638x1 lm		
NAME: SO05-28 L2895 0.3M 1# Bai	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Traxon Technologies	SUR.:	Shielding Angle:



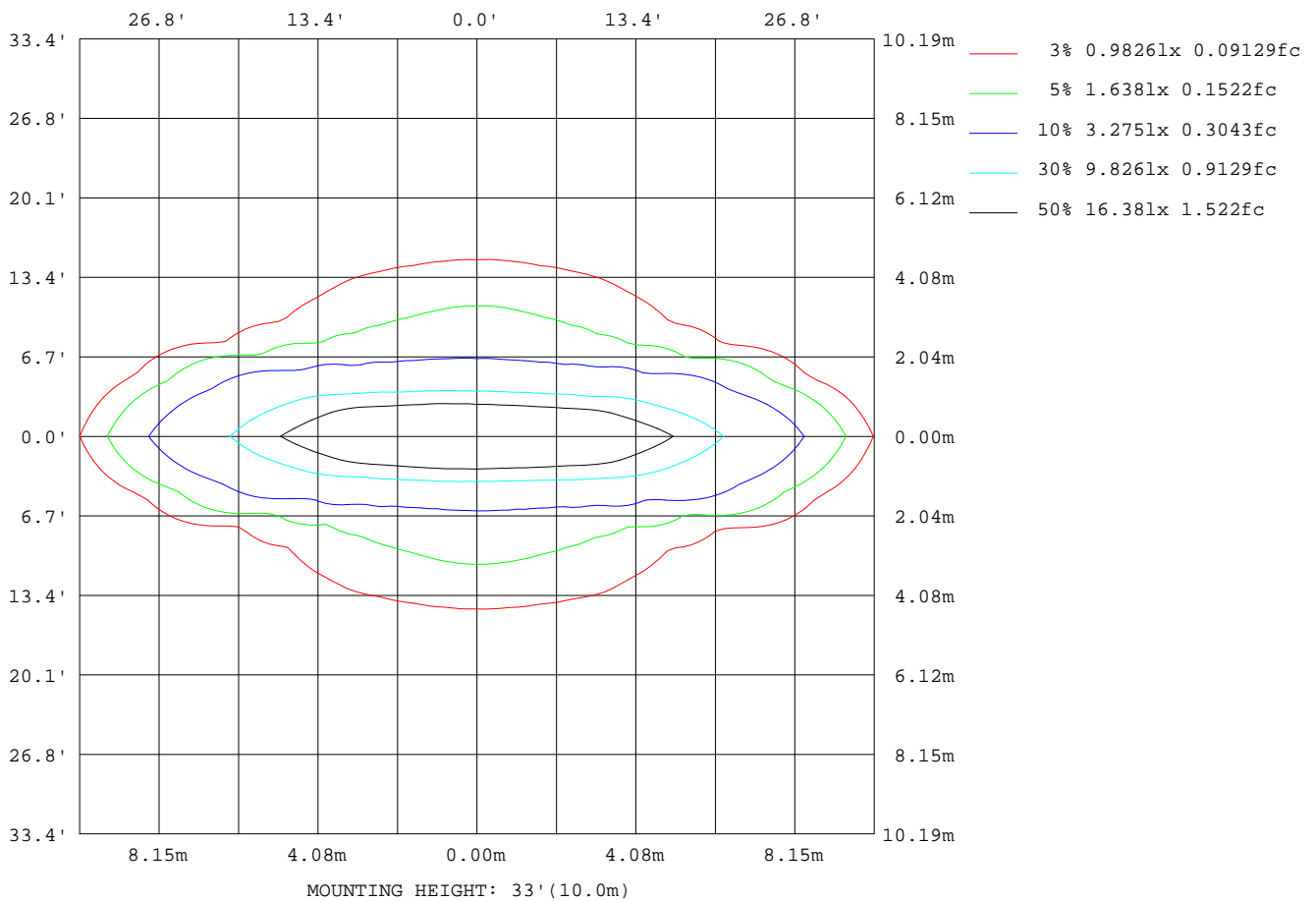
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-07-23

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.417
 Humidity: 65.0%
 Test Distance: 11.635m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:220.86V I:0.0830A P:13.615W PF:0.7429 Freq:50.01Hz Lamp Flux:920.638x1 lm		
NAME: SO05-28 L2895 0.3M 1# Bai	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Traxon Technologies	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-07-23

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:11.635m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:220.86V I:0.0830A P:13.615W PF:0.7429 Freq:50.01Hz Lamp Flux:920.638x1 lm		
NAME: SO05-28 L2895 0.3M 1# Bai	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:1
MFR.: Traxon Technologies	SUR.:	Shielding Angle:

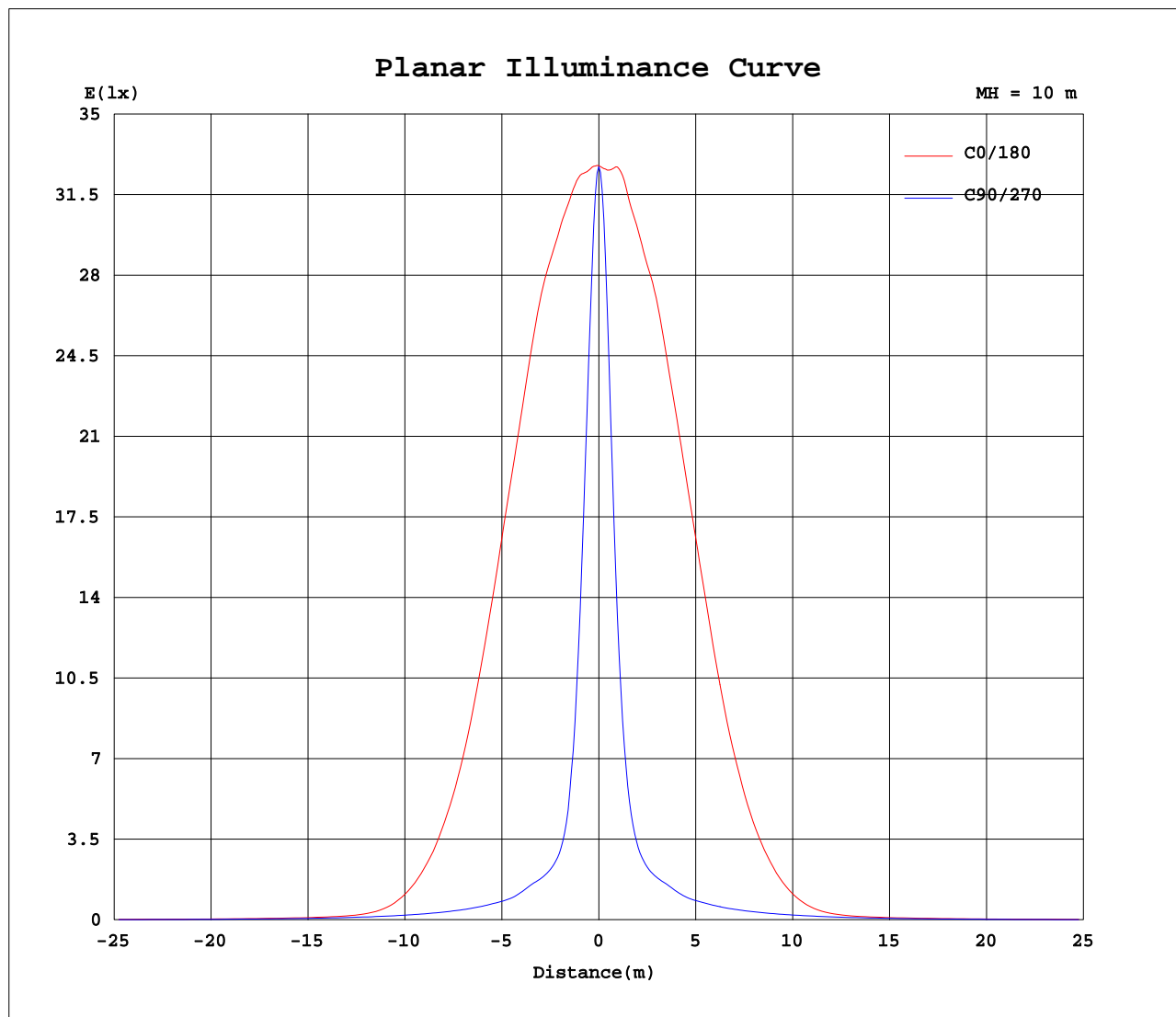
AvgL	cd/m2
L_0~180(65)av	900
L_0~180(75)av	739
L_0~180(85)av	488
L_90~270(65)av	565
L_90~270(75)av	320
L_90~270(85)av	304
L_45(65)av	598
L_45(75)av	421
L_45(85)av	256

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-07-23

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
 Humidity:65.0%
 Test Distance:11.635m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-07-23

γ Range: 0 - 90DEG
 γ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.417
 Humidity: 65.0%
 Test Distance: 11.635m [K=1.0000]
 Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:11.635m [K=1.0000]
Remarks:

```

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γ Range: 0 - 90DEG
γ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:11.635m [K=1.0000]
Remarks:

```