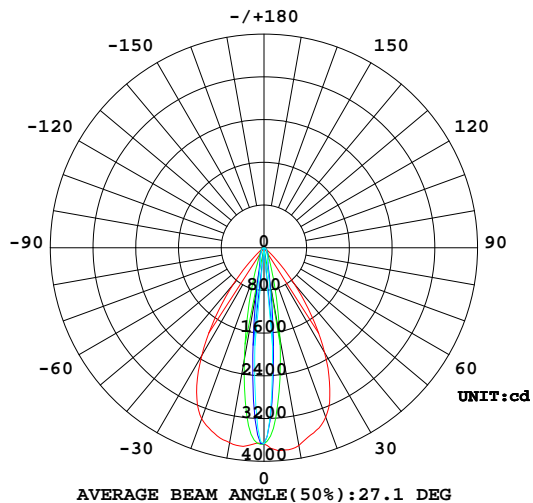


LUMINAIRE PHOTOMETRIC TEST REPORT

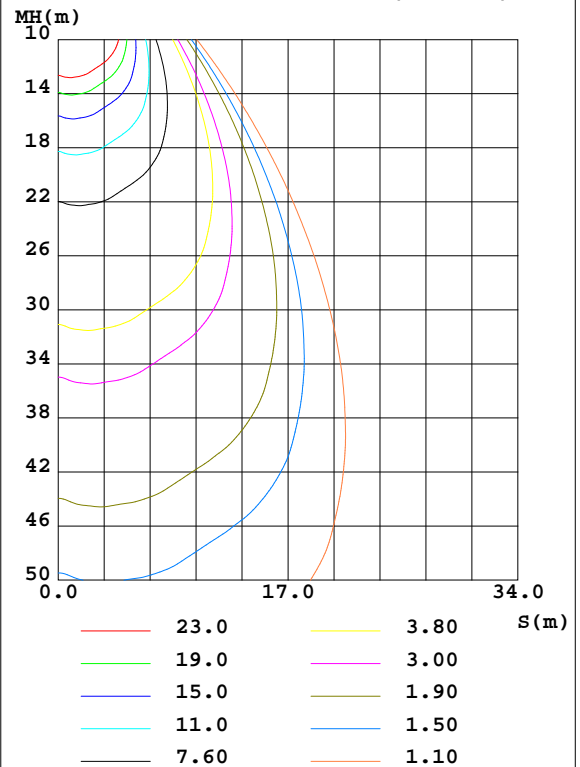
Test:U:220.85V I:0.1100A P:22.547W PF:0.9281 Freq:50.01Hz Lamp Flux:1109.47x1 lm		
NAME: S09-04-1L2895 0.6M RGB	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Traxon Technologies	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 49.21 lm/W			
L2895-28WDEL8-RGB-60*10D-OSRAM-ALL		Imax(cd)	3810	S/MH(C0/180)	0.98
NOMINAL POWER(W)	28	LOR(%)	100.0	S/MH(C90/270)	0.19
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	1109.5	η UP,DN(C0-180)	0.0,48.6
NOMINAL FLUX(lm)	1109.47	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,51.4
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
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: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-09-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
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	3761	1025	495.5	1119	3706	1277	526.6	1129	0- 10	222.6	222.6	20.1,20.1
20	3378	242.4	201.3	242.2	3410	260.7	209.1	245.4	10- 20	293.5	516.1	46.5,46.5
30	2277	149.4	114.5	146.6	2329	152.8	115.9	151.4	20- 30	254.9	771.0	69.5,69.5
40	887.4	90.60	79.29	86.11	907.2	89.70	81.61	90.68	30- 40	165.4	936.4	84.4,84.4
50	123.3	61.07	55.93	56.80	121.7	58.99	58.64	62.00	40- 50	81.53	1018	91.8,91.8
60	51.60	38.39	35.83	35.08	47.19	36.59	38.42	40.04	50- 60	45.69	1064	95.9,95.9
70	27.84	19.79	16.53	18.55	24.62	19.19	18.43	20.95	60- 70	29.28	1093	98.5,98.5
80	9.790	5.475	4.536	5.566	8.550	4.849	4.585	5.555	70- 80	13.10	1106	99.7,99.7
90	2.129	2.439	2.776	2.765	1.214	1.402	2.618	1.469	80- 90	3.452	1109	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): 985.04 lm

%lum = 88.8%

%lamp = 88.8%

Conical surface Flux(120deg): 1063.6 lm

%lum = 95.9%

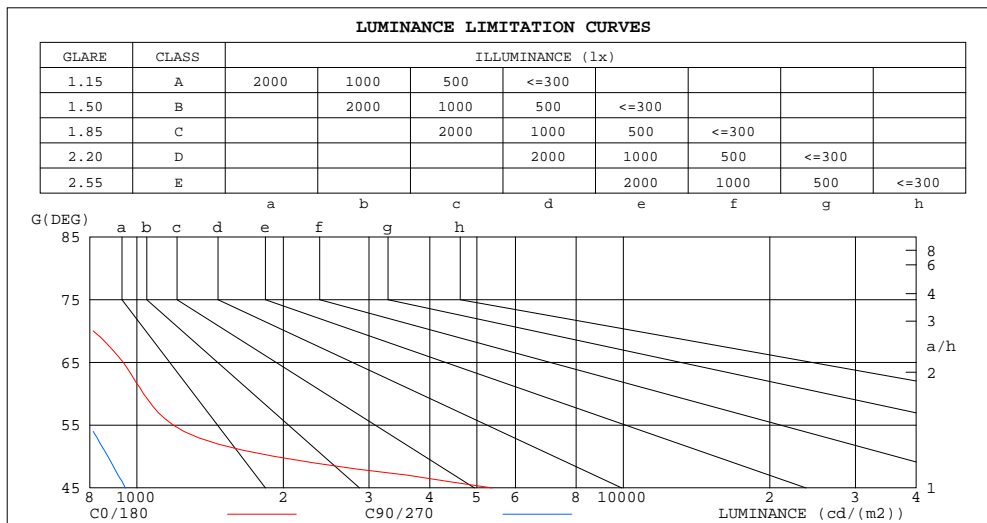
%lamp = 95.9%

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-09-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 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:220.85V I:0.1100A P:22.547W PF:0.9281 Freq:50.01Hz Lamp Flux:1109.47x1 lm		
NAME: S09-04-1L2895 0.6M RGB	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Traxon Technologies	SUR.:	Shielding Angle:



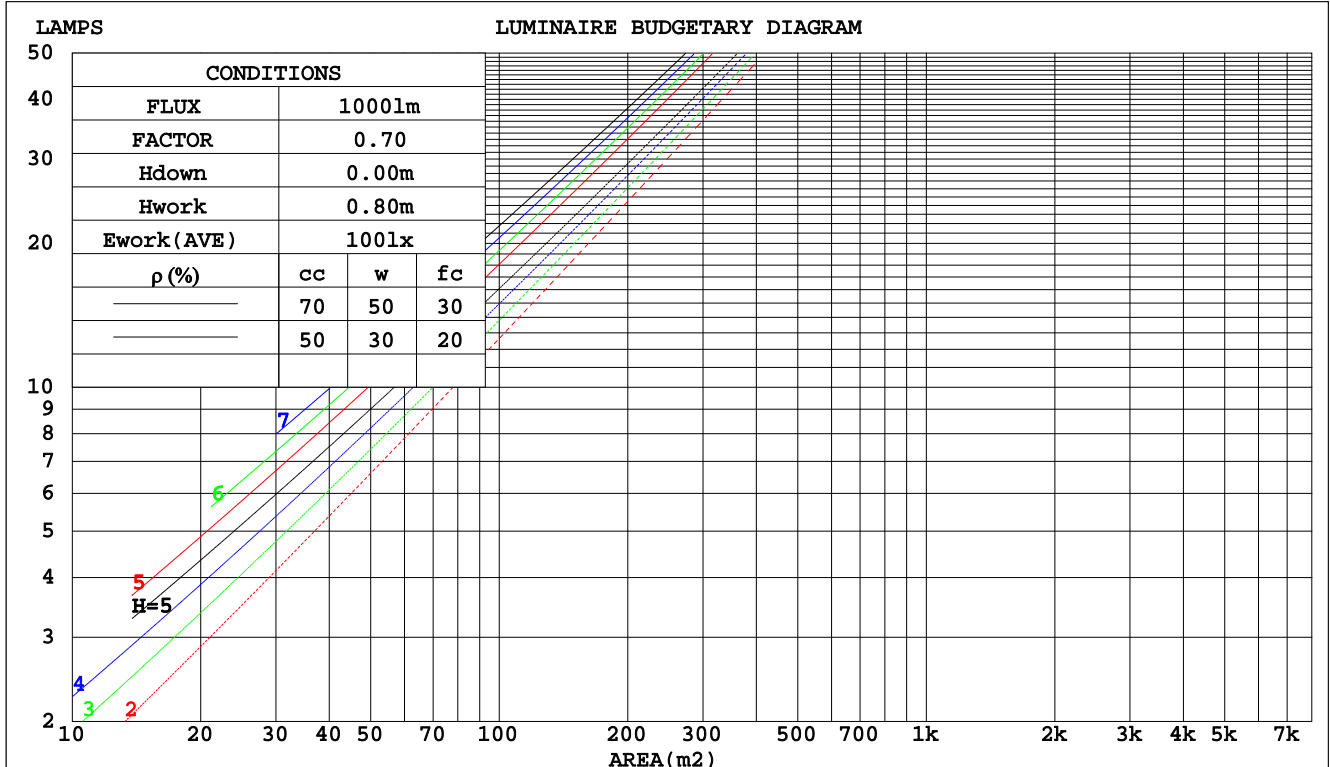
C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2022-09-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
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:220.85V I:0.1100A P:22.547W PF:0.9281 Freq:50.01Hz Lamp Flux:1109.47x1 lm		
NAME: S09-04-1L2895 0.6M RGB	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
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						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	.00
1.0	1.10	1.08	1.05	1.08	1.06	1.04	1.04	1.02	1.00	1.00	.99	.97	.97	.96	.95	.93
2.0	1.02	.98	.95	1.01	.97	.93	.97	.94	.91	.94	.92	.89	.92	.89	.88	.86
3.0	.95	.90	.86	.94	.89	.85	.91	.87	.84	.89	.85	.83	.87	.84	.81	.80
4.0	.89	.84	.79	.88	.83	.79	.86	.81	.78	.84	.80	.77	.82	.79	.76	.75
5.0	.84	.78	.74	.83	.77	.73	.81	.76	.73	.79	.75	.72	.78	.74	.71	.70
6.0	.79	.73	.69	.78	.73	.69	.77	.72	.68	.75	.71	.68	.74	.70	.67	.66
7.0	.75	.69	.65	.74	.69	.65	.73	.68	.64	.72	.67	.64	.71	.67	.64	.62
8.0	.71	.65	.61	.71	.65	.61	.69	.64	.61	.68	.64	.61	.67	.63	.60	.59
9.0	.68	.62	.58	.67	.62	.58	.66	.61	.58	.65	.61	.58	.65	.60	.57	.56
10.0	.65	.59	.55	.64	.59	.55	.63	.59	.55	.63	.58	.55	.62	.58	.55	.54



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-09-23

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
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:220.85V I:0.1100A P:22.547W PF:0.9281 Freq:50.01Hz Lamp Flux:1109.47x1 lm		
NAME: S09-04-1L2895 0.6M RGB	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
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						Wall Exitance Coefficients(WEC)										
0.0																	
1.0	.188	.107	.034	.181	.103	.033	.168	.097	.031	.157	.090	.029	.146	.085	.027		
2.0	.178	.098	.030	.173	.095	.029	.162	.090	.028	.152	.085	.027	.143	.081	.026		
3.0	.168	.089	.027	.163	.087	.026	.154	.083	.025	.146	.080	.024	.138	.076	.024		
4.0	.158	.082	.024	.154	.081	.024	.146	.077	.023	.139	.074	.022	.132	.072	.022		
5.0	.149	.076	.022	.145	.075	.022	.139	.072	.021	.132	.070	.021	.126	.067	.020		
6.0	.141	.071	.020	.138	.070	.020	.132	.067	.020	.126	.065	.019	.121	.064	.019		
7.0	.133	.066	.019	.131	.065	.019	.125	.063	.018	.120	.062	.018	.116	.060	.018		
8.0	.127	.062	.017	.124	.061	.017	.119	.060	.017	.115	.058	.017	.111	.057	.017		
9.0	.120	.058	.016	.118	.058	.016	.114	.056	.016	.110	.055	.016	.106	.054	.016		
10.0	.115	.055	.015	.113	.054	.015	.109	.053	.015	.105	.052	.015	.102	.051	.015		

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						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	.112	.135	.114	.097	.092	.079	.067	.053	.046	.039	.017	.015	.013		
3.0	.145	.114	.089	.124	.098	.077	.085	.068	.054	.049	.040	.032	.016	.013	.010		
4.0	.134	.099	.072	.115	.086	.062	.079	.060	.044	.046	.035	.026	.015	.011	.009		
5.0	.125	.087	.059	.108	.076	.052	.074	.053	.036	.043	.031	.022	.014	.010	.007		
6.0	.118	.078	.050	.101	.068	.043	.070	.047	.031	.040	.028	.018	.013	.009	.006		
7.0	.111	.070	.042	.095	.061	.037	.066	.043	.026	.038	.025	.015	.012	.008	.005		
8.0	.105	.064	.036	.090	.056	.032	.062	.039	.022	.036	.023	.013	.012	.008	.004		
9.0	.099	.059	.032	.085	.051	.027	.059	.036	.020	.034	.021	.012	.011	.007	.004		
10.0	.094	.054	.028	.081	.047	.024	.056	.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:2022-09-23

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
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:220.85V I:0.1100A P:22.547W PF:0.9281 Freq:50.01Hz Lamp Flux:1109.47x1 lm											
NAME: S09-04-1L2895 0.6M RGB						TYPE:			WEIGHT:		
SPEC.:						DIM.:			SERIAL No.:		
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	12.2	13.1	12.4	13.3	13.5	6.9	7.9	7.1	8.0	8.2	
	3H	12.5	13.4	12.8	13.6	13.8	7.8	8.7	8.0	8.9	9.1
	4H	12.7	13.5	12.9	13.7	13.9	8.0	8.8	8.3	9.0	9.3
	6H	12.7	13.5	13.0	13.8	14.0	8.0	8.8	8.3	9.1	9.3
	8H	12.7	13.5	13.0	13.8	14.0	8.1	8.8	8.4	9.1	9.3
	12H	12.7	13.5	13.0	13.7	14.0	8.1	8.8	8.4	9.1	9.4
4H	2H	12.1	13.0	12.4	13.2	13.4	7.5	8.3	7.7	8.5	8.7
	3H	12.6	13.3	12.9	13.6	13.8	8.4	9.2	8.8	9.4	9.7
	4H	12.7	13.4	13.1	13.7	14.0	8.7	9.4	9.1	9.7	10.0
	6H	12.9	13.5	13.3	13.8	14.1	8.8	9.4	9.2	9.8	10.1
	8H	12.9	13.5	13.3	13.8	14.2	8.9	9.4	9.3	9.8	10.1
	12H	12.9	13.4	13.3	13.8	14.2	8.9	9.4	9.3	9.8	10.2
8H	4H	12.7	13.2	13.1	13.6	14.0	8.8	9.4	9.2	9.7	10.1
	6H	12.9	13.3	13.3	13.7	14.1	9.0	9.5	9.5	9.9	10.3
	8H	12.9	13.3	13.3	13.7	14.2	9.1	9.5	9.5	9.9	10.3
	12H	12.9	13.3	13.4	13.7	14.2	9.2	9.5	9.7	10.0	10.4
12H	4H	12.6	13.1	13.1	13.5	13.9	8.8	9.3	9.2	9.7	10.1
	6H	12.8	13.2	13.3	13.6	14.1	9.0	9.4	9.5	9.8	10.3
	8H	12.9	13.2	13.3	13.6	14.1	9.1	9.4	9.6	9.9	10.4
Variations with the observer position at spacings:											
S = 1.0H	+ 6.1 / - 4.4					+ 0.4 / - 0.5					
1.5H	+ 8.2 / - 4.8					+ 0.1 / - 0.3					
2.0H	+ 7.5 / - 1.9					+ 0.5 / - 0.5					

CIE Pub.117, 1109 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 0.4$)
Area: 0.1 m²

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-09-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
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:220.85V I:0.1100A P:22.547W PF:0.9281 Freq:50.01Hz Lamp Flux:1109.47x1 lm		
NAME: S09-04-1L2895 0.6M RGB	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Traxon Technologies	SUR.:	Shielding Angle:

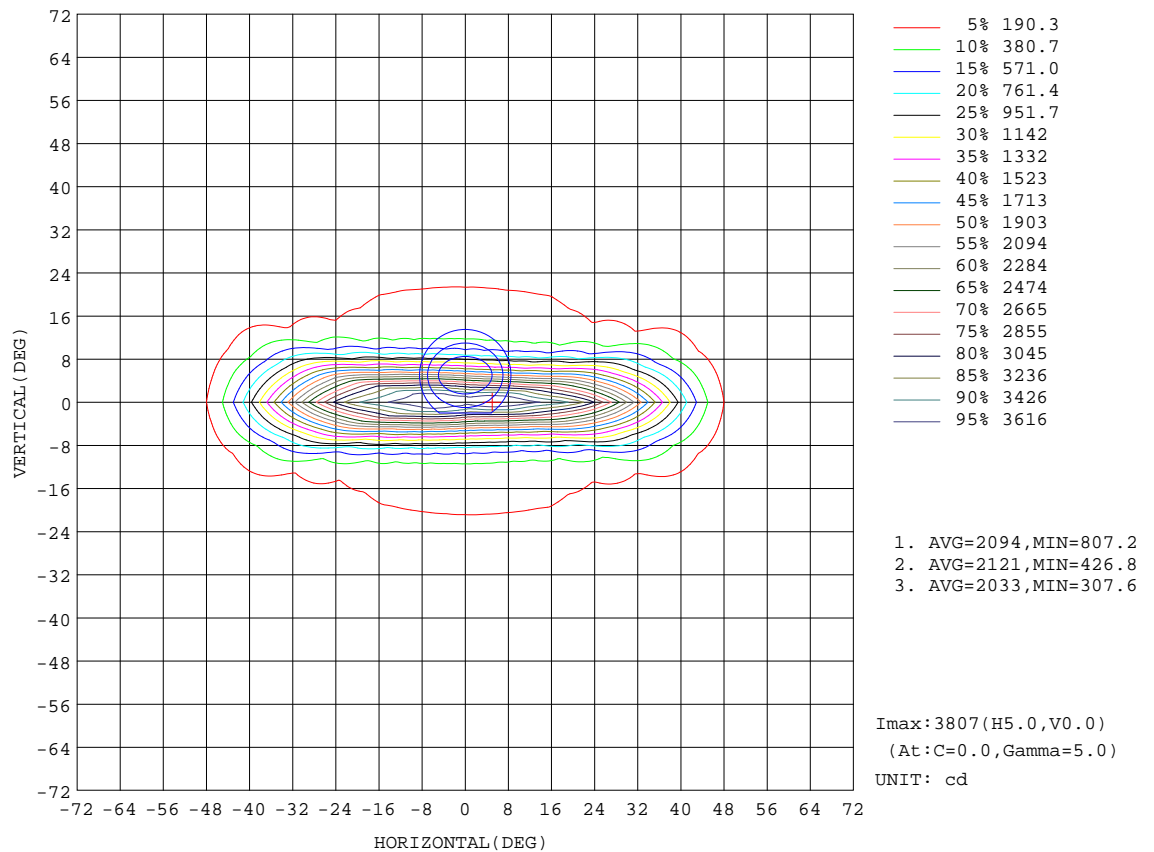
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	82	75	70	81	74	70	80	74	70	66
0.80	90	83	79	89	83	78	88	82	78	74
1.00	95	89	84	94	88	84	92	88	83	79
1.25	100	94	89	99	93	89	96	92	88	84
1.50	103	97	93	102	96	93	99	95	92	87
2.00	106	101	98	105	100	97	102	98	95	90
2.50	108	104	100	107	103	99	103	100	98	91
3.00	110	106	103	108	105	102	105	102	100	93
4.00	113	109	107	110	108	105	107	104	103	95
5.00	114	111	109	112	109	107	108	106	104	97
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:2022-09-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
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:220.85V I:0.1100A P:22.547W PF:0.9281 Freq:50.01Hz Lamp Flux:1109.47x1 lm		
NAME: S09-04-1L2895 0.6M RGB	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Traxon Technologies	SUR.:	Shielding Angle:

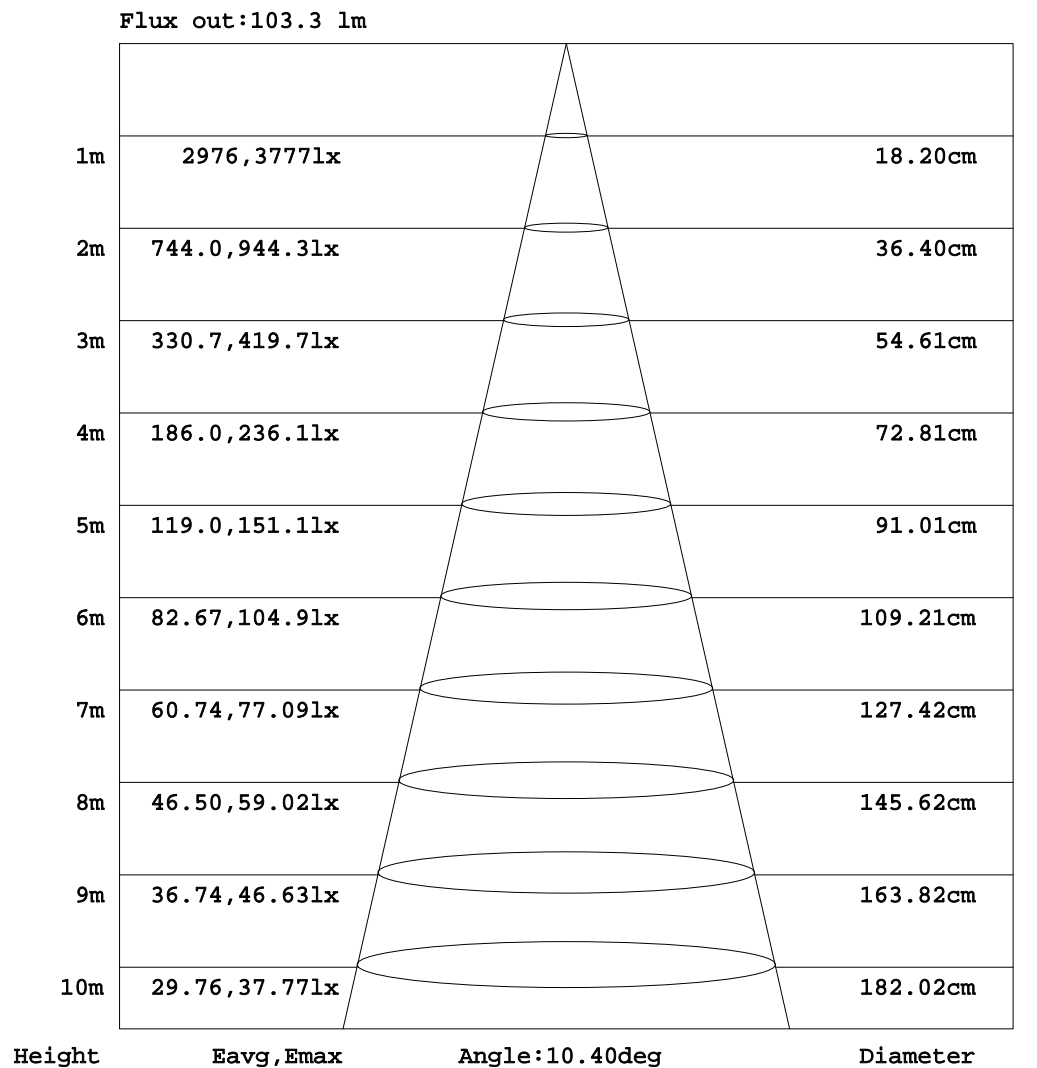


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-09-23

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:11.635m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.85V I:0.1100A P:22.547W PF:0.9281 Freq:50.01Hz Lamp Flux:1109.47x1 lm		
NAME: S09-04-1L2895 0.6M RGB	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Traxon Technologies	SUR.:	Shielding Angle:



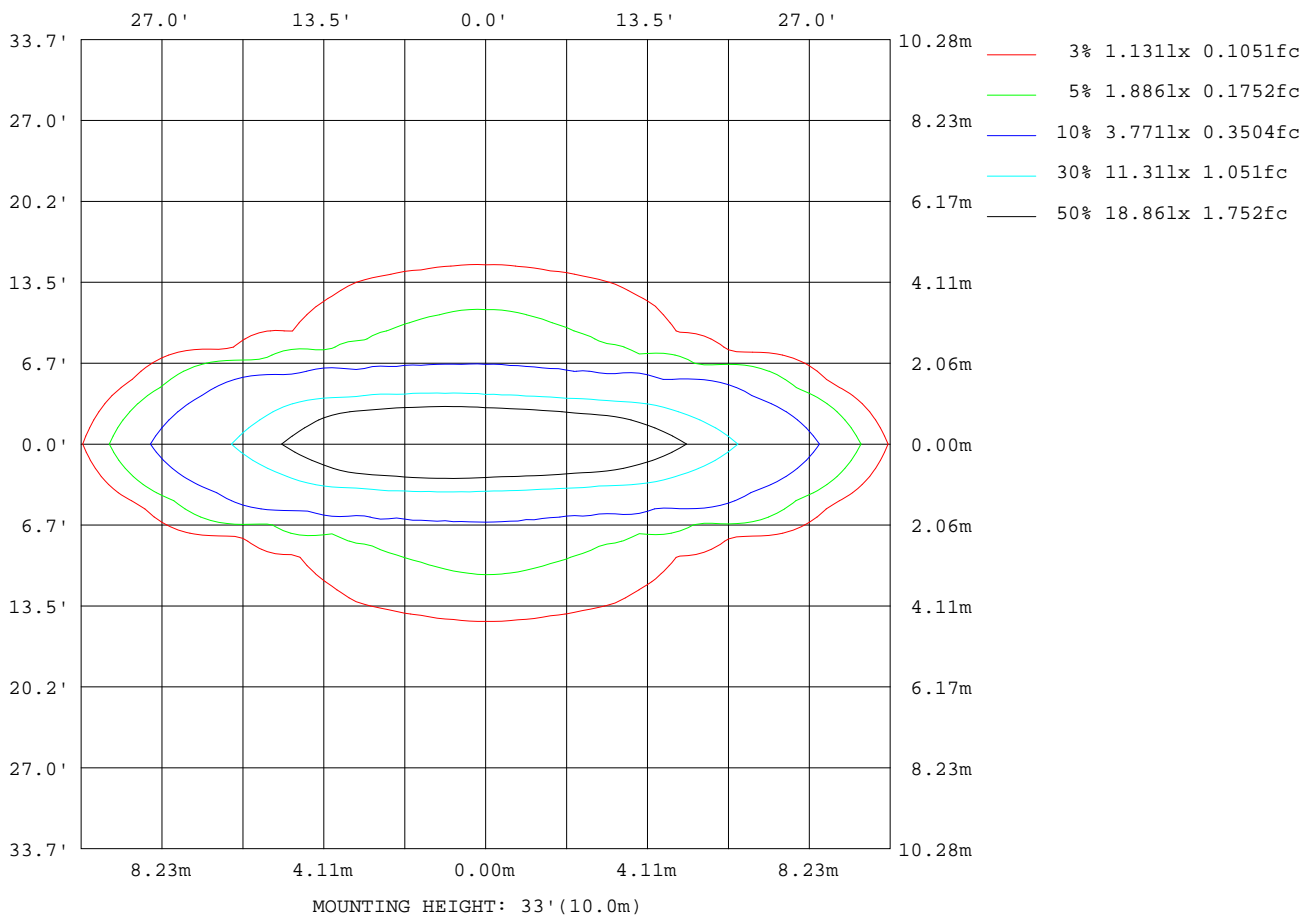
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2022-09-23

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
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:220.85V I:0.1100A P:22.547W PF:0.9281 Freq:50.01Hz Lamp Flux:1109.47x1 lm		
NAME: S09-04-1L2895 0.6M RGB	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Traxon Technologies	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2022-09-23

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
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:220.85V I:0.1100A P:22.547W PF:0.9281 Freq:50.01Hz Lamp Flux:1109.47x1 lm		
NAME: S09-04-1L2895 0.6M RGB	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Traxon Technologies	SUR.:	Shielding Angle:

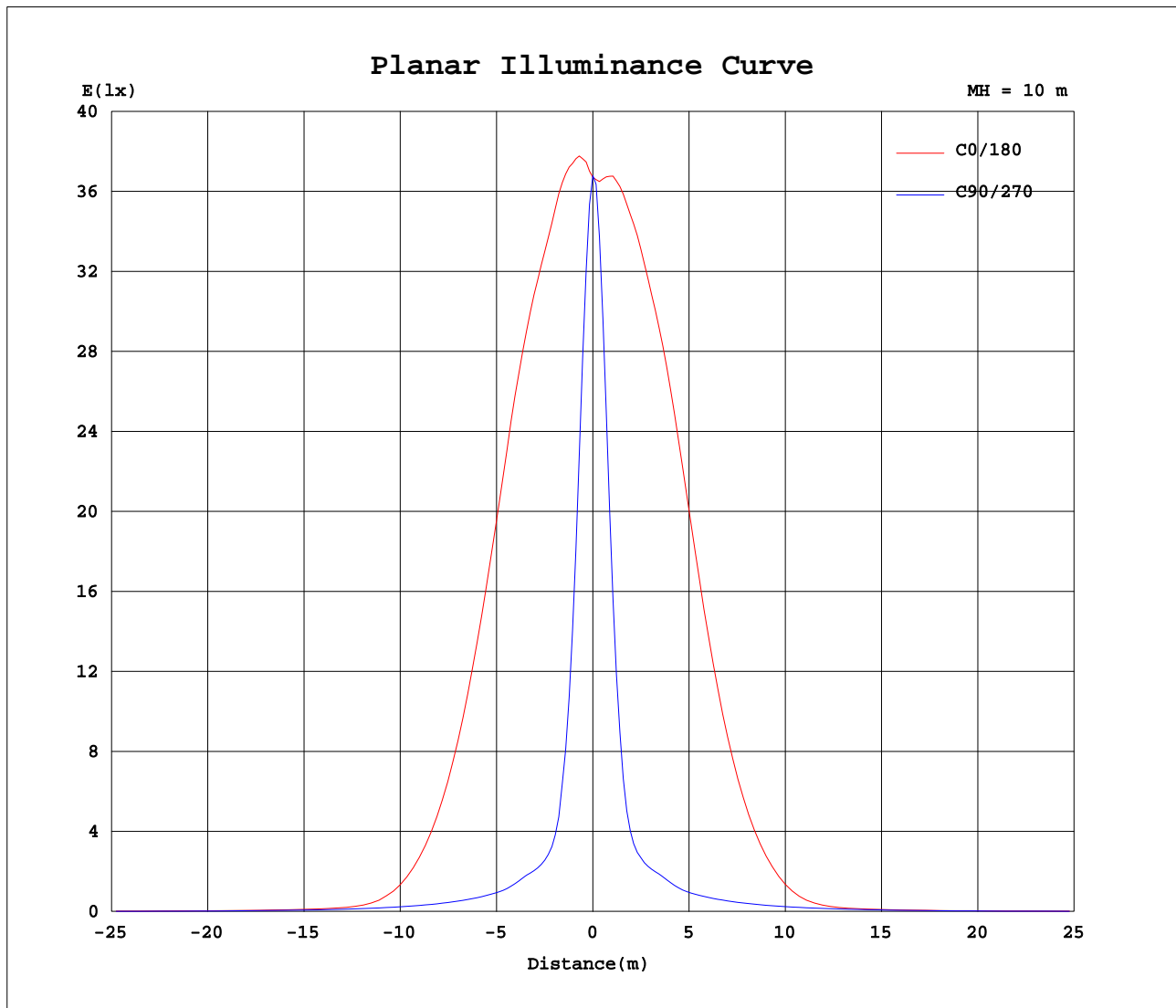
AvgL	cd/m2
L_0~180(65)av	891
L_0~180(75)av	656
L_0~180(85)av	387
L_90~270(65)av	646
L_90~270(75)av	360
L_90~270(85)av	356
L_45(65)av	667
L_45(75)av	449
L_45(85)av	268

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-09-23

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
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: 2022-09-23

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
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