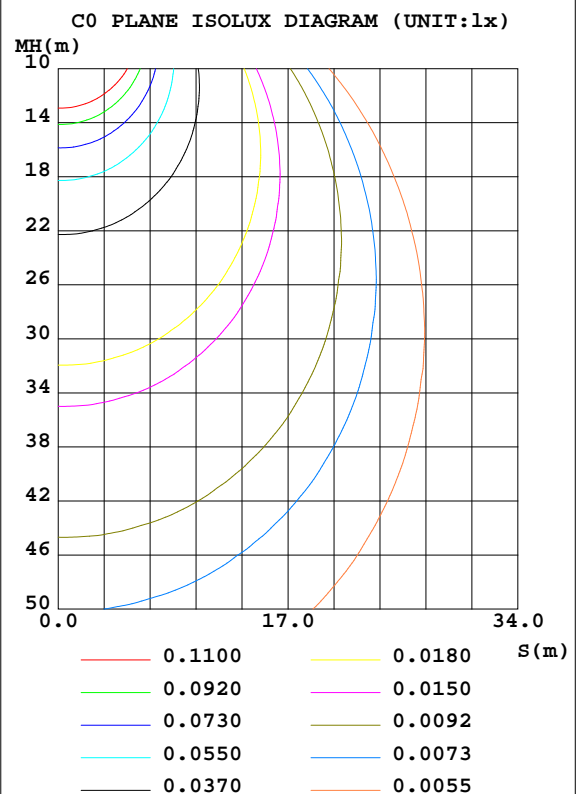
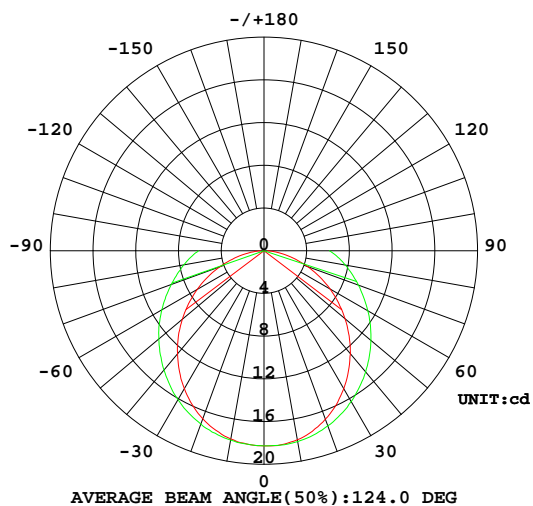


L2820A-MODEL-18-RGBW-120D-5050-ALL

DATA OF LAMP		PHOTOMETRIC DATA      Eff: 14.29 lm/W			
0A-MODEL-18-RGBW-120D-5050-ALL		Imax(cd)	18.28	S/MH(C0/180)	1.22
NOMINAL POWER(W)	4.5w	LOR(%)	100.0	S/MH(C90/270)	1.32
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	62.485	η UP,DN(C0-180)	0.0,50.1
NOMINAL FLUX(lm)	62.4845	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.9
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.50
TEST VOLTAGE(V)	24	η down(%)	100.0	CIBSE SHR MAX	1.50



```

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	17.98	18.08	18.15	18.07	17.90	17.98	18.00	17.94	0- 10	1.733	1.733	2.77,2.77
20	16.79	17.18	17.46	17.17	16.75	17.03	17.28	17.02	10- 20	4.973	6.706	10.7,10.7
30	14.93	15.72	16.32	15.74	14.92	15.60	16.10	15.55	20- 30	7.564	14.27	22.8,22.8
40	12.59	13.86	14.81	13.90	12.60	13.74	14.58	13.67	30- 40	9.202	23.47	37.6,37.6
50	9.898	11.79	13.06	11.84	9.975	11.67	12.86	11.57	40- 50	9.787	33.26	53.2,53.2
60	7.130	9.648	11.21	9.669	7.202	9.563	11.04	9.440	50- 60	9.392	42.65	68.3,68.3
70	4.347	7.628	9.393	7.686	4.425	7.558	9.239	7.421	60- 70	8.220	50.87	81.4,81.4
80	1.866	5.845	7.739	5.917	1.865	5.796	7.625	5.689	70- 80	6.627	57.50	92,92
90	0.3527	4.269	6.130	4.324	0.3156	4.288	6.130	4.277	80- 90	4.987	62.48	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): 28.356 lm

%lum = 45.4%

%lamp = 45.4%

Conical surface Flux(120deg): 42.65 lm

%lum = 68.3%

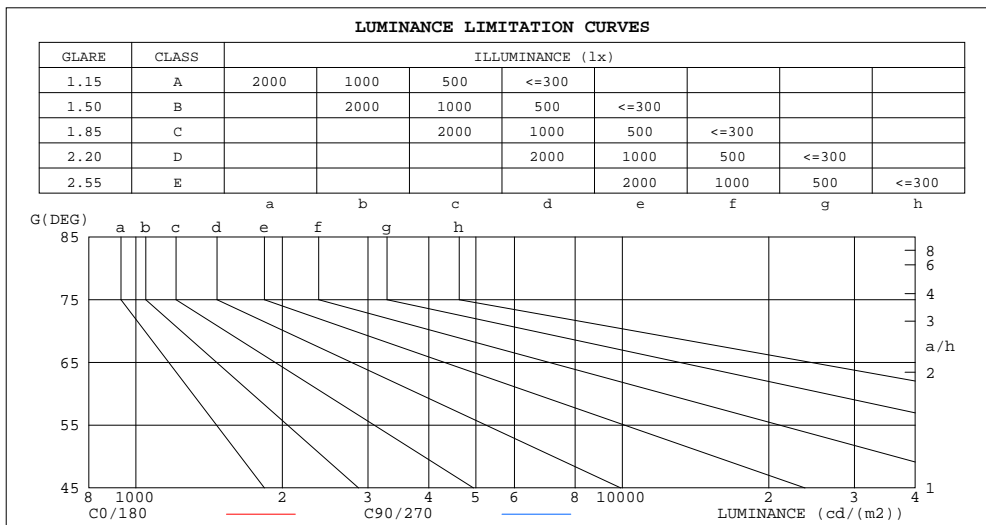
%lamp = 68.3%

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-09-21

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:23.998V I:0.1822A P:4.3724W PF:1.0000 Freq:50.02Hz Lamp Flux:62.4845x1 lm		
NAME: S08-11-3 L2820A 0.3M RGBW	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Traxon Technologies	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	104	796
80	108	445
75	119	330
70	128	274
65	136	243
60	143	224
55	149	212
50	155	203
45	160	197

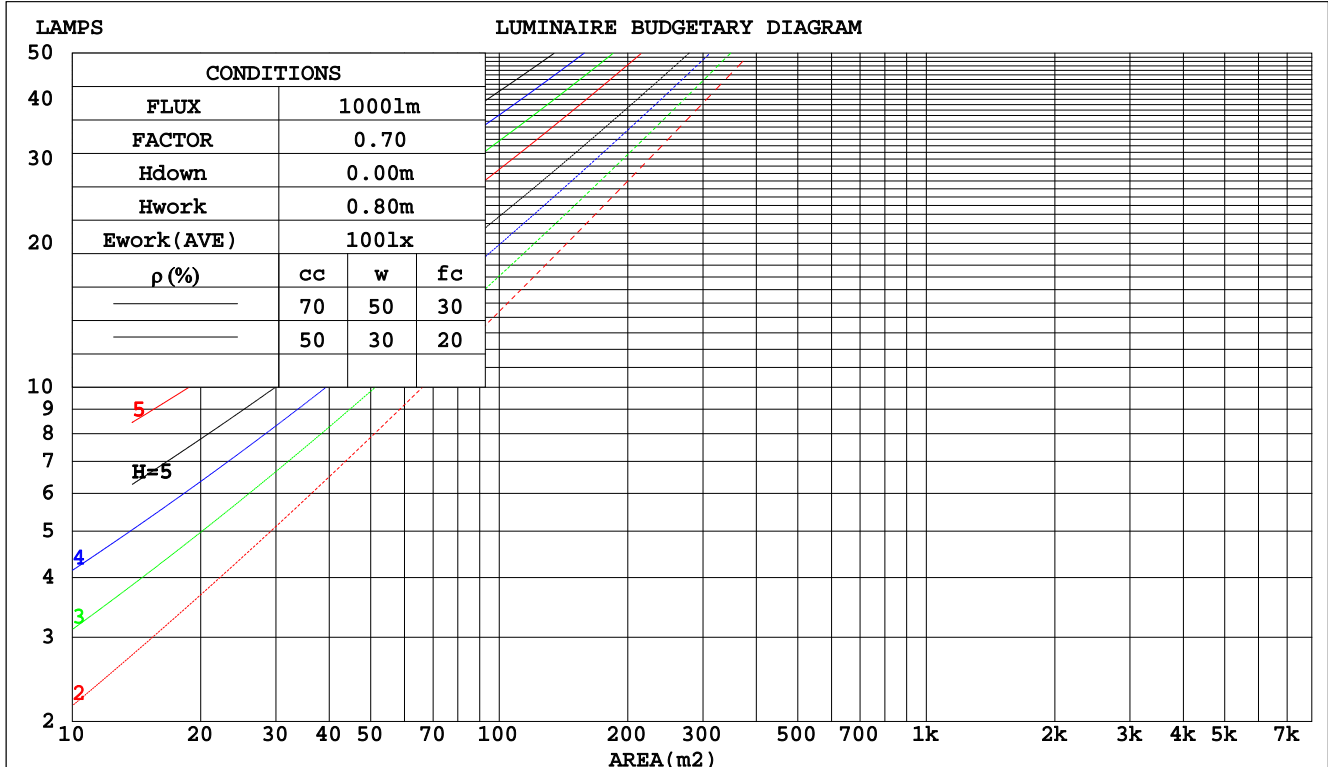
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2022-09-21

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:23.998V I:0.1822A P:4.3724W PF:1.0000 Freq:50.02Hz Lamp Flux:62.4845x1 lm		
NAME: S08-11-3 L2820A 0.3M RGBW	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	.99	.94	.89	.97	.92	.88	.93	.89	.85	.89	.85	.82	.85	.82	.80	.77
2.0	.85	.77	.70	.83	.76	.70	.80	.73	.68	.76	.71	.66	.73	.69	.65	.62
3.0	.74	.65	.57	.72	.64	.57	.69	.62	.56	.66	.60	.55	.64	.58	.54	.51
4.0	.65	.56	.48	.64	.55	.48	.61	.53	.47	.59	.52	.46	.57	.51	.46	.43
5.0	.58	.48	.41	.57	.48	.41	.55	.47	.40	.53	.45	.40	.51	.44	.39	.37
6.0	.52	.43	.36	.51	.42	.35	.49	.41	.35	.47	.40	.35	.46	.39	.34	.32
7.0	.47	.38	.31	.46	.37	.31	.45	.37	.31	.43	.36	.31	.42	.35	.30	.28
8.0	.43	.34	.28	.42	.34	.28	.41	.33	.28	.40	.33	.27	.38	.32	.27	.25
9.0	.39	.31	.25	.39	.31	.25	.38	.30	.25	.36	.30	.25	.35	.29	.24	.23
10.0	.36	.28	.23	.36	.28	.23	.35	.27	.22	.34	.27	.22	.33	.27	.22	.20



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-09-21

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:23.998V I:0.1822A P:4.3724W PF:1.0000 Freq:50.02Hz Lamp Flux:62.4845x1 lm		
NAME: S08-11-3 L2820A 0.3M RGBW	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
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	.394	.224	.071	.386	.220	.070	.373	.214	.068	.360	.208	.067	.349	.202	.065		
2.0	.342	.187	.057	.335	.185	.057	.323	.180	.056	.312	.175	.055	.301	.171	.054		
3.0	.304	.162	.048	.298	.160	.048	.287	.156	.047	.277	.152	.047	.268	.148	.046		
4.0	.273	.142	.042	.268	.140	.042	.259	.137	.041	.250	.134	.040	.242	.131	.040		
5.0	.249	.127	.037	.244	.125	.036	.236	.123	.036	.228	.120	.036	.220	.118	.035		
6.0	.228	.114	.033	.224	.113	.033	.216	.111	.032	.209	.109	.032	.203	.107	.032		
7.0	.210	.104	.029	.206	.103	.029	.200	.101	.029	.193	.099	.029	.188	.097	.029		
8.0	.195	.095	.027	.192	.094	.027	.186	.093	.026	.180	.091	.026	.175	.090	.026		
9.0	.181	.088	.025	.179	.087	.024	.173	.086	.024	.168	.084	.024	.164	.083	.024		
10.0	.170	.081	.023	.167	.081	.023	.162	.080	.022	.158	.078	.022	.154	.077	.022		

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	.186	.155	.128	.159	.133	.110	.109	.092	.076	.063	.053	.044	.020	.017	.014		
2.0	.179	.132	.092	.153	.113	.080	.105	.078	.055	.061	.046	.033	.019	.015	.011		
3.0	.171	.115	.070	.147	.099	.060	.101	.069	.042	.058	.040	.025	.019	.013	.008		
4.0	.163	.102	.055	.140	.088	.048	.096	.061	.033	.056	.036	.020	.018	.012	.007		
5.0	.155	.091	.044	.133	.079	.039	.092	.055	.027	.053	.032	.016	.017	.011	.005		
6.0	.147	.083	.037	.126	.072	.032	.087	.050	.023	.051	.030	.014	.016	.010	.004		
7.0	.140	.076	.032	.120	.066	.028	.083	.046	.020	.048	.027	.012	.016	.009	.004		
8.0	.133	.070	.028	.114	.061	.024	.079	.043	.017	.046	.025	.010	.015	.008	.003		
9.0	.126	.065	.024	.109	.057	.021	.075	.040	.015	.044	.024	.009	.014	.008	.003		
10.0	.120	.061	.022	.104	.053	.019	.072	.037	.013	.042	.022	.008	.014	.007	.003		

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-09-21

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:23.998V I:0.1822A P:4.3724W PF:1.0000 Freq:50.02Hz Lamp Flux:62.4845x1 lm											
NAME: S08-11-3 L2820A 0.3M RGBW						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		15.5	17.1	15.8	17.3	17.6	17.3	18.9	17.6	19.1	19.4
	3H	17.0	18.5	17.3	18.8	19.0	19.8	21.3	20.1	21.6	21.8
	4H	17.6	19.1	18.0	19.4	19.6	21.2	22.6	21.5	22.9	23.2
	6H	18.1	19.5	18.5	19.8	20.1	22.7	24.1	23.0	24.4	24.6
	8H	18.3	19.6	18.7	19.9	20.2	23.5	24.9	23.9	25.2	25.5
	12H	18.4	19.7	18.8	20.0	20.3	24.5	25.8	24.9	26.1	26.4
4H	2H	16.6	18.1	16.9	18.3	18.6	17.9	19.4	18.2	19.6	19.9
	3H	18.4	19.7	18.7	20.0	20.3	20.7	22.0	21.0	22.3	22.6
	4H	19.2	20.4	19.6	20.7	21.1	22.2	23.4	22.6	23.8	24.1
	6H	19.9	21.0	20.3	21.3	21.7	24.0	25.1	24.4	25.4	25.8
	8H	20.2	21.2	20.6	21.6	21.9	25.0	26.0	25.4	26.4	26.8
	12H	20.4	21.3	20.8	21.7	22.1	26.1	27.0	26.5	27.4	27.8
8H	4H	20.2	21.2	20.6	21.6	22.0	22.6	23.7	23.1	24.0	24.4
	6H	21.3	22.1	21.7	22.5	23.0	24.7	25.6	25.1	26.0	26.4
	8H	21.7	22.5	22.2	23.0	23.4	25.9	26.7	26.4	27.1	27.6
	12H	22.2	22.9	22.6	23.3	23.8	27.3	28.0	27.8	28.4	28.9
12H	4H	20.5	21.5	20.9	21.9	22.3	22.7	23.6	23.1	24.0	24.4
	6H	21.8	22.6	22.3	23.0	23.5	24.8	25.6	25.3	26.1	26.5
	8H	22.5	23.2	22.9	23.6	24.1	26.2	26.8	26.6	27.3	27.8
Variations with the observer position at spacings:											
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.1					
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3					
2.0H	+ 0.2 / - 0.4					+ 0.2 / - 0.3					

CIE Pub.117, 62.48 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -9.6)  
Area: 0.1 m2

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-09-21

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:23.998V I:0.1822A P:4.3724W PF:1.0000 Freq:50.02Hz Lamp Flux:62.4845x1 lm		
NAME: S08-11-3 L2820A 0.3M RGBW	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Traxon Technologies	SUR.:	Shielding Angle:

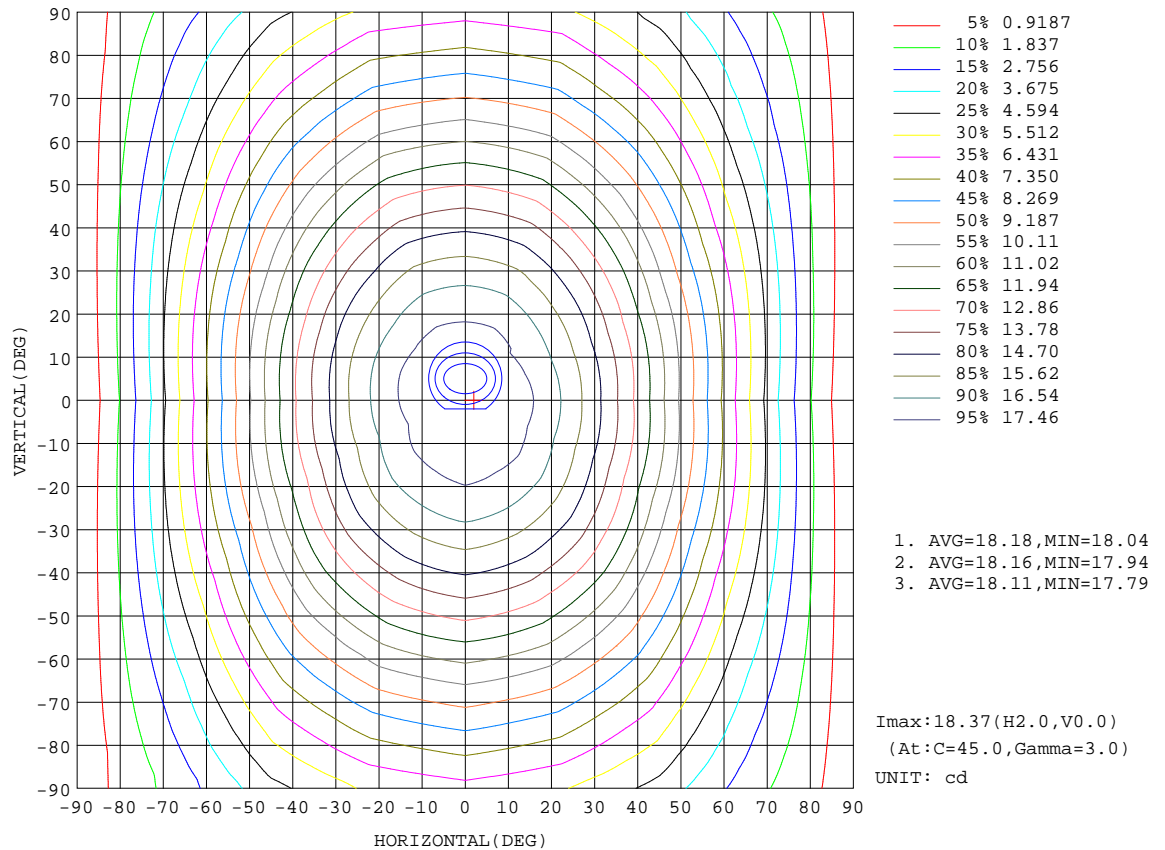
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT)    k(RI) x RCR = 5									
k = 0.60	54	42	34	53	41	34	52	41	34	27
0.80	63	51	43	62	50	43	60	50	42	35
1.00	71	59	51	70	58	51	68	60	50	42
1.25	78	66	58	77	66	58	74	64	57	49
1.50	83	72	64	81	71	63	78	69	62	54
2.00	90	80	73	88	79	72	85	77	70	62
2.50	95	85	78	92	84	77	88	81	75	66
3.00	98	90	83	96	88	82	91	85	80	70
4.00	103	95	90	100	94	88	95	90	86	76
5.00	105	99	94	103	97	92	98	93	89	79
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004				Suspended				SHR <sub>NOM</sub> = 1.25		

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-09-21

$\gamma$  Range: 0 - 90DEG  
 $\gamma$  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:23.998V I:0.1822A P:4.3724W PF:1.0000 Freq:50.02Hz Lamp Flux:62.4845x1 lm		
NAME: S08-11-3 L2820A 0.3M RGBW	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Traxon Technologies	SUR.:	Shielding Angle:



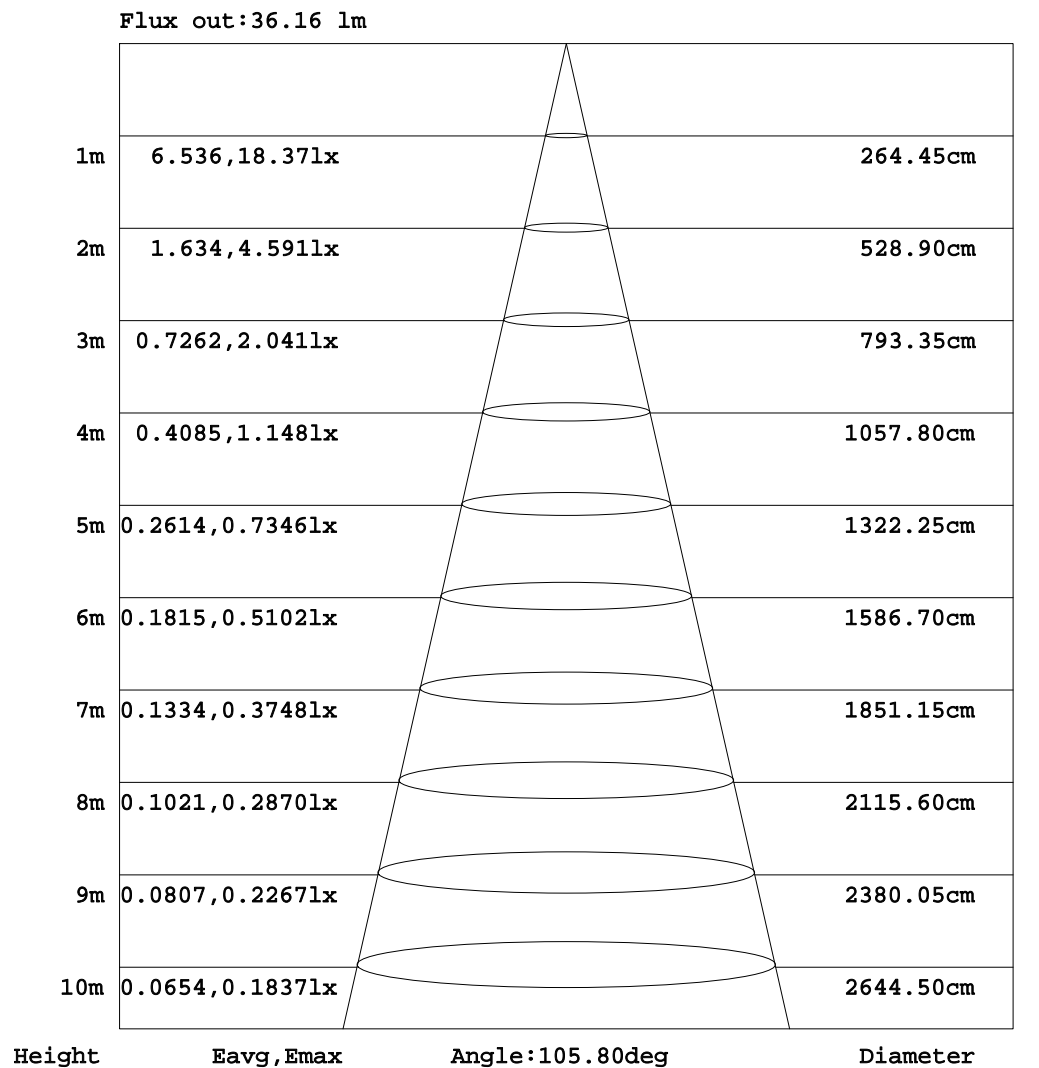
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-09-21

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:23.998V I:0.1822A P:4.3724W PF:1.0000 Freq:50.02Hz Lamp Flux:62.4845x1 lm		
NAME: S08-11-3 L2820A 0.3M RGBW	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Traxon Technologies	SUR.:	Shielding Angle:



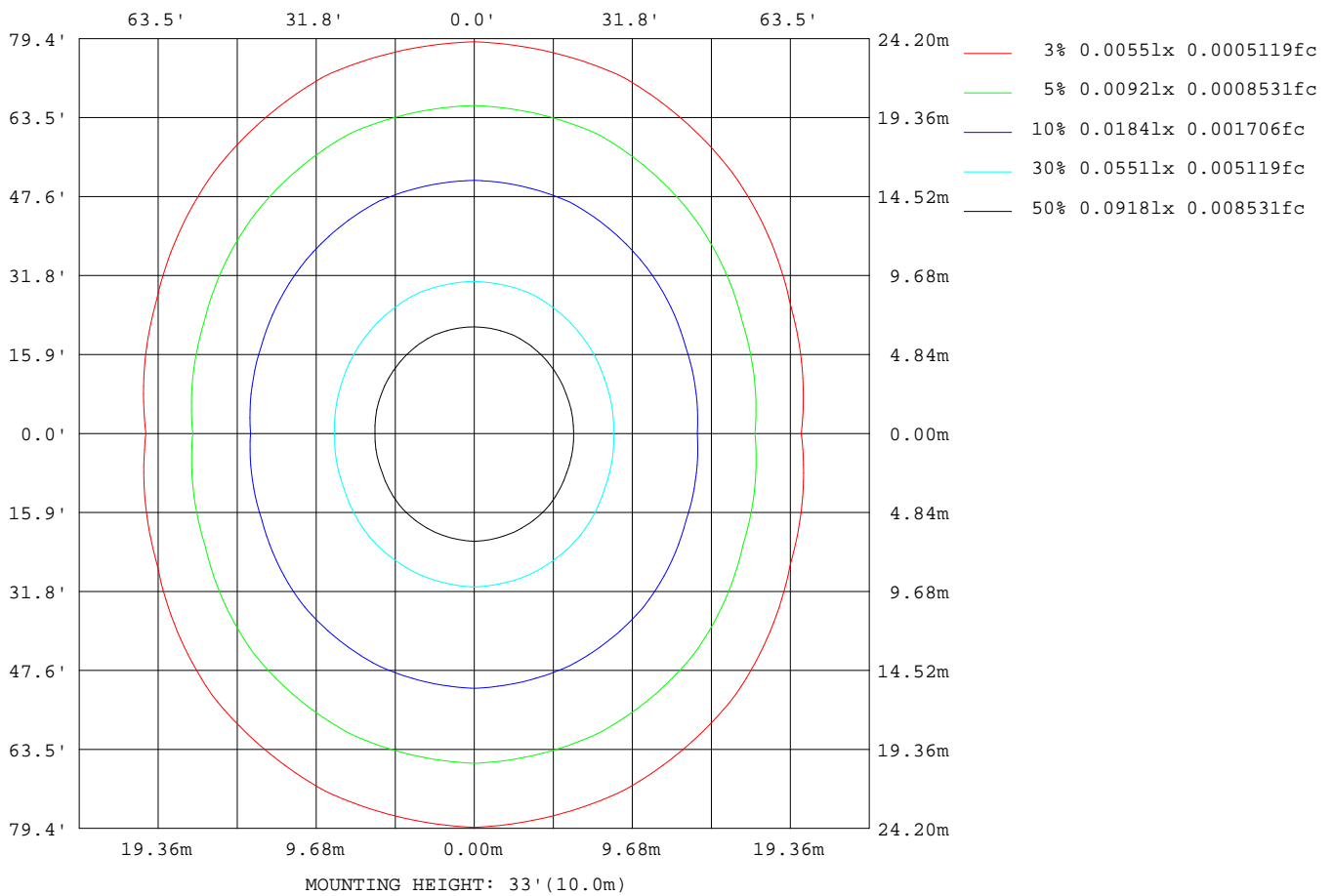
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2022-09-21

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:23.998V I:0.1822A P:4.3724W PF:1.0000 Freq:50.02Hz Lamp Flux:62.4845x1 lm		
NAME: S08-11-3 L2820A 0.3M RGBW	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Traxon Technologies	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2022-09-21

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:23.998V I:0.1822A P:4.3724W PF:1.0000 Freq:50.02Hz Lamp Flux:62.4845x1 lm		
NAME: S08-11-3 L2820A 0.3M RGBW	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Traxon Technologies	SUR.:	Shielding Angle:

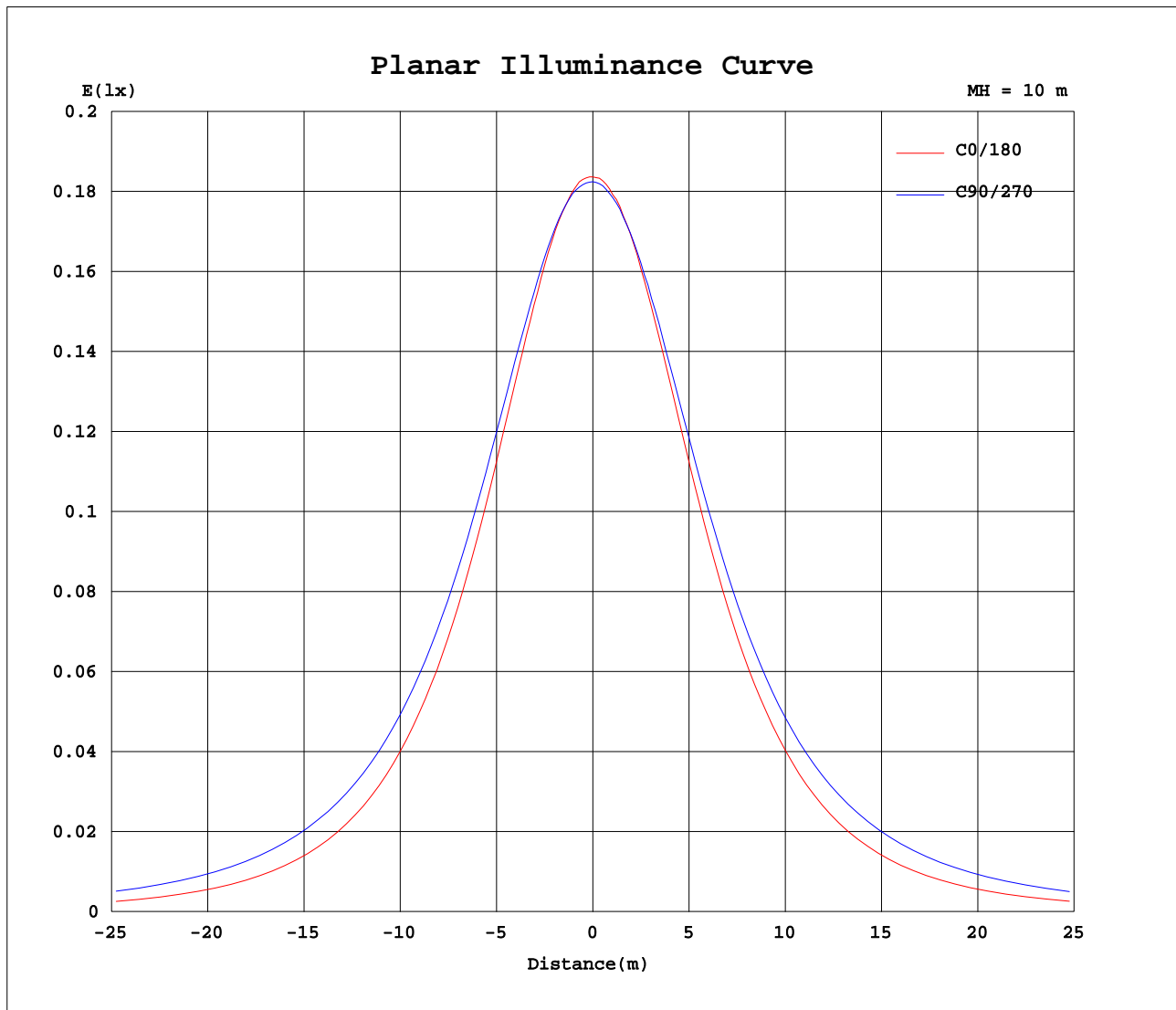
AvgL	cd/m2
L_0~180(65)av	136
L_0~180(75)av	118
L_0~180(85)av	101
L_90~270(65)av	242
L_90~270(75)av	328
L_90~270(85)av	793
L_45(65)av	202
L_45(75)av	257
L_45(85)av	579

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-09-21

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: 22.5DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators:  
Test Date: 2022-09-21

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

```