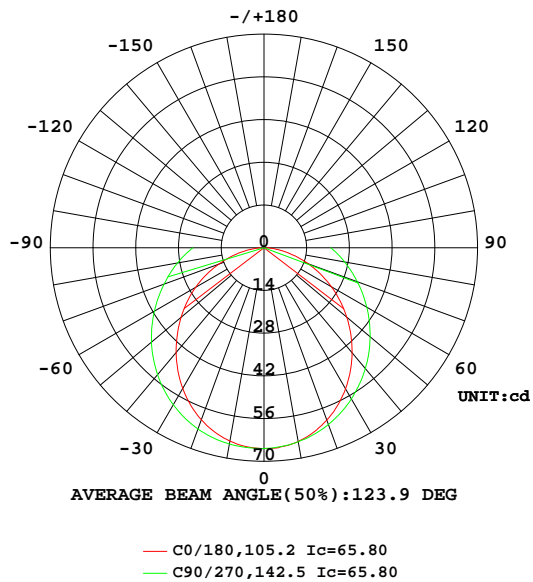


LUMINAIRE PHOTOMETRIC TEST REPORT

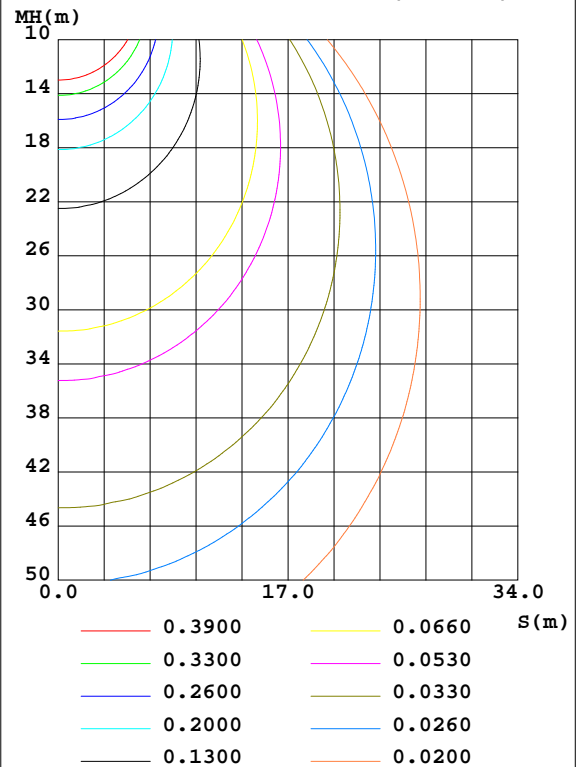
Test:U:23.998V I:0.6024A P:14.456W PF:1.0000 Freq:50.04Hz Lamp Flux:224.534x1 lm		
NAME: S08-11-2 L2820A 1.2M RGBW	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Traxon Technologies	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 15.53 lm/W			
L2820A-MODEL-60- RGBW -120D-5050-ALL		Imax(cd)	65.88	S/MH(C0/180)	1.21
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)	1.35
RATED VOLTAGE(V)	24	TOTAL FLUX(lm)	224.53	η UP,DN(C0-180)	0.0,49.0
NOMINAL FLUX(lm)	224.534	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,51.0
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

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-09-19

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	64.49	64.40	64.58	64.41	64.34	64.91	65.32	64.96	0- 10	6.230	6.230	2.77,2.77
20	60.14	60.77	61.64	60.74	60.03	61.86	63.23	61.87	10- 20	17.86	24.09	10.7,10.7
30	53.41	55.28	57.24	55.22	53.27	56.87	59.44	56.87	20- 30	27.13	51.22	22.8,22.8
40	44.93	48.45	51.66	48.37	44.84	50.36	54.27	50.34	30- 40	32.99	84.21	37.5,37.5
50	35.43	40.90	45.40	40.87	35.47	43.01	48.15	42.91	40- 50	35.08	119.3	53.1,53.1
60	25.45	33.38	38.88	33.34	25.82	35.50	41.43	35.28	50- 60	33.69	153.0	68.1,68.1
70	15.46	26.35	32.54	26.39	15.85	28.27	34.86	28.00	60- 70	29.59	182.6	81.3,81.3
80	6.324	20.26	26.83	20.32	6.703	21.88	28.79	21.57	70- 80	23.91	206.5	92,92
90	0.8588	15.20	21.87	15.27	1.214	16.40	23.28	16.11	80- 90	18.06	224.5	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): 101.73 lm

%lum = 45.3%

%lamp = 45.3%

Conical surface Flux(120deg): 152.98 lm

%lum = 68.1%

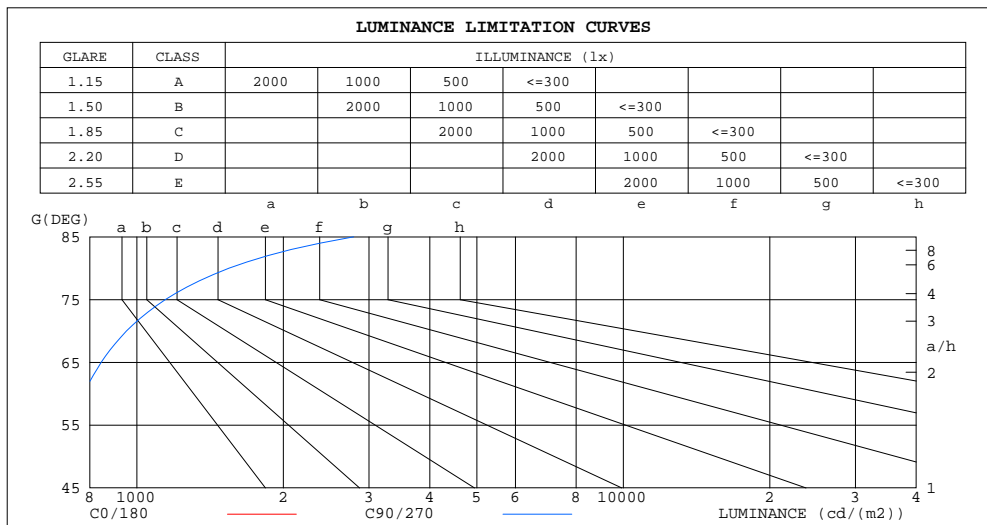
%lamp = 68.1%

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-09-19

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:0.6024A P:14.456W PF:1.0000 Freq:50.04Hz Lamp Flux:224.534x1 lm		
NAME: S08-11-2 L2820A 1.2M RGBW	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Traxon Technologies	SUR.:	Shielding Angle:



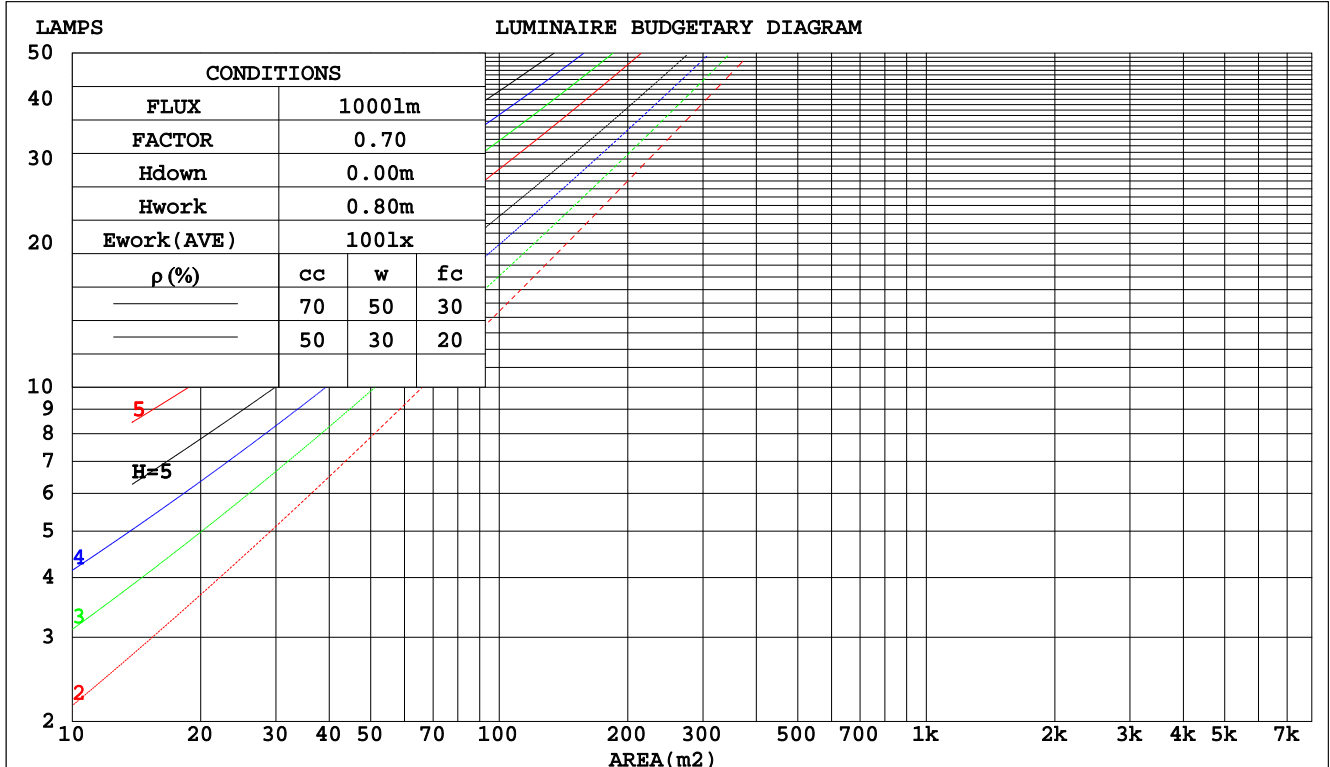
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2022-09-19

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:0.6024A P:14.456W PF:1.0000 Freq:50.04Hz Lamp Flux:224.534x1 lm		
NAME: S08-11-2 L2820A 1.2M 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	1.00
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	.69	.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	.55	.48	.64	.55	.48	.61	.53	.47	.59	.52	.46	.56	.51	.46	.43
5.0	.58	.48	.41	.57	.48	.41	.55	.46	.40	.53	.45	.40	.51	.44	.39	.37
6.0	.52	.42	.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	.32	.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:2022-09-19

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:0.6024A P:14.456W PF:1.0000 Freq:50.04Hz Lamp Flux:224.534x1 lm		
NAME: S08-11-2 L2820A 1.2M 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	.395	.224	.071	.387	.221	.070	.374	.214	.068	.361	.208	.067	.349	.203	.065		
2.0	.342	.188	.058	.336	.185	.057	.324	.180	.056	.312	.175	.055	.302	.171	.054		
3.0	.304	.162	.048	.298	.160	.048	.288	.156	.047	.278	.152	.047	.268	.149	.046		
4.0	.274	.142	.042	.269	.141	.042	.259	.137	.041	.250	.134	.041	.242	.131	.040		
5.0	.249	.127	.037	.244	.125	.037	.236	.123	.036	.228	.120	.036	.221	.118	.035		
6.0	.228	.114	.033	.224	.113	.033	.216	.111	.032	.209	.109	.032	.203	.107	.032		
7.0	.210	.104	.029	.207	.103	.029	.200	.101	.029	.194	.099	.029	.188	.098	.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	.163	.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	.079	.105	.078	.055	.061	.046	.032	.019	.015	.011		
3.0	.171	.115	.069	.147	.099	.060	.101	.069	.042	.058	.040	.025	.019	.013	.008		
4.0	.163	.102	.055	.140	.088	.047	.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:2022-09-19

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:0.6024A P:14.456W PF:1.0000 Freq:50.04Hz Lamp Flux:224.534x1 lm											
NAME: S08-11-2 L2820A 1.2M 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	15.4	17.0	15.6	17.2	17.4	17.1	18.7	17.4	18.9	19.1	
	3H	16.9	18.4	17.2	18.6	18.9	19.6	21.1	19.9	21.3	
	4H	17.5	19.0	17.8	19.2	19.5	20.9	22.4	21.3	22.7	
	6H	18.0	19.3	18.3	19.6	19.9	22.5	23.9	22.8	24.1	
	8H	18.1	19.5	18.5	19.8	20.1	23.3	24.7	23.7	25.0	
	12H	18.2	19.5	18.6	19.8	20.1	24.3	25.6	24.7	25.9	
4H	2H	16.4	17.9	16.7	18.1	18.4	17.7	19.2	18.0	19.4	
	3H	18.2	19.5	18.6	19.8	20.1	20.4	21.7	20.8	22.1	
	4H	19.0	20.2	19.4	20.6	20.9	22.0	23.2	22.4	23.6	
	6H	19.7	20.8	20.1	21.1	21.5	23.8	24.9	24.2	25.2	
	8H	20.0	21.0	20.4	21.4	21.8	24.8	25.8	25.2	26.2	
	12H	20.2	21.1	20.6	21.5	21.9	25.9	26.8	26.3	27.2	
8H	4H	20.0	21.0	20.4	21.4	21.8	22.4	23.4	22.8	23.8	
	6H	21.1	21.9	21.5	22.3	22.8	24.5	25.4	24.9	25.8	
	8H	21.5	22.3	22.0	22.8	23.2	25.7	26.5	26.2	26.9	
	12H	21.9	22.6	22.4	23.1	23.6	27.1	27.8	27.6	28.2	
12H	4H	20.3	21.3	20.8	21.7	22.1	22.5	23.4	22.9	23.8	
	6H	21.6	22.4	22.1	22.8	23.3	24.6	25.4	25.1	25.8	
	8H	22.3	22.9	22.7	23.4	23.9	25.9	26.6	26.4	27.1	
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, 224.5 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -5.2)
Area: 0.1 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-09-19

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:0.6024A P:14.456W PF:1.0000 Freq:50.04Hz Lamp Flux:224.534x1 lm		
NAME: S08-11-2 L2820A 1.2M RGBW	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Traxon Technologies	SUR.:	Shielding Angle:

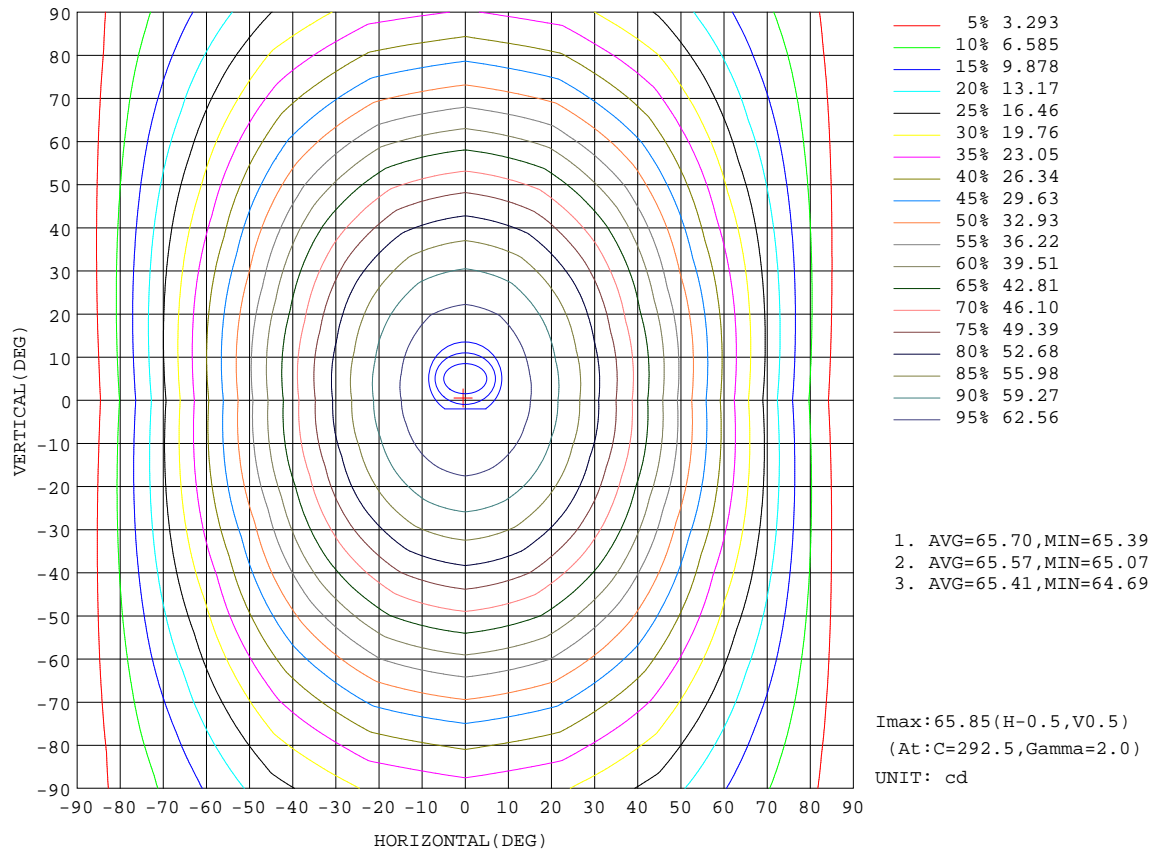
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	54	42	34	53	41	34	52	41	34	27
0.80	63	51	43	62	50	43	60	49	42	35
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	84	77	70	62
2.50	94	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										
SHRNM = 1.25										

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2022-09-19

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:23.998V I:0.6024A P:14.456W PF:1.0000 Freq:50.04Hz Lamp Flux:224.534x1 lm		
NAME: S08-11-2 L2820A 1.2M RGBW	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Traxon Technologies	SUR.:	Shielding Angle:



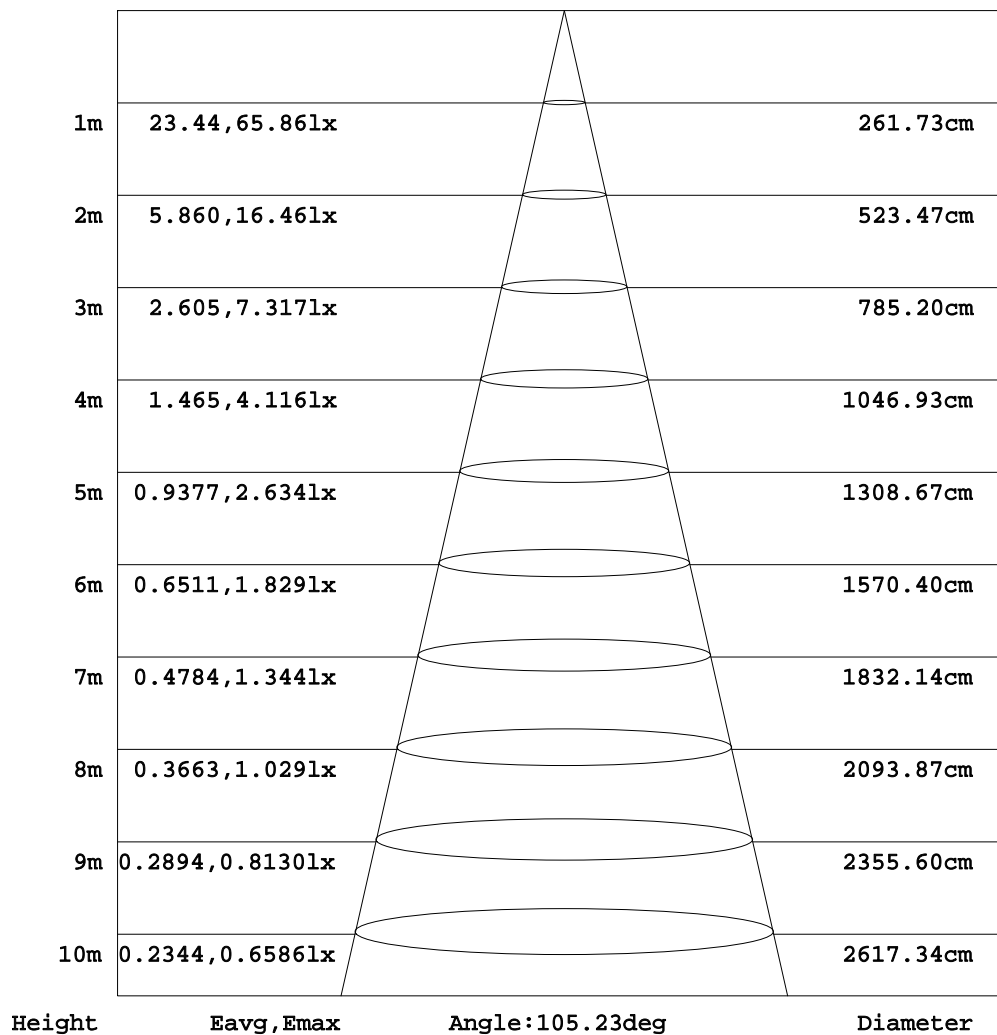
C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators:
Test Date: 2022-09-19

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:0.6024A P:14.456W PF:1.0000 Freq:50.04Hz Lamp Flux:224.534x1 lm		
NAME: S08-11-2 L2820A 1.2M RGBW	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Traxon Technologies	SUR.:	Shielding Angle:

Flux out:129.7 lm



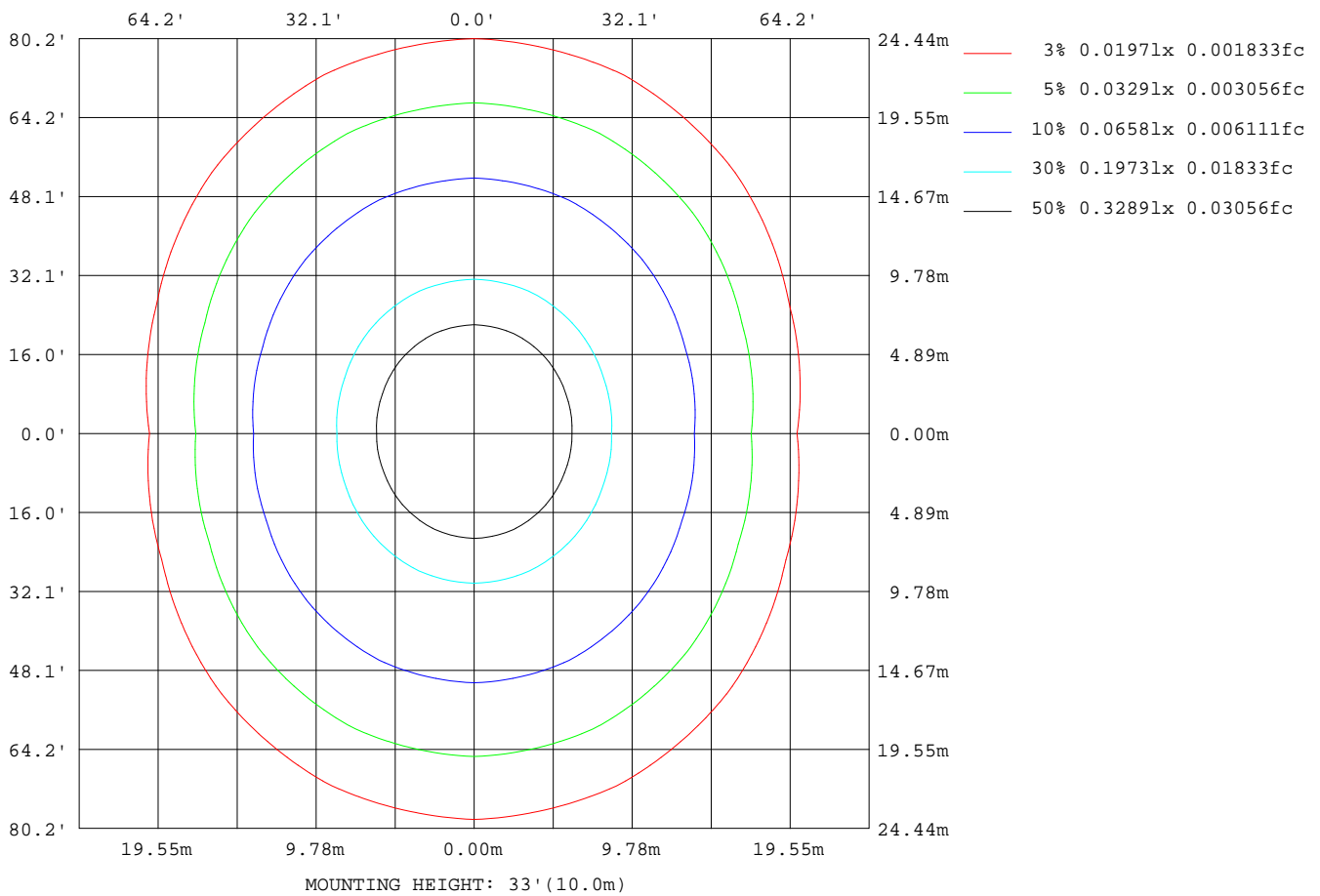
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-09-19

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:0.6024A P:14.456W PF:1.0000 Freq:50.04Hz Lamp Flux:224.534x1 lm		
NAME: S08-11-2 L2820A 1.2M 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: 2022-09-19

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:0.6024A P:14.456W PF:1.0000 Freq:50.04Hz Lamp Flux:224.534x1 lm		
NAME: S08-11-2 L2820A 1.2M RGBW	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Traxon Technologies	SUR.:	Shielding Angle:

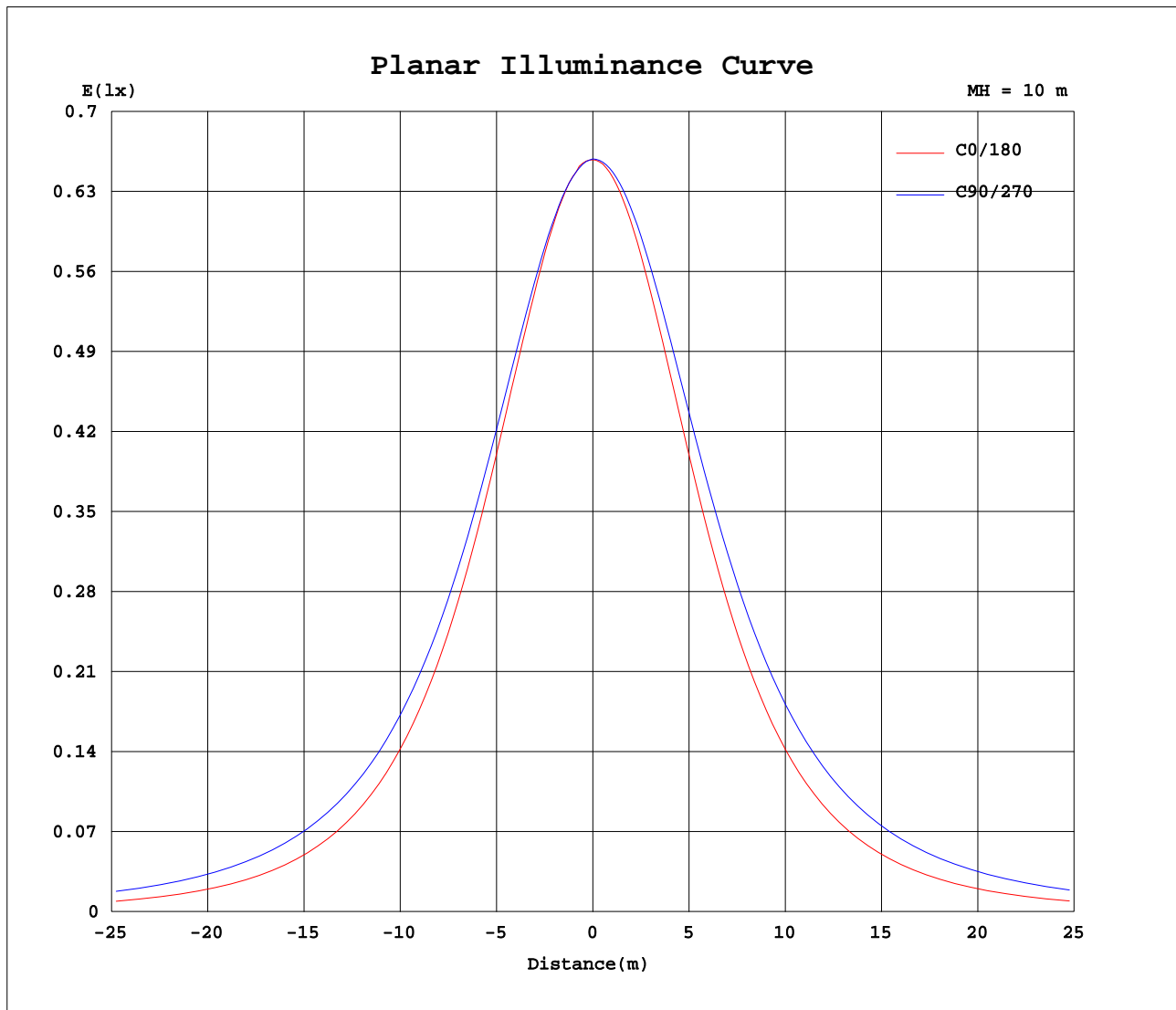
AvgL	cd/m2
L_0~180(65)av	489
L_0~180(75)av	422
L_0~180(85)av	337
L_90~270(65)av	873
L_90~270(75)av	1184
L_90~270(85)av	2883
L_45(65)av	727
L_45(75)av	927
L_45(85)av	2094

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2022-09-19

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: 2022-09-19

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:

```

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:

```