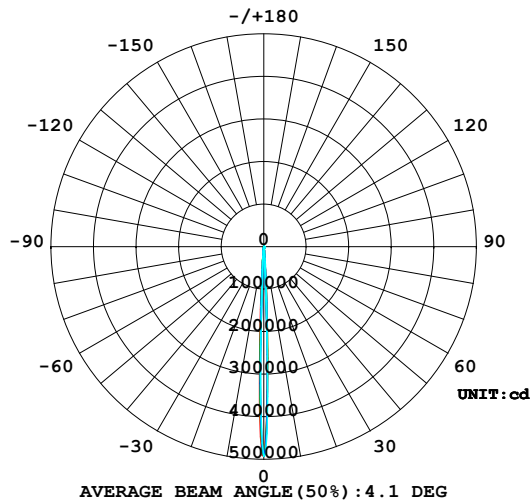


LUMINAIRE PHOTOMETRIC TEST REPORT

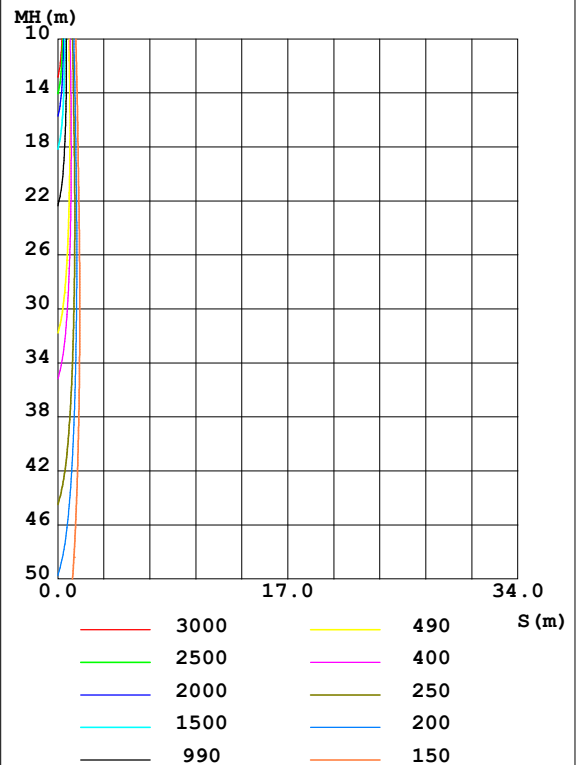
Test:U:220.73V I:0.4660A P:99.272W PF:0.9650 Freq:50.01Hz Lamp Flux:5884.06x1 lm		
NAME: SO03-04-1 L0277	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Traxon Technologies	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 59.27 lm/W			
L0277 MODEL	W-42-RGBW-3D-OSRAM-ALL	Imax(cd)	494525	S/MH(C0/180)	0.08
NOMINAL POWER(W)	100	LOR(%)	100.0	S/MH(C90/270)	0.06
RATED VOLTAGE(V)	AC 220	TOTAL FLUX(lm)	5884.1	□ UP,DN(C0-180)	0.0,52.3
NOMINAL FLUX(lm)	5884.06	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.0,47.7
LAMPS INSIDE	1	□ up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	AC 220	□ 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: LOW
Temperature: 25.3DEG
Operators:
Test Date: 2022-04-02

□ Range: 0 - 90DEG
□ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity: 65.0%
Test Distance: 11.306m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	75.37	78.33	85.14	86.19	85.20	78.45	71.31	72.83	0- 10	4544	4544	77.2, 77.2
20	11.67	11.76	13.14	13.09	13.06	12.63	11.33	11.70	10- 20	831.2	5375	91.3, 91.3
30	2.972	3.072	3.311	3.311	3.185	3.285	3.441	3.026	20- 30	299.8	5675	96.4, 96.4
40	0.9741	0.9421	0.9437	0.9142	0.9839	0.9705	0.9344	0.9079	30- 40	106.9	5782	98.3, 98.3
50	0.4147	0.4091	0.3824	0.3732	0.4042	0.4059	0.3635	0.3509	40- 50	48.22	5830	99.1, 99.1
60	0.1016	0.1012	0.0956	0.0997	0.0832	0.0811	0.0761	0.0800	50- 60	18.30	5848	99.4, 99.4
70	0.0760	0.0694	0.0614	0.0656	0.0453	0.0431	0.0424	0.0422	60- 70	6.587	5855	99.5, 99.5
80	0.1822	0.1826	0.1911	0.1911	0.1258	0.1263	0.1264	0.1308	70- 80	10.15	5865	99.7, 99.7
90	0.1716	0.1707	0.1696	0.1687	0.1456	0.1348	0.1448	0.1553	80- 90	19.10	5884	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: ×100cd									UNIT: lm		

Conical surface Flux(90deg): 5810 lm

%lum = 98.7%

%lamp = 98.7%

Conical surface Flux(120deg): 5848.2 lm

%lum = 99.4%

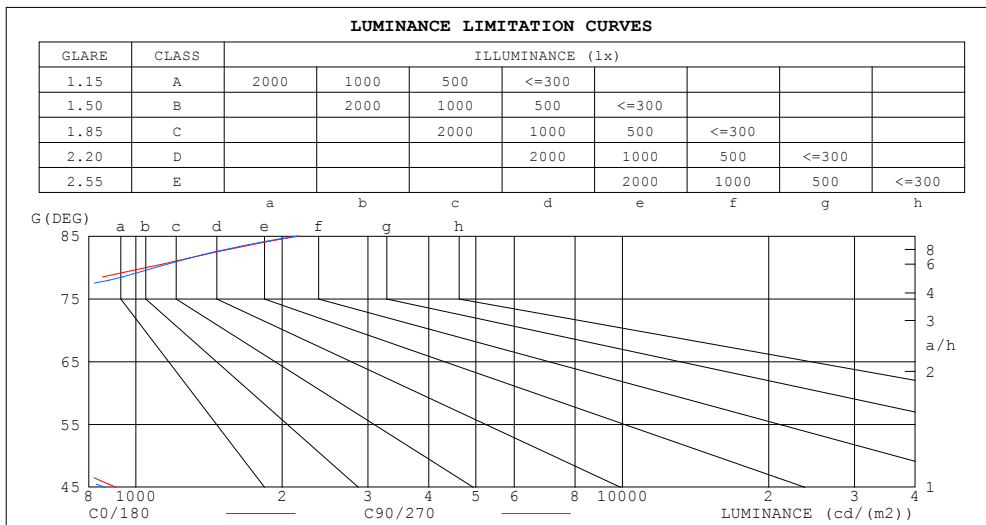
%lamp = 99.4%

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: LOW
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-04-02

□ Range: 0 - 90DEG
 □ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.417
 Humidity: 65.0%
 Test Distance: 11.306m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:220.73V I:0.4660A P:99.272W PF:0.9650 Freq:50.01Hz Lamp Flux:5884.06x1 lm		
NAME: SO03-04-1 L0277	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Traxon Technologies	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2169	2146
80	1053	1098
75	517	450
70	223	179
65	181	165
60	204	191
55	354	313
50	648	594
45	911	864

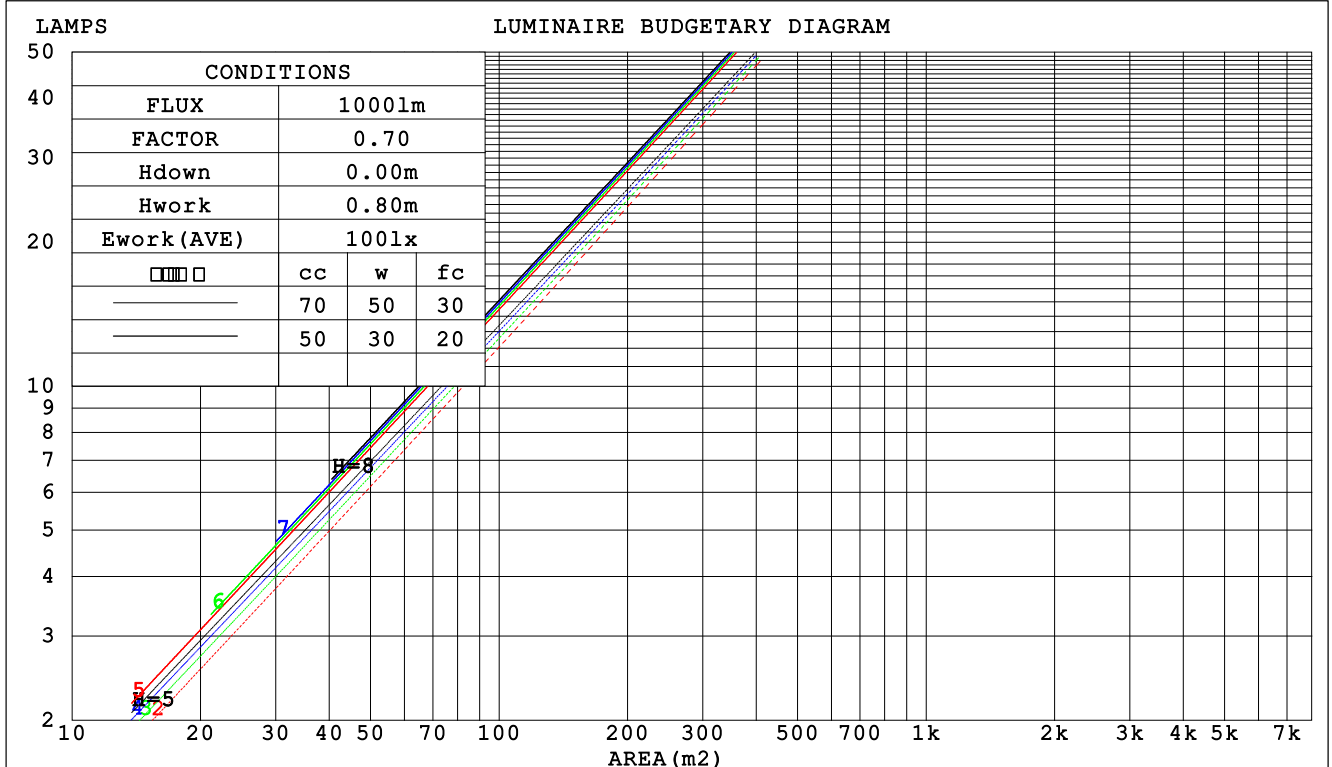
C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: LOW
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-04-02

☐ Range: 0 - 90DEG
☐ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.417
 Humidity: 65.0%
 Test Distance: 11.306m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:220.73V I:0.4660A P:99.272W PF:0.9650 Freq:50.01Hz Lamp Flux:5884.06x1 lm		
NAME: SO03-04-1 L0277	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Traxon Technologies	SUR.:	Shielding Angle:

□cc	80%			70%			50%			30%			10%			0
□w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
□fc	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	1.14	1.13	1.11	1.12	1.11	1.09	1.08	1.07	1.06	1.04	1.04	1.03	1.01	1.01	.00	.98
2.0	1.10	1.08	1.06	1.09	1.07	1.05	1.06	1.04	1.03	1.03	1.02	1.00	1.00	.99	.98	.97
3.0	1.07	1.04	1.02	1.06	1.03	1.01	1.04	1.02	.00	1.01	.00	.98	.99	.98	.97	.96
4.0	1.05	1.02	.99	1.04	1.01	.99	1.02	.00	.98	1.00	.98	.97	.98	.97	.96	.95
5.0	1.03	.00	.97	1.02	.99	.97	1.00	.98	.96	.99	.97	.95	.98	.96	.95	.94
6.0	1.01	.98	.96	1.00	.97	.95	.99	.96	.95	.98	.96	.94	.97	.95	.94	.93
7.0	.99	.96	.94	.99	.96	.94	.98	.95	.93	.97	.95	.93	.96	.94	.93	.92
8.0	.98	.95	.93	.97	.95	.93	.97	.94	.92	.96	.94	.92	.95	.93	.92	.91
9.0	.97	.94	.92	.96	.94	.92	.96	.93	.92	.95	.93	.91	.94	.92	.91	.90
10.0	.95	.93	.91	.95	.93	.91	.95	.92	.91	.94	.92	.91	.94	.92	.90	.90



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: LOW
Temperature:25.3DEG
Operators:
Test Date:2022-04-02

□ Range: 0 - 90DEG
□ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:11.306m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:220.73V I:0.4660A P:99.272W PF:0.9650 Freq:50.01Hz Lamp Flux:5884.06x1 lm		
NAME: SO03-04-1 L0277	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Traxon Technologies	SUR.:	Shielding Angle:

<input type="checkbox"/> cc	80%	70%	50%	30%	10%	0
<input type="checkbox"/> w	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
<input type="checkbox"/> fc	20%	20%	20%	20%	20%	0
RCR	RCR:Room Cavity Ratio Wall Exitance Coefficients (WEC)					
0.0						
1.0	.114 .065 .020	.107 .061 .019	.095 .054 .017	.083 .048 .015	.073 .042 .014	
2.0	.101 .055 .017	.096 .053 .016	.086 .048 .015	.077 .043 .013	.068 .039 .012	
3.0	.092 .049 .015	.087 .047 .014	.079 .043 .013	.071 .039 .012	.064 .036 .011	
4.0	.084 .043 .013	.080 .042 .012	.073 .039 .012	.067 .036 .011	.061 .033 .010	
5.0	.077 .039 .011	.074 .038 .011	.068 .036 .010	.063 .033 .010	.058 .031 .009	
6.0	.071 .036 .010	.069 .035 .010	.064 .033 .010	.059 .031 .009	.055 .029 .009	
7.0	.066 .033 .009	.064 .032 .009	.060 .030 .009	.056 .029 .008	.053 .027 .008	
8.0	.062 .030 .009	.060 .030 .008	.057 .028 .008	.053 .027 .008	.050 .026 .008	
9.0	.058 .028 .008	.057 .028 .008	.054 .027 .008	.051 .025 .007	.048 .024 .007	
10.0	.055 .026 .007	.054 .026 .007	.051 .025 .007	.048 .024 .007	.046 .023 .007	

<input type="checkbox"/> cc	80%	70%	50%	30%	10%	0
<input type="checkbox"/> w	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
<input type="checkbox"/> 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	.167 .158 .150	.143 .135 .129	.098 .093 .089	.056 .054 .052	.018 .017 .017	
2.0	.147 .133 .121	.126 .114 .105	.086 .079 .073	.050 .046 .043	.016 .015 .014	
3.0	.130 .113 .100	.112 .098 .086	.077 .068 .061	.044 .040 .036	.014 .013 .012	
4.0	.116 .097 .083	.100 .084 .072	.068 .059 .051	.040 .034 .030	.013 .011 .010	
5.0	.104 .084 .070	.089 .073 .061	.062 .051 .043	.036 .030 .026	.011 .010 .008	
6.0	.094 .074 .060	.081 .064 .052	.056 .045 .037	.032 .026 .022	.010 .009 .007	
7.0	.085 .065 .051	.073 .057 .045	.051 .040 .032	.029 .023 .019	.010 .008 .006	
8.0	.078 .058 .044	.067 .050 .039	.046 .035 .028	.027 .021 .016	.009 .007 .005	
9.0	.072 .052 .039	.062 .045 .034	.043 .032 .024	.025 .019 .014	.008 .006 .005	
10.0	.066 .047 .034	.057 .041 .030	.039 .029 .021	.023 .017 .013	.007 .006 .004	

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: LOW
Temperature:25.3DEG
Operators:
Test Date:2022-04-02

☐ Range: 0 - 90DEG
☐ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:11.306m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:220.73V I:0.4660A P:99.272W PF:0.9650 Freq:50.01Hz Lamp Flux:5884.06x1 lm										
NAME: SO03-04-1 L0277					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	-6.7	-6.2	-6.5	-6.1	-5.9	-6.7	-6.3	-6.5	-6.1	-6.0
3H	-6.5	-6.0	-6.3	-5.9	-5.7	-6.6	-6.2	-6.4	-6.0	-5.8
4H	-5.7	-5.3	-5.5	-5.1	-4.9	-6.0	-5.6	-5.8	-5.4	-5.2
6H	-3.7	-3.3	-3.4	-3.1	-2.8	-3.7	-3.2	-3.4	-3.0	-2.8
8H	-2.3	-1.9	-2.0	-1.7	-1.4	-2.3	-1.9	-2.0	-1.7	-1.4
12H	-0.8	-0.4	-0.5	-0.2	0.1	-0.8	-0.5	-0.5	-0.2	0.1
4H 2H	-6.7	-6.3	-6.5	-6.1	-5.9	-6.8	-6.4	-6.5	-6.2	-6.0
3H	-6.4	-6.0	-6.1	-5.7	-5.5	-6.5	-6.2	-6.2	-5.9	-5.6
4H	-5.1	-4.7	-4.8	-4.5	-4.2	-5.4	-5.1	-5.1	-4.8	-4.5
6H	-2.5	-2.2	-2.1	-1.8	-1.5	-2.4	-2.1	-2.0	-1.7	-1.4
8H	-0.9	-0.6	-0.5	-0.2	0.1	-0.8	-0.5	-0.4	-0.2	0.2
12H	0.8	1.1	1.2	1.5	1.8	0.8	1.1	1.2	1.5	1.9
8H 4H	-4.4	-4.1	-4.0	-3.7	-3.4	-4.6	-4.3	-4.2	-4.0	-3.6
6H	-1.3	-1.1	-0.9	-0.7	-0.3	-1.2	-1.0	-0.8	-0.6	-0.2
8H	0.5	0.7	0.9	1.1	1.5	0.5	0.8	1.0	1.2	1.6
12H	2.3	2.5	2.8	3.0	3.4	2.4	2.6	2.8	3.0	3.5
12H 4H	-4.0	-3.7	-3.6	-3.4	-3.0	-4.3	-4.0	-3.9	-3.6	-3.2
6H	-0.9	-0.7	-0.4	-0.2	0.2	-0.8	-0.6	-0.4	-0.2	0.3
8H	1.0	1.2	1.5	1.6	2.1	1.1	1.3	1.5	1.7	2.2
Variations with the observer position at spacings:										
S = 1.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.3				
1.5H	+ 0.3 / - 0.2					+ 0.2 / - 0.2				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 5884 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 6.2)
Area: 0.1 m2

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: LOW
Temperature:25.3DEG
Operators:
Test Date:2022-04-02

☐ Range: 0 - 90DEG
☐ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:11.306m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:220.73V I:0.4660A P:99.272W PF:0.9650 Freq:50.01Hz Lamp Flux:5884.06x1 lm		
NAME: SO03-04-1 L0277	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Traxon Technologies	SUR.:	Shielding Angle:

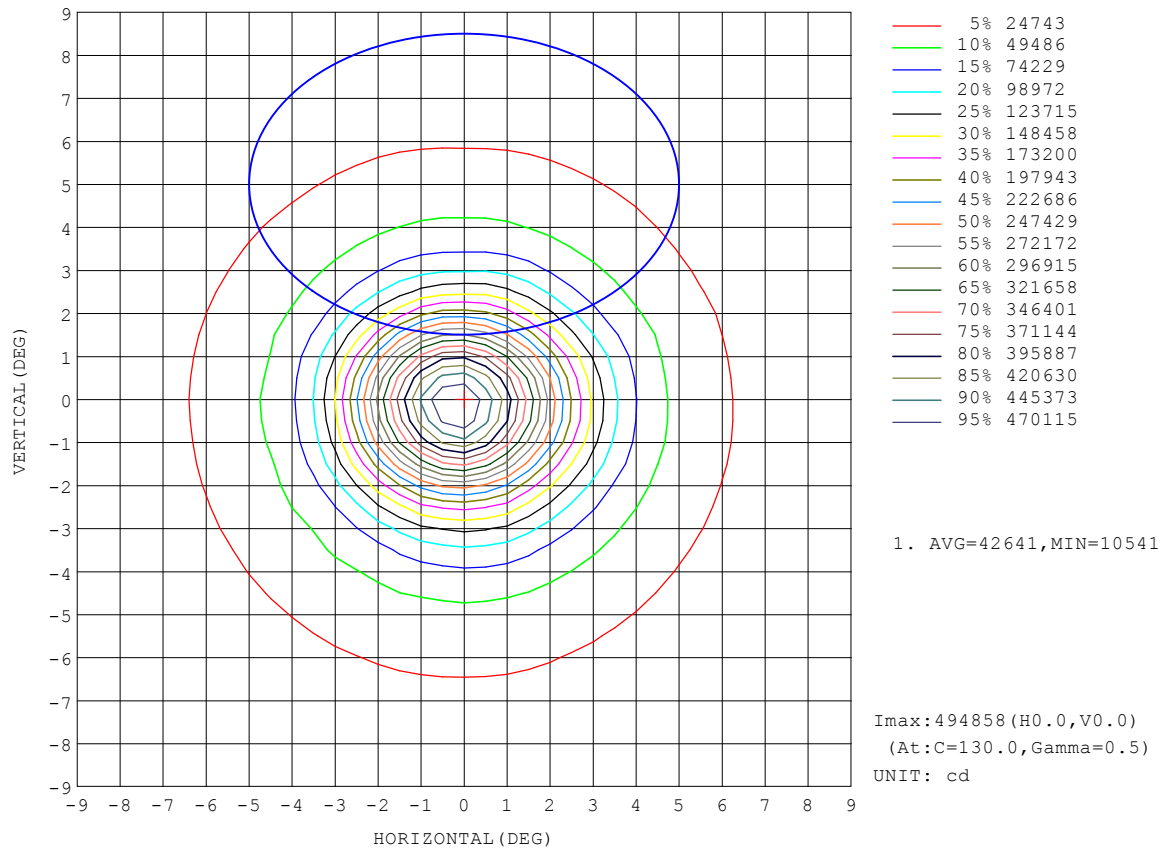
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	91	85	81	90	85	81	89	84	81	78
0.80	97	92	89	97	92	89	96	91	88	85
1.00	101	96	93	100	96	93	99	95	92	88
1.25	105	100	97	104	100	97	102	98	96	92
1.50	107	103	100	106	102	99	104	101	98	94
2.00	109	106	103	108	105	102	105	103	100	95
2.50	111	107	105	109	106	104	106	104	102	96
3.00	112	109	107	111	108	106	107	105	103	97
4.00	114	112	110	112	110	108	109	107	106	99
5.00	115	113	112	113	112	110	109	108	107	100
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: LOW
Temperature: 25.3DEG
Operators:
Test Date: 2022-04-02

☐ Range: 0 - 90DEG
☐ Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity: 65.0%
Test Distance: 11.306m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:220.73V I:0.4660A P:99.272W PF:0.9650 Freq:50.01Hz Lamp Flux:5884.06x1 lm		
NAME: SO03-04-1 L0277	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Traxon Technologies	SUR.:	Shielding Angle:

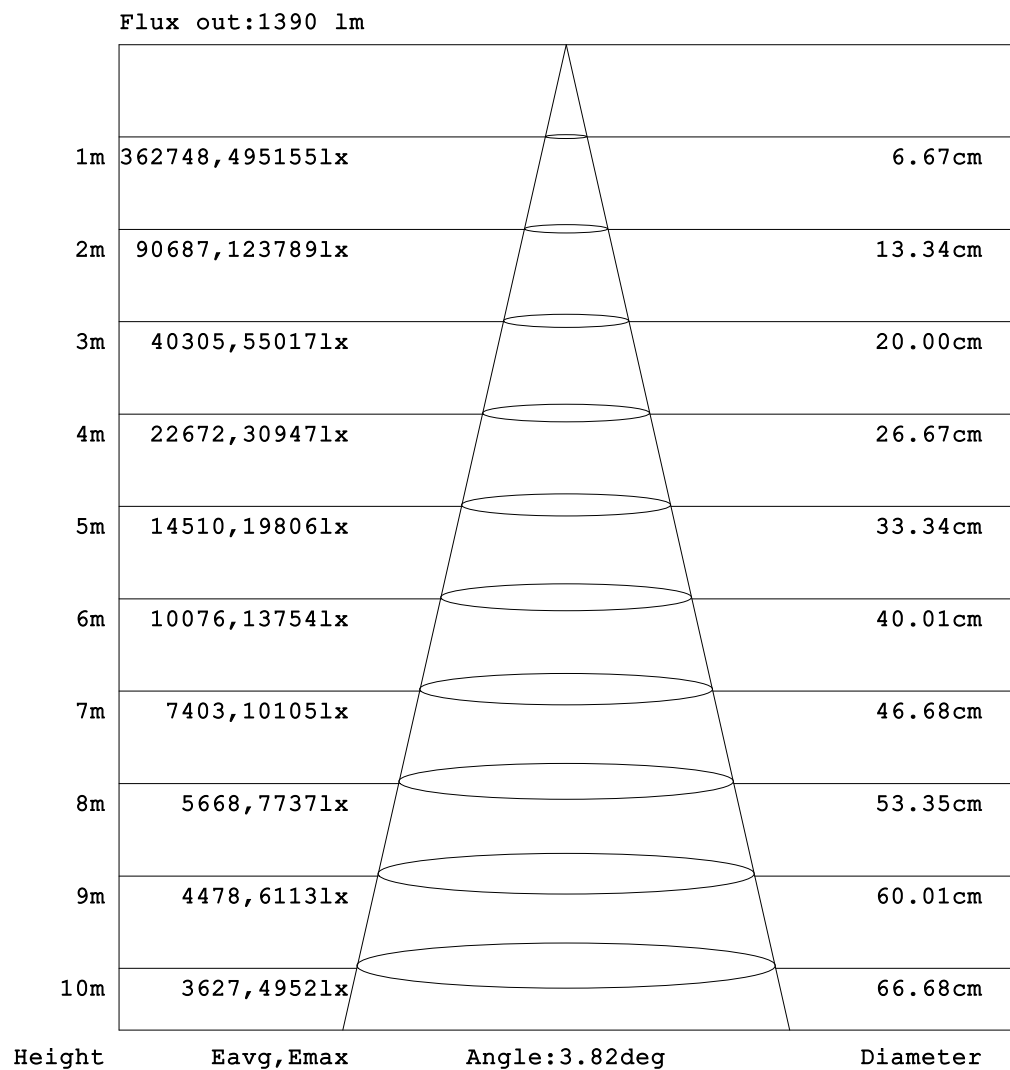


C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: LOW
Temperature:25.3DEG
Operators:
Test Date:2022-04-02

☐ Range: 0 - 90DEG
☐ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:11.306m [K=1.0000]
Remarks:

AAI Figure

Test:U:220.73V I:0.4660A P:99.272W PF:0.9650 Freq:50.01Hz Lamp Flux:5884.06x1 lm		
NAME: SO03-04-1 L0277	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Traxon Technologies	SUR.:	Shielding Angle:



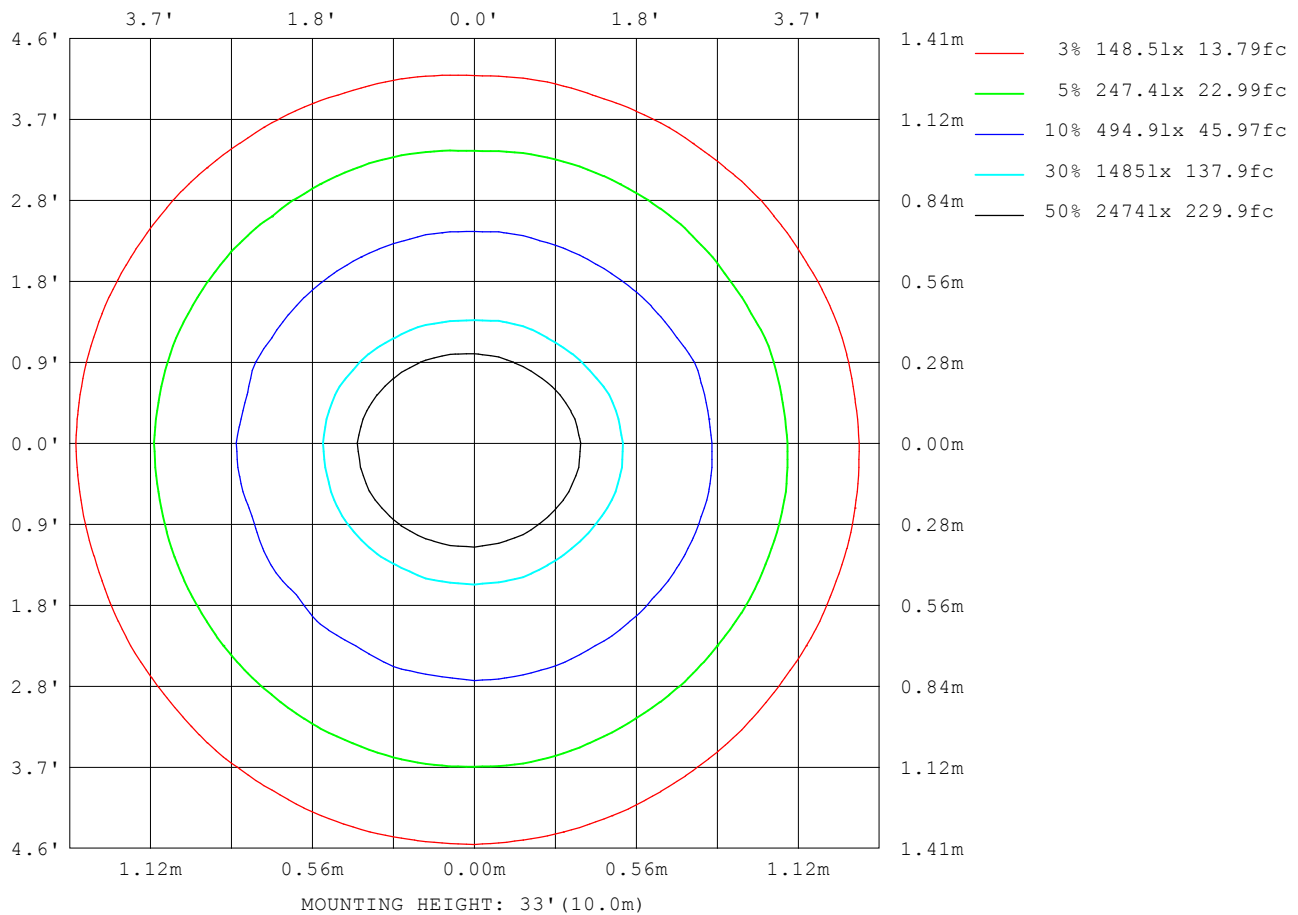
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: LOW
 Temperature:25.3DEG
 Operators:
 Test Date:2022-04-02

☐ Range: 0 - 90DEG
☐ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
 Humidity:65.0%
 Test Distance:11.306m [K=1.0000]
 Remarks:

ISOLUX DIAGRAM

Test:U:220.73V I:0.4660A P:99.272W PF:0.9650 Freq:50.01Hz Lamp Flux:5884.06x1 lm		
NAME: SO03-04-1 L0277	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Traxon Technologies	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: LOW
Temperature:25.3DEG
Operators:
Test Date:2022-04-02

☐ Range: 0 - 90DEG
☐ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:11.306m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:220.73V I:0.4660A P:99.272W PF:0.9650 Freq:50.01Hz Lamp Flux:5884.06x1 lm		
NAME: SO03-04-1 L0277	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Traxon Technologies	SUR.:	Shielding Angle:

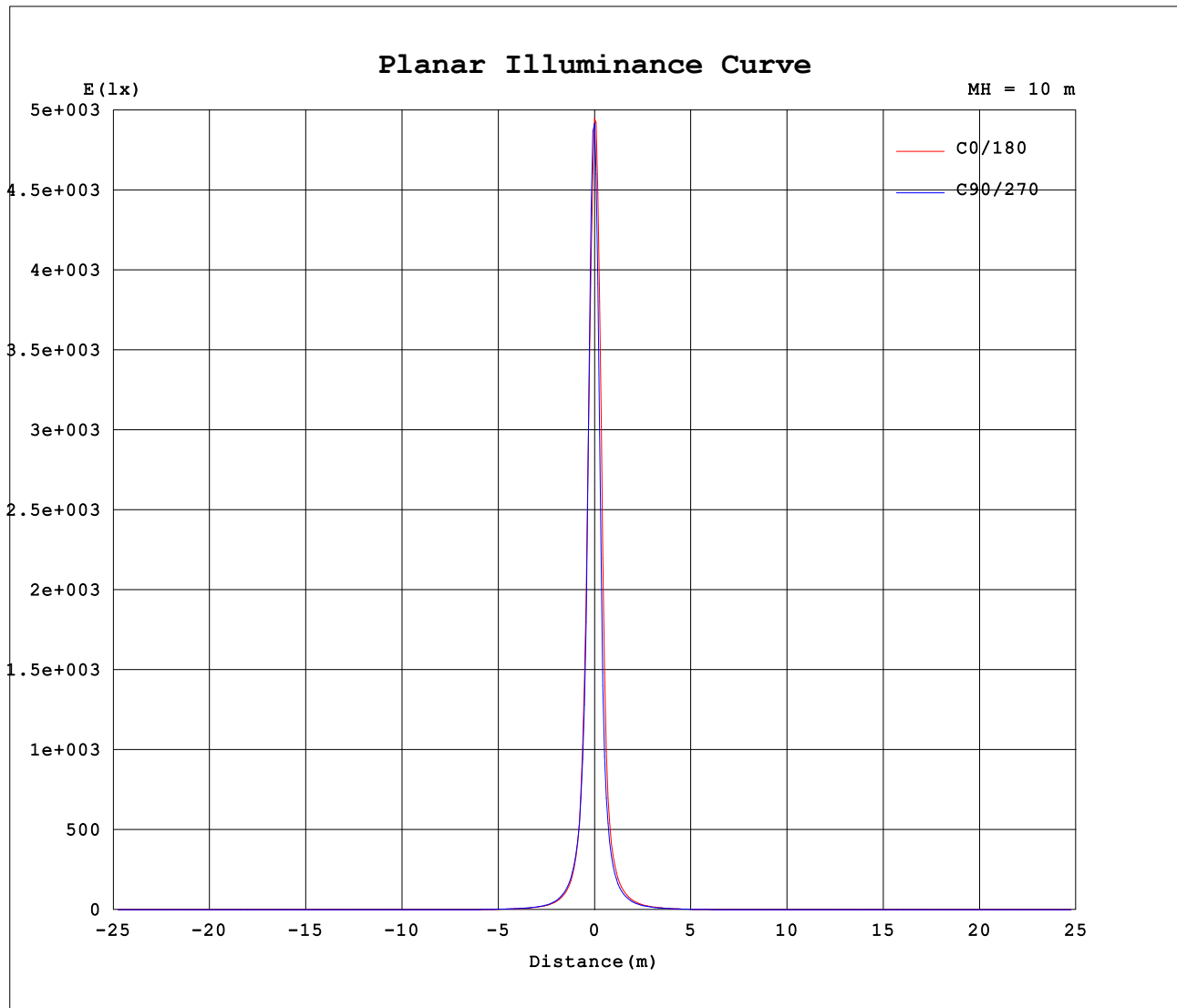
AvgL	cd/m2
L_0~180 (65) av	158
L_0~180 (75) av	381
L_0~180 (85) av	2052
L_90~270 (65) av	144
L_90~270 (75) av	313
L_90~270 (85) av	2205
L_45 (65) av	152
L_45 (75) av	342
L_45 (85) av	2109

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 10.0DEG
Test Speed: LOW
Temperature:25.3DEG
Operators:
Test Date:2022-04-02

☐ Range: 0 - 90DEG
☐ Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
Humidity:65.0%
Test Distance:11.306m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 10.0DEG
 Test Speed: LOW
 Temperature: 25.3DEG
 Operators:
 Test Date: 2022-04-02

☐ Range: 0 - 90DEG
☐ Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.417
 Humidity: 65.0%
 Test Distance: 11.306m [K=1.0000]
 Remarks:

☐ Range: 0 - 90DEG
☐ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
 Humidity:65.0%
 Test Distance:11.306m [K=1.0000]
 Remarks:

☐ Range: 0 - 90DEG
☐ Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.417
 Humidity:65.0%
 Test Distance:11.306m [K=1.0000]
 Remarks: