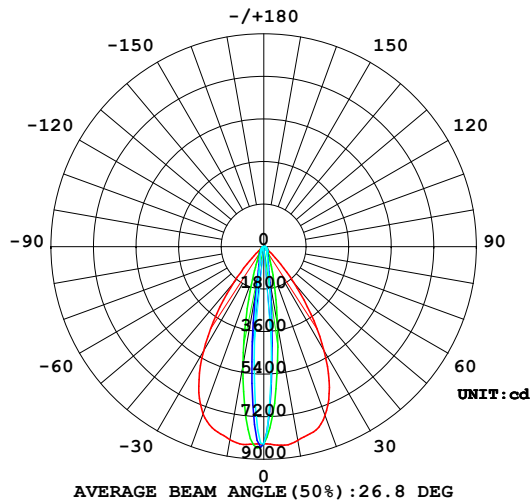


LUMINAIRE PHOTOMETRIC TEST REPORT

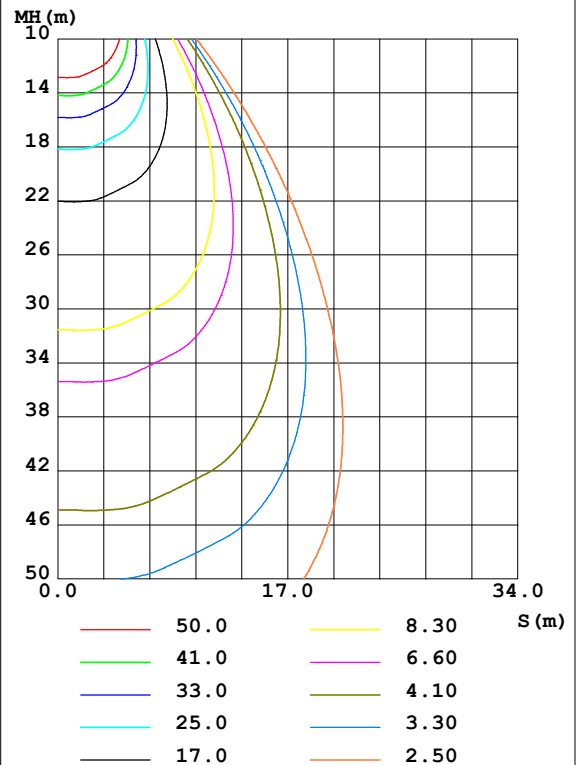
Test:U:220.79V I:0.1554A P:32.862W PF:0.9576 Freq:50.01Hz Lamp Flux:2529.53x1 lm		
NAME: AL LINEAR 2.1 900 30 DX 60X10 CE WC	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Traxon Technologies	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 76.97 lm/W
MODEL	AM471880055	I <sub>max</sub> (cd)	8608	S/MH (C0/180)	0.97	
NOMINAL POWER (W)	41	LOR (%)	100.0	S/MH (C90/270)	0.20	
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	2529.5	□ UP, DN (C0-180)	0.0, 47.6	
NOMINAL FLUX (lm)	2529.53	CIE CLASS	DIRECT	□ UP, DN (C180-360)	0.0, 52.4	
LAMPS INSIDE	1	□ up (%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE (V)	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: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2022-11-16

□ Range: 0 - 90DEG  
 □ 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:

°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	8315	2169	1263	2390	8287	3217	1354	2712	0- 10	494.6	494.6	19.6,19.6
20	7595	643.8	482.8	646.3	7522	660.6	499.2	624.6	10- 20	669.9	1164	46,46
30	5128	358.4	279.4	348.2	5112	365.7	269.4	360.5	20- 30	580.0	1744	69,69
40	1976	218.8	192.2	210.5	1977	212.2	185.8	211.2	30- 40	377.8	2122	83.9,83.9
50	298.4	145.9	134.4	139.5	288.8	140.7	131.6	141.5	40- 50	190.3	2313	91.4,91.4
60	118.2	90.33	87.42	86.56	115.1	89.39	87.07	90.09	50- 60	108.1	2421	95.7,95.7
70	63.45	46.05	40.72	45.32	60.98	47.69	42.72	47.79	60- 70	69.34	2490	98.4,98.4
80	22.86	12.68	10.51	13.52	21.57	13.12	11.14	13.45	70- 80	31.32	2521	99.7,99.7
90	4.861	5.558	6.166	6.092	2.977	3.348	5.840	3.417	80- 90	8.158	2530	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): 2235 lm

%lum = 88.4%

%lamp = 88.4%

Conical surface Flux(120deg): 2420.7 lm

%lum = 95.7%

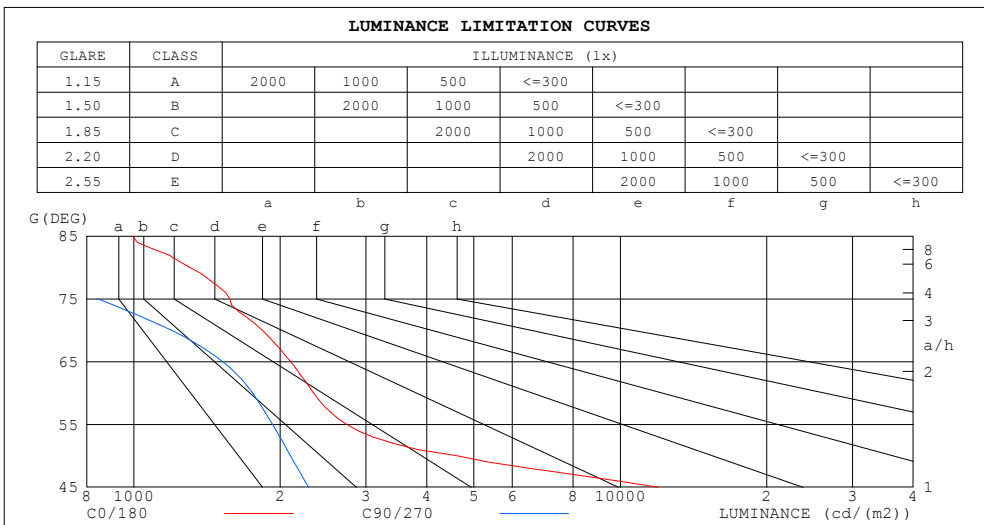
%lamp = 95.7%

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-11-16

□ Range: 0 - 90DEG  
 □ 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:220.79V I:0.1554A P:32.862W PF:0.9576 Freq:50.01Hz Lamp Flux:2529.53x1 lm		
NAME: AL LINEAR 2.1 900 30 DX 60X10 CE WC	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Traxon Technologies	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	994	772
80	1304	608
75	1574	843
70	1838	1195
65	2099	1521
60	2341	1754
55	2736	1928
50	4599	2098
45	11975	2289

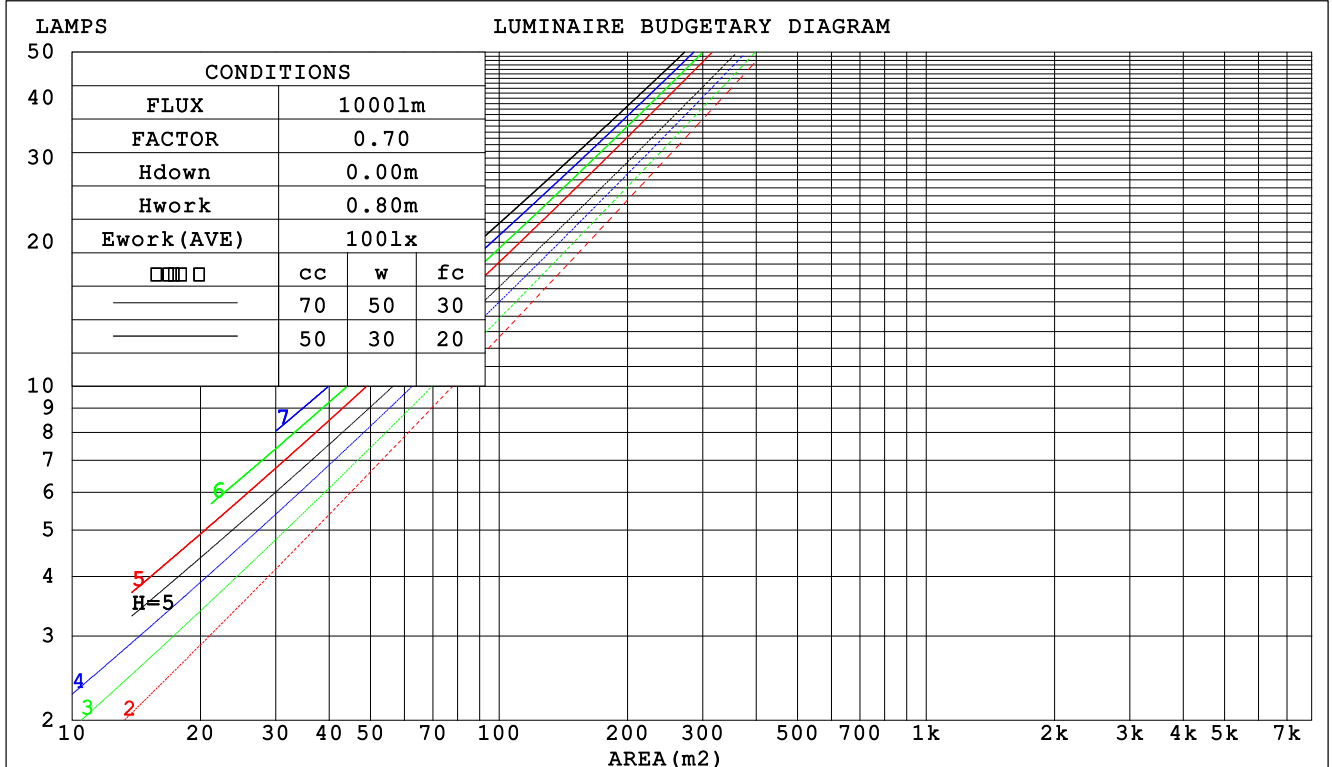
C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-11-16

☐ Range: 0 - 90DEG  
☐ 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:220.79V I:0.1554A P:32.862W PF:0.9576 Freq:50.01Hz Lamp Flux:2529.53x1 lm		
NAME: AL LINEAR 2.1 900 30 DX 60X10 CE WC	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															



C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-11-16

□ Range: 0 - 90DEG  
□ 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:220.79V I:0.1554A P:32.862W PF:0.9576 Freq:50.01Hz Lamp Flux:2529.53x1 lm		
NAME: AL LINEAR 2.1 900 30 DX 60X10 CE WC	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	.189 .108 .034	.183 .104 .033	.170 .098 .031	.158 .091 .029	.148 .086 .028	
2.0	.180 .099 .030	.174 .096 .030	.163 .091 .028	.154 .086 .027	.144 .082 .026	
3.0	.169 .090 .027	.164 .088 .027	.155 .084 .026	.147 .080 .025	.139 .077 .024	
4.0	.159 .083 .024	.155 .081 .024	.147 .078 .023	.140 .075 .023	.133 .072 .022	
5.0	.150 .077 .022	.147 .075 .022	.140 .073 .021	.133 .070 .021	.127 .068 .020	
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	.127 .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	

<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	.172 .157 .144	.147 .135 .124	.101 .093 .086	.058 .054 .050	.019 .017 .016	
2.0	.157 .132 .112	.135 .114 .096	.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	.135 .099 .072	.116 .086 .062	.079 .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	.099 .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:2022-11-16

☐ Range: 0 - 90DEG  
☐ 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:220.79V I:0.1554A P:32.862W PF:0.9576 Freq:50.01Hz Lamp Flux:2529.53x1 lm										
NAME: AL LINEAR 2.1 900 30 DX 60X10 CE WC					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	11.7	12.7	12.0	12.9	13.0	7.3	8.2	7.5	8.4	8.6
3H	12.1	13.0	12.4	13.2	13.4	8.2	9.1	8.4	9.3	9.5
4H	12.3	13.1	12.5	13.3	13.6	8.4	9.2	8.6	9.4	9.6
6H	12.4	13.2	12.7	13.4	13.7	8.4	9.2	8.7	9.5	9.7
8H	12.4	13.1	12.7	13.4	13.7	8.4	9.2	8.7	9.5	9.7
12H	12.4	13.1	12.7	13.4	13.7	8.4	9.2	8.8	9.4	9.7
4H 2H	11.7	12.5	12.0	12.8	13.0	7.8	8.6	8.1	8.8	9.1
3H	12.2	12.9	12.5	13.2	13.5	8.8	9.5	9.1	9.8	10.1
4H	12.4	13.1	12.8	13.4	13.7	9.0	9.7	9.4	10.0	10.3
6H	12.6	13.2	13.0	13.5	13.8	9.2	9.8	9.5	10.1	10.4
8H	12.6	13.2	13.0	13.5	13.9	9.2	9.7	9.6	10.1	10.5
12H	12.6	13.1	13.0	13.5	13.9	9.2	9.7	9.6	10.1	10.5
8H 4H	12.4	12.9	12.8	13.3	13.6	9.2	9.7	9.6	10.1	10.4
6H	12.6	13.0	13.0	13.4	13.8	9.3	9.8	9.8	10.2	10.6
8H	12.6	13.0	13.1	13.4	13.9	9.4	9.8	9.8	10.2	10.6
12H	12.7	13.0	13.1	13.4	13.9	9.5	9.8	9.9	10.2	10.7
12H 4H	12.3	12.8	12.7	13.2	13.6	9.1	9.6	9.6	10.0	10.4
6H	12.5	12.9	13.0	13.3	13.8	9.3	9.7	9.8	10.1	10.6
8H	12.6	12.9	13.1	13.4	13.8	9.4	9.7	9.9	10.2	10.6
Variations with the observer position at spacings:										
S = 1.0H	+ 6.0 / - 4.2					+ 0.4 / - 0.5				
1.5H	+ 8.1 / - 4.6					+ 0.1 / - 0.3				
2.0H	+ 7.3 / - 1.8					+ 0.5 / - 0.6				

CIE Pub.117, 2530 lm Total Lamp Luminous Flux Correct ( $8\log(F/F_0) = 3.2$ )  
Area: 0.1 m<sup>2</sup>

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-11-16

☐ Range: 0 - 90DEG  
☐ 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:220.79V I:0.1554A P:32.862W PF:0.9576 Freq:50.01Hz Lamp Flux:2529.53x1 lm		
NAME: AL LINEAR 2.1 900 30 DX 60X10 CE WC	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Traxon Technologies	SUR.:	Shielding Angle:

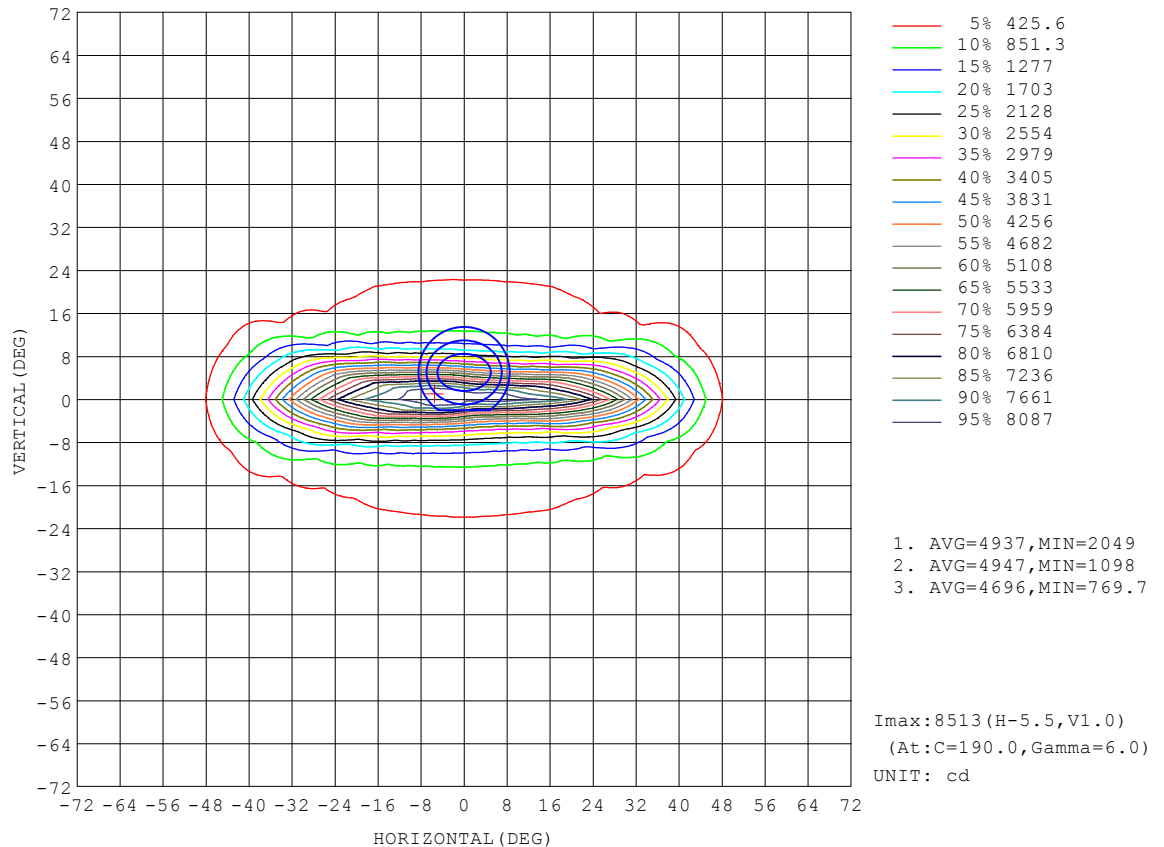
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	82	74	70	81	74	70	80	74	70	65
0.80	90	83	78	89	82	78	88	82	78	73
1.00	95	88	84	94	88	84	92	88	83	79
1.25	99	93	89	98	93	89	96	91	88	83
1.50	103	97	93	101	96	92	99	95	91	86
2.00	106	101	97	105	100	97	102	98	95	89
2.50	108	104	100	107	102	99	103	100	97	91
3.00	110	106	103	108	105	102	105	102	100	93
4.00	112	109	107	110	108	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: 2022-11-16

☐ Range: 0 - 90DEG  
☐ 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:220.79V I:0.1554A P:32.862W PF:0.9576 Freq:50.01Hz Lamp Flux:2529.53x1 lm		
NAME: AL LINEAR 2.1 900 30 DX 60X10 CE WC	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Traxon Technologies	SUR.:	Shielding Angle:



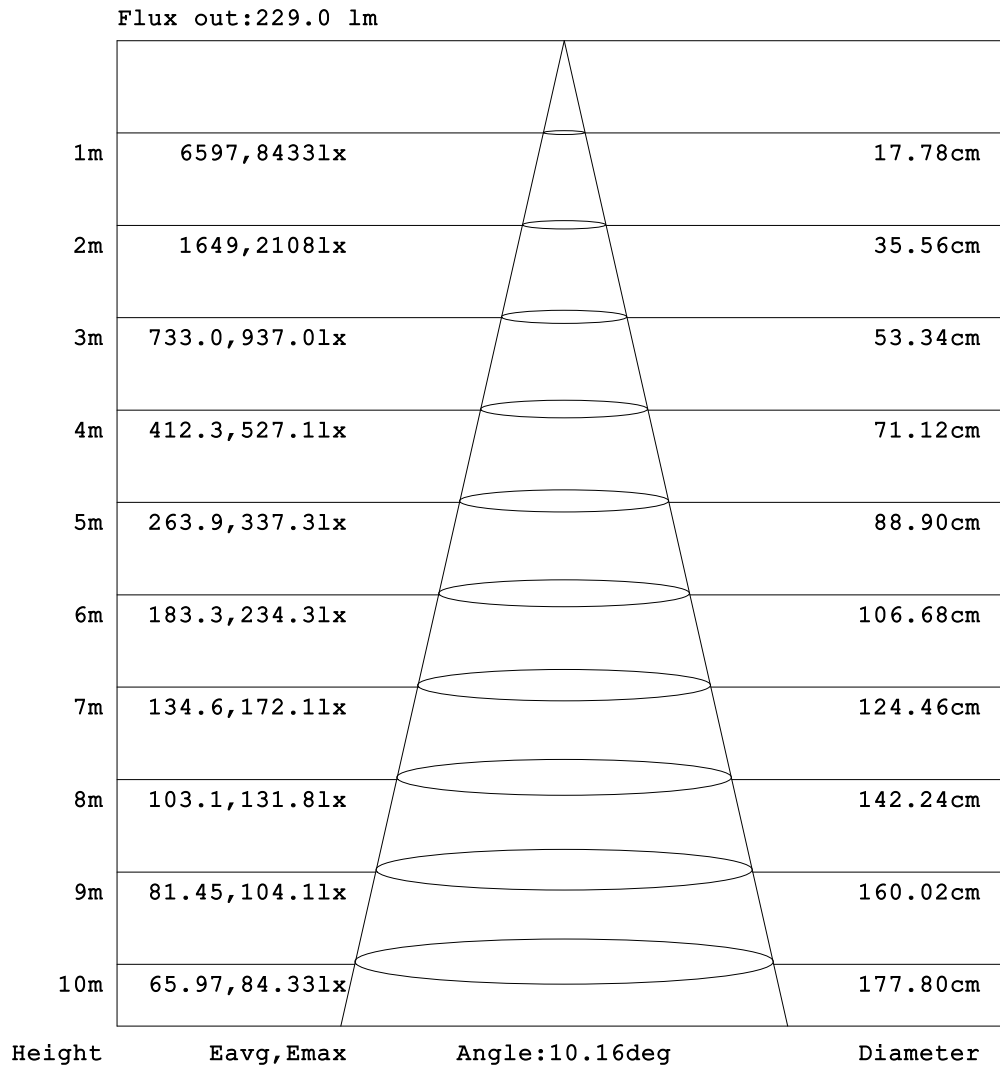
C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-11-16

☐ Range: 0 - 90DEG  
☐ 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:220.79V I:0.1554A P:32.862W PF:0.9576 Freq:50.01Hz Lamp Flux:2529.53x1 lm		
NAME: AL LINEAR 2.1 900 30 DX 60X10 CE WC	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Traxon Technologies	SUR.:	Shielding Angle:



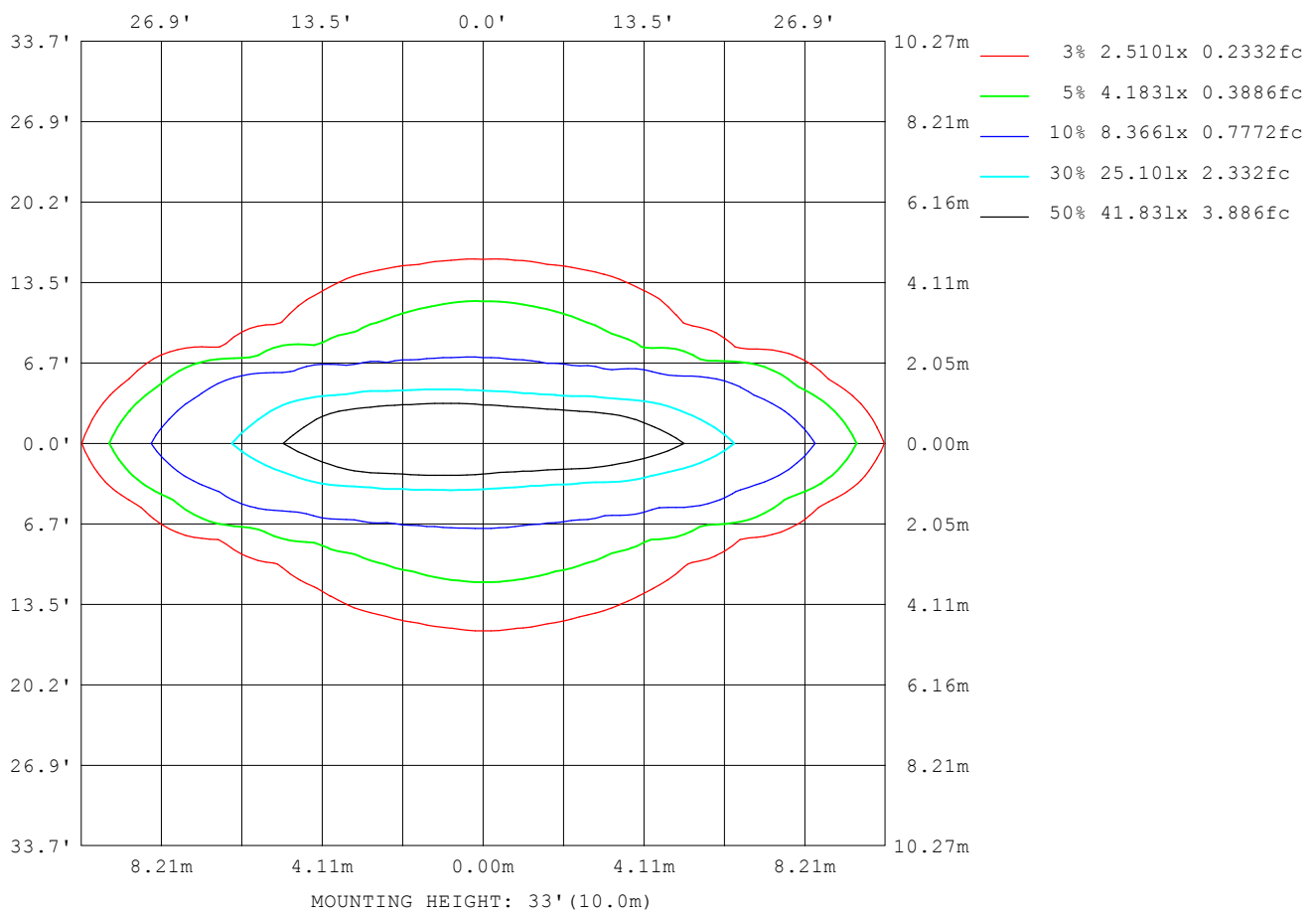
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 10.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2022-11-16

☐ Range: 0 - 90DEG  
☐ 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:220.79V I:0.1554A P:32.862W PF:0.9576 Freq:50.01Hz Lamp Flux:2529.53x1 lm		
NAME: AL LINEAR 2.1 900 30 DX 60X10 CE WC	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:2022-11-16

☐ Range: 0 - 90DEG  
☐ 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:220.79V I:0.1554A P:32.862W PF:0.9576 Freq:50.01Hz Lamp Flux:2529.53x1 lm		
NAME: AL LINEAR 2.1 900 30 DX 60X10 CE WC	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: Traxon Technologies	SUR.:	Shielding Angle:

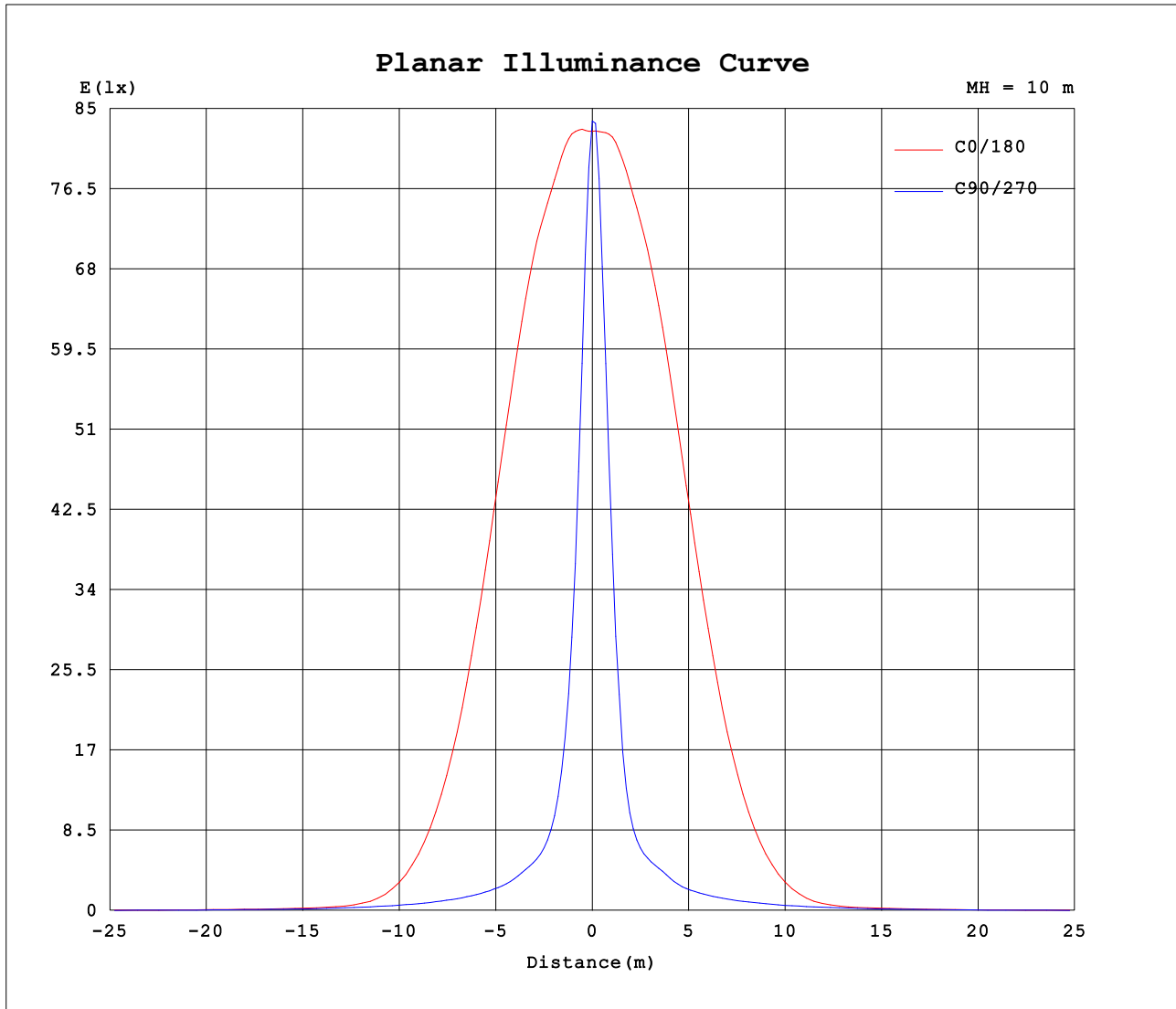
AvgL	cd/m2
L_0~180 (65) av	2092
L_0~180 (75) av	1550
L_0~180 (85) av	917
L_90~270 (65) av	1529
L_90~270 (75) av	867
L_90~270 (85) av	794
L_45 (65) av	1581
L_45 (75) av	1086
L_45 (85) av	625

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 10.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2022-11-16

☐ Range: 0 - 90DEG  
☐ 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: 2022-11-16

☐ Range: 0 - 90DEG  
☐ Interval: 1.0DEG  
 Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.417  
 Humidity: 65.0%  
 Test Distance: 11.635m [K=1.0000]  
 Remarks:

☐ Range: 0 - 90DEG  
☐ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.417  
 Humidity:65.0%  
 Test Distance:11.635m [K=1.0000]  
 Remarks:

☐ Range: 0 - 90DEG  
☐ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.417  
 Humidity:65.0%  
 Test Distance:11.635m [K=1.0000]  
 Remarks: