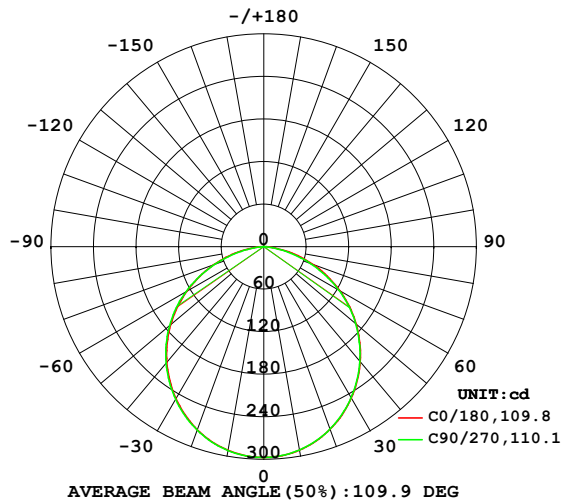


LUMINAIRE PHOTOMETRIC TEST REPORT

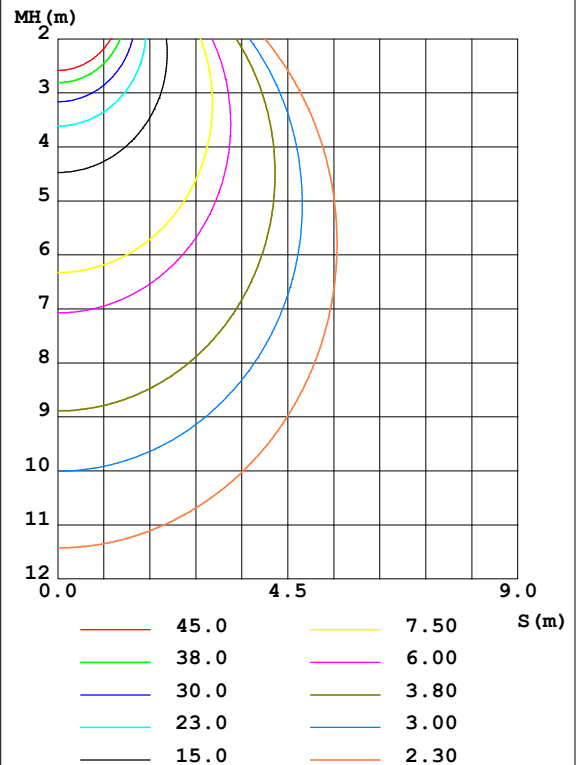
Test:U:120.01V I:0.1260A P:11.710W PF:0.9255 Freq:59.98Hz Lamp Flux:811.329x1 lm					
NAME: RSD-6-TUN-WH		TYPE:		WEIGHT:	
SPEC.:2700K 90		DIM.:		SERIAL No.:	
MFR.:		SUR.:		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 69.28 lm/W
MODEL		Imax(cd)	297.3	S/MH(C0/180)	1.24	
NOMINAL POWER(W)	12	LOR(%)	100.0	S/MH(C90/270)	1.24	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	811.33	□ UP,DN(C0-180)	0.0,49.7	
NOMINAL FLUX(lm)	811.329	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.0,50.3	
LAMPS INSIDE	1	□ up(%)	0.0	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	120	□ down(%)	100.0	CIBSE SHR MAX	1.35	

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:2021-10-18

□ Range: 0 - 90DEG  
 □ Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:3.080m [K=1.0000]  
 Remarks:

### ZONAL FLUX DIAGRAM

#### ZONAL FLUX DIAGRAM:

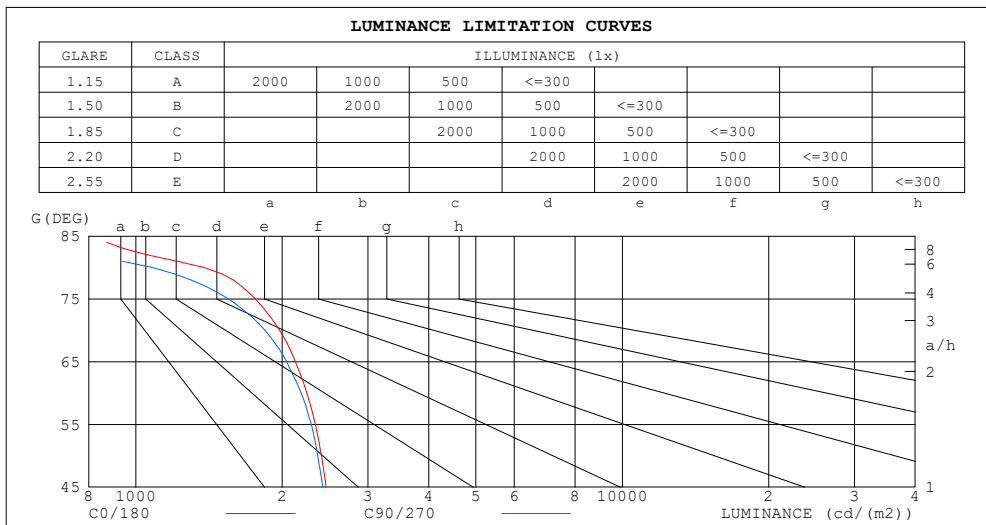
°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	291.3	291.1	291.1	291.2	291.6	291.8	291.9	291.6	0- 10	28.10	28.10	3.46,3.46
20	274.0	273.5	273.6	273.9	274.6	275.0	275.2	274.9	10- 20	80.18	108.3	13.3,13.3
30	246.8	246.1	246.3	246.7	247.6	248.2	248.7	248.3	20- 30	120.7	229.0	28.2,28.2
40	211.6	210.6	210.9	211.4	212.9	213.8	214.6	214.1	30- 40	144.3	373.3	46,46
50	170.3	169.1	169.3	170.0	171.6	172.6	173.6	173.0	40- 50	148.4	521.7	64.3,64.3
60	123.6	122.1	121.8	123.0	124.6	125.8	126.3	126.3	50- 60	132.6	654.3	80.6,80.6
70	74.31	71.79	70.17	72.67	74.94	74.80	73.74	75.16	60- 70	97.85	752.1	92.7,92.7
80	26.37	23.53	20.85	24.00	27.30	25.77	23.51	25.85	70- 80	51.19	803.3	99,99
90	0.1203	0.1142	0.1084	0.1154	0.2059	0.1931	0.1790	0.1946	80- 90	8.039	811.3	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		

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2021-10-18

□ Range: 0 - 90DEG  
□ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.421  
Humidity:65.0%  
Test Distance:3.080m [K=1.0000]  
Remarks:

### LUMINANCE LIMITATION CURVES

Test:U:120.01V I:0.1260A P:11.710W PF:0.9255 Freq:59.98Hz Lamp Flux:811.329x1 lm		
NAME: RSD-6-TUN-WH	TYPE:	WEIGHT:
SPEC.:2700K 90	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	766	127
80	1380	1078
75	1760	1550
70	1974	1842
65	2126	2041
60	2247	2187
55	2339	2294
50	2407	2366
45	2461	2422

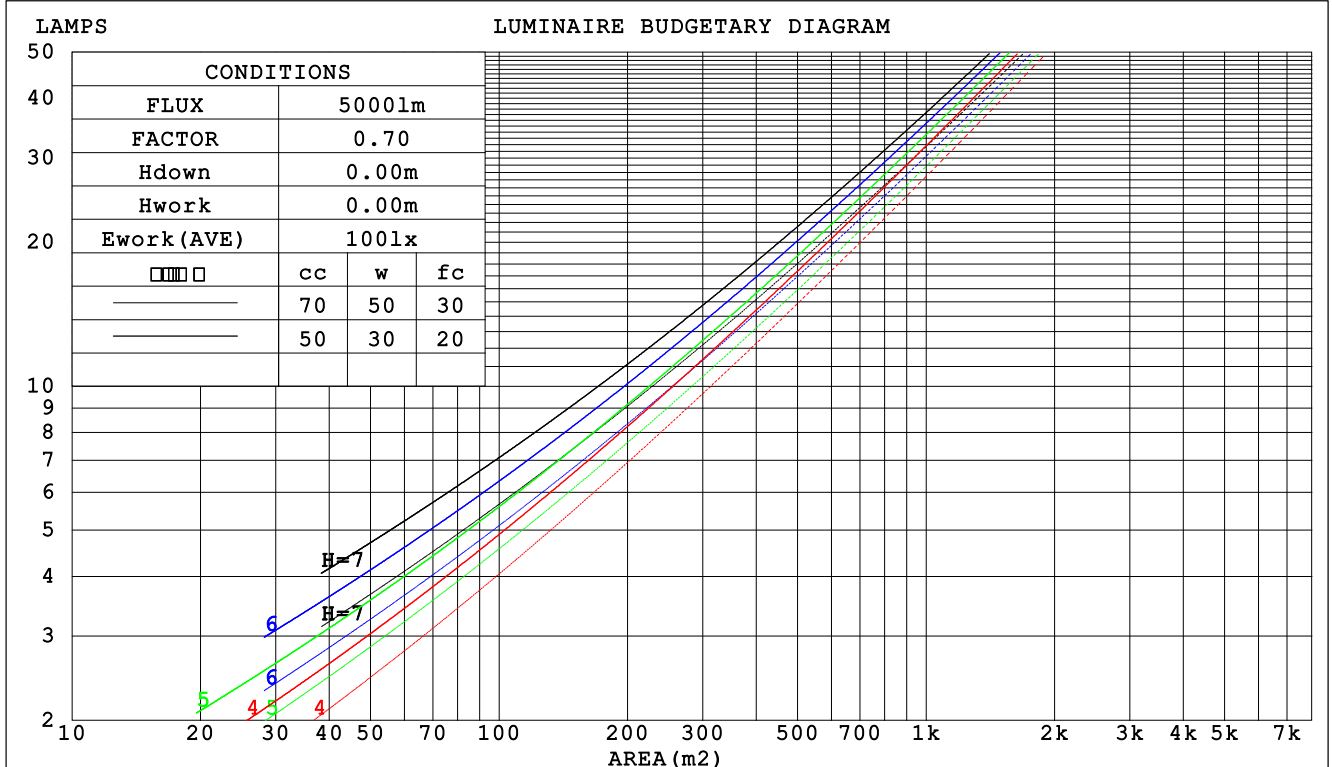
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-10-18

☐ Range: 0 - 90DEG  
☐ Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:3.080m [K=1.0000]  
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.01V I:0.1260A P:11.710W PF:0.9255 Freq:59.98Hz Lamp Flux:811.329x1 lm		
NAME: RSD-6-TUN-WH	TYPE:	WEIGHT:
SPEC.:2700K 90	DIM.:	SERIAL No.:
MFR.:	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: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2021-10-18

□ Range: 0 - 90DEG  
□ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.421  
Humidity:65.0%  
Test Distance:3.080m [K=1.0000]  
Remarks:

## WEC AND CCEC

Test:U:120.01V I:0.1260A P:11.710W PF:0.9255 Freq:59.98Hz Lamp Flux:811.329x1 lm		
NAME: RSD-6-TUN-WH	TYPE:	WEIGHT:
SPEC.:2700K 90	DIM.:	SERIAL No.:
MFR.:	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	.296 .168 .053	.289 .165 .052	.276 .158 .051	.264 .152 .049	.253 .146 .047	
2.0	.283 .155 .048	.277 .153 .047	.265 .148 .046	.255 .143 .045	.245 .138 .044	
3.0	.264 .140 .042	.259 .138 .042	.248 .135 .041	.239 .131 .040	.230 .127 .039	
4.0	.245 .127 .037	.240 .126 .037	.231 .122 .037	.222 .119 .036	.214 .117 .035	
5.0	.227 .116 .034	.223 .114 .033	.215 .112 .033	.207 .109 .033	.200 .107 .032	
6.0	.211 .106 .030	.207 .105 .030	.200 .102 .030	.193 .100 .030	.187 .098 .029	
7.0	.197 .097 .028	.193 .096 .027	.187 .094 .027	.181 .093 .027	.175 .091 .027	
8.0	.184 .090 .025	.181 .089 .025	.175 .088 .025	.170 .086 .025	.165 .085 .025	
9.0	.173 .083 .023	.170 .083 .023	.165 .081 .023	.160 .080 .023	.155 .079 .023	
10.0	.162 .078 .022	.160 .077 .022	.155 .076 .021	.151 .075 .021	.147 .074 .021	

<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	.179 .156 .135	.153 .134 .117	.105 .092 .081	.060 .053 .047	.019 .017 .015	
2.0	.171 .132 .099	.147 .114 .086	.100 .079 .060	.058 .046 .035	.019 .015 .011	
3.0	.163 .114 .075	.140 .099 .065	.096 .068 .046	.056 .040 .027	.018 .013 .009	
4.0	.156 .101 .059	.134 .087 .051	.092 .061 .036	.053 .036 .021	.017 .012 .007	
5.0	.148 .090 .048	.127 .078 .041	.088 .055 .029	.051 .032 .017	.016 .010 .006	
6.0	.141 .082 .040	.121 .071 .034	.084 .050 .024	.049 .029 .014	.016 .010 .005	
7.0	.135 .075 .033	.116 .065 .029	.080 .046 .021	.046 .027 .012	.015 .009 .004	
8.0	.128 .069 .029	.110 .060 .025	.076 .042 .018	.044 .025 .011	.014 .008 .004	
9.0	.122 .064 .025	.105 .056 .022	.073 .039 .016	.042 .023 .009	.014 .008 .003	
10.0	.117 .060 .023	.101 .052 .020	.070 .037 .014	.041 .022 .008	.013 .007 .003	

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2021-10-18

☐ Range: 0 - 90DEG  
☐ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.421  
Humidity:65.0%  
Test Distance:3.080m [K=1.0000]  
Remarks:

### UGR(Unified Glare Rating) Table

Test:U:120.01V I:0.1260A P:11.710W PF:0.9255 Freq:59.98Hz Lamp Flux:811.329x1 lm										
NAME: RSD-6-TUN-WH					TYPE:			WEIGHT:		
SPEC.:2700K 90					DIM.:			SERIAL No.:		
MFR.:					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	16.6	18.1	16.8	18.3	18.5	16.5	18.0	16.7	18.2	18.4
3H	18.0	19.4	18.3	19.6	19.8	17.8	19.2	18.1	19.4	19.6
4H	18.5	19.8	18.8	20.1	20.3	18.2	19.6	18.5	19.8	20.1
6H	18.8	20.1	19.1	20.3	20.6	18.5	19.7	18.8	20.0	20.2
8H	18.9	20.0	19.2	20.3	20.6	18.5	19.7	18.8	19.9	20.2
12H	18.8	20.0	19.2	20.3	20.6	18.4	19.6	18.8	19.9	20.2
4H 2H	17.1	18.4	17.4	18.7	18.9	17.0	18.3	17.3	18.6	18.9
3H	18.7	19.9	19.1	20.1	20.4	18.5	19.7	18.9	20.0	20.3
4H	19.3	20.4	19.7	20.7	21.0	19.1	20.1	19.5	20.5	20.8
6H	19.8	20.7	20.1	21.0	21.4	19.4	20.3	19.8	20.7	21.0
8H	19.8	20.7	20.2	21.0	21.4	19.4	20.3	19.8	20.7	21.0
12H	19.8	20.6	20.2	21.0	21.4	19.4	20.2	19.8	20.6	21.0
8H 4H	19.5	20.4	19.9	20.8	21.1	19.3	20.2	19.7	20.5	20.9
6H	20.0	20.7	20.5	21.1	21.6	19.7	20.4	20.1	20.8	21.2
8H	20.1	20.7	20.6	21.2	21.6	19.8	20.4	20.2	20.8	21.3
12H	20.2	20.7	20.6	21.1	21.6	19.7	20.3	20.2	20.7	21.2
12H 4H	19.5	20.3	19.9	20.7	21.1	19.3	20.1	19.7	20.5	20.9
6H	20.0	20.7	20.5	21.1	21.5	19.7	20.3	20.2	20.8	21.2
8H	20.1	20.7	20.6	21.1	21.6	19.8	20.3	20.3	20.8	21.3
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				
2.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.3				

CIE Pub.117, 811.3 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.7)  
Area: 0.111111 m2

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2021-10-18

☐ Range: 0 - 90DEG  
☐ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.421  
Humidity:65.0%  
Test Distance:3.080m [K=1.0000]  
Remarks:

### UTILIZATION FACTORS TABLE

Test:U:120.01V I:0.1260A P:11.710W PF:0.9255 Freq:59.98Hz Lamp Flux:811.329x1 lm		
NAME: RSD-6-TUN-WH	TYPE:	WEIGHT:
SPEC.:2700K 90	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

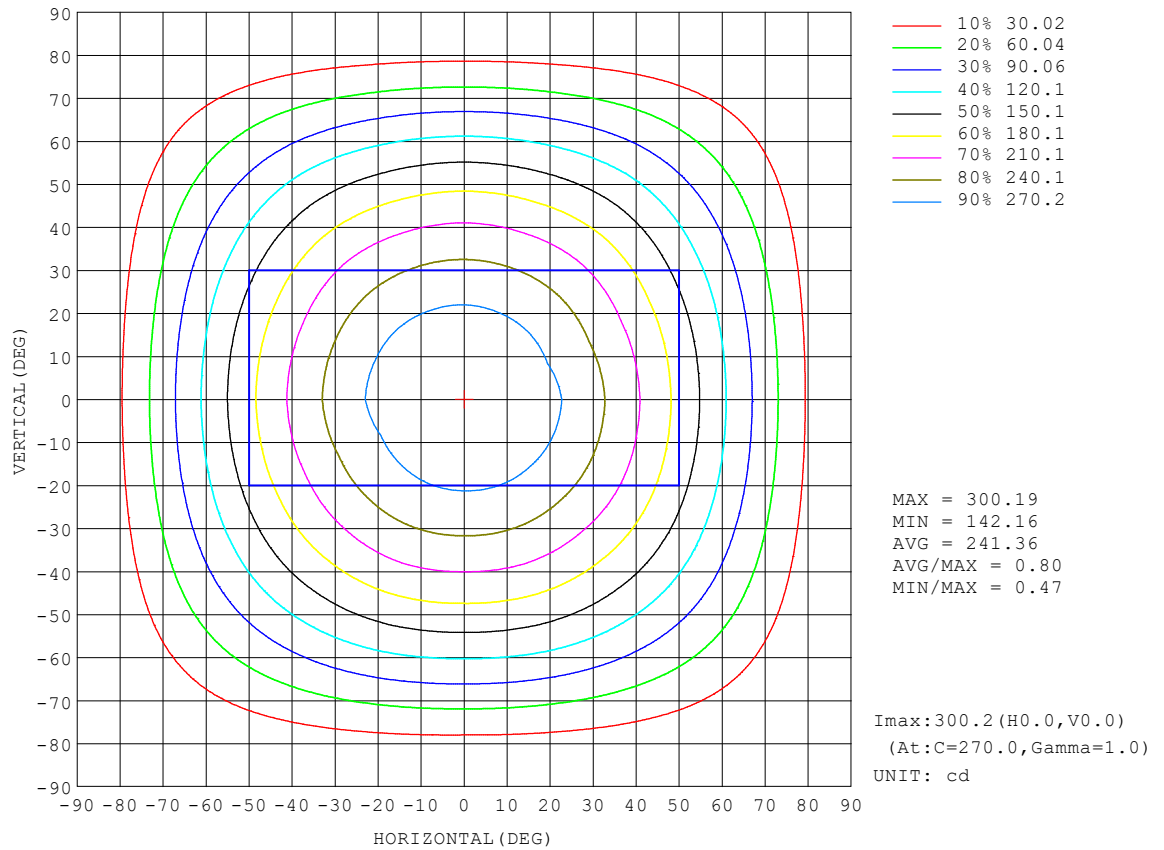
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	58	47	40	57	47	40	56	46	40	33
0.80	68	57	50	67	56	49	66	56	49	42
1.00	77	66	59	76	65	59	73	67	58	51
1.25	84	74	67	83	73	66	80	72	66	58
1.50	89	79	72	87	78	72	84	77	71	64
2.00	96	87	81	94	86	80	91	84	79	71
2.50	100	92	86	98	91	85	94	88	83	75
3.00	103	96	91	101	95	90	97	92	88	79
4.00	107	101	97	104	100	96	100	96	93	84
5.00	109	105	101	107	103	99	102	99	96	87
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-10-18

☐ Range: 0 - 90DEG  
☐ Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:3.080m [K=1.0000]  
 Remarks:

### ISOCANDELA DIAGRAM

Test:U:120.01V I:0.1260A P:11.710W PF:0.9255 Freq:59.98Hz Lamp Flux:811.329x1 lm		
NAME: RSD-6-TUN-WH	TYPE:	WEIGHT:
SPEC.:2700K 90	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



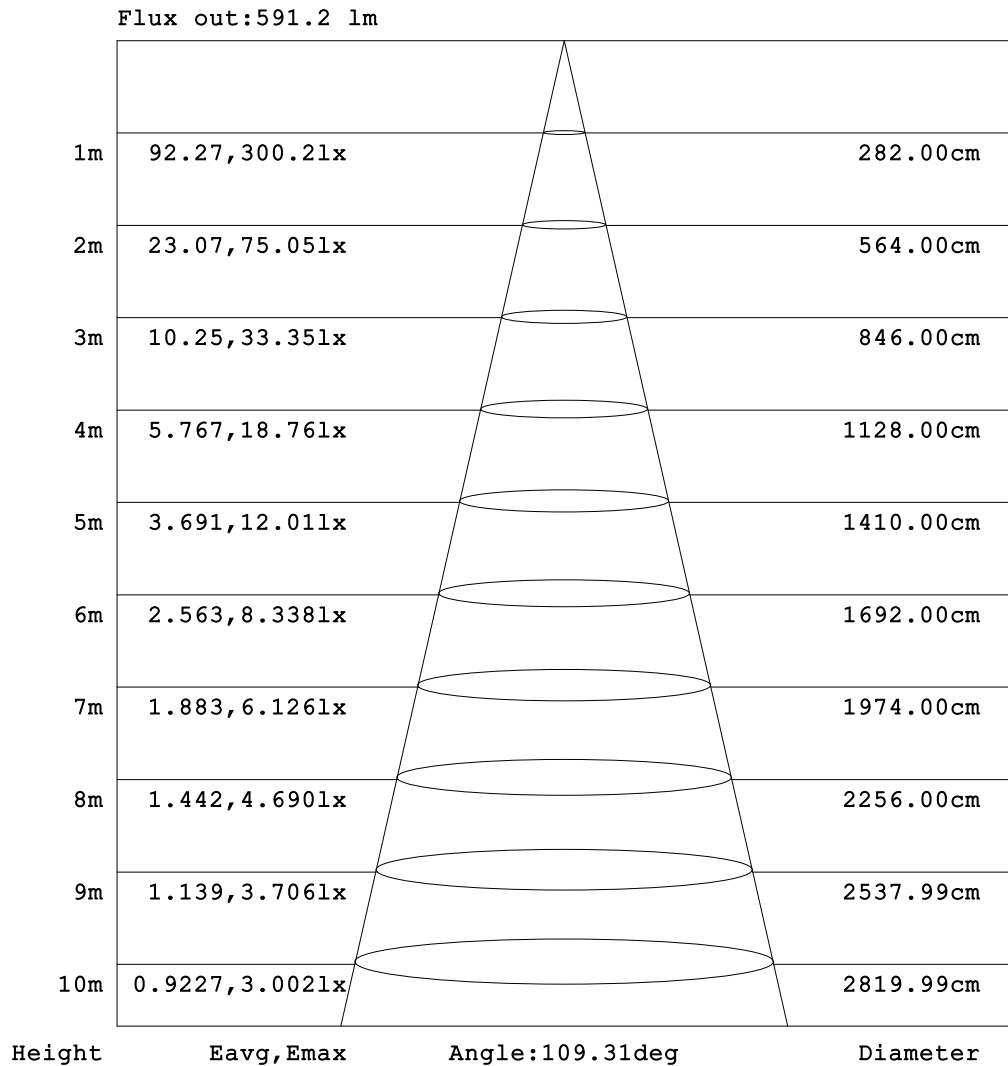
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-10-18

☐ Range: 0 - 90DEG  
☐ Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:3.080m [K=1.0000]  
 Remarks:



**AAI Figure**

Test:U:120.01V I:0.1260A P:11.710W PF:0.9255 Freq:59.98Hz Lamp Flux:811.329x1 lm		
NAME: RSD-6-TUN-WH	TYPE:	WEIGHT:
SPEC.:2700K 90	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



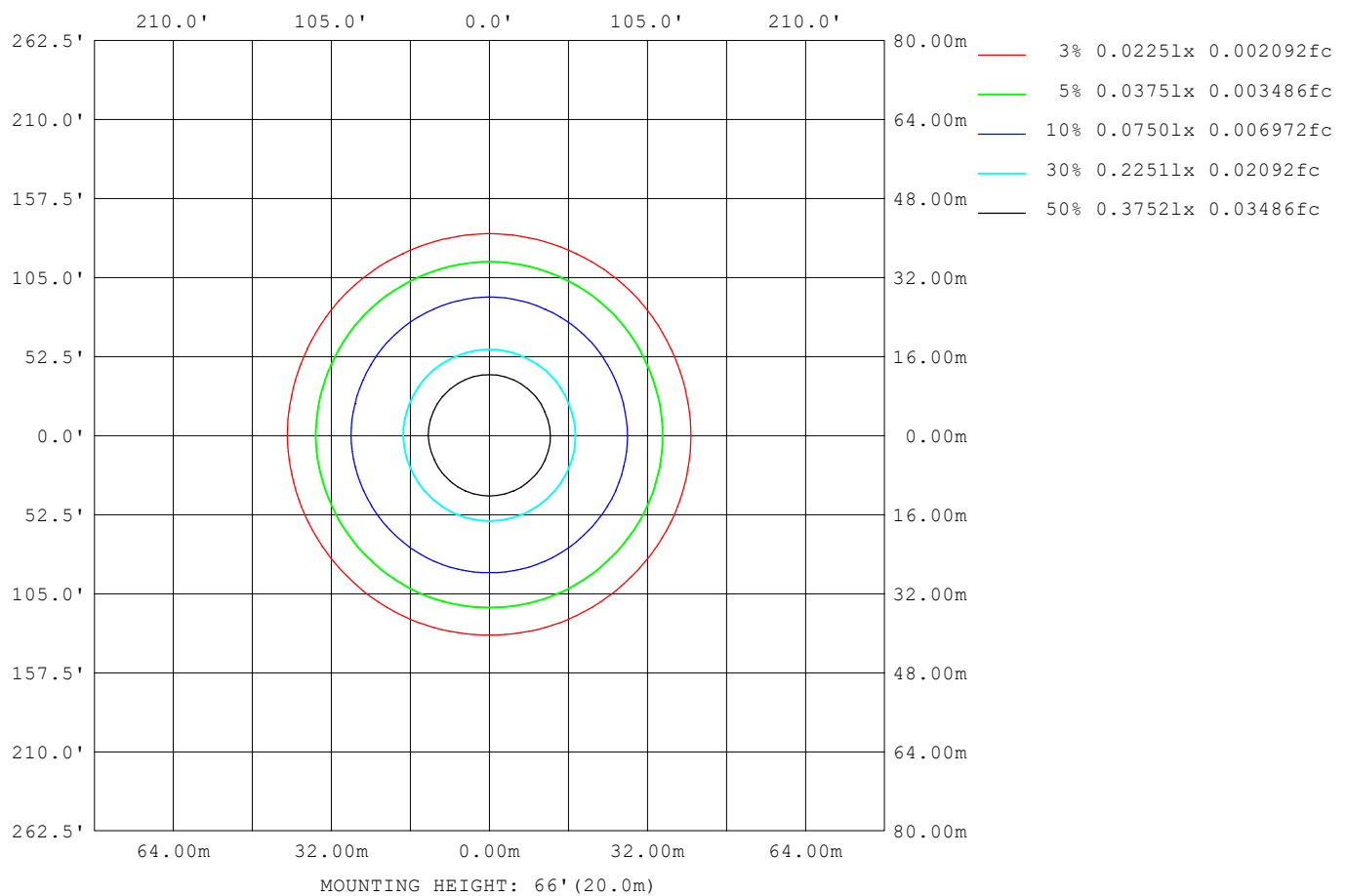
**Note:**The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-10-18

☐ Range: 0 - 90DEG  
☐ Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:3.080m [K=1.0000]  
 Remarks:

**ISOLUX DIAGRAM**

Test:U:120.01V I:0.1260A P:11.710W PF:0.9255 Freq:59.98Hz Lamp Flux:811.329x1 lm		
NAME: RSD-6-TUN-WH	TYPE:	WEIGHT:
SPEC.:2700K 90	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-10-18

☐ Range: 0 - 90DEG  
☐ Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:3.080m [K=1.0000]  
 Remarks:

### LED Avg.L Report

Test:U:120.01V I:0.1260A P:11.710W PF:0.9255 Freq:59.98Hz Lamp Flux:811.329x1 lm		
NAME: RSD-6-TUN-WH	TYPE:	WEIGHT:
SPEC.:2700K 90	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

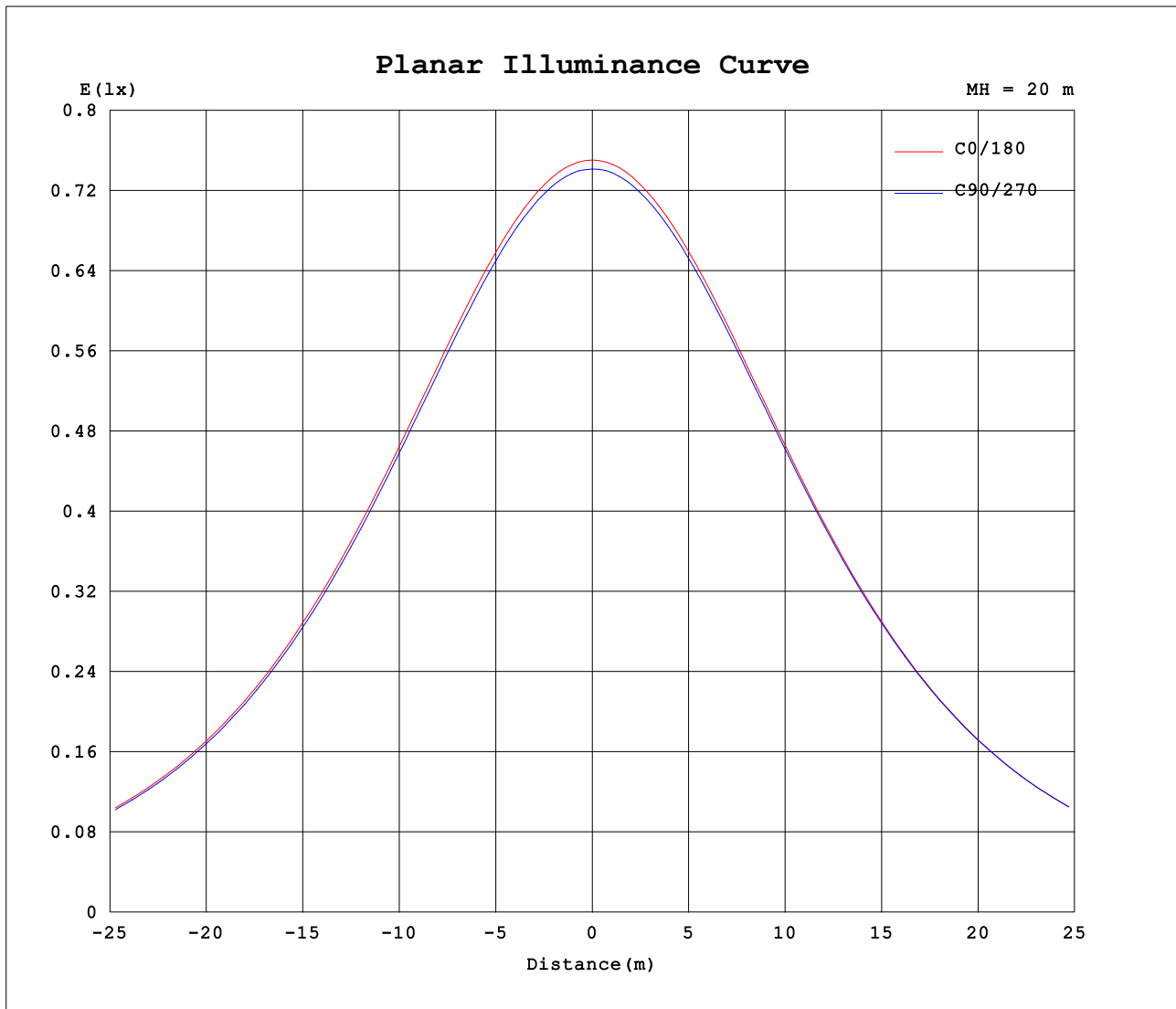
AvgL	cd/m2
L_0~180 (65) av	2116
L_0~180 (75) av	1754
L_0~180 (85) av	790
L_90~270 (65) av	2090
L_90~270 (75) av	1607
L_90~270 (85) av	162
L_45 (65) av	2111
L_45 (75) av	1682
L_45 (85) av	452

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2021-10-18

☐ Range: 0 - 90DEG  
☐ Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.421  
Humidity:65.0%  
Test Distance:3.080m [K=1.0000]  
Remarks:

### Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2021-10-18

☐ Range: 0 - 90DEG  
☐ Interval: 1.0DEG  
 Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.421  
 Humidity: 65.0%  
 Test Distance: 3.080m [K=1.0000]  
 Remarks:

☐ Range: 0 - 90DEG  
☐ Interval: 1.0DEG  
 Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.00.421  
 Humidity:65.0%  
 Test Distance:3.080m [K=1.0000]  
 Remarks: