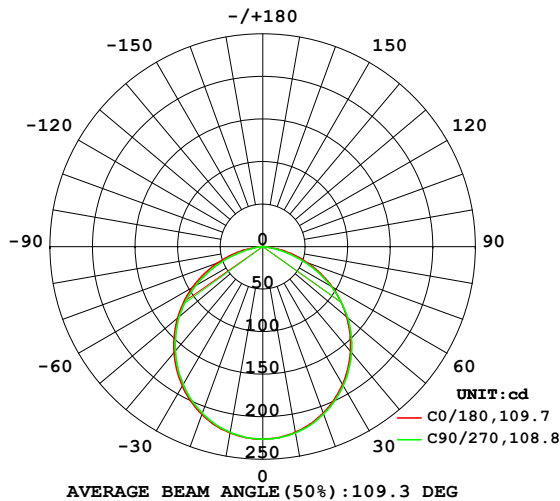


LUMINAIRE PHOTOMETRIC TEST REPORT

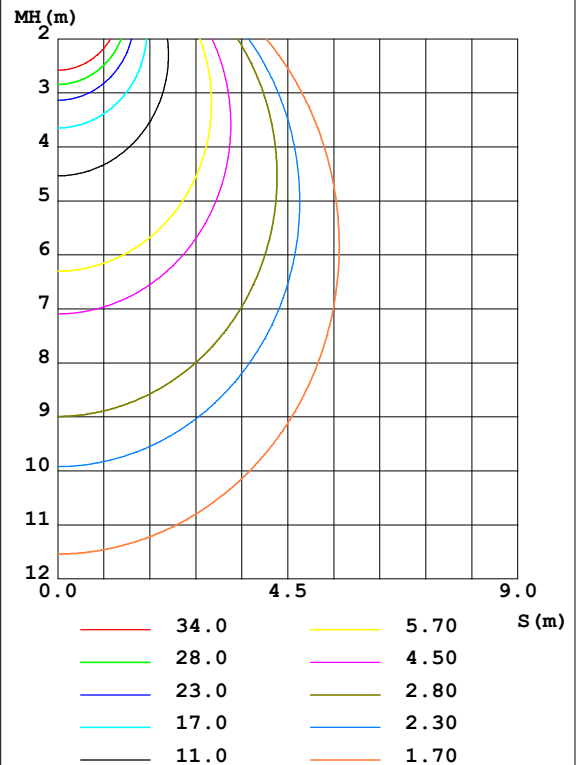
Test:U:119.99V I:0.1001A P:8.8471W PF:0.8926 Freq:59.98Hz Lamp Flux:608.526x1 lm					
NAME: RSD-4-TUN-WH		TYPE:		WEIGHT:	
SPEC.:4000K 90		DIM.:		SERIAL No.:	
MFR.:		SUR.:		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 68.78 lm/W
MODEL		I <sub>max</sub> (cd)	226.3	S/MH (C0/180)	1.24	
NOMINAL POWER (W)	9	LOR (%)	100.0	S/MH (C90/270)	1.24	
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	608.53	□ UP, DN (C0-180)	0.0, 50.3	
NOMINAL FLUX (lm)	608.526	CIE CLASS	DIRECT	□ UP, DN (C180-360)	0.0, 49.7	
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:

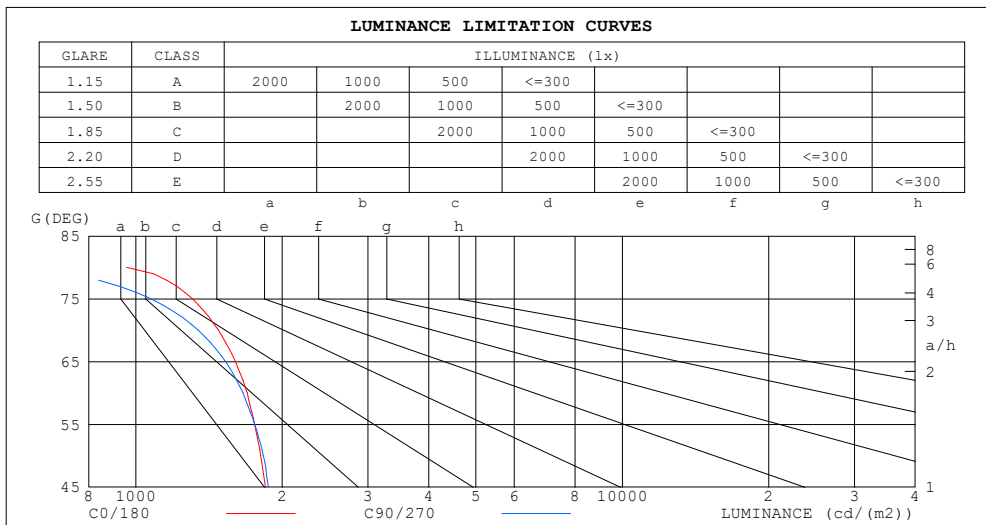
°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	221.4	221.8	222.2	222.3	222.2	221.6	221.4	221.4	0- 10	21.38	21.38	3.51,3.51
20	208.1	208.7	209.4	209.7	209.8	208.8	208.3	208.3	10- 20	61.06	82.44	13.5,13.5
30	187.2	188.0	188.9	189.4	189.2	187.8	187.1	187.3	20- 30	91.85	174.3	28.6,28.6
40	160.4	161.2	162.3	162.8	162.3	160.6	160.0	160.3	30- 40	109.7	284.0	46.7,46.7
50	128.9	129.8	130.7	131.5	130.7	128.8	128.1	128.5	40- 50	112.6	396.5	65.2,65.2
60	94.09	93.57	92.31	95.06	95.26	92.44	90.07	92.46	50- 60	99.97	496.5	81.6,81.6
70	56.15	53.36	51.08	54.77	56.93	52.37	49.05	52.71	60- 70	72.57	569.0	93.5,93.5
80	18.45	15.12	12.14	15.67	18.42	14.14	10.49	14.45	70- 80	35.59	604.6	99.4,99.4
90	0.0858	0.0691	0.0571	0.0671	0.1468	0.1298	0.1175	0.1362	80- 90	3.893	608.5	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		

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:119.99V I:0.1001A P:8.8471W PF:0.8926 Freq:59.98Hz Lamp Flux:608.526x1 lm		
NAME: RSD-4-TUN-WH	TYPE:	WEIGHT:
SPEC.:4000K 90	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	227	52
80	957	629
75	1307	1074
70	1478	1344
65	1603	1529
60	1694	1661
55	1755	1756
50	1806	1830
45	1848	1872

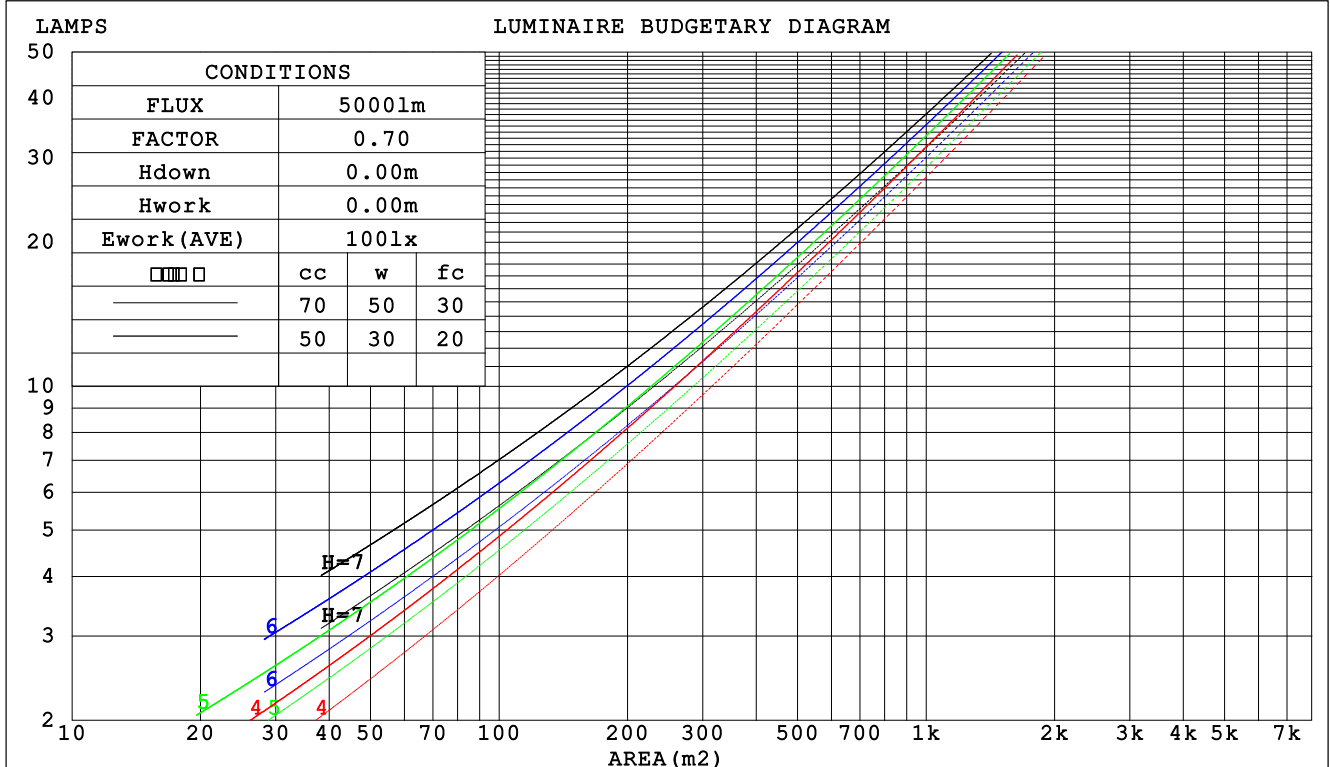
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-10-18

☐ 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:119.99V I:0.1001A P:8.8471W PF:0.8926 Freq:59.98Hz Lamp Flux:608.526x1 lm		
NAME: RSD-4-TUN-WH	TYPE:	WEIGHT:
SPEC.:4000K 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:119.99V I:0.1001A P:8.8471W PF:0.8926 Freq:59.98Hz Lamp Flux:608.526x1 lm		
NAME: RSD-4-TUN-WH	TYPE:	WEIGHT:
SPEC.:4000K 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	.290 .165 .052	.283 .161 .051	.270 .155 .049	.257 .148 .048	.246 .143 .046	
2.0	.279 .153 .047	.273 .150 .046	.261 .145 .045	.250 .141 .044	.241 .136 .043	
3.0	.261 .139 .042	.256 .137 .041	.245 .133 .040	.236 .129 .040	.227 .126 .039	
4.0	.243 .126 .037	.238 .124 .037	.229 .121 .036	.220 .118 .036	.212 .115 .035	
5.0	.225 .115 .033	.221 .114 .033	.213 .111 .033	.206 .108 .032	.198 .106 .032	
6.0	.210 .105 .030	.206 .104 .030	.199 .102 .030	.192 .100 .029	.186 .098 .029	
7.0	.196 .097 .027	.192 .096 .027	.186 .094 .027	.180 .092 .027	.174 .091 .027	
8.0	.183 .089 .025	.180 .089 .025	.174 .087 .025	.169 .086 .025	.164 .084 .025	
9.0	.172 .083 .023	.169 .082 .023	.164 .081 .023	.159 .080 .023	.155 .079 .023	
10.0	.162 .078 .022	.159 .077 .021	.155 .076 .021	.150 .075 .021	.146 .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 .136	.153 .134 .117	.105 .092 .081	.060 .053 .047	.019 .017 .015	
2.0	.171 .132 .100	.146 .114 .086	.100 .079 .060	.058 .046 .035	.019 .015 .011	
3.0	.163 .114 .076	.140 .099 .066	.096 .068 .046	.055 .040 .027	.018 .013 .009	
4.0	.155 .101 .059	.133 .087 .052	.092 .061 .036	.053 .036 .021	.017 .012 .007	
5.0	.148 .090 .048	.127 .078 .042	.088 .055 .029	.051 .032 .017	.016 .010 .006	
6.0	.141 .082 .040	.121 .071 .035	.084 .050 .024	.048 .029 .015	.016 .010 .005	
7.0	.134 .075 .034	.115 .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	.116 .060 .023	.100 .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:119.99V I:0.1001A P:8.8471W PF:0.8926 Freq:59.98Hz Lamp Flux:608.526x1 lm										
NAME: RSD-4-TUN-WH					TYPE:			WEIGHT:		
SPEC.:4000K 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	16.9	18.3	18.5	16.6	18.1	16.8	18.3	18.5
3H	18.0	19.4	18.3	19.6	19.9	17.8	19.2	18.1	19.4	19.7
4H	18.5	19.8	18.8	20.1	20.3	18.2	19.5	18.5	19.8	20.0
6H	18.8	20.1	19.2	20.3	20.6	18.3	19.6	18.7	19.8	20.1
8H	18.8	20.0	19.2	20.3	20.6	18.3	19.5	18.7	19.8	20.1
12H	18.8	19.9	19.1	20.2	20.5	18.3	19.4	18.6	19.7	20.0
4H 2H	17.2	18.5	17.5	18.7	19.0	17.1	18.4	17.4	18.7	18.9
3H	18.8	19.9	19.1	20.2	20.5	18.5	19.7	18.9	20.0	20.3
4H	19.4	20.4	19.7	20.7	21.0	19.0	20.1	19.4	20.4	20.7
6H	19.7	20.7	20.1	21.0	21.4	19.2	20.1	19.6	20.5	20.9
8H	19.8	20.6	20.2	21.0	21.4	19.2	20.1	19.6	20.4	20.8
12H	19.7	20.5	20.2	20.9	21.3	19.2	20.0	19.6	20.3	20.7
8H 4H	19.5	20.4	19.9	20.7	21.1	19.2	20.1	19.6	20.4	20.8
6H	20.0	20.7	20.4	21.1	21.5	19.5	20.2	19.9	20.6	21.0
8H	20.0	20.7	20.5	21.1	21.5	19.5	20.1	19.9	20.5	21.0
12H	20.0	20.6	20.5	21.0	21.5	19.5	20.0	19.9	20.4	20.9
12H 4H	19.5	20.3	19.9	20.7	21.1	19.2	20.0	19.6	20.4	20.8
6H	20.0	20.6	20.4	21.0	21.5	19.5	20.1	19.9	20.5	21.0
8H	20.0	20.6	20.5	21.0	21.5	19.5	20.0	20.0	20.5	21.0
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.3				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.4				
2.0H	+ 0.3 / - 0.3					+ 0.3 / - 0.3				

CIE Pub.117, 608.5 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.7)  
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:119.99V I:0.1001A P:8.8471W PF:0.8926 Freq:59.98Hz Lamp Flux:608.526x1 lm		
NAME: RSD-4-TUN-WH	TYPE:	WEIGHT:
SPEC.:4000K 90	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

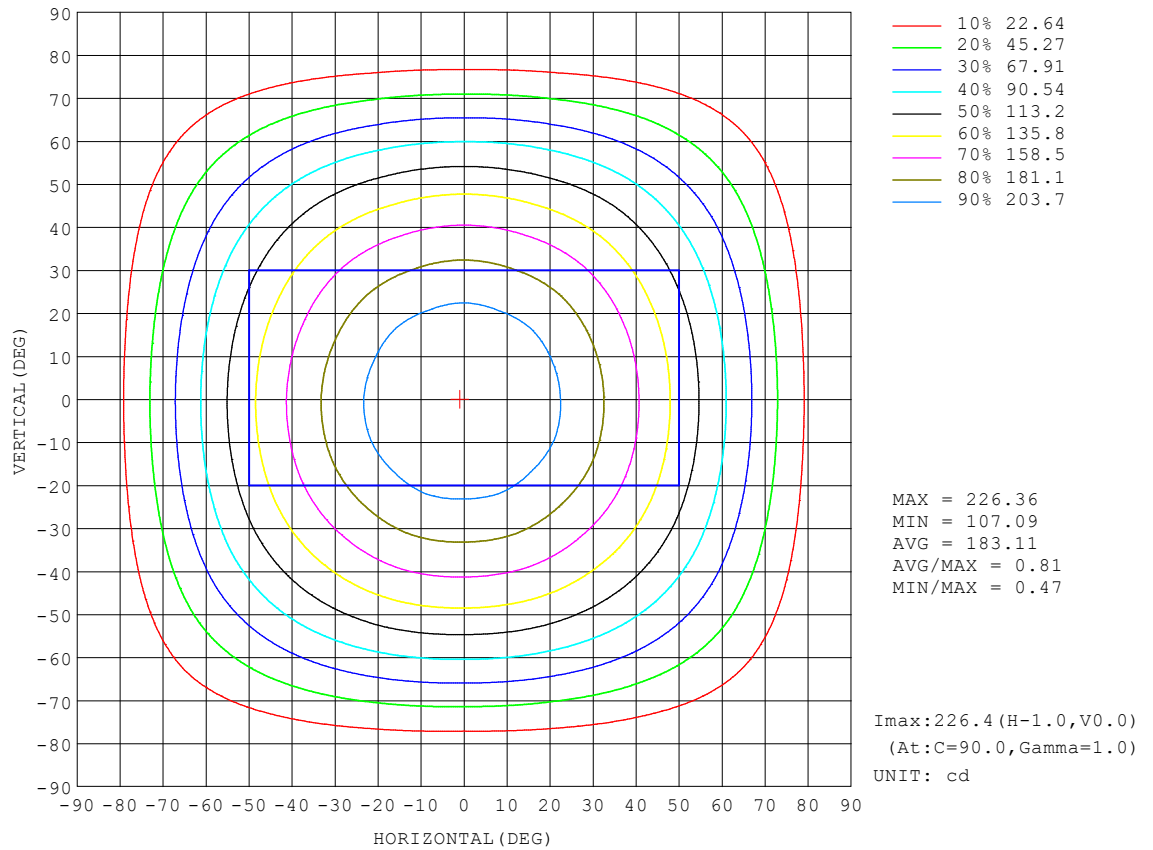
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	59	47	40	58	47	40	57	46	40	34
0.80	69	57	50	68	57	50	66	56	50	43
1.00	77	66	59	76	66	59	74	67	59	52
1.25	84	74	67	83	74	67	80	72	66	59
1.50	89	80	73	88	79	73	85	77	72	64
2.00	96	88	82	94	87	81	91	85	80	72
2.50	100	93	87	98	91	86	94	89	84	76
3.00	103	97	92	101	95	90	97	92	88	80
4.00	107	102	97	105	100	96	101	97	93	85
5.00	109	105	101	107	103	100	103	99	97	88
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:119.99V I:0.1001A P:8.8471W PF:0.8926 Freq:59.98Hz Lamp Flux:608.526x1 lm		
NAME: RSD-4-TUN-WH	TYPE:	WEIGHT:
SPEC.:4000K 90	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



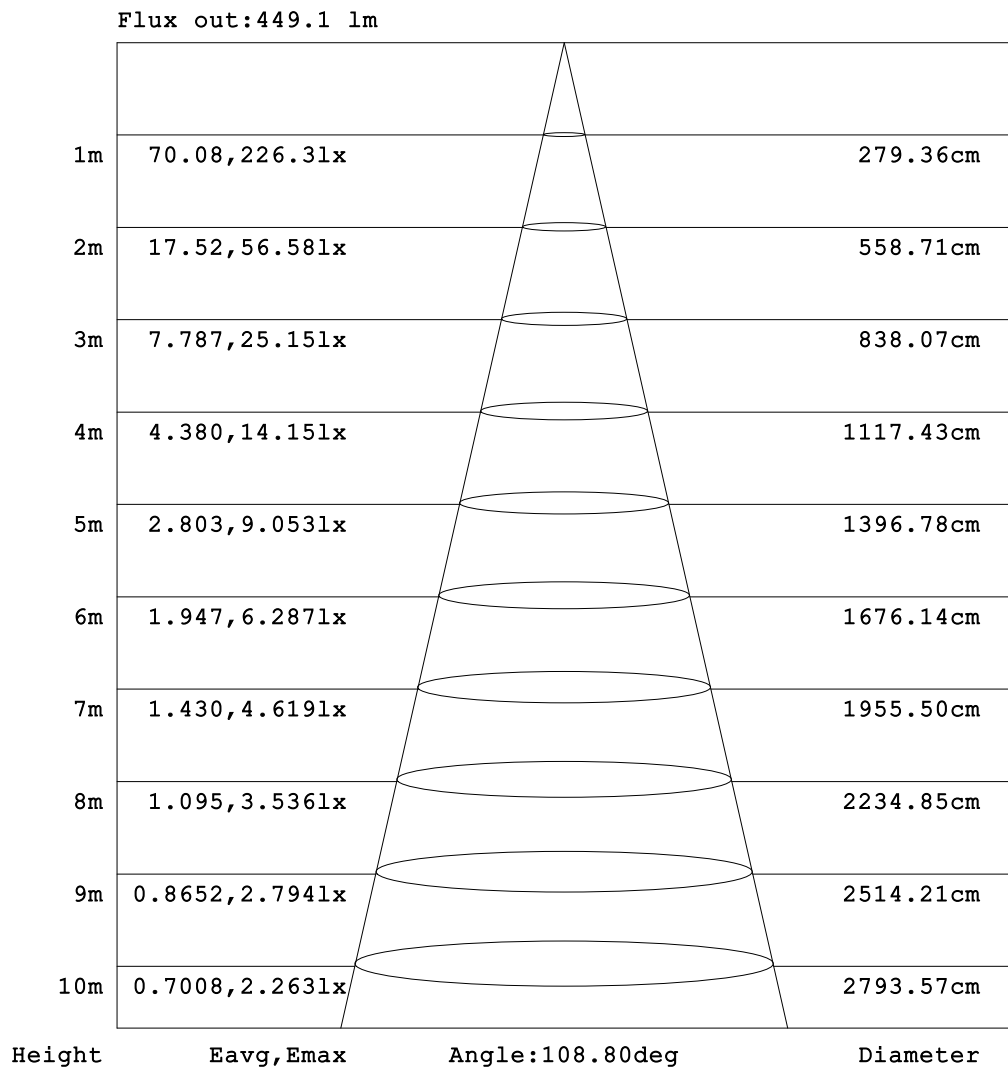
C Range: 0 - 360DEG  
C Interval: 22.5DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:  
Test Date:2021-10-18

☐ 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:119.99V I:0.1001A P:8.8471W PF:0.8926 Freq:59.98Hz Lamp Flux:608.526x1 lm		
NAME: RSD-4-TUN-WH	TYPE:	WEIGHT:
SPEC.:4000K 90	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



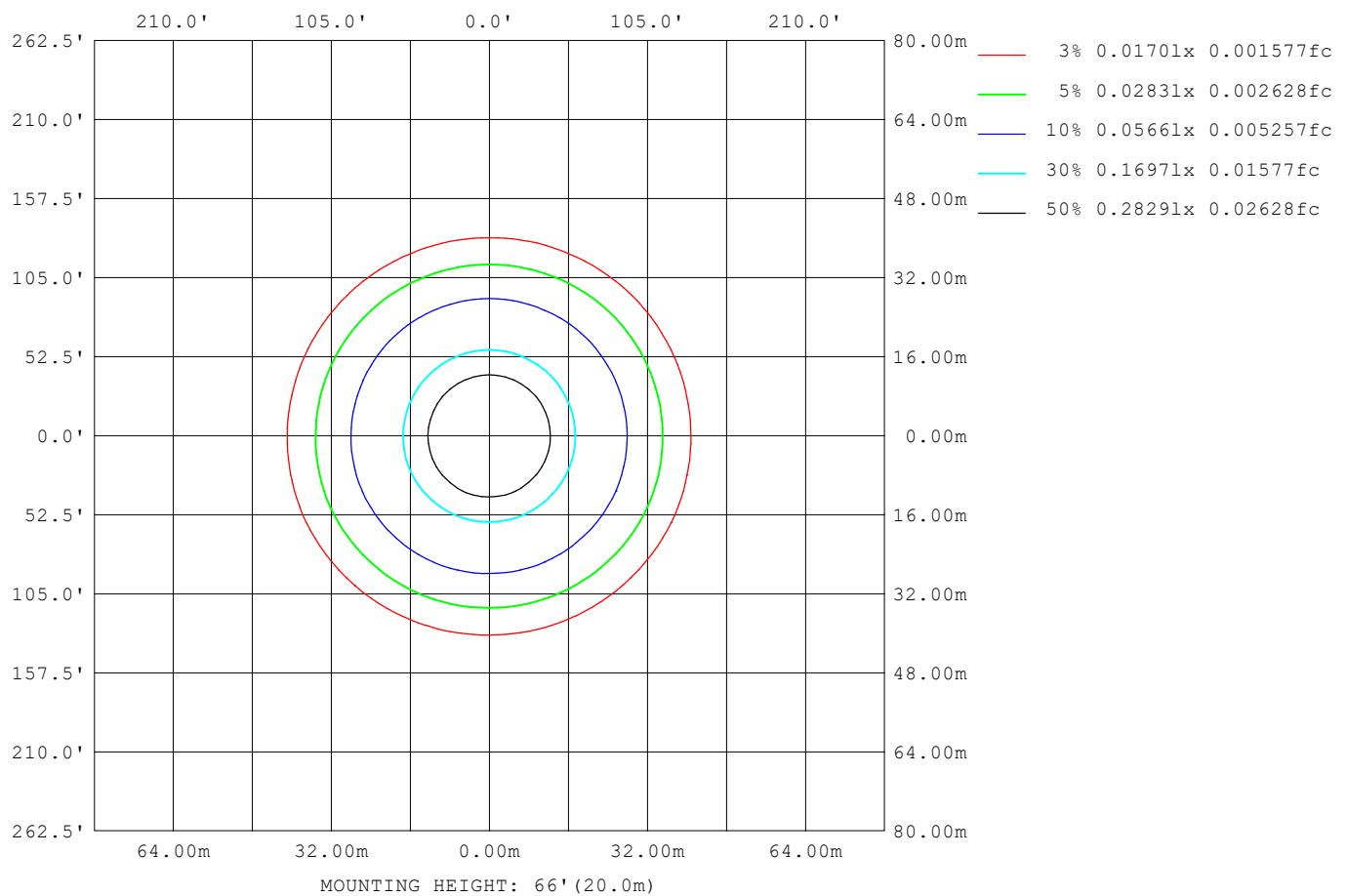
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:119.99V I:0.1001A P:8.8471W PF:0.8926 Freq:59.98Hz Lamp Flux:608.526x1 lm		
NAME: RSD-4-TUN-WH	TYPE:	WEIGHT:
SPEC.:4000K 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:119.99V I:0.1001A P:8.8471W PF:0.8926 Freq:59.98Hz Lamp Flux:608.526x1 lm		
NAME: RSD-4-TUN-WH	TYPE:	WEIGHT:
SPEC.:4000K 90	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

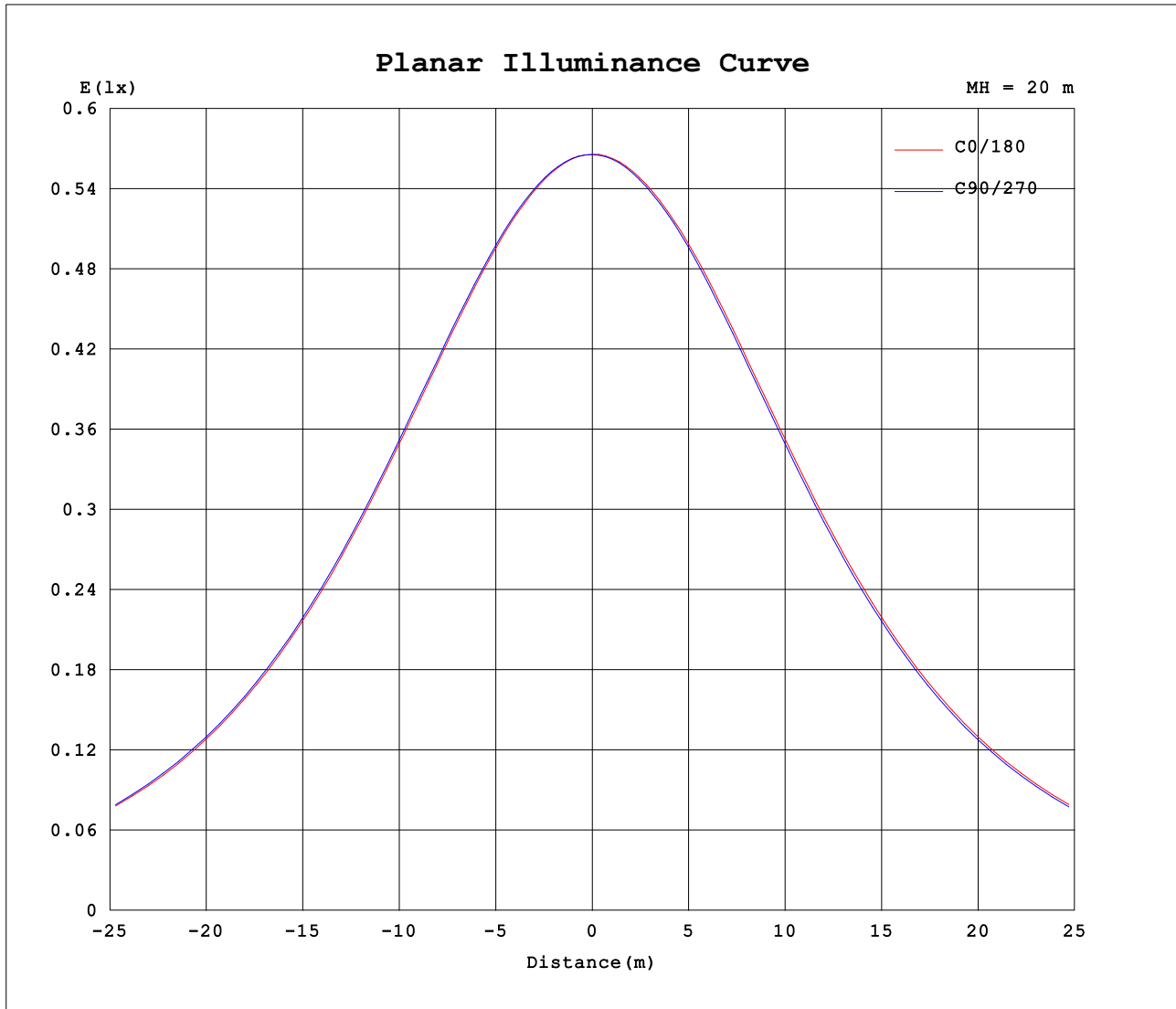
AvgL	cd/m2
L_0~180 (65) av	1612
L_0~180 (75) av	1317
L_0~180 (85) av	209
L_90~270 (65) av	1507
L_90~270 (75) av	1039
L_90~270 (85) av	48
L_45 (65) av	1566
L_45 (75) av	1161
L_45 (85) av	78

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: