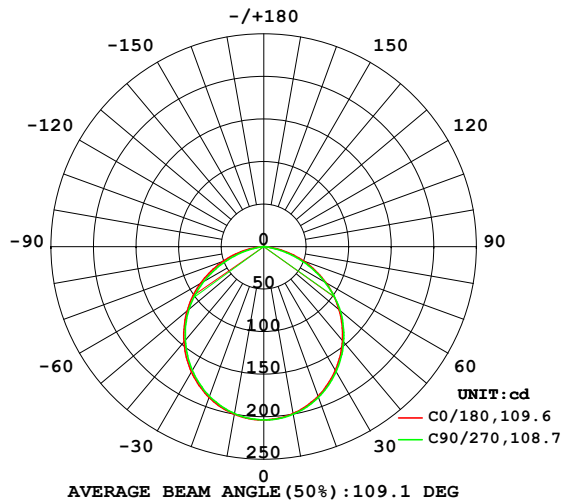


LUMINAIRE PHOTOMETRIC TEST REPORT

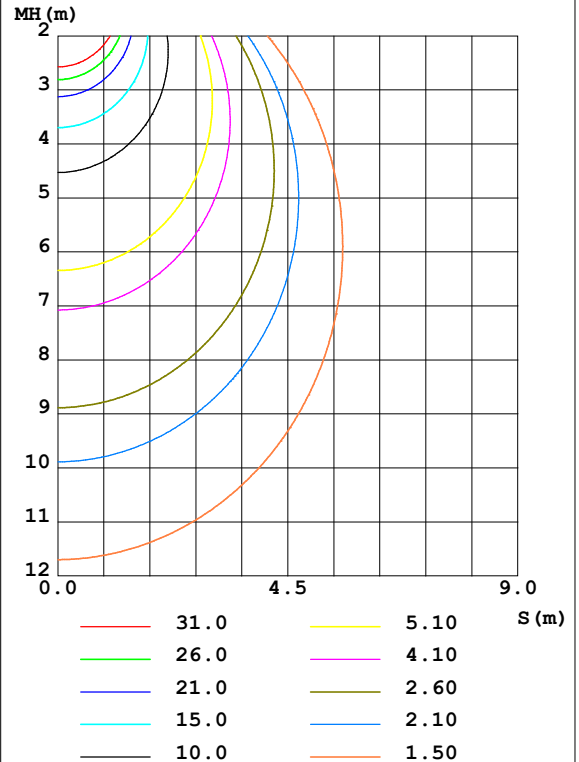
Test:U:119.96V I:0.1008A P:8.9087W PF:0.8918 Freq:59.98Hz Lamp Flux:546.559x1 lm					
NAME: RSD-4-TUN-WH		TYPE:		WEIGHT:	
SPEC.:2700K 90		DIM.:		SERIAL No.:	
MFR.:		SUR.:		Shielding Angle:	

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 61.35 lm/W
MODEL		I _{max} (cd)	203.7	S/MH (C0/180)	1.24	
NOMINAL POWER(W)	9	LOR(%)	100.0	S/MH (C90/270)	1.23	
RATED VOLTAGE(V)	120	TOTAL FLUX (lm)	546.56	□ UP,DN (C0-180)	0.0,50.3	
NOMINAL FLUX(lm)	546.559	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:

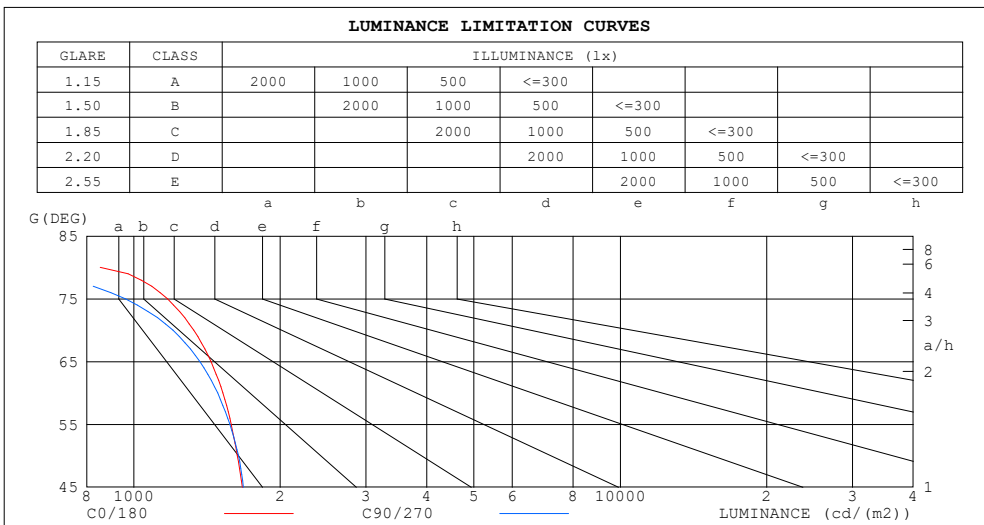
°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	199.2	199.5	199.9	200.1	200.0	199.6	199.2	199.1	0- 10	19.24	19.24	3.52,3.52
20	187.0	187.6	188.4	188.8	188.5	187.6	187.0	186.8	10- 20	54.88	74.13	13.6,13.6
30	168.2	168.9	170.0	170.5	170.1	168.8	168.0	167.9	20- 30	82.54	156.7	28.7,28.7
40	144.0	144.8	146.0	146.6	146.0	144.4	143.6	143.7	30- 40	98.54	255.2	46.7,46.7
50	115.6	116.5	117.4	118.3	117.6	115.8	115.0	115.1	40- 50	101.1	356.3	65.2,65.2
60	84.03	83.68	82.76	85.48	85.73	83.20	80.84	82.74	50- 60	89.78	446.1	81.6,81.6
70	50.05	47.66	45.79	49.16	51.28	47.21	44.07	47.17	60- 70	65.08	511.2	93.5,93.5
80	16.32	13.46	10.85	14.05	17.26	12.84	9.394	12.87	70- 80	31.92	543.1	99.4,99.4
90	0.0732	0.0609	0.0495	0.0577	0.1275	0.1179	0.1057	0.1174	80- 90	3.475	546.6	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:119.96V I:0.1008A P:8.9087W PF:0.8918 Freq:59.98Hz Lamp Flux:546.559x1 lm		
NAME: RSD-4-TUN-WH	TYPE:	WEIGHT:
SPEC.:2700K 90	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	201	46
80	853	561
75	1173	960
70	1328	1203
65	1441	1368
60	1525	1487
55	1585	1575
50	1632	1641
45	1671	1681

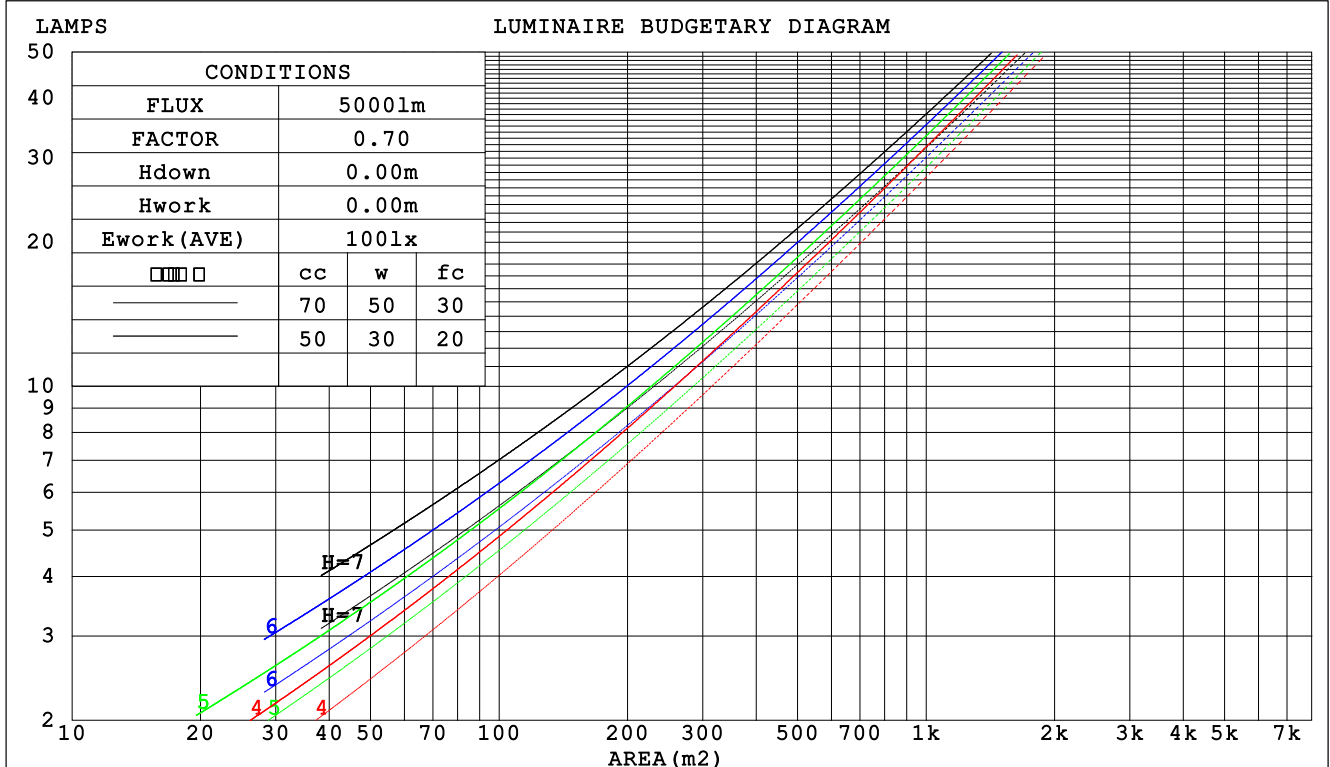
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-10-18

☐ 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:119.96V I:0.1008A P:8.9087W PF:0.8918 Freq:59.98Hz Lamp Flux:546.559x1 lm		
NAME: RSD-4-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:119.96V I:0.1008A P:8.9087W PF:0.8918 Freq:59.98Hz Lamp Flux:546.559x1 lm					
NAME: RSD-4-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	.290	.165	.052	.283	.161	.051	.269	.155	.049	.257	.148	.048	.246	.143	.046															
2.0	.279	.153	.047	.273	.150	.046	.261	.145	.045	.250	.140	.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	.113	.033	.213	.111	.033	.205	.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	.090	.027															
8.0	.183	.089	.025	.180	.089	.025	.174	.087	.025	.169	.086	.025	.164	.084	.024															
9.0	.172	.083	.023	.169	.082	.023	.164	.081	.023	.159	.080	.023	.155	.078	.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:119.96V I:0.1008A P:8.9087W PF:0.8918 Freq:59.98Hz Lamp Flux:546.559x1 lm										
NAME: RSD-4-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	16.9	18.3	18.5	16.6	18.0	16.8	18.2	18.5
3H	18.0	19.4	18.3	19.6	19.9	17.8	19.2	18.1	19.4	19.6
4H	18.5	19.8	18.9	20.1	20.4	18.2	19.5	18.5	19.7	20.0
6H	18.8	20.1	19.2	20.3	20.6	18.3	19.5	18.7	19.8	20.1
8H	18.8	20.0	19.2	20.3	20.6	18.3	19.5	18.6	19.8	20.1
12H	18.8	19.9	19.1	20.2	20.5	18.2	19.4	18.6	19.7	20.0
4H 2H	17.2	18.5	17.5	18.8	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	20.0	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	20.8
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	19.9	19.6	20.3	20.7
8H 4H	19.5	20.4	19.9	20.7	21.1	19.2	20.0	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	20.6	20.5	21.1	21.5	19.5	20.1	19.9	20.5	21.0
12H	20.0	20.5	20.5	21.0	21.5	19.4	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	20.3	20.7
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	20.9
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, 546.6 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.1)
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:119.96V I:0.1008A P:8.9087W PF:0.8918 Freq:59.98Hz Lamp Flux:546.559x1 lm		
NAME: RSD-4-TUN-WH	TYPE:	WEIGHT:
SPEC.:2700K 90	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

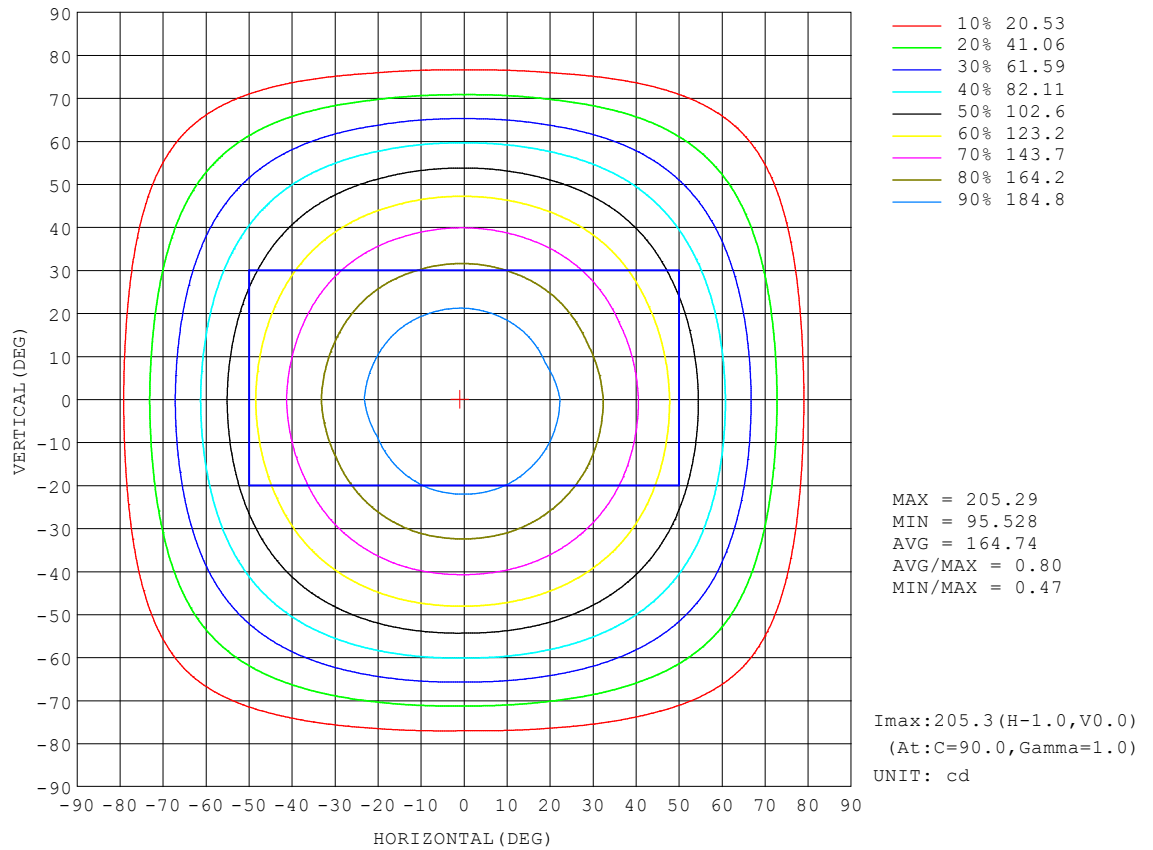
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	59	47	40	58	47	40	57	46	40	34
0.80	69	57	50	68	57	50	66	56	50	43
1.00	77	67	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:119.96V I:0.1008A P:8.9087W PF:0.8918 Freq:59.98Hz Lamp Flux:546.559x1 lm		
NAME: RSD-4-TUN-WH	TYPE:	WEIGHT:
SPEC.:2700K 90	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

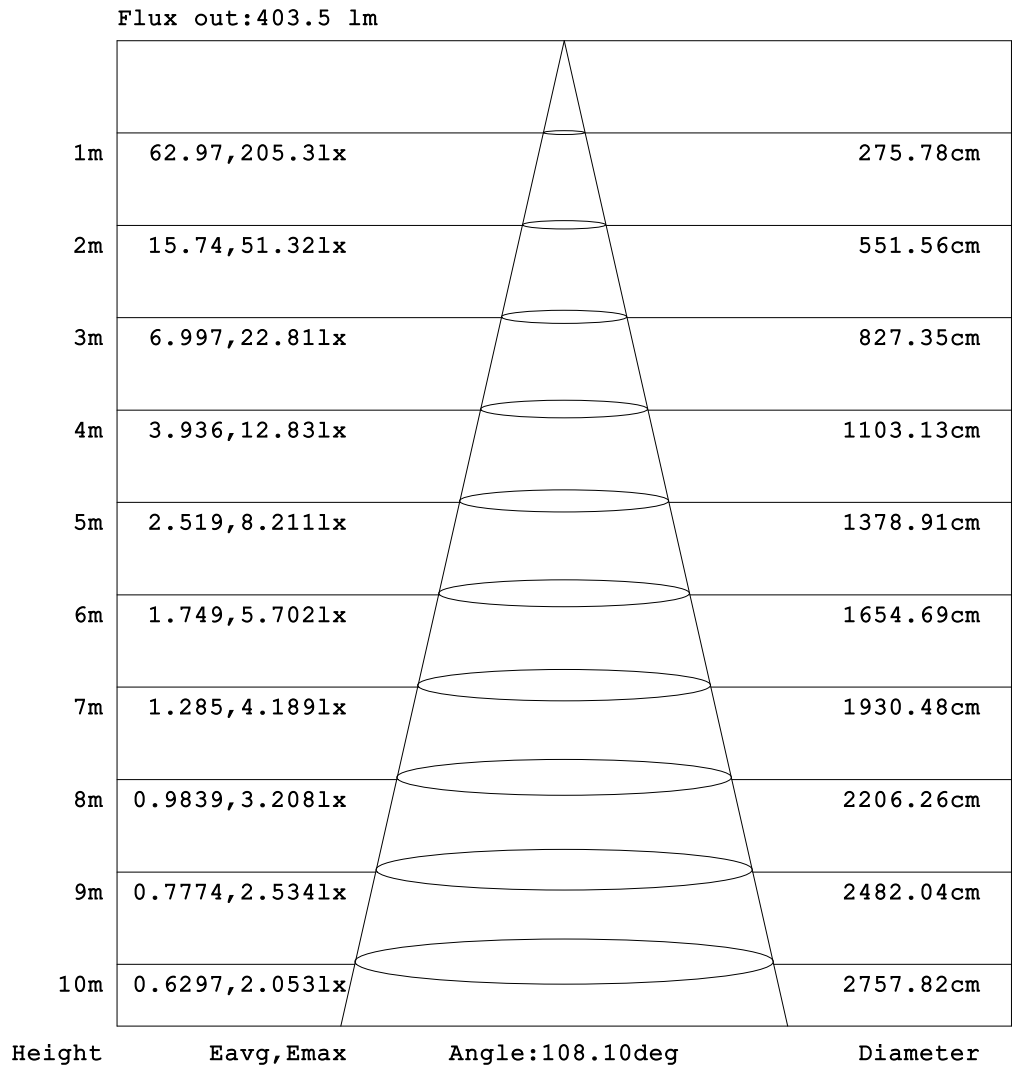


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-10-18

☐ 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:119.96V I:0.1008A P:8.9087W PF:0.8918 Freq:59.98Hz Lamp Flux:546.559x1 lm		
NAME: RSD-4-TUN-WH	TYPE:	WEIGHT:
SPEC.:2700K 90	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



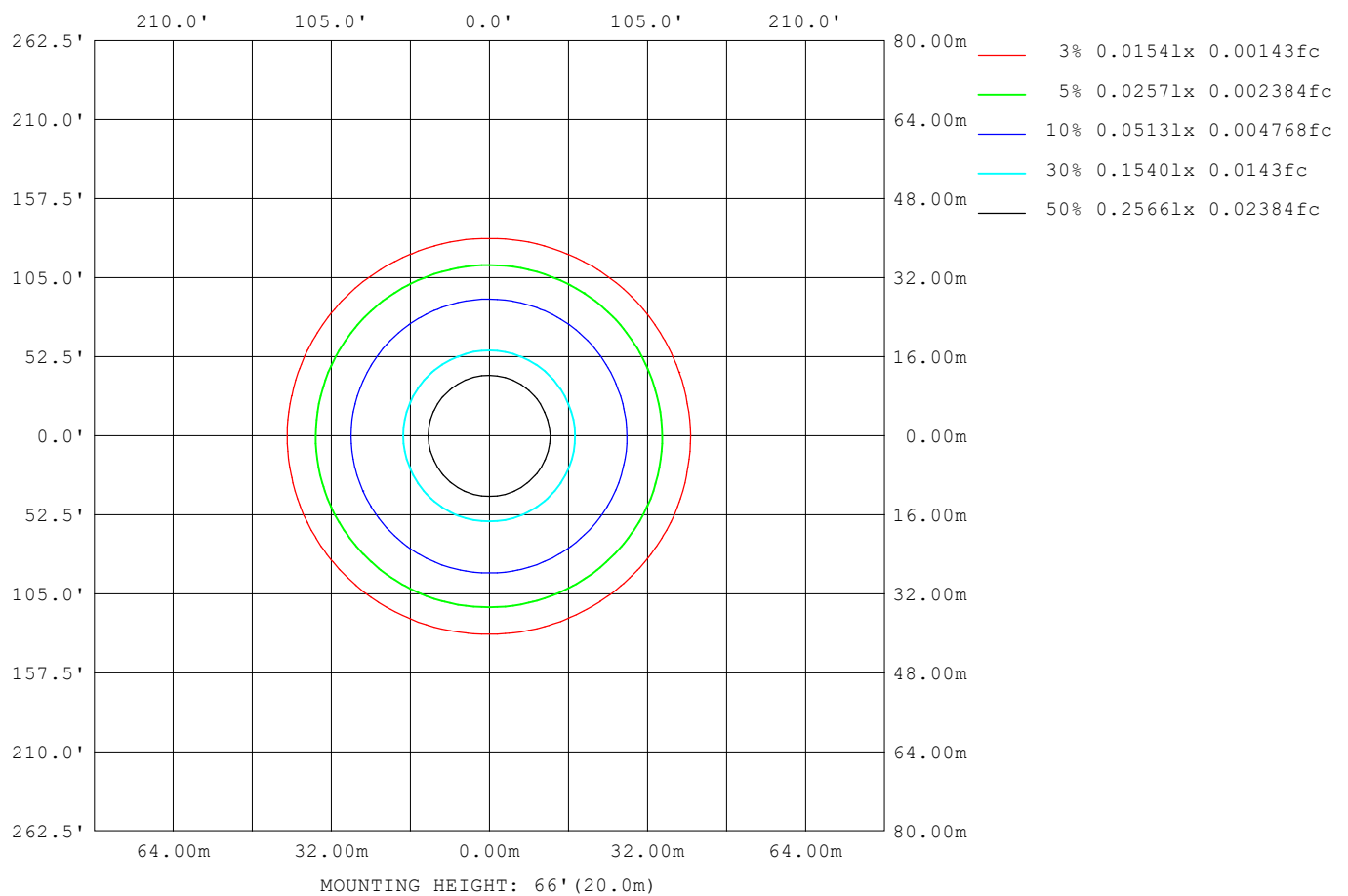
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:119.96V I:0.1008A P:8.9087W PF:0.8918 Freq:59.98Hz Lamp Flux:546.559x1 lm		
NAME: RSD-4-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:119.96V I:0.1008A P:8.9087W PF:0.8918 Freq:59.98Hz Lamp Flux:546.559x1 lm		
NAME: RSD-4-TUN-WH	TYPE:	WEIGHT:
SPEC.:2700K 90	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

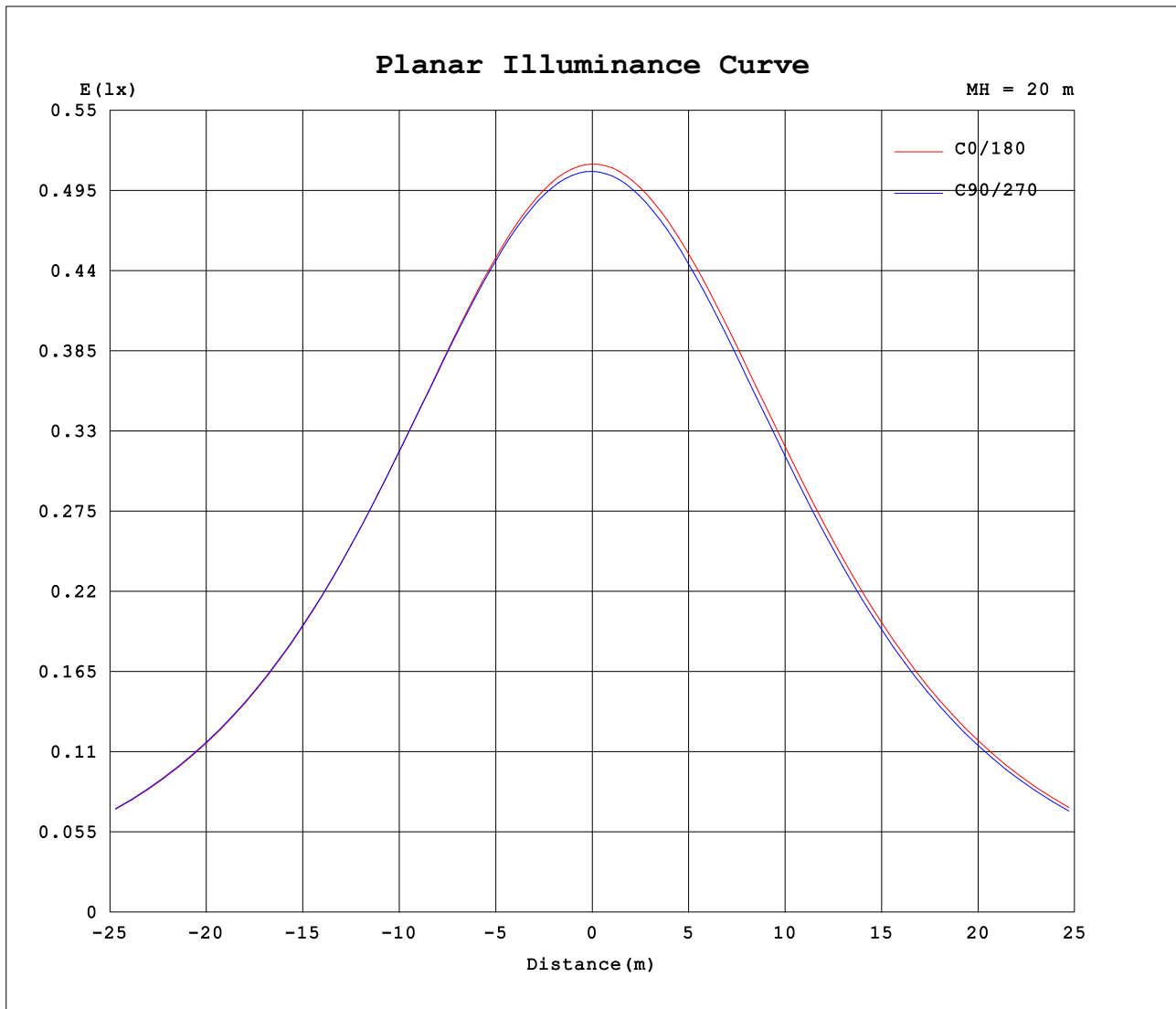
AvgL	cd/m2
L_0~180 (65) av	1445
L_0~180 (75) av	1180
L_0~180 (85) av	188
L_90~270 (65) av	1351
L_90~270 (75) av	933
L_90~270 (85) av	43
L_45 (65) av	1405
L_45 (75) av	1041
L_45 (85) av	70

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: