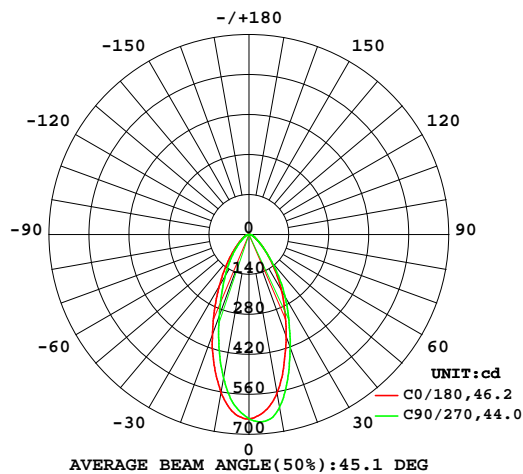


LUMINAIRE PHOTOMETRIC TEST REPORT

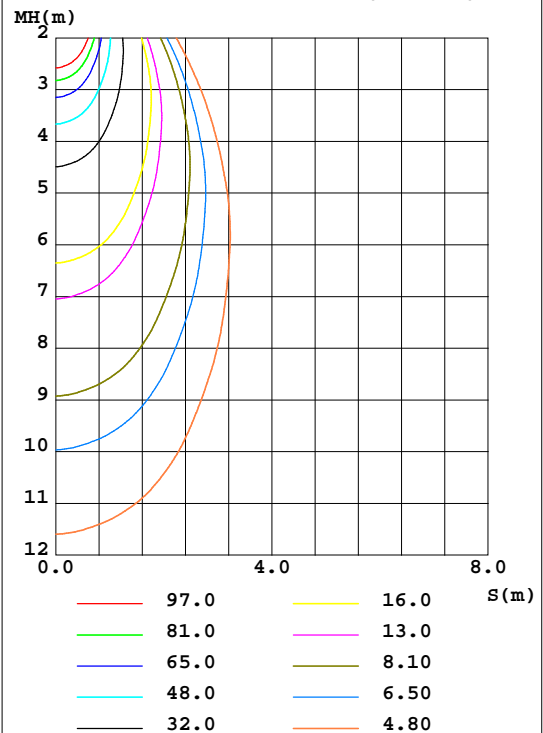
Test:U:230.84V I:0.0273A P:5.6082W PF:0.8898 Freq:49.99Hz Lamp Flux:534.646x1 lm		
NAME: 5RS320-2	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 95.33 lm/W			
MODEL	4000K	I _{max} (cd)	657.0	S/MH(C0/180)	0.71
NOMINAL POWER(W)	6	LOR(%)	100.0	S/MH(C90/270)	0.61
RATED VOLTAGE(V)	230	TOTAL FLUX(lm)	534.65	h UP,DN(C0-180)	0.0,54.9
NOMINAL FLUX(lm)	534.646	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,45.1
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.75
TEST VOLTAGE(V)	230V	h down(%)	100.0	CIBSE SHR MAX	0.80

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:will
Test Date:27 July 2023

g Range: 0 - 90DEG
Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:8.989m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

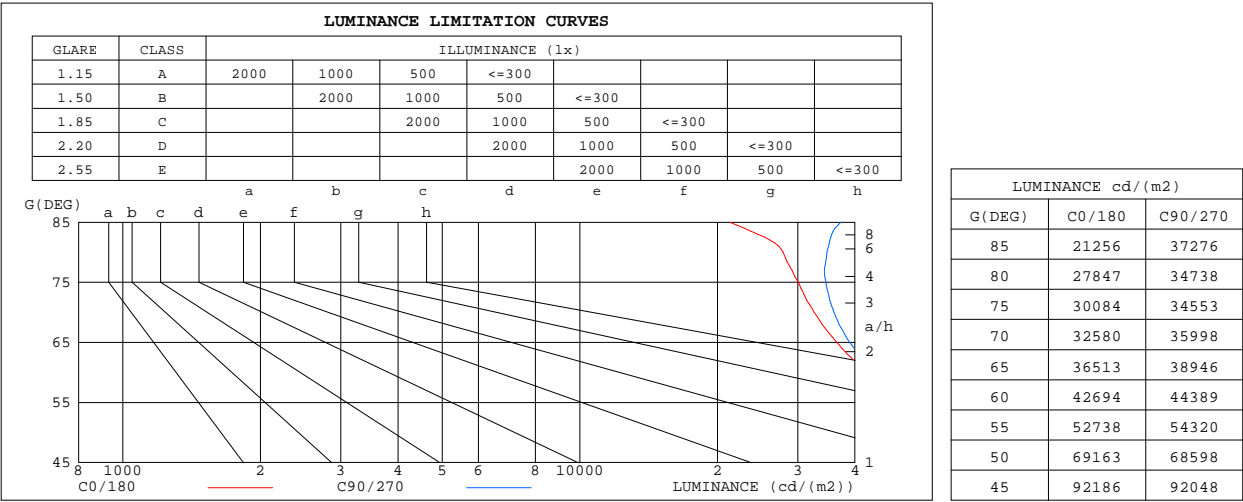
g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum, lamp
5	622.4	647.0	655.7	644.7	626.0	608.8	598.3	603.9	0- 5	15.19	15.19	2.84,2.84
10	564.8	603.3	615.7	595.1	562.0	530.6	512.6	526.0	5- 10	42.59	57.78	10.8,10.8
15	473.9	512.1	524.7	506.2	473.1	432.9	407.5	424.2	10- 15	61.07	118.9	22.2,22.2
20	382.2	413.7	423.0	405.7	374.6	332.5	306.0	326.0	15- 20	68.71	187.6	35.1,35.1
25	297.7	325.0	331.8	313.8	284.3	248.2	226.9	246.3	20- 25	67.99	255.6	47.8,47.8
30	230.4	251.8	255.3	236.0	208.4	180.9	167.1	185.7	25- 30	62.52	318.1	59.5,59.5
35	168.1	182.6	184.2	169.1	148.7	130.0	121.5	135.5	30- 35	53.91	372.0	69.6,69.6
40	119.2	124.8	124.0	115.3	103.7	91.53	86.10	96.30	35- 40	43.23	415.2	77.7,77.7
45	81.87	83.37	81.75	76.07	69.20	62.20	59.55	66.72	40- 45	32.75	448.0	83.8,83.8
50	55.84	56.48	55.38	52.10	47.95	42.78	40.47	45.30	45- 50	24.22	472.2	88.3,88.3
55	37.99	39.40	39.13	36.74	33.57	30.11	28.54	31.46	50- 55	17.98	490.2	91.7,91.7
60	26.81	27.95	27.88	26.24	24.09	21.92	20.95	22.76	55- 60	13.55	503.7	94.2,94.2
65	19.38	20.53	20.67	19.54	17.92	16.18	15.30	16.50	60- 65	10.35	514.1	96.2,96.2
70	14.00	15.21	15.46	14.53	13.12	11.62	10.81	11.72	65- 70	7.926	522.0	97.6,97.6
75	9.780	10.95	11.23	10.41	9.129	7.734	6.956	7.743	70- 75	5.858	527.9	98.7,98.7
80	6.073	7.262	7.576	6.787	5.582	4.396	3.750	4.393	75- 80	3.975	531.8	99.5,99.5
85	2.327	3.658	4.081	3.337	2.202	1.299	0.8196	1.212	80- 85	2.180	534.0	99.9,99.9
90	0.0450	0.5182	0.6749	0.3957	0.0386	0.0020	0.0450	0.0458	85- 90	0.6378	534.6	100,100
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
 C Interval: 2.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:will
 Test Date:27 July 2023

g Range: 0 - 90DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.416
 Humidity:65.0%
 Test Distance:8.989m [K=1.0000]
 Remarks:

LUMINANCE LIMITATION CURVES

Test:U:230.84V I:0.0273A P:5.6082W PF:0.8898 Freq:49.99Hz Lamp Flux:534.646x1 lm		
NAME: 5RS320-2	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



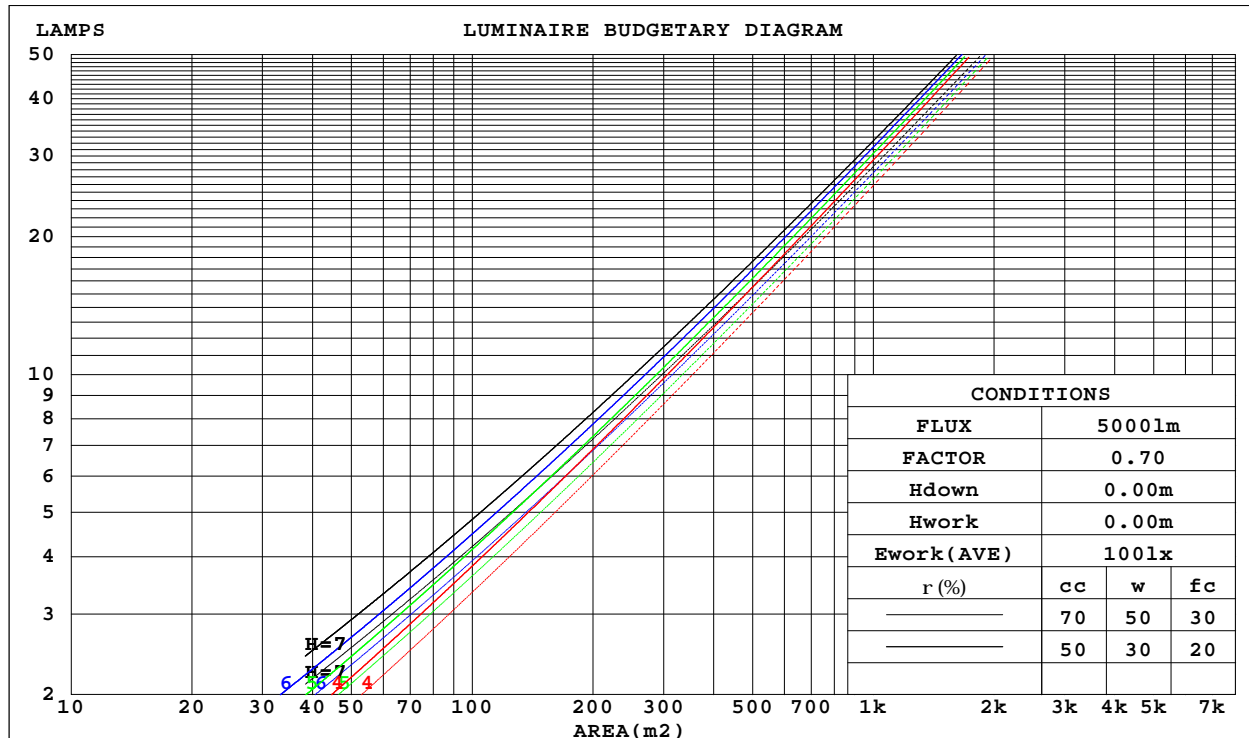
C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:will
Test Date:27 July 2023

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:8.989m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:230.84V I:0.0273A P:5.6082W PF:0.8898 Freq:49.99Hz Lamp Flux:534.646x1 lm		
NAME: 5RS320-2	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

r _{cc}	80%			70%			50%			30%			10%			0
r _w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r _{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	1.00
1.0	1.09	1.06	1.03	1.07	1.04	1.02	1.03	1.01	.99	.99	.97	.96	.95	.94	.93	.91
2.0	.00	.95	.91	.98	.94	.90	.95	.91	.88	.92	.89	.86	.89	.87	.84	.83
3.0	.92	.86	.81	.90	.85	.81	.88	.83	.79	.85	.81	.78	.83	.80	.77	.75
4.0	.85	.79	.74	.84	.78	.73	.81	.76	.72	.79	.75	.71	.77	.74	.71	.69
5.0	.79	.72	.67	.78	.72	.67	.76	.71	.66	.74	.69	.66	.73	.68	.65	.64
6.0	.73	.67	.62	.73	.66	.62	.71	.65	.61	.70	.65	.61	.68	.64	.60	.59
7.0	.69	.62	.57	.68	.62	.57	.67	.61	.57	.65	.60	.56	.64	.60	.56	.55
8.0	.64	.58	.53	.64	.58	.53	.63	.57	.53	.62	.56	.53	.61	.56	.52	.51
9.0	.61	.54	.50	.60	.54	.50	.59	.54	.50	.58	.53	.49	.57	.53	.49	.48
10.0	.57	.51	.47	.57	.51	.47	.56	.50	.47	.55	.50	.46	.54	.50	.46	.45



C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:will
Test Date:27 July 2023

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:8.989m [K=1.0000]
Remarks:

WEC AND CCEC

Test:U:230.84V I:0.0273A P:5.6082W PF:0.8898 Freq:49.99Hz Lamp Flux:534.646x1 lm		
NAME: 5RS320-2	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Wall Exitance Coefficients(WEC)															
0.0																
1.0	.211	.120	.038	.204	.117	.037	.192	.110	.035	.180	.104	.033	.169	.098	.032	
2.0	.201	.110	.034	.195	.108	.033	.185	.103	.032	.175	.098	.031	.165	.093	.029	
3.0	.190	.101	.030	.185	.099	.030	.175	.095	.029	.167	.091	.028	.159	.088	.027	
4.0	.179	.093	.027	.174	.091	.027	.166	.088	.026	.159	.085	.026	.152	.082	.025	
5.0	.168	.086	.025	.165	.085	.025	.157	.082	.024	.151	.080	.024	.145	.077	.023	
6.0	.159	.080	.023	.156	.079	.023	.149	.077	.022	.143	.075	.022	.138	.073	.022	
7.0	.150	.074	.021	.148	.074	.021	.142	.072	.021	.137	.070	.020	.132	.068	.020	
8.0	.143	.070	.020	.140	.069	.019	.135	.067	.019	.130	.066	.019	.126	.065	.019	
9.0	.136	.066	.018	.133	.065	.018	.129	.064	.018	.125	.062	.018	.121	.061	.018	
10.0	.129	.062	.017	.127	.061	.017	.123	.060	.017	.119	.059	.017	.116	.058	.017	

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	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	.173	.157	.142	.148	.135	.122	.102	.093	.085	.058	.054	.049	.019	.017	.016	
2.0	.160	.132	.109	.137	.114	.094	.094	.079	.066	.054	.046	.039	.017	.015	.013	
3.0	.149	.114	.086	.128	.098	.074	.088	.068	.052	.051	.040	.031	.016	.013	.010	
4.0	.139	.099	.069	.120	.086	.060	.082	.060	.042	.048	.035	.025	.015	.011	.008	
5.0	.131	.088	.056	.113	.076	.049	.078	.053	.035	.045	.031	.021	.014	.010	.007	
6.0	.124	.079	.047	.106	.068	.041	.073	.048	.029	.043	.028	.017	.014	.009	.006	
7.0	.117	.072	.040	.101	.062	.035	.070	.044	.025	.040	.026	.015	.013	.008	.005	
8.0	.111	.066	.034	.096	.057	.030	.066	.040	.021	.039	.024	.013	.012	.008	.004	
9.0	.106	.060	.030	.091	.052	.026	.063	.037	.018	.037	.022	.011	.012	.007	.004	
10.0	.101	.056	.026	.087	.049	.023	.060	.034	.016	.035	.020	.010	.011	.007	.003	

C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:will
Test Date:27 July 2023

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:8.989m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

Test:U:230.84V I:0.0273A P:5.6082W PF:0.8898 Freq:49.99Hz Lamp Flux:534.646x1 lm											
NAME: 5RS320-2						TYPE:		WEIGHT:			
SPEC.:						DIM.:		SERIAL No.:			
MFR.: EVERFINE						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	25.2	26.2	25.4	26.4	26.6	25.3	26.4	25.5	26.6	26.7	
	3H	25.6	26.6	25.9	26.9	27.1	25.8	26.8	26.1	27.1	27.3
	4H	25.9	26.8	26.2	27.0	27.3	26.1	27.1	26.4	27.3	27.5
	6H	26.0	26.9	26.4	27.2	27.4	26.4	27.3	26.7	27.5	27.8
	8H	26.1	27.0	26.4	27.2	27.5	26.5	27.4	26.8	27.6	27.9
	12H	26.1	27.0	26.5	27.2	27.5	26.6	27.4	26.9	27.7	28.0
4H	2H	25.3	26.3	25.6	26.5	26.7	25.4	26.4	25.7	26.6	26.9
	3H	26.0	26.8	26.3	27.1	27.4	26.2	27.0	26.5	27.3	27.6
	4H	26.3	27.1	26.7	27.4	27.7	26.6	27.3	26.9	27.6	28.0
	6H	26.6	27.3	27.0	27.6	28.0	27.0	27.6	27.4	28.0	28.3
	8H	26.8	27.4	27.2	27.7	28.1	27.2	27.8	27.6	28.1	28.5
	12H	26.8	27.4	27.2	27.7	28.1	27.3	27.9	27.7	28.3	28.6
8H	4H	26.5	27.1	26.9	27.4	27.8	26.7	27.3	27.1	27.7	28.0
	6H	26.9	27.4	27.3	27.8	28.2	27.2	27.7	27.7	28.1	28.6
	8H	27.1	27.5	27.5	28.0	28.4	27.5	28.0	28.0	28.4	28.8
	12H	27.2	27.6	27.7	28.0	28.5	27.7	28.1	28.2	28.6	29.0
12H	4H	26.5	27.0	26.9	27.4	27.8	26.7	27.3	27.1	27.6	28.0
	6H	27.0	27.4	27.4	27.8	28.3	27.3	27.7	27.7	28.1	28.6
	8H	27.2	27.6	27.6	28.0	28.5	27.6	28.0	28.0	28.4	28.9
Variations with the observer position at spacings:											
S = 1.0H	+ 0.8 / - 1.0					+ 0.7 / - 0.9					
1.5H	+ 1.0 / - 0.7					+ 1.1 / - 0.7					
2.0H	+ 1.5 / - 0.9					+ 1.3 / - 0.8					

CIE Pub.117, 534.6 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -2.2)
Area: 0.001256 m2

C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:will
Test Date:27 July 2023

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:8.989m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

Test:U:230.84V I:0.0273A P:5.6082W PF:0.8898 Freq:49.99Hz Lamp Flux:534.646x1 lm		
NAME: 5RS320-2	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

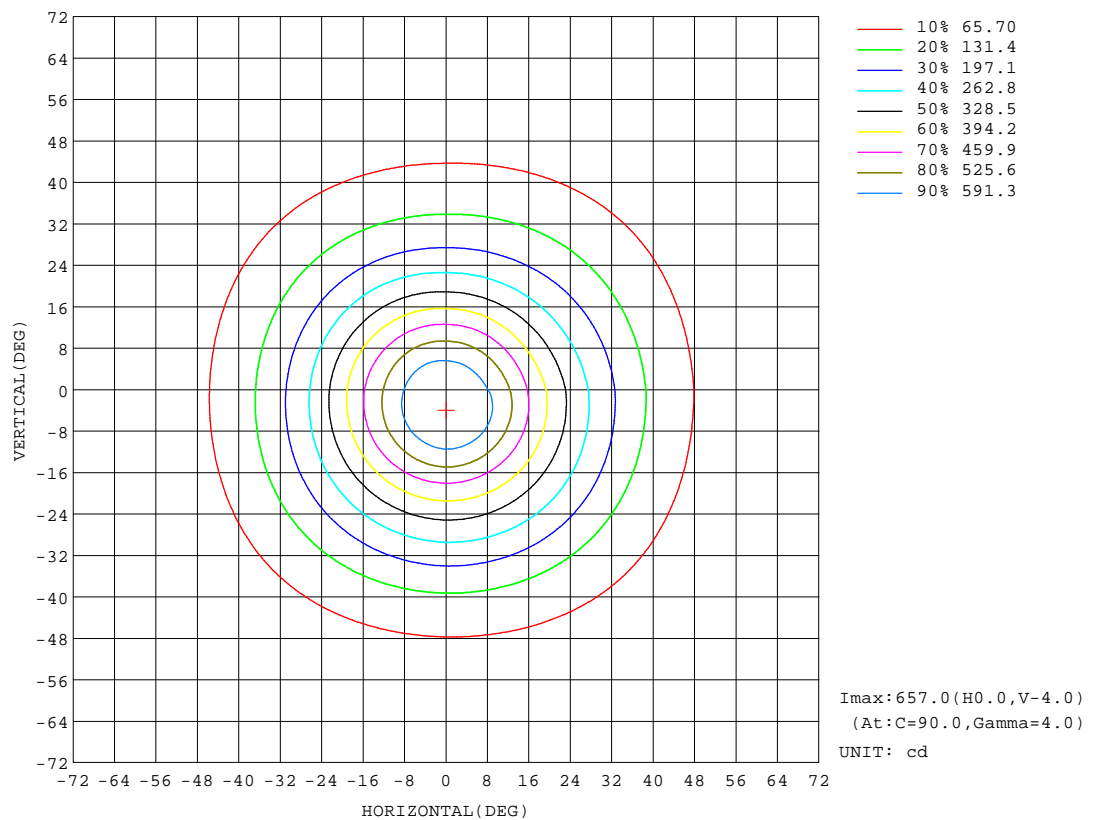
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	78	70	65	77	69	65	76	69	64	60
0.80	86	78	74	85	78	73	84	77	73	68
1.00	92	85	80	91	84	80	89	85	79	74
1.25	97	90	86	96	90	85	94	88	85	79
1.50	101	94	90	99	94	89	97	92	88	83
2.00	105	99	95	103	98	94	100	96	93	87
2.50	107	102	98	105	101	97	102	98	95	89
3.00	109	105	101	107	103	100	104	100	98	91
4.00	112	108	105	109	106	104	106	103	101	93
5.00	113	110	108	111	108	106	107	105	103	95
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:will
Test Date:27 July 2023

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:8.989m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

Test:U:230.84V I:0.0273A P:5.6082W PF:0.8898 Freq:49.99Hz Lamp Flux:534.646x1 lm		
NAME: 5RS320-2	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



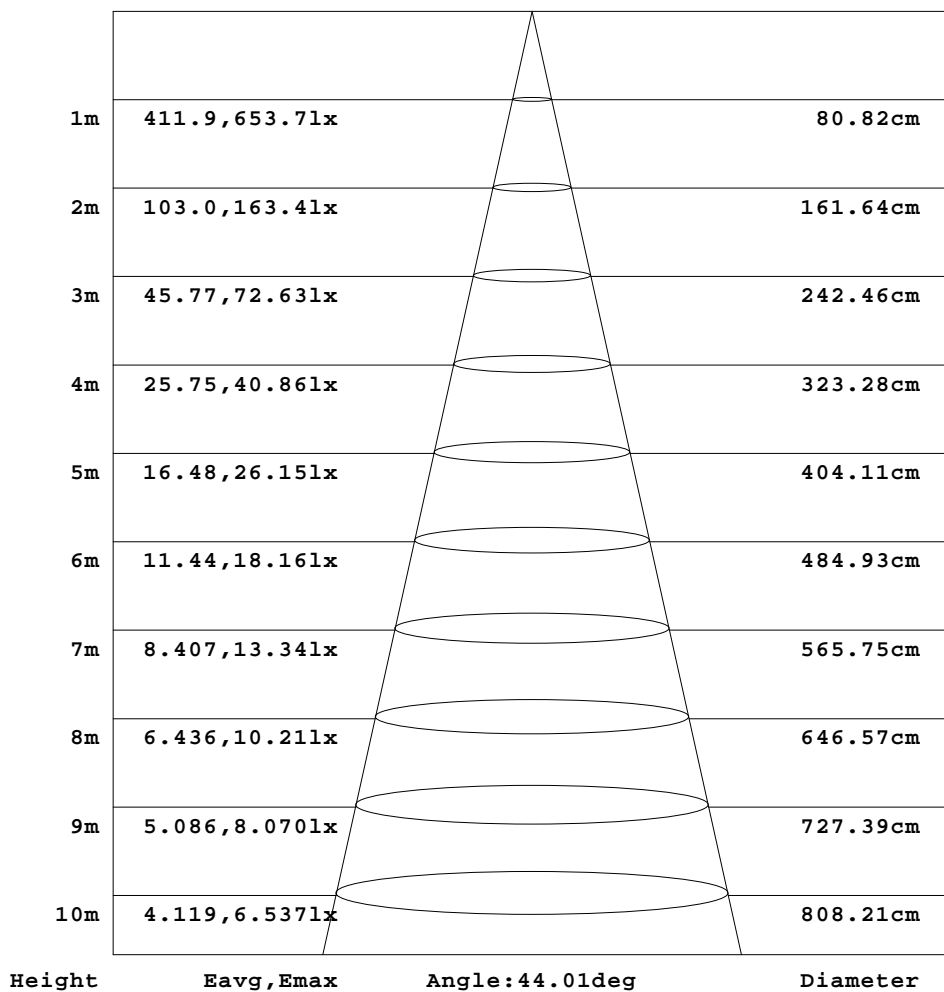
C Range: 0 - 360DEG
 C Interval: 2.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: will
 Test Date: 27 July 2023

Range: 0 - 90DEG
 Interval: 0.5DEG
 Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.416
 Humidity: 65.0%
 Test Distance: 8.989m [K=1.0000]
 Remarks:

AAI Figure

Test:U:230.84V I:0.0273A P:5.6082W PF:0.8898 Freq:49.99Hz Lamp Flux:534.646x1 lm		
NAME: 5RS320-2	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

Flux out:222.0 lm



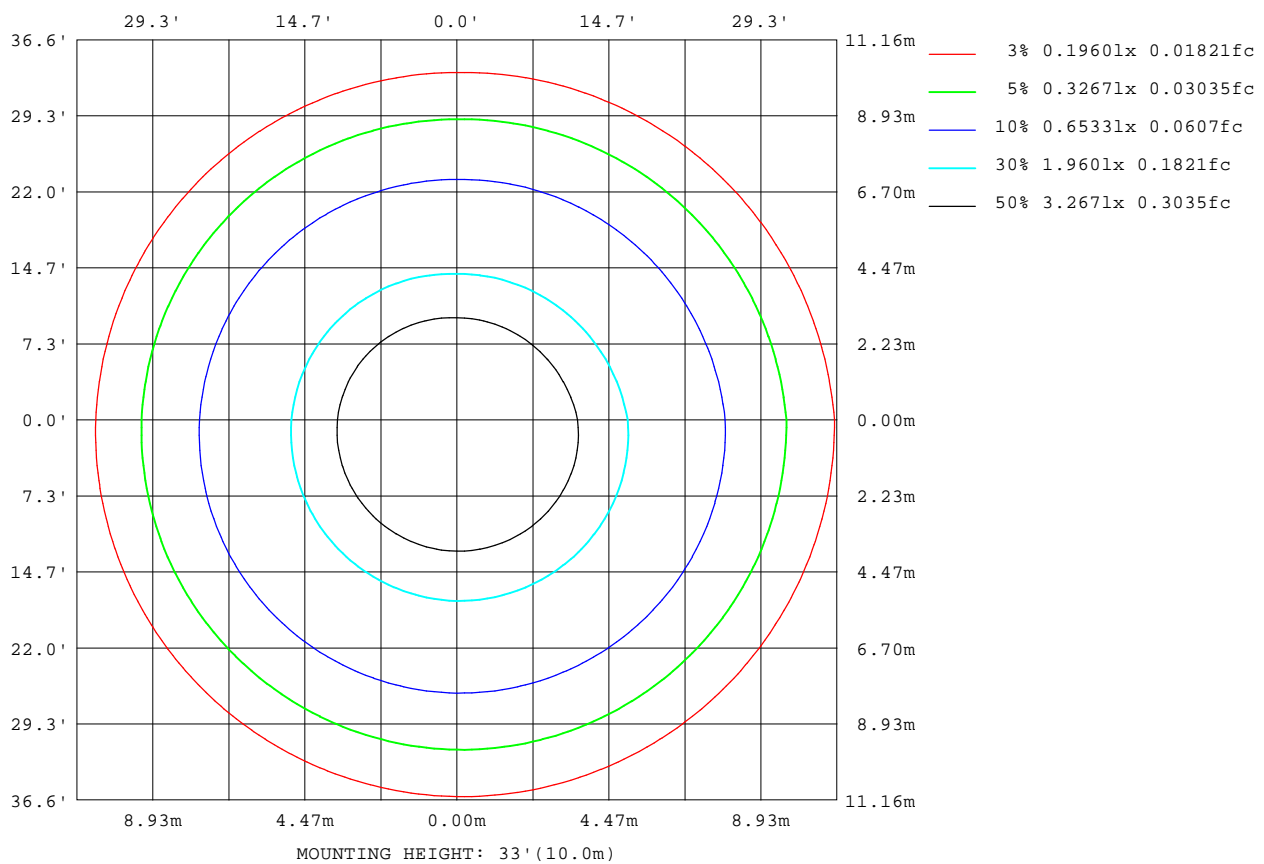
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:will
Test Date:27 July 2023

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:8.989m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

Test:U:230.84V I:0.0273A P:5.6082W PF:0.8898 Freq:49.99Hz Lamp Flux:534.646x1 lm		
NAME: 5RS320-2	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: will
Test Date: 27 July 2023

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.416
Humidity: 65.0%
Test Distance: 8.989m [K=1.0000]
Remarks:

LED Avg.L Report

Test:U:230.84V I:0.0273A P:5.6082W PF:0.8898 Freq:49.99Hz Lamp Flux:534.646x1 lm		
NAME: 5RS320-2	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.: EVERFINE	SUR.:	Shielding Angle:

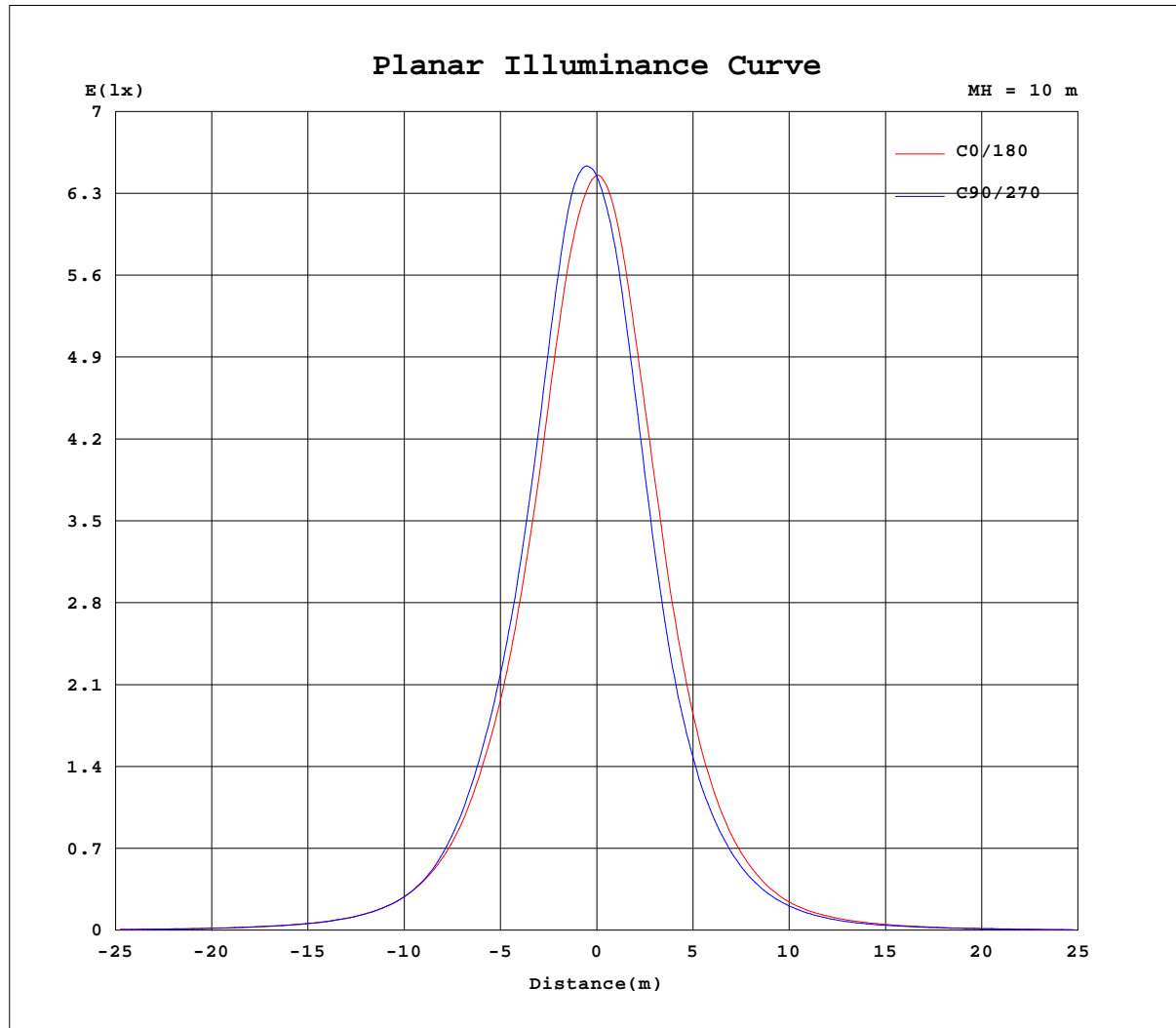
AvgL	cd/m2
L_0~180(65)av	35135
L_0~180(75)av	29083
L_0~180(85)av	20688
L_90~270(65)av	33886
L_90~270(75)av	27975
L_90~270(85)av	22381
L_45(65)av	34268
L_45(75)av	28328
L_45(85)av	21711

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:will
Test Date:27 July 2023

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.00.416
Humidity:65.0%
Test Distance:8.989m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 2.5DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: will
Test Date: 27 July 2023

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.00.416
Humidity: 65.0%
Test Distance: 8.989m [K=1.0000]
Remarks:

