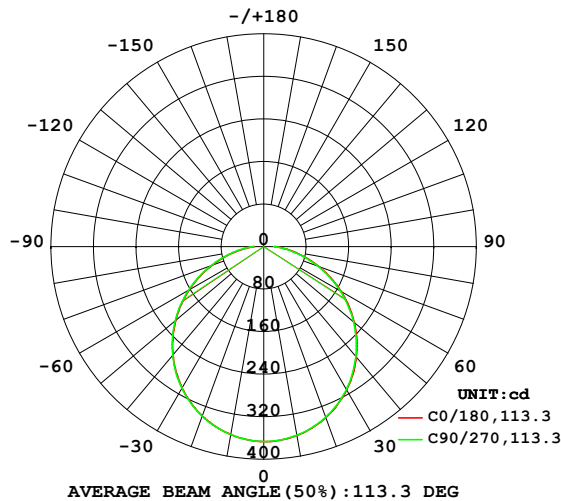


LUMINAIRE PHOTOMETRIC TEST REPORT

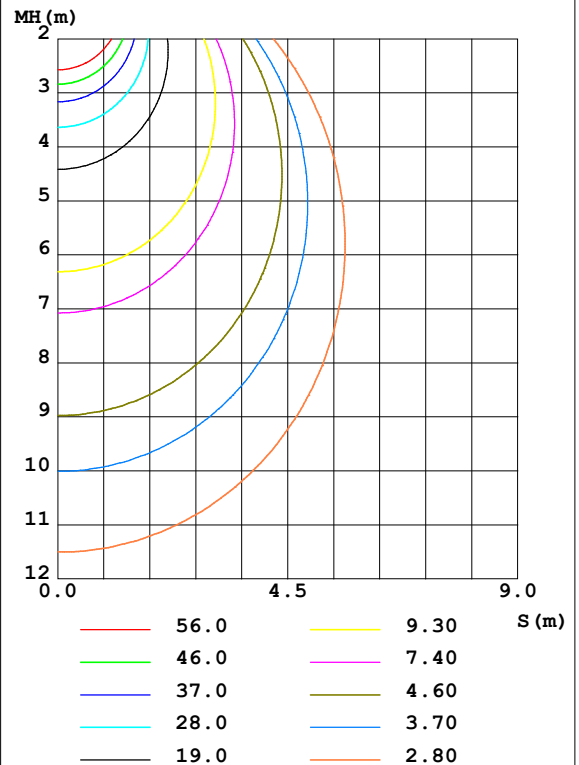
Test:U:120.17V I:0.1354A P:15.023W PF:0.9230 Freq:59.98Hz Lamp Flux:1083.33x1 lm		
NAME: S6-4090-WH	TYPE:	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:
MFR.: ADS	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 72.11 lm/W			
MODEL	S6-4090-WH	I _{max} (cd)	367.0	S/MH(C0/180)	1.25
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)	1.25
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1083.3	η UP,DN(C0-180)	0.0,50.4
NOMINAL FLUX(lm)	1083.33	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.6
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE(V)	120	η 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:2020-09-10

γ Range: 0 - 90DEG
γ 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:

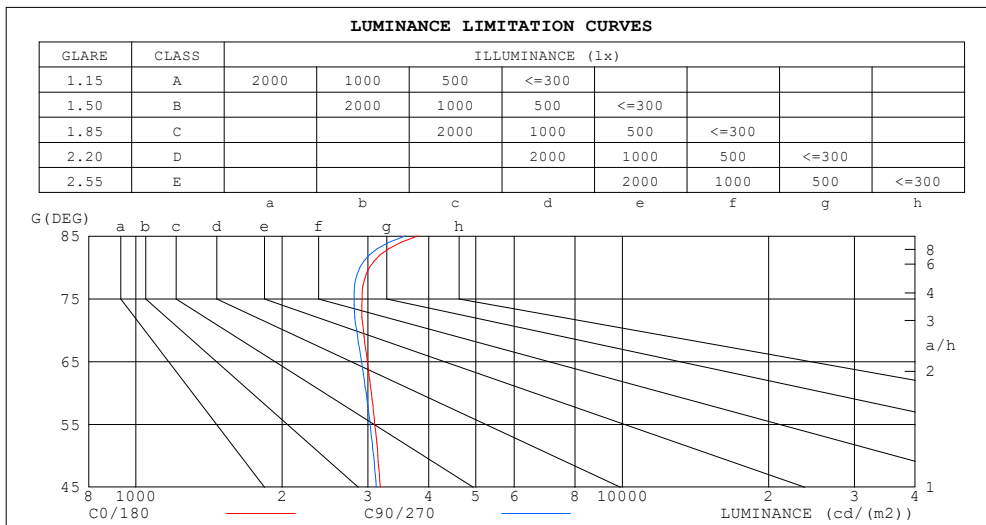
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	360.8	360.7	360.2	359.5	358.9	359.0	359.0	360.0	0- 10	34.66	34.66	3.2,3.2
20	342.0	342.5	341.4	339.8	338.9	338.3	339.3	340.4	10- 20	99.20	133.9	12.4,12.4
30	311.8	312.2	310.7	308.6	307.2	306.5	307.6	310.0	20- 30	150.3	284.2	26.2,26.2
40	271.2	271.3	269.6	267.2	265.3	265.2	266.4	269.3	30- 40	181.3	465.5	43,43
50	222.3	222.6	220.7	217.9	216.4	215.9	218.3	220.3	40- 50	188.6	654.1	60.4,60.4
60	167.6	167.7	165.7	162.9	161.3	161.1	162.9	166.0	50- 60	172.0	826.0	76.2,76.2
70	110.4	110.3	108.3	105.8	103.8	104.0	106.0	108.7	60- 70	134.4	960.4	88.7,88.7
80	57.70	57.90	55.85	53.98	52.21	52.89	54.35	56.70	70- 80	84.80	1045	96.5,96.5
90	20.06	19.88	18.98	17.95	17.25	17.72	18.75	19.52	80- 90	38.10	1083	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:2020-09-10

γ Range: 0 - 90DEG
 γ 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:120.17V I:0.1354A P:15.023W PF:0.9230 Freq:59.98Hz Lamp Flux:1083.33x1 lm		
NAME: S6-4090-WH	TYPE:	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:
MFR.: ADS	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	3802	3583
80	3022	2888
75	2918	2810
70	2936	2843
65	2990	2912
60	3049	2976
55	3100	3033
50	3144	3083
45	3183	3123

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-09-10

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
 Humidity:65.0%
 Test Distance:3.080m [K=1.0000]
 Remarks:

```

γ Range: 0 - 90DEG
γ 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:120.17V I:0.1354A P:15.023W PF:0.9230 Freq:59.98Hz Lamp Flux:1083.33x1 lm		
NAME: S6-4090-WH	TYPE:	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:
MFR.: ADS	SUR.:	Shielding Angle:

pcc	80%	70%	50%	30%	10%	0
pw	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
pfc	20%	20%	20%	20%	20%	0
RCR	RCR:Room Cavity Ratio Wall Exitance Coefficients(WEC)					
0.0						
1.0	.331 .188 .060	.324 .185 .059	.311 .178 .057	.298 .172 .055	.287 .166 .054	
2.0	.304 .167 .051	.298 .164 .051	.286 .159 .049	.275 .154 .048	.265 .150 .047	
3.0	.278 .148 .044	.273 .146 .044	.262 .142 .043	.253 .138 .042	.244 .135 .042	
4.0	.255 .133 .039	.250 .131 .039	.241 .128 .038	.232 .125 .038	.224 .122 .037	
5.0	.235 .120 .035	.230 .118 .034	.222 .116 .034	.215 .113 .034	.207 .111 .033	
6.0	.217 .109 .031	.213 .108 .031	.206 .105 .031	.199 .103 .030	.193 .101 .030	
7.0	.201 .100 .028	.198 .099 .028	.192 .097 .028	.185 .095 .028	.180 .093 .027	
8.0	.188 .092 .026	.185 .091 .026	.179 .089 .026	.173 .088 .025	.168 .086 .025	
9.0	.176 .085 .024	.173 .084 .024	.168 .083 .024	.163 .082 .023	.158 .080 .023	
10.0	.165 .079 .022	.163 .079 .022	.158 .077 .022	.153 .076 .022	.149 .075 .022	

pcc	80%	70%	50%	30%	10%	0
pw	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
pfc	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	.182 .156 .133	.156 .134 .114	.106 .092 .079	.061 .053 .046	.020 .017 .015	
2.0	.174 .132 .097	.149 .113 .083	.102 .079 .058	.059 .046 .034	.019 .015 .011	
3.0	.166 .114 .073	.142 .099 .063	.098 .069 .044	.056 .040 .026	.018 .013 .009	
4.0	.158 .101 .057	.136 .087 .050	.093 .061 .035	.054 .036 .021	.017 .012 .007	
5.0	.151 .091 .047	.129 .079 .040	.089 .055 .029	.052 .032 .017	.017 .011 .006	
6.0	.143 .082 .039	.123 .071 .034	.085 .050 .024	.049 .029 .014	.016 .010 .005	
7.0	.136 .076 .033	.117 .065 .029	.081 .046 .020	.047 .027 .012	.015 .009 .004	
8.0	.130 .070 .028	.112 .060 .025	.077 .042 .018	.045 .025 .010	.015 .008 .003	
9.0	.124 .065 .025	.107 .056 .022	.074 .040 .015	.043 .023 .009	.014 .008 .003	
10.0	.118 .060 .022	.102 .053 .019	.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:2020-09-10

γ Range: 0 - 90DEG
γ 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:120.17V I:0.1354A P:15.023W PF:0.9230 Freq:59.98Hz Lamp Flux:1083.33x1 lm										
NAME: S6-4090-WH					TYPE:			WEIGHT:		
SPEC.:4000K					DIM.:			SERIAL No.:		
MFR.: ADS					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	18.2	19.7	18.5	19.9	20.1	18.1	19.5	18.4	19.8	20.0
4H	19.0	20.3	19.3	20.6	20.9	18.8	20.2	19.1	20.5	20.7
6H	19.6	20.9	19.9	21.2	21.5	19.4	20.7	19.8	21.0	21.3
8H	19.9	21.1	20.2	21.4	21.7	19.7	21.0	20.1	21.2	21.5
12H	20.2	21.4	20.5	21.7	22.0	20.0	21.2	20.3	21.5	21.8
4H 2H	17.2	18.6	17.5	18.8	19.1	17.1	18.5	17.5	18.8	19.0
3H	19.1	20.3	19.4	20.6	20.9	19.0	20.2	19.3	20.5	20.8
4H	20.0	21.1	20.3	21.4	21.7	19.8	20.9	20.2	21.3	21.6
6H	20.8	21.7	21.2	22.1	22.5	20.6	21.6	21.0	21.9	22.3
8H	21.1	22.0	21.5	22.4	22.8	21.0	21.9	21.4	22.2	22.6
12H	21.5	22.3	21.9	22.7	23.1	21.3	22.1	21.7	22.5	22.9
8H 4H	20.3	21.2	20.7	21.6	22.0	20.2	21.1	20.6	21.5	21.9
6H	21.3	22.1	21.7	22.5	22.9	21.2	21.9	21.6	22.3	22.8
8H	21.8	22.5	22.3	22.9	23.4	21.6	22.3	22.1	22.8	23.2
12H	22.3	22.9	22.8	23.3	23.8	22.1	22.7	22.6	23.2	23.7
12H 4H	20.3	21.2	20.8	21.6	22.0	20.2	21.1	20.7	21.5	21.9
6H	21.4	22.1	21.9	22.5	23.0	21.3	22.0	21.7	22.4	22.8
8H	22.0	22.6	22.4	23.0	23.5	21.8	22.4	22.3	22.9	23.4
Variations with the observer position at spacings:										
S = 1.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.1 / - 0.3					+ 0.1 / - 0.3				

CIE Pub.117, 1083 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 0.3)
Area: 0.111111 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-09-10

γ Range: 0 - 90DEG
γ 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:120.17V I:0.1354A P:15.023W PF:0.9230 Freq:59.98Hz Lamp Flux:1083.33x1 lm		
NAME: S6-4090-WH	TYPE:	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:
MFR.: ADS	SUR.:	Shielding Angle:

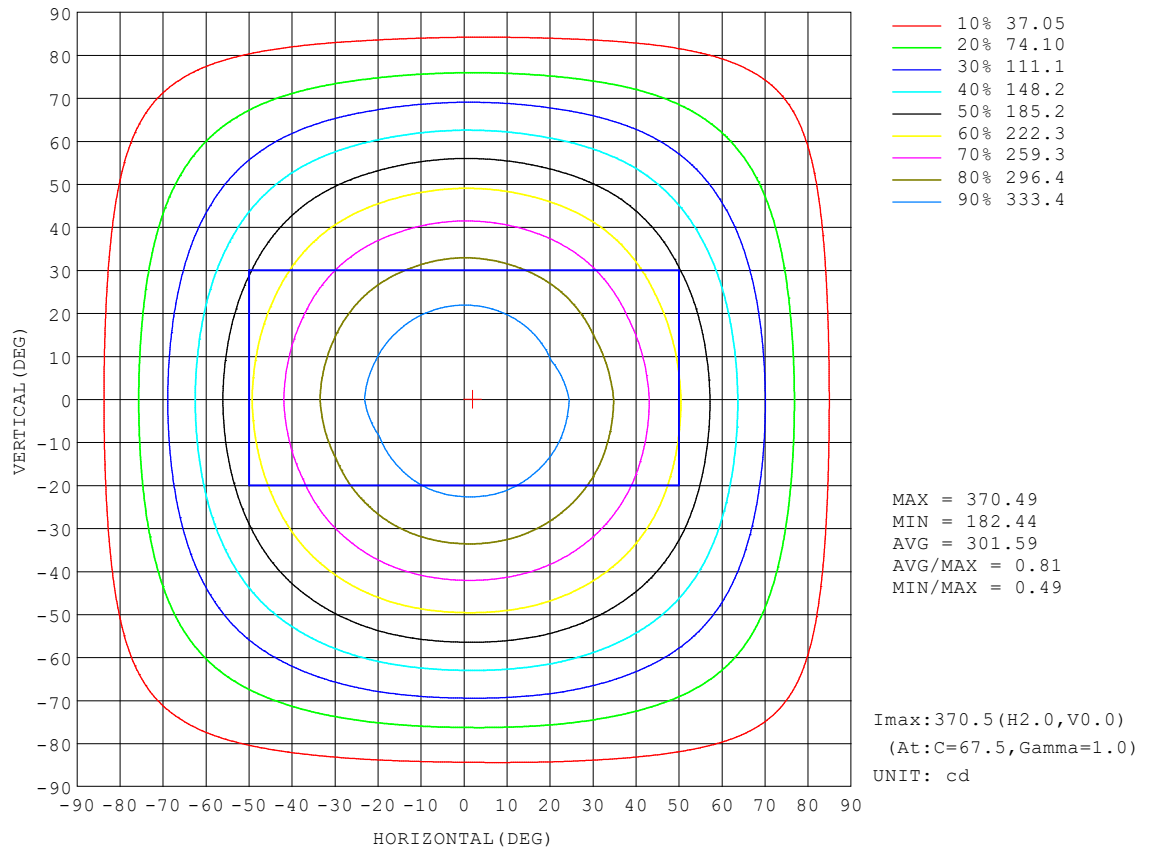
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	44	38	31
0.80	67	55	47	66	54	47	64	53	47	40
1.00	75	63	56	74	63	56	71	64	55	48
1.25	82	71	64	80	70	63	78	69	63	55
1.50	87	77	69	85	76	69	82	74	68	60
2.00	94	85	78	92	84	77	88	81	76	68
2.50	98	90	83	96	88	82	92	86	81	72
3.00	101	94	88	99	92	87	95	89	85	76
4.00	105	99	94	103	97	93	99	94	90	81
5.00	108	103	98	105	101	97	101	97	94	84
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:2020-09-10

γ Range: 0 - 90DEG
 γ 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:120.17V I:0.1354A P:15.023W PF:0.9230 Freq:59.98Hz Lamp Flux:1083.33x1 lm		
NAME: S6-4090-WH	TYPE:	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:
MFR.: ADS	SUR.:	Shielding Angle:

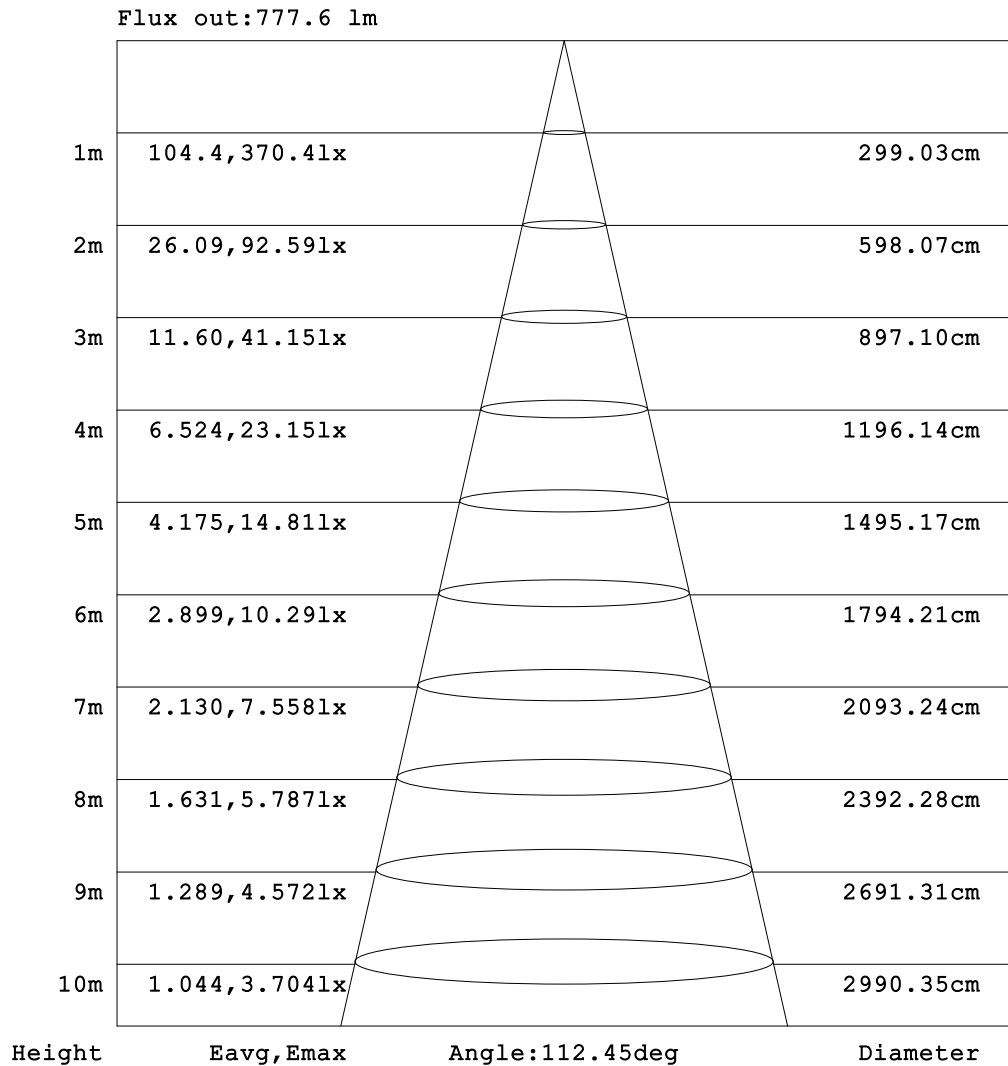


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-09-10

γ Range: 0 - 90DEG
γ 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:120.17V I:0.1354A P:15.023W PF:0.9230 Freq:59.98Hz Lamp Flux:1083.33x1 lm		
NAME: S6-4090-WH	TYPE:	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:
MFR.: ADS	SUR.:	Shielding Angle:



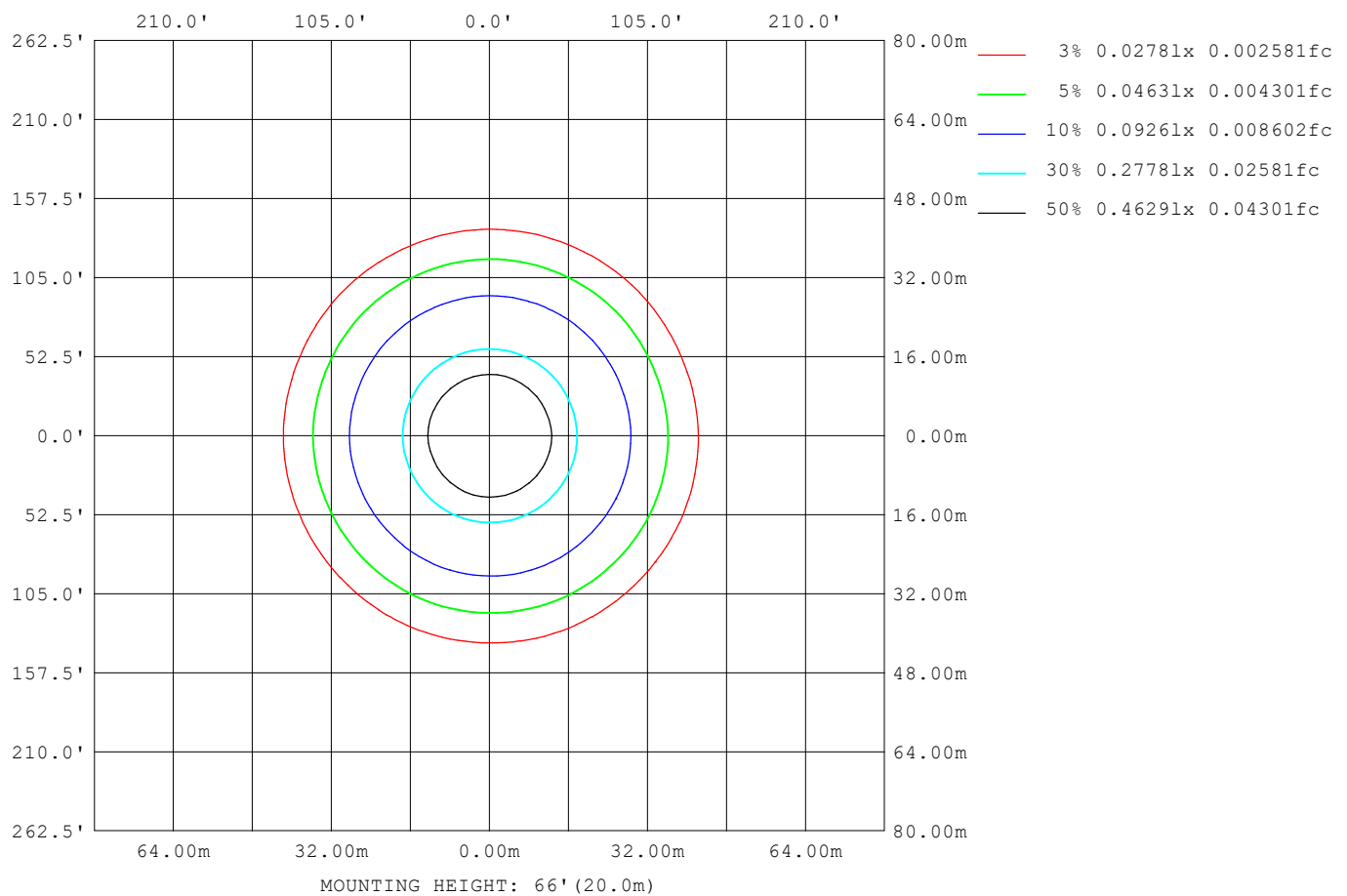
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-09-10

γ Range: 0 - 90DEG
γ 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:120.17V I:0.1354A P:15.023W PF:0.9230 Freq:59.98Hz Lamp Flux:1083.33x1 lm		
NAME: S6-4090-WH	TYPE:	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:
MFR.: ADS	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-09-10

γ Range: 0 - 90DEG
 γ 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:120.17V I:0.1354A P:15.023W PF:0.9230 Freq:59.98Hz Lamp Flux:1083.33x1 lm		
NAME: S6-4090-WH	TYPE:	WEIGHT:
SPEC.:4000K	DIM.:	SERIAL No.:
MFR.: ADS	SUR.:	Shielding Angle:

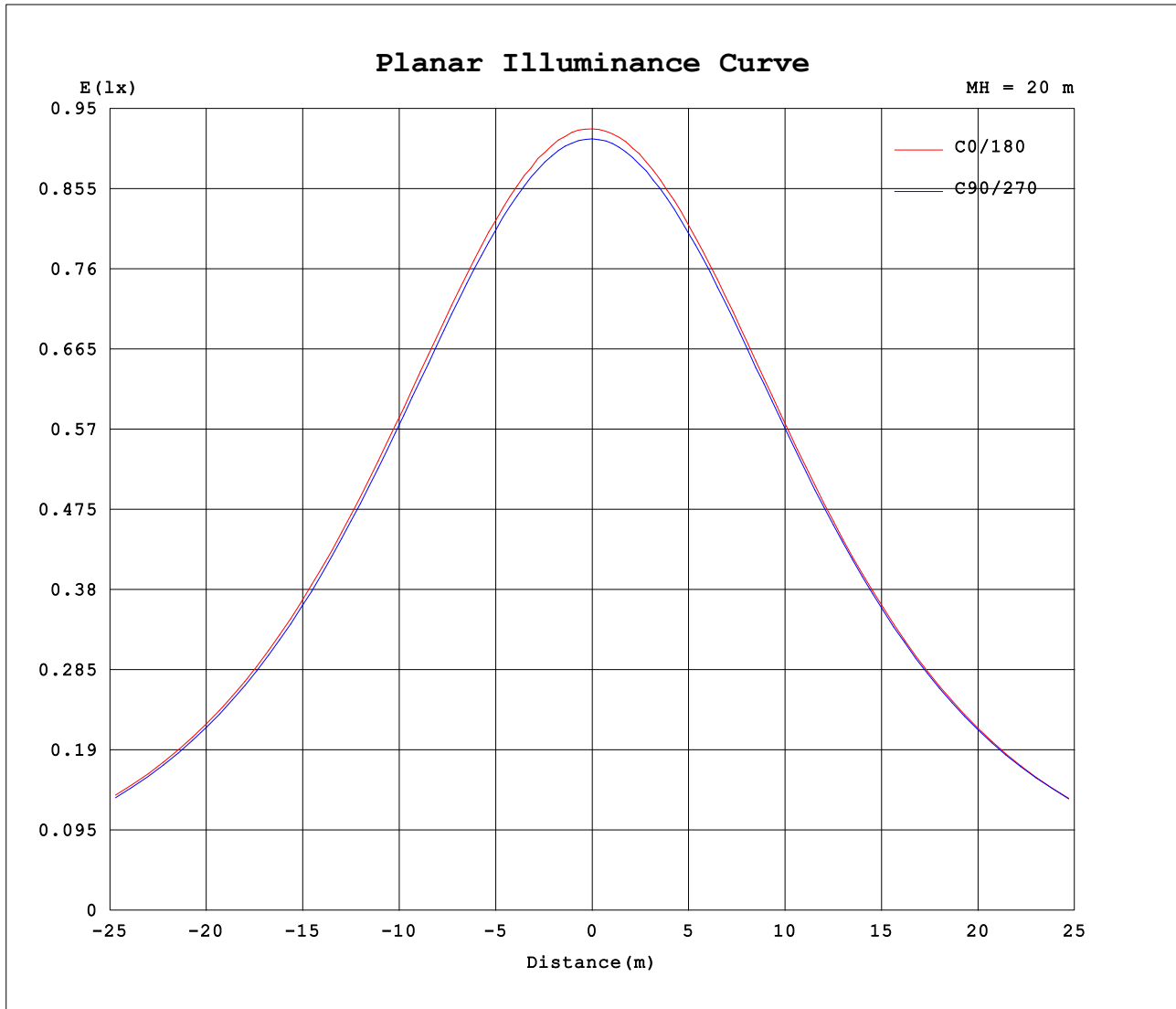
AvgL	cd/m2
L_0~180 (65) av	2890
L_0~180 (75) av	2778
L_0~180 (85) av	3519
L_90~270 (65) av	2892
L_90~270 (75) av	2781
L_90~270 (85) av	3551
L_45 (65) av	2892
L_45 (75) av	2780
L_45 (85) av	3550

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2020-09-10

γ Range: 0 - 90DEG
γ 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: 2020-09-10

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
 Humidity: 65.0%
 Test Distance: 3.080m [K=1.0000]
 Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Humidity:65.0%
Test Distance:3.080m [K=1.0000]
Remarks:

```