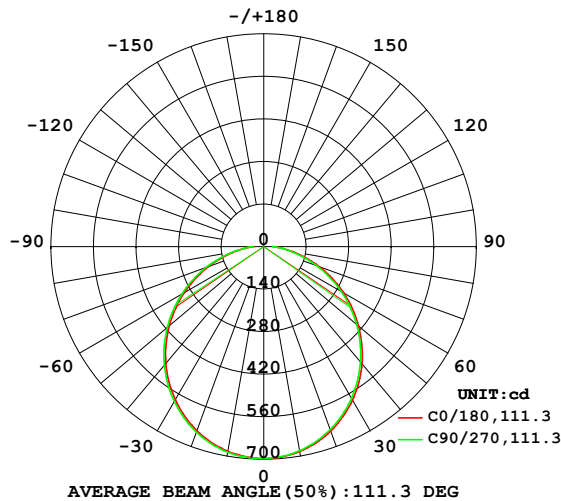


LUMINAIRE PHOTOMETRIC TEST REPORT

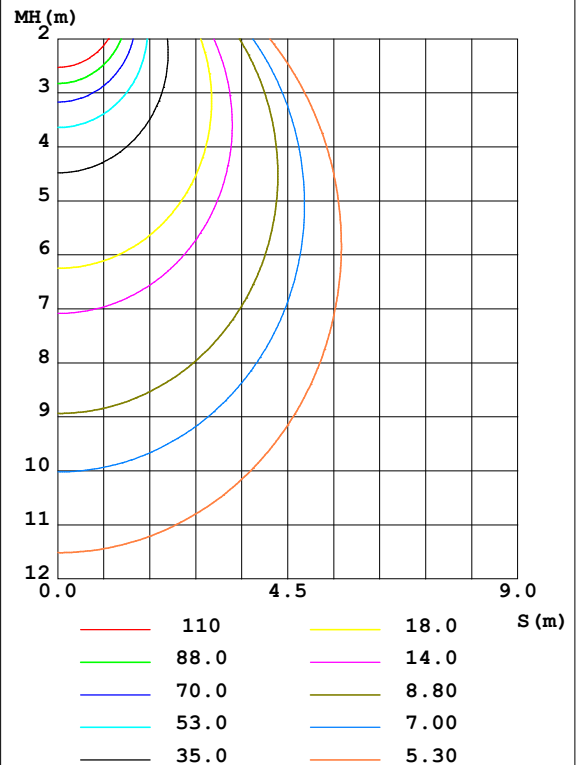
Test:U:120.08V I:0.2490A P:26.982W PF:0.9024 Freq:59.98Hz Lamp Flux:2012.1x1 lm		
NAME: S9-3090-N-WH	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:
MFR.: ADS	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 74.57 lm/W			
MODEL	S9-3090-N-WH	I _{max} (cd)	697.6	S/MH(C0/180)	1.24
NOMINAL POWER(W)	27	LOR(%)	100.0	S/MH(C90/270)	1.26
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	2012.1	η UP,DN(C0-180)	0.0,49.4
NOMINAL FLUX(lm)	2012.1	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.6
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:

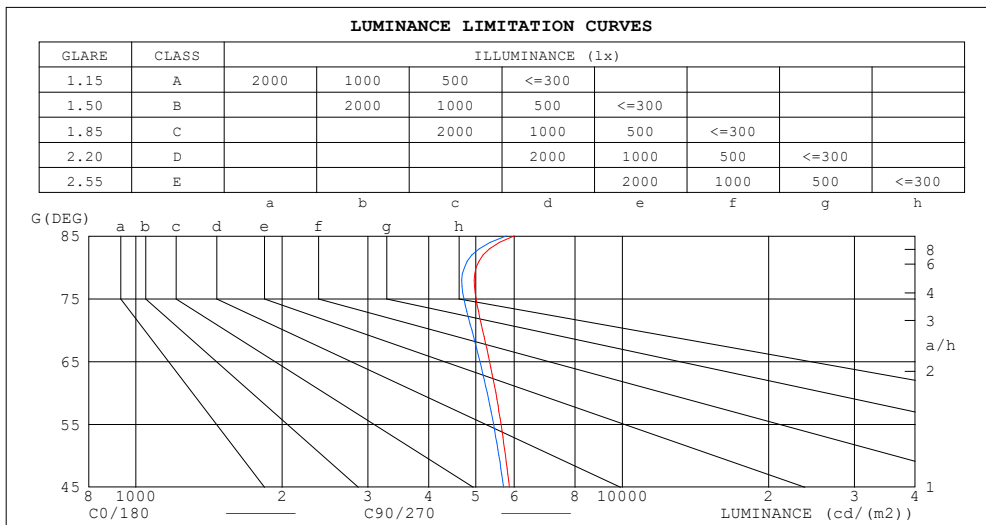
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	684.5	682.8	681.6	681.9	683.9	685.3	686.9	685.9	0- 10	65.93	65.93	3.28,3.28
20	645.4	642.1	640.4	641.2	644.6	647.6	649.6	648.5	10- 20	188.4	254.3	12.6,12.6
30	583.7	579.1	576.9	577.6	582.2	586.3	588.9	587.6	20- 30	284.1	538.4	26.8,26.8
40	503.2	498.1	495.2	496.8	501.4	506.3	509.5	507.8	30- 40	340.6	879.0	43.7,43.7
50	407.7	401.7	399.0	400.8	406.4	411.5	414.9	413.0	40- 50	351.8	1231	61.2,61.2
60	303.1	296.6	293.8	295.5	301.4	307.2	310.5	308.4	50- 60	317.6	1548	77,77
70	194.7	189.3	186.8	188.5	194.4	200.3	202.9	200.5	60- 70	245.7	1794	89.2,89.2
80	95.83	93.09	91.63	92.96	96.82	101.6	102.9	100.1	70- 80	152.0	1946	96.7,96.7
90	29.77	27.94	30.31	28.80	30.79	33.18	34.34	31.77	80- 90	65.94	2012	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:120.08V I:0.2490A P:26.982W PF:0.9024 Freq:59.98Hz Lamp Flux:2012.1x1 lm		
NAME: S9-3090-N-WH	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:
MFR.: ADS	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	5994	5777
80	5005	4741
75	5008	4726
70	5163	4907
65	5338	5100
60	5497	5278
55	5632	5440
50	5752	5576
45	5859	5700

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:120.08V I:0.2490A P:26.982W PF:0.9024 Freq:59.98Hz Lamp Flux:2012.1x1 lm					
NAME: S9-3090-N-WH			TYPE:		WEIGHT:
SPEC.:3000K			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	.326	.186	.059	.319	.182	.058	.306	.176	.056	.294	.169	.054	.282	.164	.053		
2.0	.301	.165	.051	.295	.162	.050	.283	.157	.049	.272	.153	.048	.262	.148	.047		
3.0	.276	.147	.044	.270	.145	.044	.260	.141	.043	.250	.137	.042	.241	.134	.041		
4.0	.253	.132	.039	.248	.130	.038	.239	.127	.038	.230	.124	.037	.222	.121	.037		
5.0	.233	.119	.034	.229	.117	.034	.221	.115	.034	.213	.112	.033	.206	.110	.033		
6.0	.216	.108	.031	.212	.107	.031	.205	.105	.031	.198	.103	.030	.191	.101	.030		
7.0	.200	.099	.028	.197	.098	.028	.191	.096	.028	.184	.095	.028	.179	.093	.027		
8.0	.187	.091	.026	.184	.091	.026	.178	.089	.025	.173	.087	.025	.167	.086	.025		
9.0	.175	.085	.024	.172	.084	.024	.167	.083	.023	.162	.081	.023	.158	.080	.023		
10.0	.164	.079	.022	.162	.078	.022	.157	.077	.022	.153	.076	.022	.149	.075	.021		

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	.181	.156	.133	.155	.134	.115	.106	.092	.079	.061	.053	.046	.020	.017	.015	
2.0	.173	.132	.097	.149	.114	.084	.102	.079	.058	.059	.046	.034	.019	.015	.011	
3.0	.166	.114	.073	.142	.099	.064	.097	.069	.045	.056	.040	.026	.018	.013	.009	
4.0	.158	.101	.058	.135	.087	.050	.093	.061	.035	.054	.036	.021	.017	.012	.007	
5.0	.150	.091	.047	.129	.078	.041	.089	.055	.029	.051	.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	.075	.033	.117	.065	.029	.081	.046	.020	.047	.027	.012	.015	.009	.004	
8.0	.129	.070	.029	.111	.060	.025	.077	.042	.018	.045	.025	.011	.015	.008	.003	
9.0	.123	.065	.025	.106	.056	.022	.074	.039	.016	.043	.023	.009	.014	.008	.003	
10.0	.118	.060	.022	.101	.052	.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:120.08V I:0.2490A P:26.982W PF:0.9024 Freq:59.98Hz Lamp Flux:2012.1x1 lm										
NAME: S9-3090-N-WH					TYPE:			WEIGHT:		
SPEC.:3000K					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	16.4	17.9	16.6	18.1	18.3	16.2	17.7	16.5	17.9	18.2
3H	17.9	19.4	18.2	19.6	19.9	17.8	19.2	18.0	19.4	19.7
4H	18.6	20.0	18.9	20.2	20.5	18.4	19.8	18.7	20.0	20.3
6H	19.2	20.5	19.5	20.8	21.0	18.9	20.2	19.3	20.5	20.8
8H	19.4	20.7	19.8	21.0	21.3	19.2	20.4	19.5	20.7	21.0
12H	19.7	20.9	20.0	21.1	21.5	19.4	20.6	19.8	20.9	21.2
4H 2H	16.9	18.3	17.3	18.6	18.8	16.8	18.2	17.1	18.4	18.7
3H	18.7	19.9	19.1	20.2	20.5	18.6	19.8	18.9	20.1	20.4
4H	19.6	20.7	19.9	21.0	21.3	19.4	20.5	19.7	20.8	21.1
6H	20.3	21.3	20.7	21.6	22.0	20.1	21.0	20.5	21.4	21.8
8H	20.6	21.5	21.0	21.9	22.3	20.4	21.3	20.8	21.6	22.0
12H	20.9	21.7	21.3	22.1	22.5	20.7	21.5	21.1	21.9	22.3
8H 4H	19.9	20.8	20.3	21.1	21.5	19.7	20.6	20.1	21.0	21.4
6H	20.8	21.5	21.2	21.9	22.4	20.6	21.3	21.0	21.7	22.2
8H	21.2	21.9	21.7	22.3	22.7	21.0	21.7	21.5	22.1	22.5
12H	21.6	22.2	22.1	22.7	23.1	21.4	22.0	21.9	22.5	22.9
12H 4H	19.9	20.7	20.3	21.1	21.5	19.7	20.6	20.1	20.9	21.3
6H	20.8	21.5	21.3	22.0	22.4	20.7	21.3	21.1	21.8	22.2
8H	21.3	21.9	21.8	22.4	22.9	21.2	21.7	21.6	22.2	22.7
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, 2012 lm Total Lamp Luminous Flux Correct ($8\log(F/F_0) = 2.4$)
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:120.08V I:0.2490A P:26.982W PF:0.9024 Freq:59.98Hz Lamp Flux:2012.1x1 lm		
NAME: S9-3090-N-WH	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:
MFR.: ADS	SUR.:	Shielding Angle:

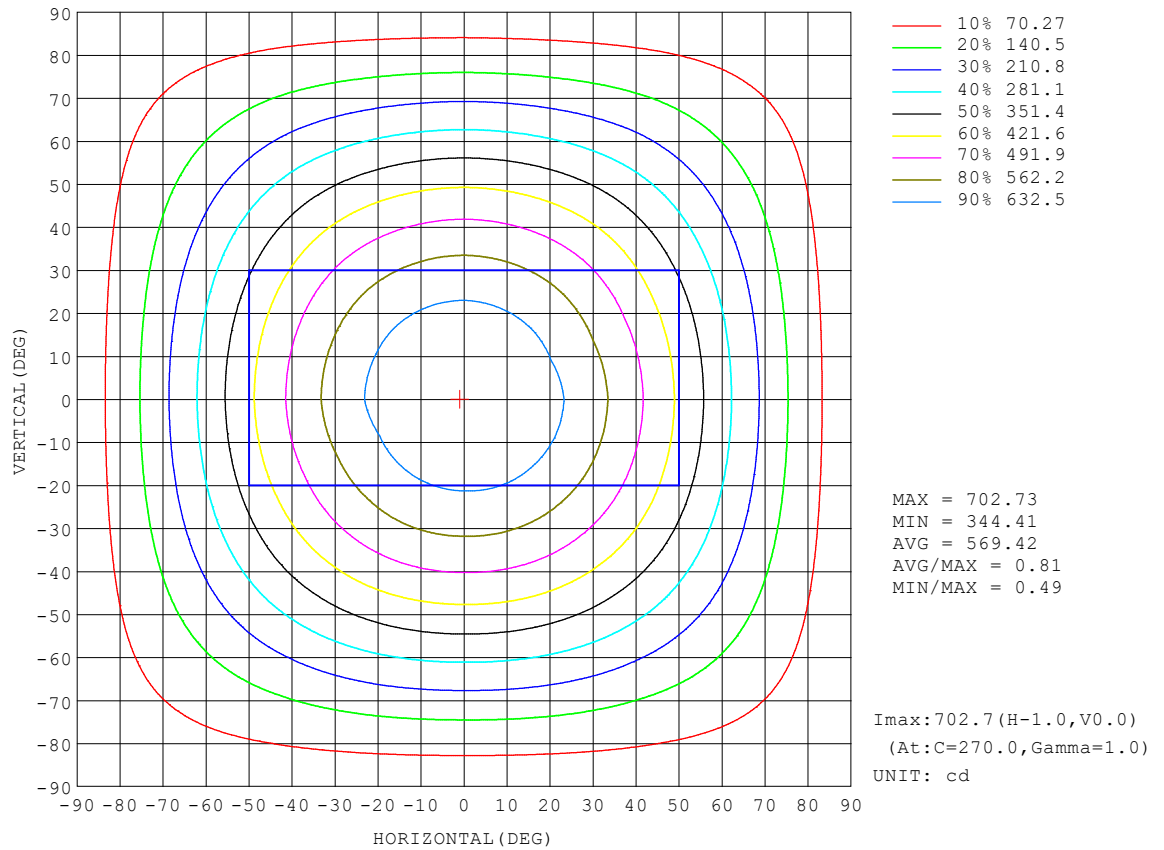
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	57	45	38	56	45	38	55	45	38	32
0.80	67	55	48	66	55	48	64	54	47	40
1.00	75	64	57	74	63	56	72	65	56	49
1.25	82	72	64	81	71	64	78	69	63	56
1.50	87	77	70	86	76	69	83	74	68	61
2.00	94	85	79	92	84	78	89	82	76	68
2.50	98	90	84	96	89	83	92	86	81	73
3.00	101	94	89	99	93	87	95	90	85	77
4.00	106	100	95	103	98	93	99	94	91	82
5.00	108	103	99	106	101	97	101	97	94	85
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:120.08V I:0.2490A P:26.982W PF:0.9024 Freq:59.98Hz Lamp Flux:2012.1x1 lm		
NAME: S9-3090-N-WH	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:
MFR.: ADS	SUR.:	Shielding Angle:

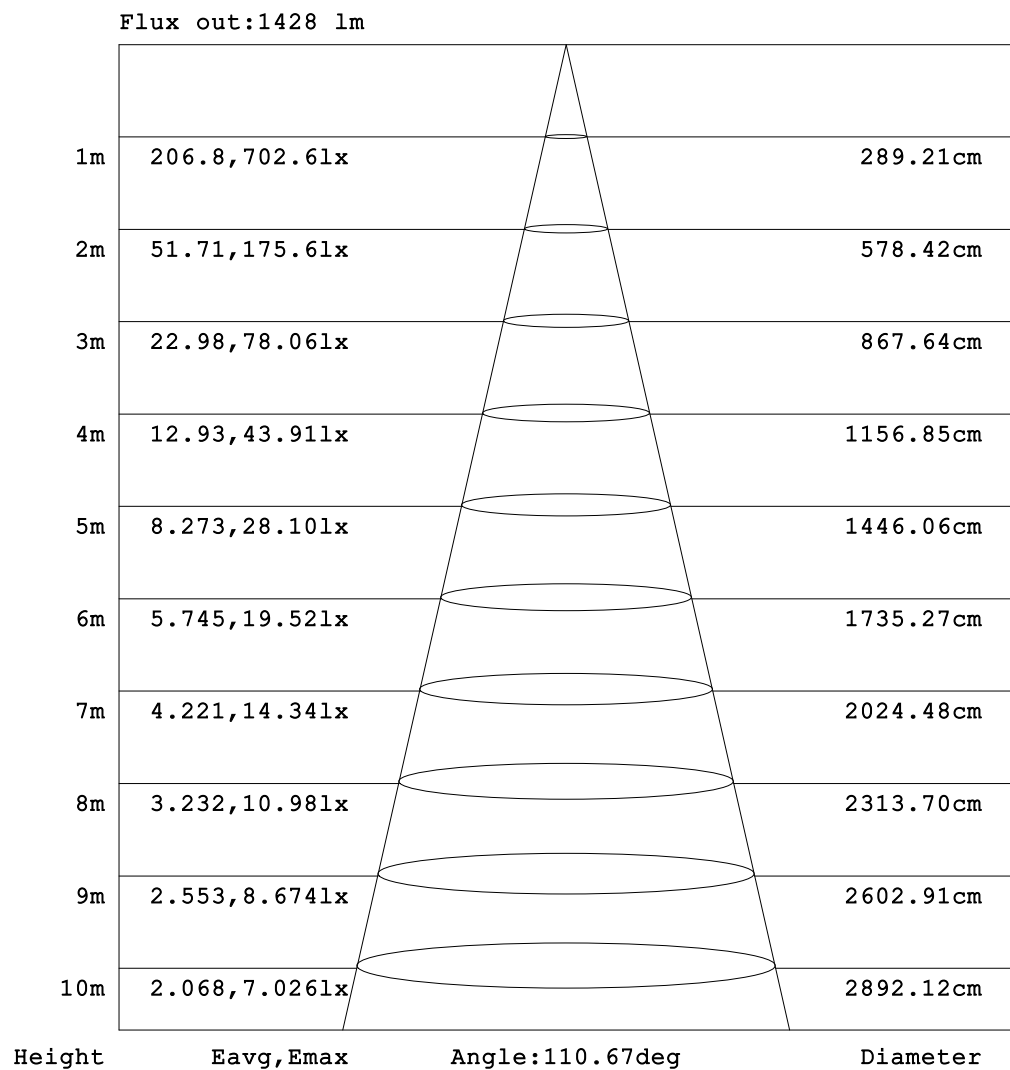


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2020-09-10

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:120.08V I:0.2490A P:26.982W PF:0.9024 Freq:59.98Hz Lamp Flux:2012.1x1 lm		
NAME: S9-3090-N-WH	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:
MFR.: ADS	SUR.:	Shielding Angle:



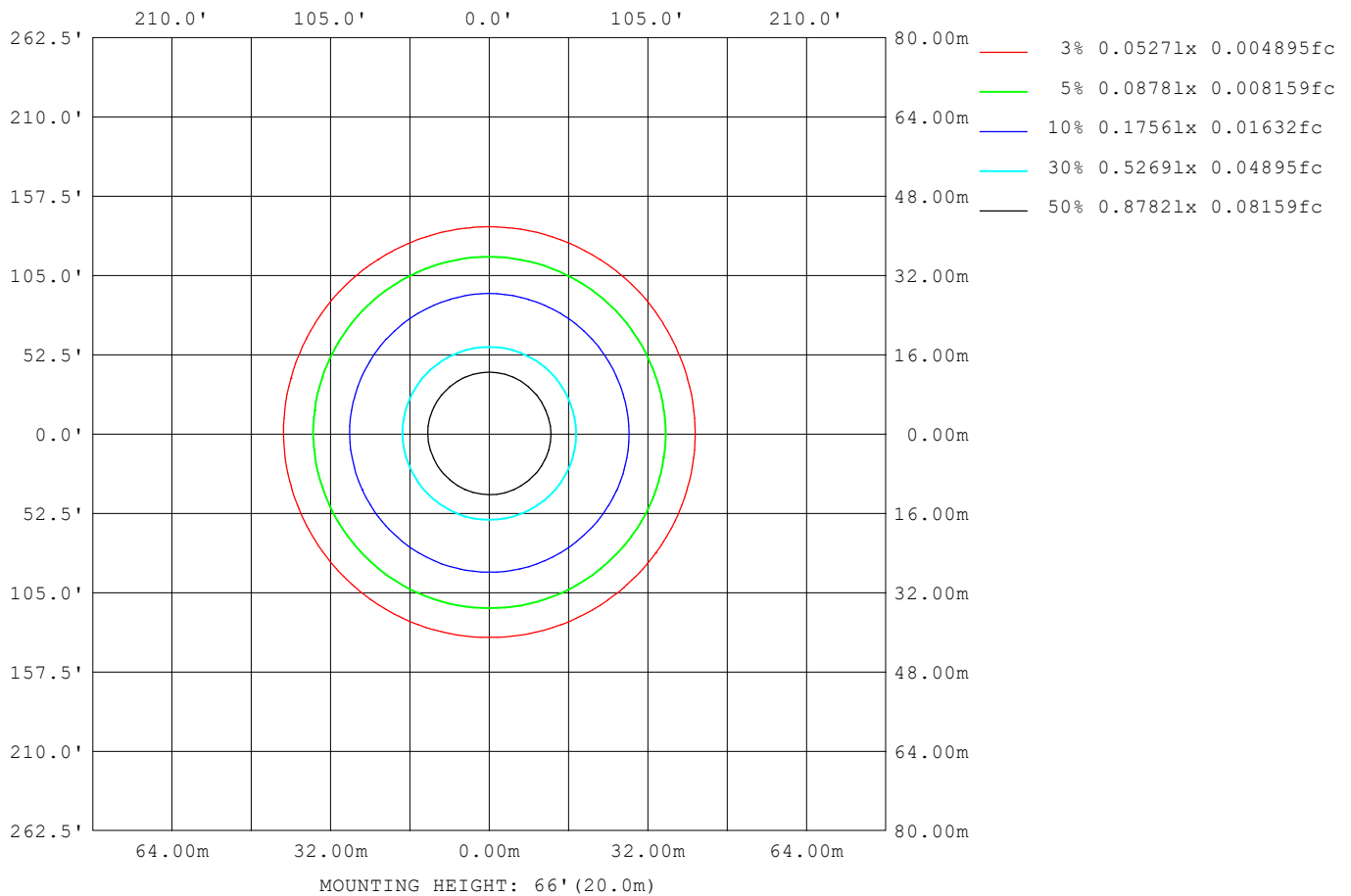
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.08V I:0.2490A P:26.982W PF:0.9024 Freq:59.98Hz Lamp Flux:2012.1x1 lm		
NAME: S9-3090-N-WH	TYPE:	WEIGHT:
SPEC.:3000K	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:120.08V I:0.2490A P:26.982W PF:0.9024 Freq:59.98Hz Lamp Flux:2012.1x1 lm		
NAME: S9-3090-N-WH	TYPE:	WEIGHT:
SPEC.:3000K	DIM.:	SERIAL No.:
MFR.: ADS	SUR.:	Shielding Angle:

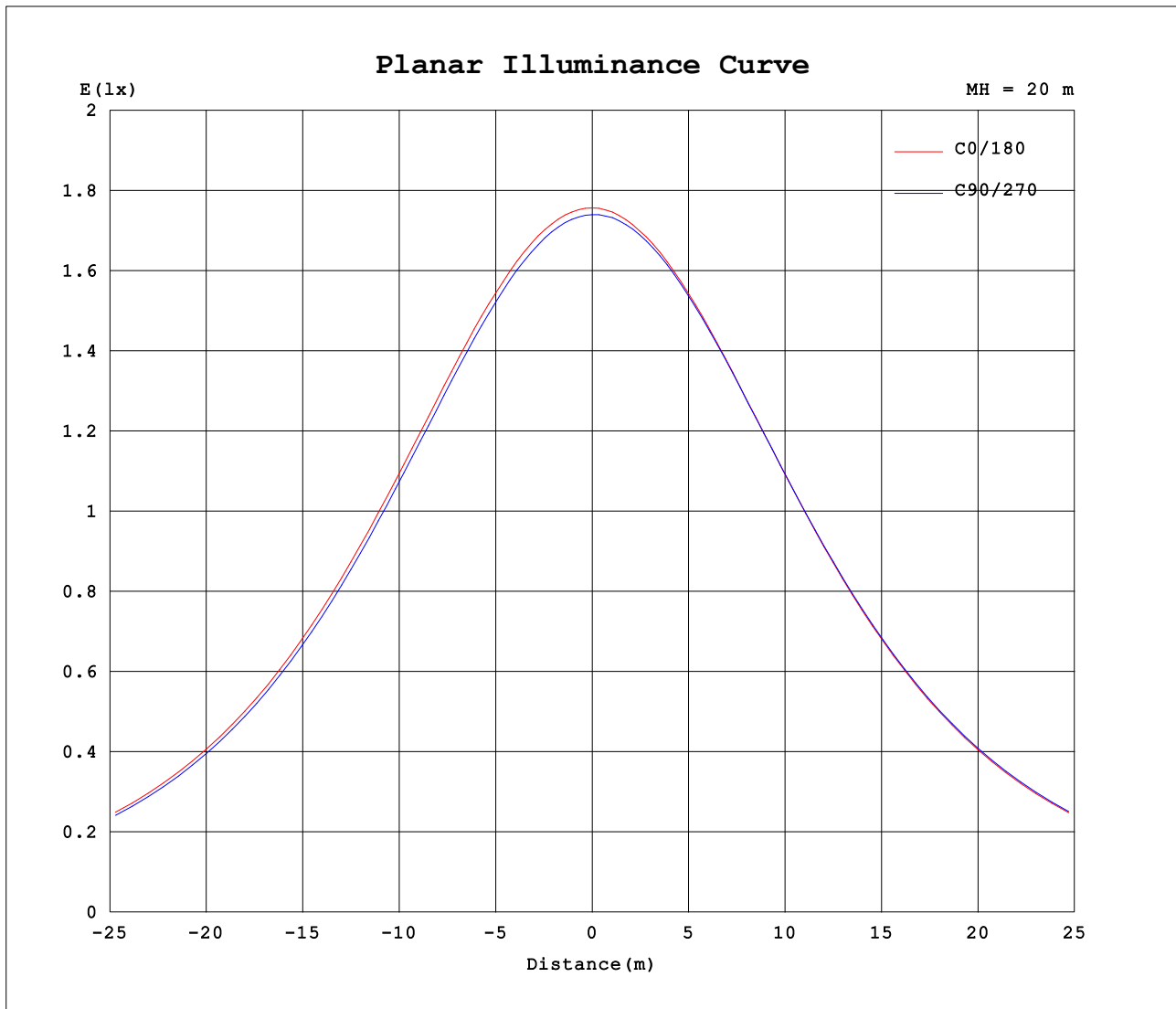
AvgL	cd/m2
L_0~180 (65) av	5285
L_0~180 (75) av	4972
L_0~180 (85) av	6011
L_90~270 (65) av	5287
L_90~270 (75) av	4985
L_90~270 (85) av	6183
L_45 (65) av	5284
L_45 (75) av	4977
L_45 (85) av	6095

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:

```