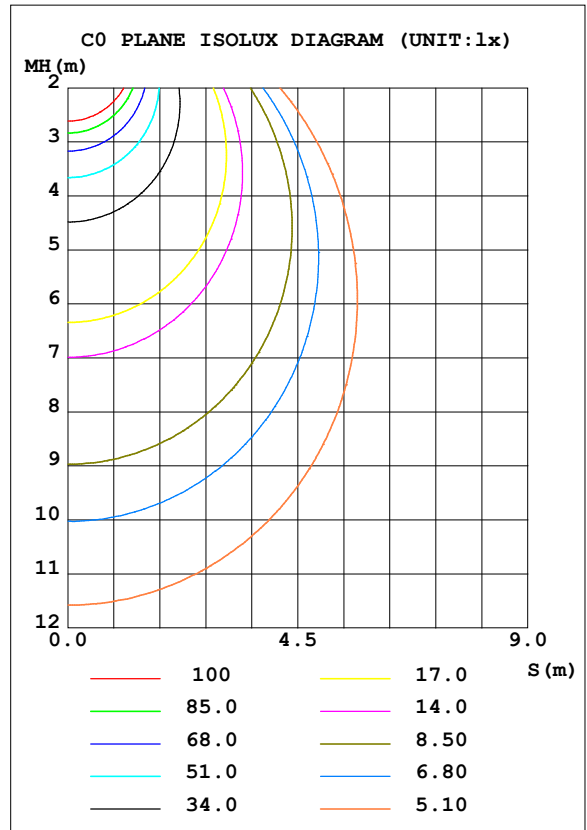
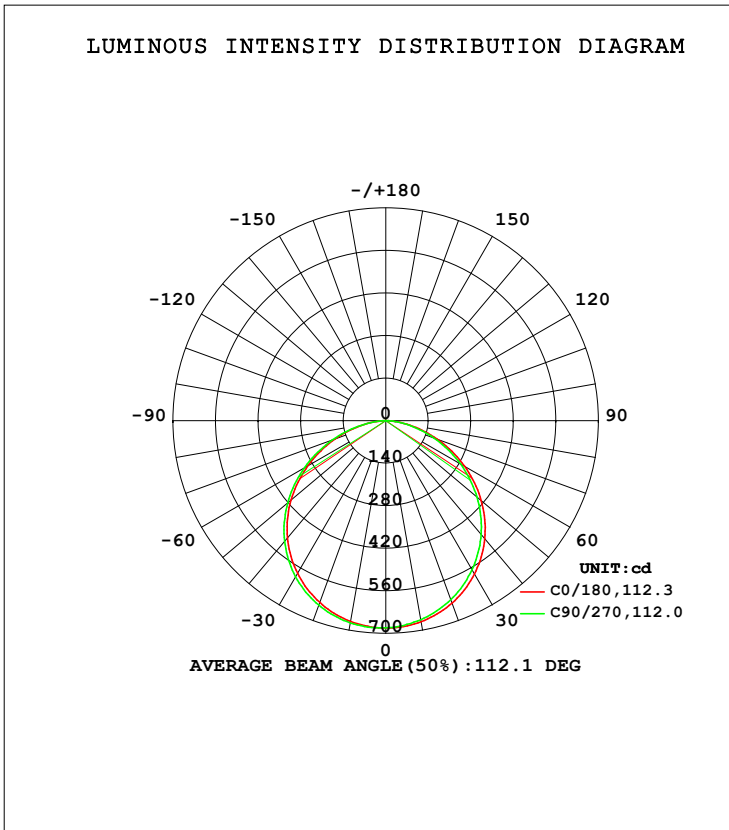


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.98V I:0.2668A P:29.335W PF:1.1321 Freq:59.98Hz Lamp Flux:1937.11x1 lm		
NAME: ADS15R-Tunable CCT-3CCT	TYPE:	WEIGHT:
SPEC.:3000K 90	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 66.03 lm/W			
MODEL: ADS15R-Tunable CCT-3CCT		I _{max} (cd)	682.9	S/MH (C0/180)	1.27
NOMINAL POWER (W)	30	LOR (%)	100.0	S/MH (C90/270)	1.29
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	1937.1	<input type="checkbox"/> UP, DN (C0-180)	0.0, 49.1
NOMINAL FLUX (lm)	1937.11	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	0.0, 50.9
LAMPS INSIDE	1	<input type="checkbox"/> up (%)	0.0	CIBSE SHR NOM	1.25
TEST VOLTAGE (V)	120	<input type="checkbox"/> down (%)	100.0	CIBSE SHR MAX	1.35



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators:
 Test Date: 2021-09-18

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:

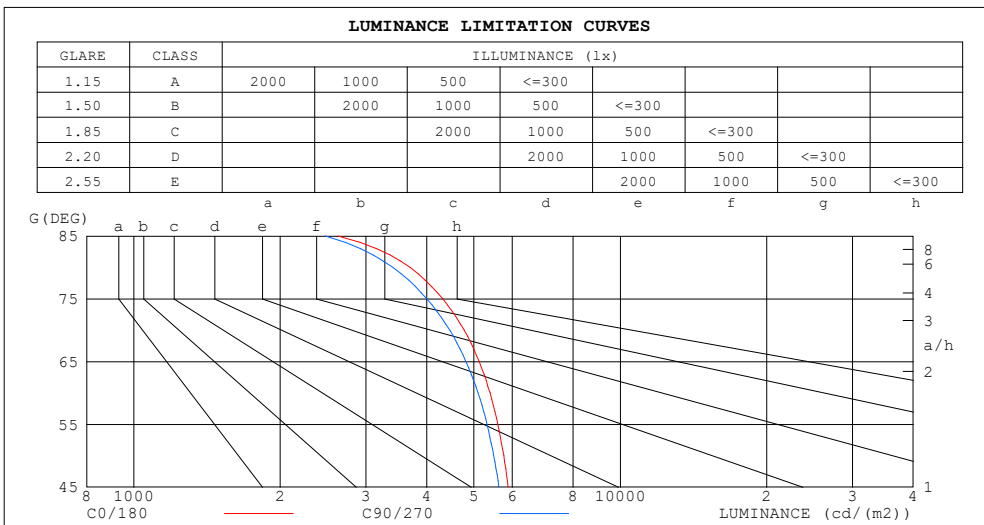
mm	C0	C45	C90	C135	C180	C225	C270	C315	mm	□ zone	□ total	%lum, lamp
10	671.3	667.9	665.0	666.9	670.5	674.0	675.7	675.0	0- 10	64.57	64.57	3.33,3.33
20	638.6	631.6	626.9	629.0	636.2	643.5	646.1	644.4	10- 20	185.4	249.9	12.9,12.9
30	583.4	574.2	567.2	570.1	580.5	590.4	593.8	590.9	20- 30	282.0	531.9	27.5,27.5
40	507.0	496.7	488.5	491.3	503.8	515.2	518.6	515.6	30- 40	341.1	873.0	45.1,45.1
50	410.8	400.8	392.1	394.7	406.9	418.6	421.6	418.8	40- 50	353.3	1226	63.3,63.3
60	299.5	291.3	283.3	284.6	295.4	305.9	308.0	305.8	50- 60	315.9	1542	79.6,79.6
70	181.4	175.9	169.5	169.5	178.0	185.9	187.1	185.5	60- 70	235.4	1778	91.8,91.8
80	71.29	69.26	65.75	64.67	68.92	72.97	73.05	72.19	70- 80	129.4	1907	98.4,98.4
90	0.6251	0.5108	0.3577	0.4239	0.6175	0.6236	0.6451	0.6657	80- 90	30.09	1937	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:2021-09-18

□ 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:119.98V I:0.2668A P:29.335W PF:1.1321 Freq:59.98Hz Lamp Flux:1937.11x1 lm		
NAME: ADS15R-Tunable CCT-3CCT	TYPE:	WEIGHT:
SPEC.:3000K 90	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2627	2477
80	3701	3409
75	4316	4000
70	4781	4460
65	5130	4816
60	5399	5100
55	5603	5317
50	5762	5491
45	5880	5628

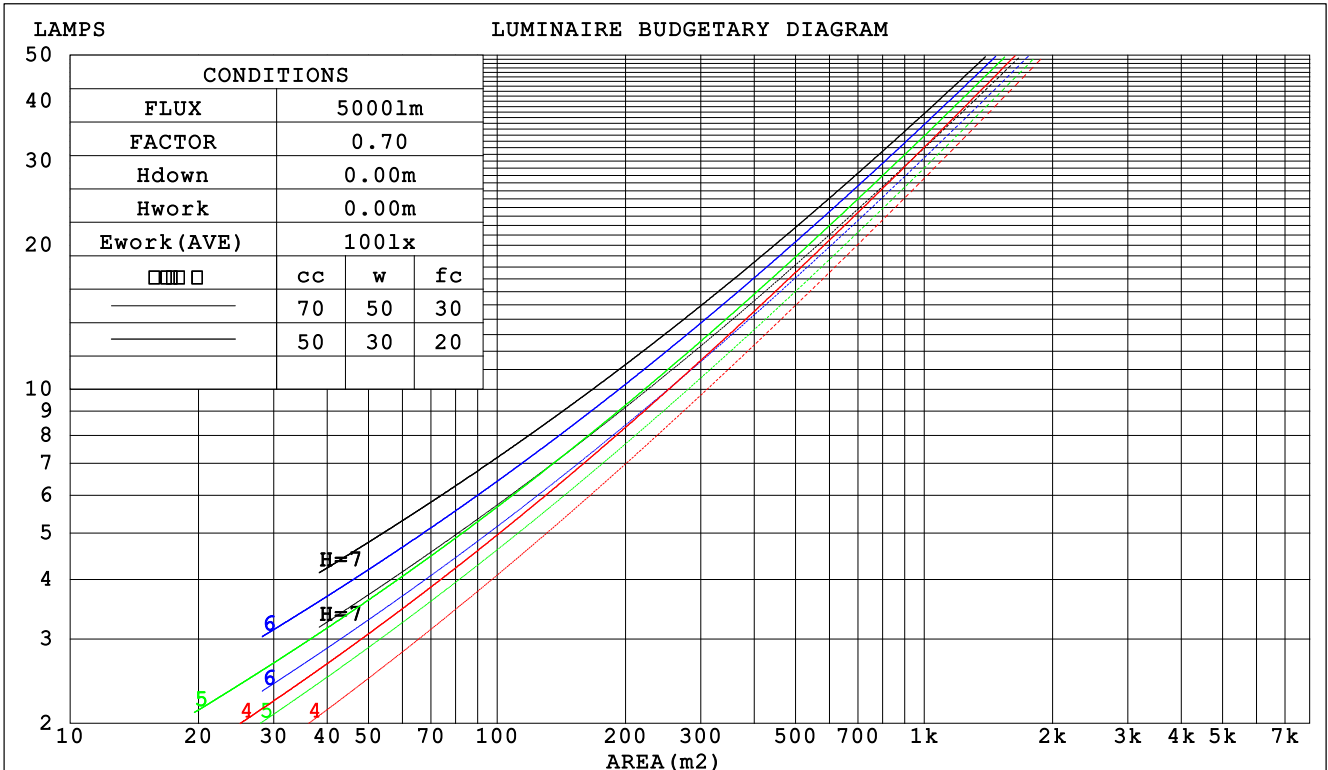
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-09-18

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:119.98V I:0.2668A P:29.335W PF:1.1321 Freq:59.98Hz Lamp Flux:1937.11x1 lm		
NAME: ADS15R-Tunable CCT-3CCT	TYPE:	WEIGHT:
SPEC.:3000K 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						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	1.04	.00	.96	1.02	.98	.95	.98	.94	.92	.94	.91	.89	.90	.88	.86	.84
2.0	.91	.84	.78	.89	.83	.77	.85	.80	.76	.82	.78	.74	.79	.75	.72	.70
3.0	.80	.72	.65	.78	.71	.64	.75	.69	.63	.72	.67	.62	.70	.65	.61	.59
4.0	.71	.62	.55	.69	.61	.55	.67	.60	.54	.64	.58	.53	.62	.57	.52	.50
5.0	.63	.54	.47	.62	.53	.47	.60	.52	.47	.58	.51	.46	.56	.50	.46	.43
6.0	.57	.48	.41	.56	.47	.41	.54	.46	.41	.52	.46	.40	.51	.45	.40	.38
7.0	.51	.43	.36	.51	.42	.36	.49	.42	.36	.48	.41	.36	.46	.40	.36	.34
8.0	.47	.38	.33	.46	.38	.32	.45	.37	.32	.44	.37	.32	.42	.36	.32	.30
9.0	.43	.35	.29	.42	.35	.29	.41	.34	.29	.40	.34	.29	.39	.33	.29	.27
10.0	.40	.32	.26	.39	.32	.26	.38	.31	.26	.37	.31	.26	.36	.30	.26	.24



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-09-18

□ 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:119.98V I:0.2668A P:29.335W PF:1.1321 Freq:59.98Hz Lamp Flux:1937.11x1 lm		
NAME: ADS15R-Tunable CCT-3CCT	TYPE:	WEIGHT:
SPEC.:3000K 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	.304 .173 .055	.297 .170 .054	.284 .163 .052	.272 .157 .050	.261 .151 .049	
2.0	.288 .158 .048	.282 .155 .048	.270 .150 .047	.260 .146 .046	.250 .141 .045	
3.0	.268 .142 .043	.262 .140 .042	.252 .137 .041	.242 .133 .041	.233 .129 .040	
4.0	.248 .129 .038	.243 .127 .038	.234 .124 .037	.225 .121 .036	.217 .118 .036	
5.0	.229 .117 .034	.225 .115 .034	.217 .113 .033	.209 .110 .033	.202 .108 .032	
6.0	.213 .107 .031	.209 .106 .030	.202 .103 .030	.195 .101 .030	.189 .099 .029	
7.0	.198 .098 .028	.195 .097 .028	.188 .095 .027	.182 .093 .027	.177 .092 .027	
8.0	.185 .090 .025	.182 .090 .025	.176 .088 .025	.171 .087 .025	.166 .085 .025	
9.0	.174 .084 .023	.171 .083 .023	.166 .082 .023	.161 .081 .023	.156 .079 .023	
10.0	.163 .078 .022	.161 .078 .022	.156 .076 .022	.152 .075 .021	.148 .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	.180 .156 .135	.154 .134 .116	.105 .092 .080	.061 .053 .047	.019 .017 .015	
2.0	.172 .132 .098	.147 .114 .085	.101 .079 .059	.058 .046 .035	.019 .015 .011	
3.0	.164 .114 .075	.141 .099 .065	.097 .068 .045	.056 .040 .027	.018 .013 .009	
4.0	.156 .101 .059	.134 .087 .051	.092 .061 .036	.053 .036 .021	.017 .012 .007	
5.0	.149 .091 .047	.128 .078 .041	.088 .055 .029	.051 .032 .017	.016 .010 .006	
6.0	.142 .082 .039	.122 .071 .034	.084 .050 .024	.049 .029 .014	.016 .010 .005	
7.0	.135 .075 .033	.116 .065 .029	.080 .046 .021	.047 .027 .012	.015 .009 .004	
8.0	.129 .069 .029	.111 .060 .025	.077 .042 .018	.045 .025 .011	.014 .008 .004	
9.0	.123 .065 .025	.106 .056 .022	.073 .039 .016	.043 .023 .009	.014 .008 .003	
10.0	.117 .060 .022	.101 .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:2021-09-18

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:119.98V I:0.2668A P:29.335W PF:1.1321 Freq:59.98Hz Lamp Flux:1937.11x1 lm										
NAME: ADS15R-Tunable CCT-3CCT					TYPE:			WEIGHT:		
SPEC.:3000K 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	16.5	18.1	16.8	18.3	18.5	16.3	17.8	16.6	18.0	18.2
3H	18.0	19.4	18.3	19.6	19.9	17.7	19.1	18.0	19.4	19.6
4H	18.6	19.9	18.9	20.1	20.4	18.3	19.6	18.6	19.8	20.1
6H	18.9	20.2	19.3	20.5	20.7	18.6	19.9	18.9	20.1	20.4
8H	19.0	20.2	19.4	20.5	20.8	18.7	19.9	19.0	20.2	20.5
12H	19.1	20.2	19.4	20.5	20.8	18.7	19.9	19.1	20.2	20.5
4H 2H	17.1	18.4	17.4	18.7	18.9	16.9	18.3	17.2	18.5	18.8
3H	18.7	19.9	19.1	20.2	20.5	18.5	19.7	18.9	20.0	20.3
4H	19.4	20.5	19.8	20.8	21.1	19.2	20.2	19.5	20.5	20.9
6H	19.9	20.9	20.3	21.2	21.6	19.6	20.6	20.0	20.9	21.3
8H	20.1	20.9	20.5	21.3	21.7	19.8	20.6	20.2	21.0	21.4
12H	20.1	20.9	20.6	21.3	21.7	19.8	20.6	20.3	21.0	21.4
8H 4H	19.6	20.5	20.1	20.9	21.3	19.4	20.3	19.8	20.7	21.0
6H	20.3	21.0	20.7	21.4	21.8	20.0	20.7	20.5	21.1	21.6
8H	20.5	21.1	20.9	21.6	22.0	20.2	20.9	20.7	21.3	21.7
12H	20.6	21.2	21.1	21.6	22.1	20.4	20.9	20.8	21.4	21.8
12H 4H	19.6	20.5	20.1	20.8	21.2	19.4	20.2	19.8	20.6	21.0
6H	20.3	21.0	20.8	21.4	21.8	20.1	20.7	20.5	21.1	21.6
8H	20.6	21.1	21.0	21.6	22.0	20.3	20.9	20.8	21.3	21.8
Variations with the observer position at spacings:										
S = 1.0H	+ 0.2 / - 0.2					+ 0.2 / - 0.2				
1.5H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H	+ 0.2 / - 0.3					+ 0.2 / - 0.3				

CIE Pub.117, 1937 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.3)
 Area: 0.111111 m2

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-09-18

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:119.98V I:0.2668A P:29.335W PF:1.1321 Freq:59.98Hz Lamp Flux:1937.11x1 lm		
NAME: ADS15R-Tunable CCT-3CCT	TYPE:	WEIGHT:
SPEC.:3000K 90	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

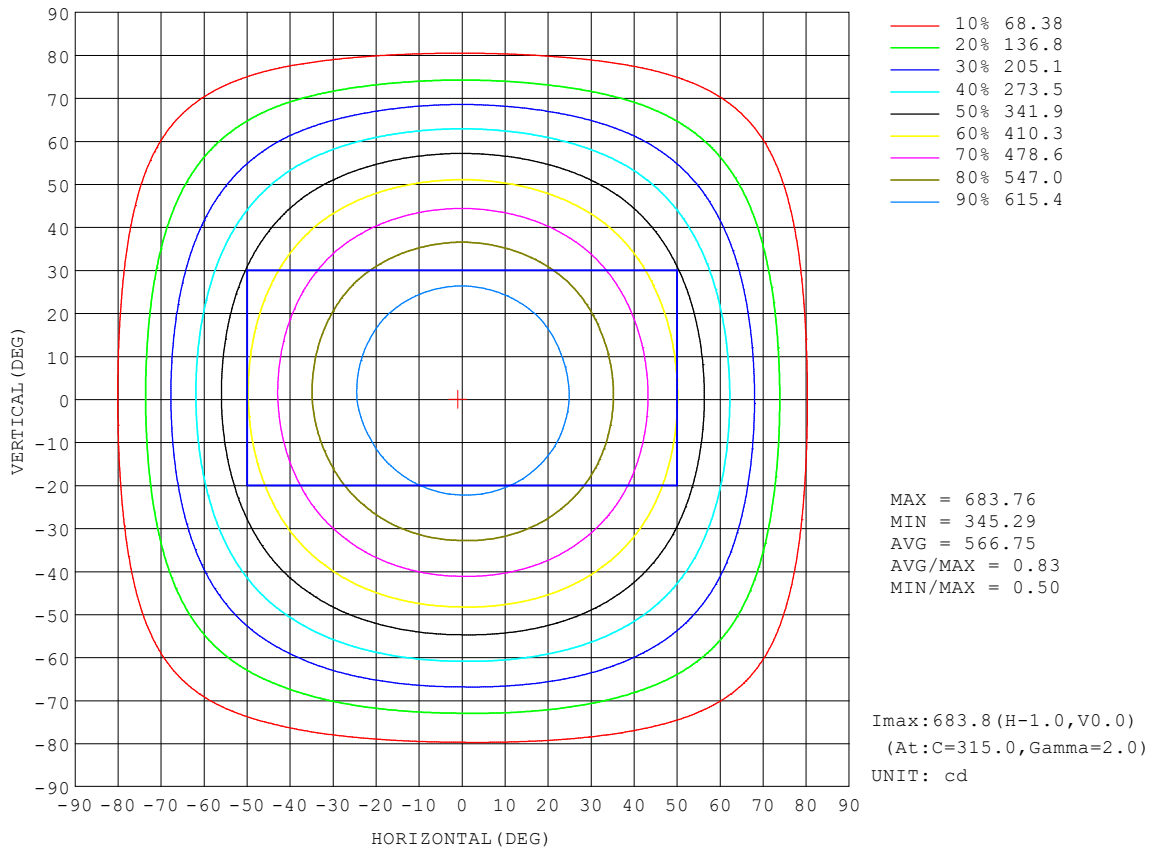
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	46	39	57	46	39	56	45	39	32
0.80	68	56	49	67	56	49	65	55	48	41
1.00	76	65	58	75	65	58	73	66	57	50
1.25	83	73	66	82	72	66	79	71	65	57
1.50	88	79	72	87	78	71	84	76	70	63
2.00	95	87	80	93	86	80	90	83	78	70
2.50	99	91	86	97	90	85	93	87	83	74
3.00	102	96	90	100	94	89	96	91	87	79
4.00	106	101	96	104	99	95	100	96	92	83
5.00	109	104	100	106	102	99	102	99	95	86
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:2021-09-18

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:119.98V I:0.2668A P:29.335W PF:1.1321 Freq:59.98Hz Lamp Flux:1937.11x1 lm		
NAME: ADS15R-Tunable CCT-3CCT	TYPE:	WEIGHT:
SPEC.:3000K 90	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

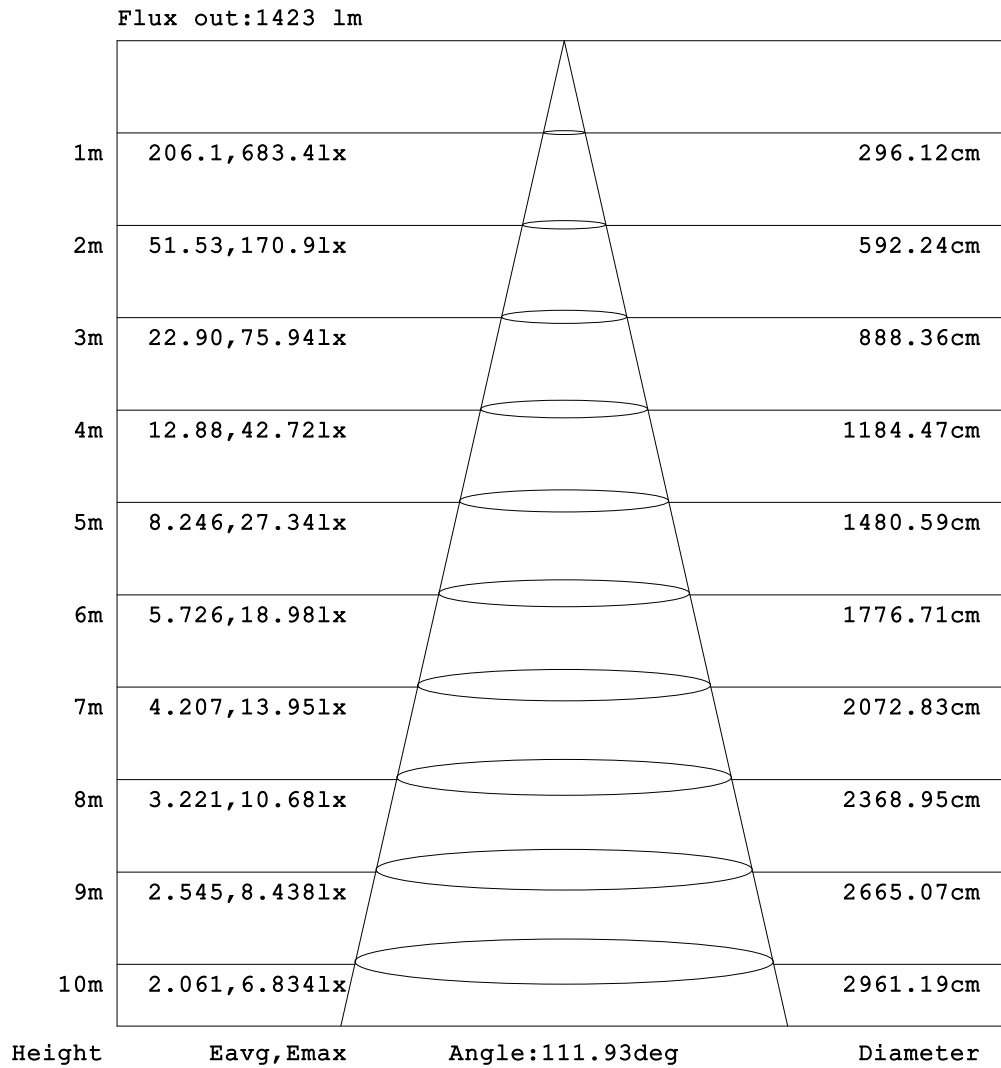


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-09-18

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:119.98V I:0.2668A P:29.335W PF:1.1321 Freq:59.98Hz Lamp Flux:1937.11x1 lm		
NAME: ADS15R-Tunable CCT-3CCT	TYPE:	WEIGHT:
SPEC.:3000K 90	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



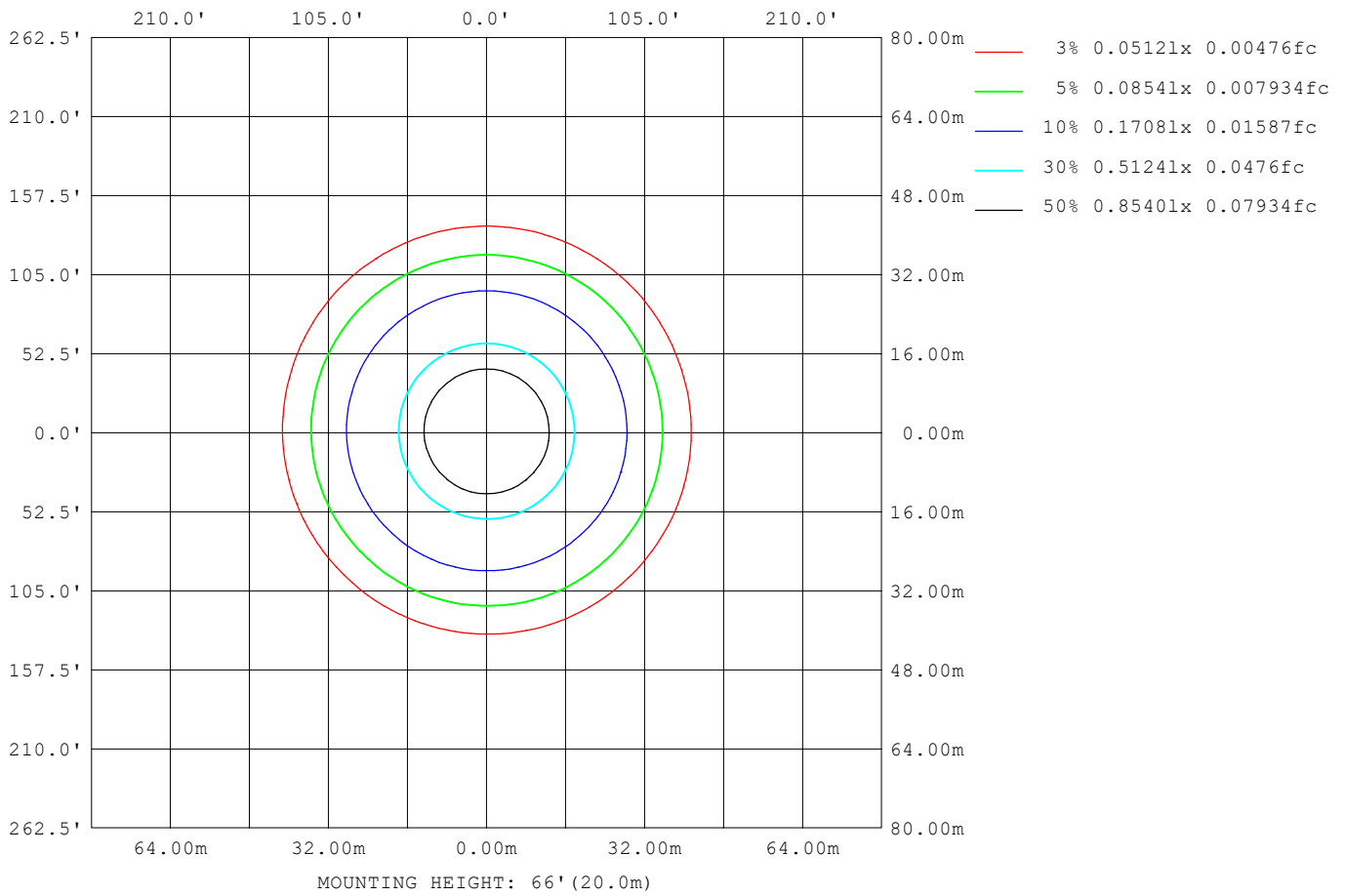
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-09-18

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:119.98V I:0.2668A P:29.335W PF:1.1321 Freq:59.98Hz Lamp Flux:1937.11x1 lm		
NAME: ADS15R-Tunable CCT-3CCT	TYPE:	WEIGHT:
SPEC.:3000K 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:2021-09-18

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:119.98V I:0.2668A P:29.335W PF:1.1321 Freq:59.98Hz Lamp Flux:1937.11x1 lm		
NAME: ADS15R-Tunable CCT-3CCT	TYPE:	WEIGHT:
SPEC.:3000K 90	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

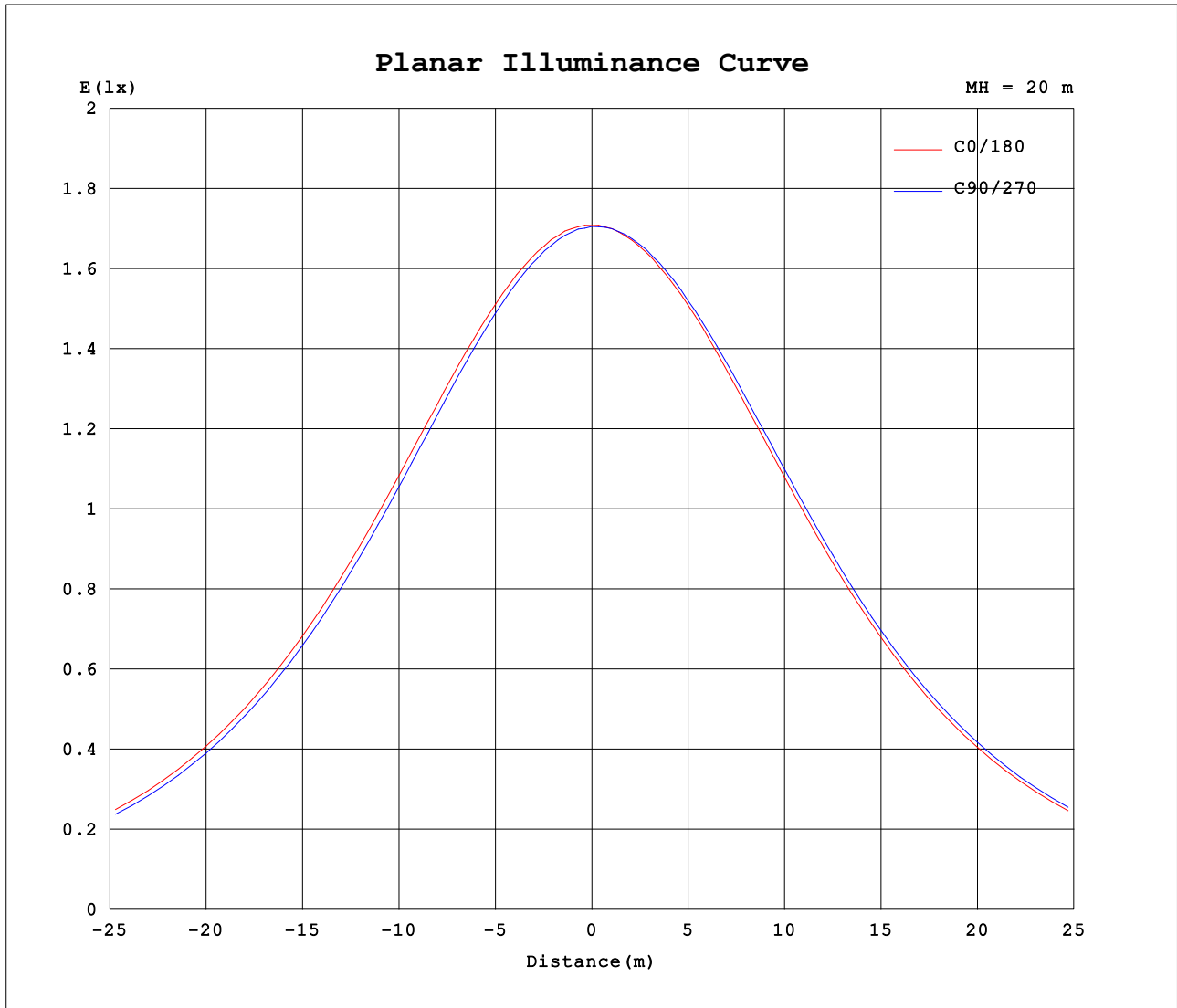
AvgL	cd/m2
L_0~180 (65) av	5081
L_0~180 (75) av	4257
L_0~180 (85) av	2564
L_90~270 (65) av	5046
L_90~270 (75) av	4218
L_90~270 (85) av	2603
L_45 (65) av	5070
L_45 (75) av	4244
L_45 (85) av	2565

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-09-18

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: 2021-09-18

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:

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:119.98V I:0.2668A P:29.335W PF:1.1321 Freq:59.98Hz Lamp Flux:1937.11x1 lm		
NAME: ADS15R-Tunable CCT-3CCT	TYPE:	WEIGHT:
SPEC.:3000K 90	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

Table--1

UNIT: cd

C (DEG) □ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	682	682	682	682	682	682	682	682	682	682	682	682	682	682	682	682			
5	680	679	678	677	676	677	677	678	679	680	681	682	682	682	681	680			
10	671	670	668	666	665	666	667	669	670	672	674	675	676	676	675	673			
15	658	655	652	650	648	649	651	653	657	659	662	663	664	664	662	660			
20	639	635	632	628	627	627	629	632	636	640	643	645	646	646	644	642			
25	614	610	605	602	599	600	602	606	611	615	620	622	623	622	621	617			
30	583	579	574	570	567	567	570	575	581	586	590	593	594	593	591	587			
35	548	543	538	533	530	531	533	538	545	550	555	558	559	558	556	552			
40	507	502	497	492	488	489	491	497	504	509	515	517	519	517	516	510			
45	461	457	451	446	442	443	445	451	458	463	469	471	472	471	470	465			
50	411	407	401	396	392	393	395	400	407	413	419	420	422	420	419	414			
55	357	353	347	343	339	339	341	346	353	358	364	365	366	365	364	359			
60	299	296	291	287	283	283	285	290	295	301	306	307	308	307	306	301			
65	241	238	234	230	226	227	227	232	237	241	246	247	248	246	246	242			
70	181	180	176	173	169	170	170	174	178	181	186	186	187	186	186	182			
75	124	124	120	118	115	115	114	118	121	123	127	127	128	126	127	124			
80	71.3	71.1	69.3	68.0	65.8	65.1	64.7	66.7	68.9	70.8	73.0	72.8	73.0	72.2	72.2	70.8			
85	25.4	25.5	24.9	24.9	24.0	23.4	22.8	23.5	24.3	24.9	26.0	26.1	26.4	25.8	25.7	24.9			
90	0.63	0.62	0.51	0.41	0.36	0.38	0.42	0.45	0.62	0.64	0.62	0.64	0.65	0.63	0.67	0.76			

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-09-18

□ 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: