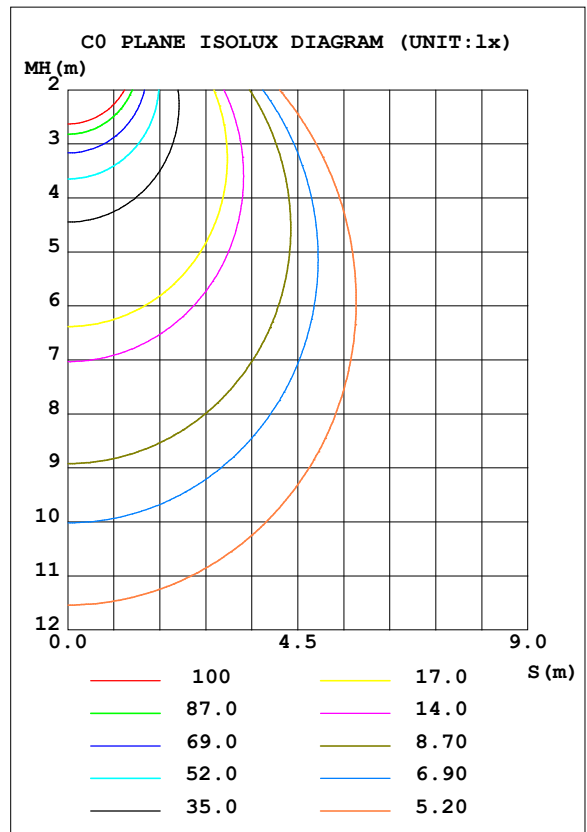
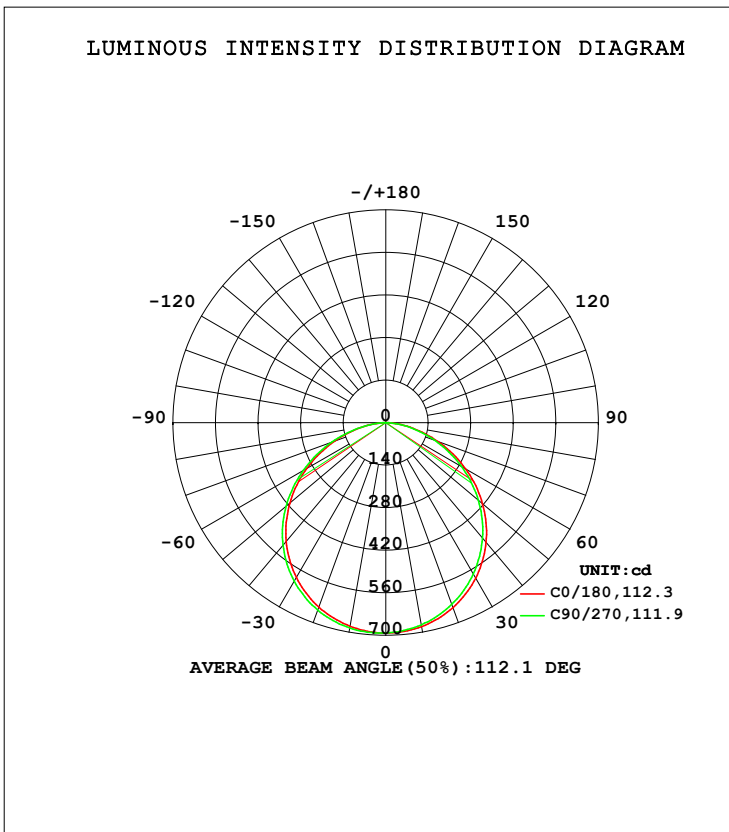


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.01V I:0.2640A P:28.933W PF:1.1348 Freq:59.98Hz Lamp Flux:1964.44x1 lm		
NAME: ADS15R-Tunable CCT-3CCT	TYPE:	WEIGHT:
SPEC.:5000K 90	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 67.90 lm/W
MODEL: ADS15R-Tunable CCT-3CCT		Imax (cd)	693.4	S/MH (C0/180)		1.26
NOMINAL POWER (W)	30	LOR (%)	100.0	S/MH (C90/270)		1.29
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	1964.4	<input type="checkbox"/> UP, DN (C0-180)		0.0,49.1
NOMINAL FLUX (lm)	1964.44	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:

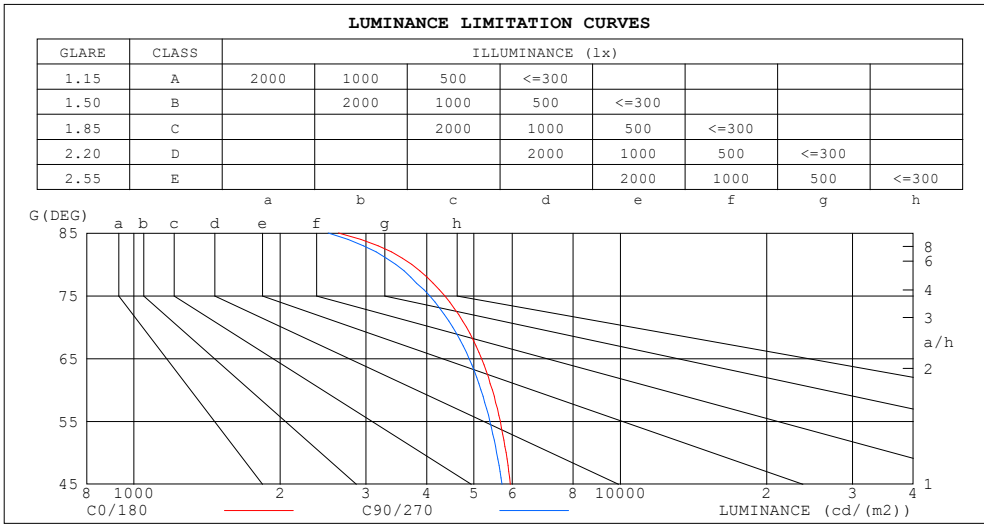
mm	C0	C45	C90	C135	C180	C225	C270	C315	mm	□ zone	□ total	%lum, lamp
10	681.3	677.8	675.7	676.4	680.3	684.5	686.0	685.3	0- 10	65.53	65.53	3.34,3.34
20	647.7	640.5	636.1	637.9	645.2	653.2	656.4	654.6	10- 20	188.1	253.6	12.9,12.9
30	591.9	582.0	575.6	578.0	588.0	599.2	602.9	600.1	20- 30	286.1	539.7	27.5,27.5
40	513.9	503.3	495.5	498.0	510.1	522.1	526.2	523.1	30- 40	345.9	885.7	45.1,45.1
50	416.1	405.9	397.8	400.0	412.1	424.2	428.1	425.0	40- 50	358.3	1244	63.3,63.3
60	303.2	294.7	287.1	288.6	299.2	310.1	312.7	310.2	50- 60	320.3	1564	79.6,79.6
70	183.5	177.8	171.8	171.7	180.2	188.5	189.9	188.3	60- 70	238.6	1803	91.8,91.8
80	71.95	69.86	66.63	65.50	69.78	73.96	74.06	73.10	70- 80	131.1	1934	98.5,98.5
90	0.6633	0.5411	0.3644	0.4408	0.6957	0.6649	0.6663	0.6856	80- 90	30.43	1964	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:120.01V I:0.2640A P:28.933W PF:1.1348 Freq:59.98Hz Lamp Flux:1964.44x1 lm		
NAME: ADS15R-Tunable CCT-3CCT	TYPE:	WEIGHT:
SPEC.:5000K 90	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



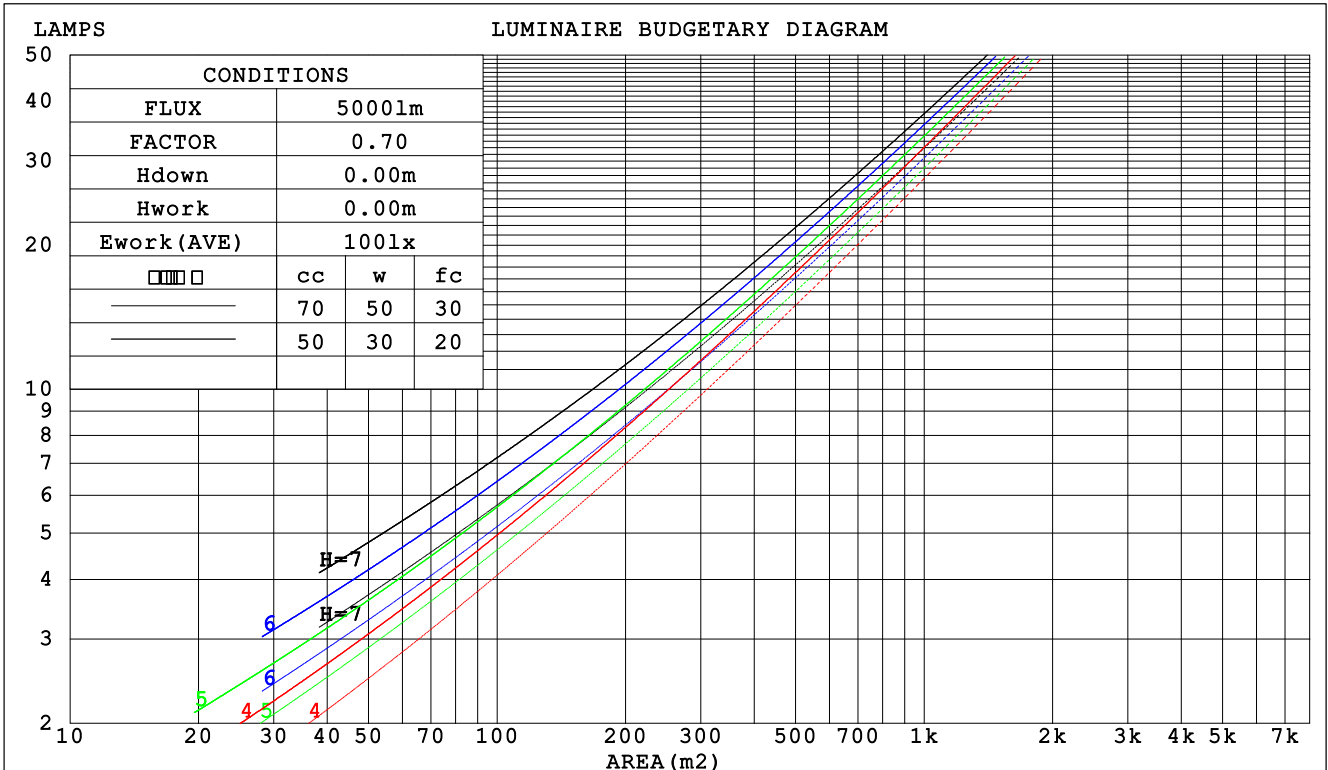
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-09-18

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:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

Test:U:120.01V I:0.2640A P:28.933W PF:1.1348 Freq:59.98Hz Lamp Flux:1964.44x1 lm		
NAME: ADS15R-Tunable CCT-3CCT	TYPE:	WEIGHT:
SPEC.:5000K 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	.27	.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:120.01V I:0.2640A P:28.933W PF:1.1348 Freq:59.98Hz Lamp Flux:1964.44x1 lm		
NAME: ADS15R-Tunable CCT-3CCT	TYPE:	WEIGHT:
SPEC.:5000K 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	.136	.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:120.01V I:0.2640A P:28.933W PF:1.1348 Freq:59.98Hz Lamp Flux:1964.44x1 lm										
NAME: ADS15R-Tunable CCT-3CCT					TYPE:			WEIGHT:		
SPEC.:5000K 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	18.0	16.8	18.2	18.4	16.3	17.8	16.6	18.0	18.2
3H	18.0	19.4	18.3	19.6	19.8	17.7	19.1	18.0	19.3	19.6
4H	18.5	19.9	18.8	20.1	20.4	18.2	19.6	18.6	19.8	20.1
6H	18.9	20.2	19.2	20.4	20.7	18.6	19.8	18.9	20.1	20.4
8H	19.0	20.2	19.3	20.5	20.8	18.7	19.9	19.0	20.2	20.5
12H	19.0	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	18.2	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	20.8	20.3	21.2	21.5	19.6	20.6	20.0	20.9	21.3
8H	20.0	20.9	20.4	21.3	21.7	19.8	20.6	20.2	21.0	21.4
12H	20.1	20.9	20.5	21.3	21.7	19.8	20.6	20.3	21.0	21.4
8H 4H	19.6	20.5	20.0	20.9	21.3	19.4	20.3	19.8	20.6	21.0
6H	20.2	21.0	20.7	21.4	21.8	20.0	20.7	20.4	21.1	21.6
8H	20.5	21.1	20.9	21.5	22.0	20.2	20.9	20.7	21.3	21.7
12H	20.6	21.1	21.1	21.6	22.1	20.3	20.9	20.8	21.3	21.8
12H 4H	19.6	20.4	20.0	20.8	21.2	19.4	20.2	19.8	20.6	21.0
6H	20.3	20.9	20.7	21.4	21.8	20.0	20.7	20.5	21.1	21.6
8H	20.5	21.1	21.0	21.5	22.0	20.3	20.8	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, 1964 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:120.01V I:0.2640A P:28.933W PF:1.1348 Freq:59.98Hz Lamp Flux:1964.44x1 lm		
NAME: ADS15R-Tunable CCT-3CCT	TYPE:	WEIGHT:
SPEC.:5000K 90	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

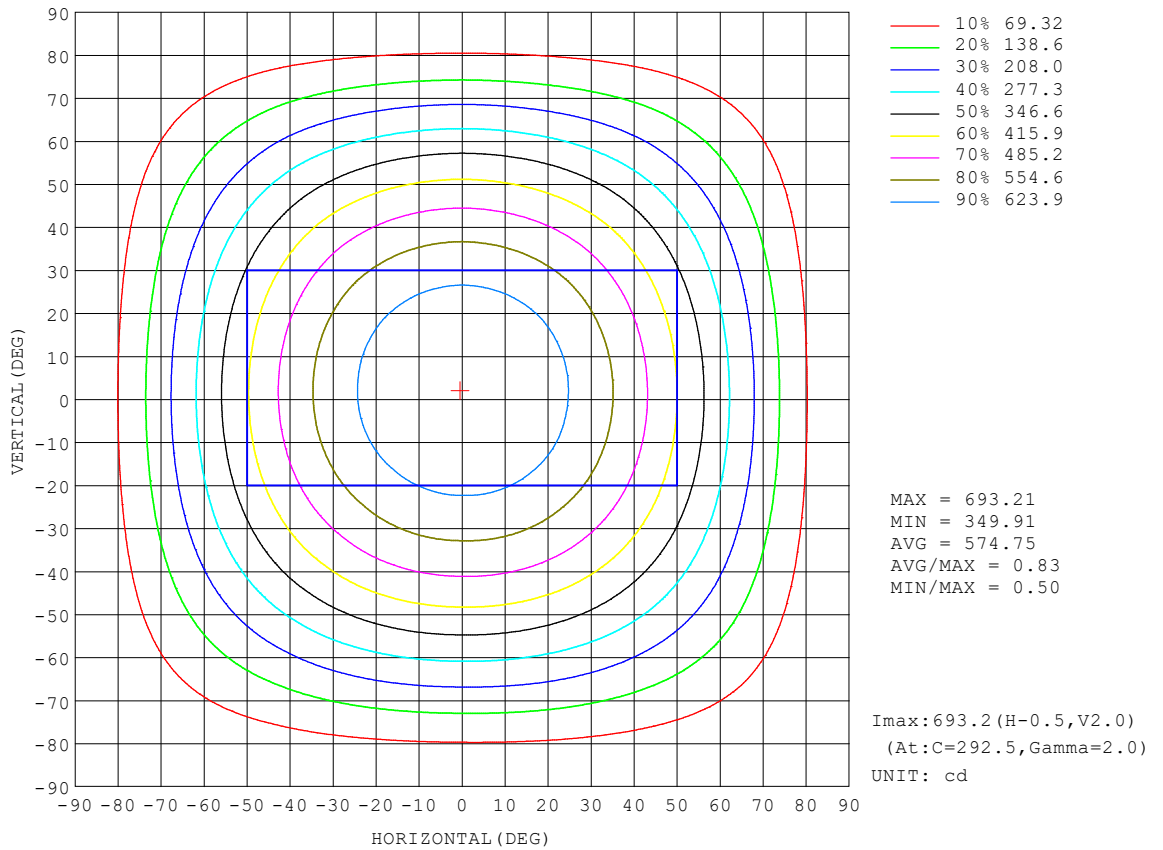
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	46	39	57	46	39	56	45	39	32
0.80	68	56	49	67	56	49	65	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	75
3.00	103	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:120.01V I:0.2640A P:28.933W PF:1.1348 Freq:59.98Hz Lamp Flux:1964.44x1 lm		
NAME: ADS15R-Tunable CCT-3CCT	TYPE:	WEIGHT:
SPEC.:5000K 90	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

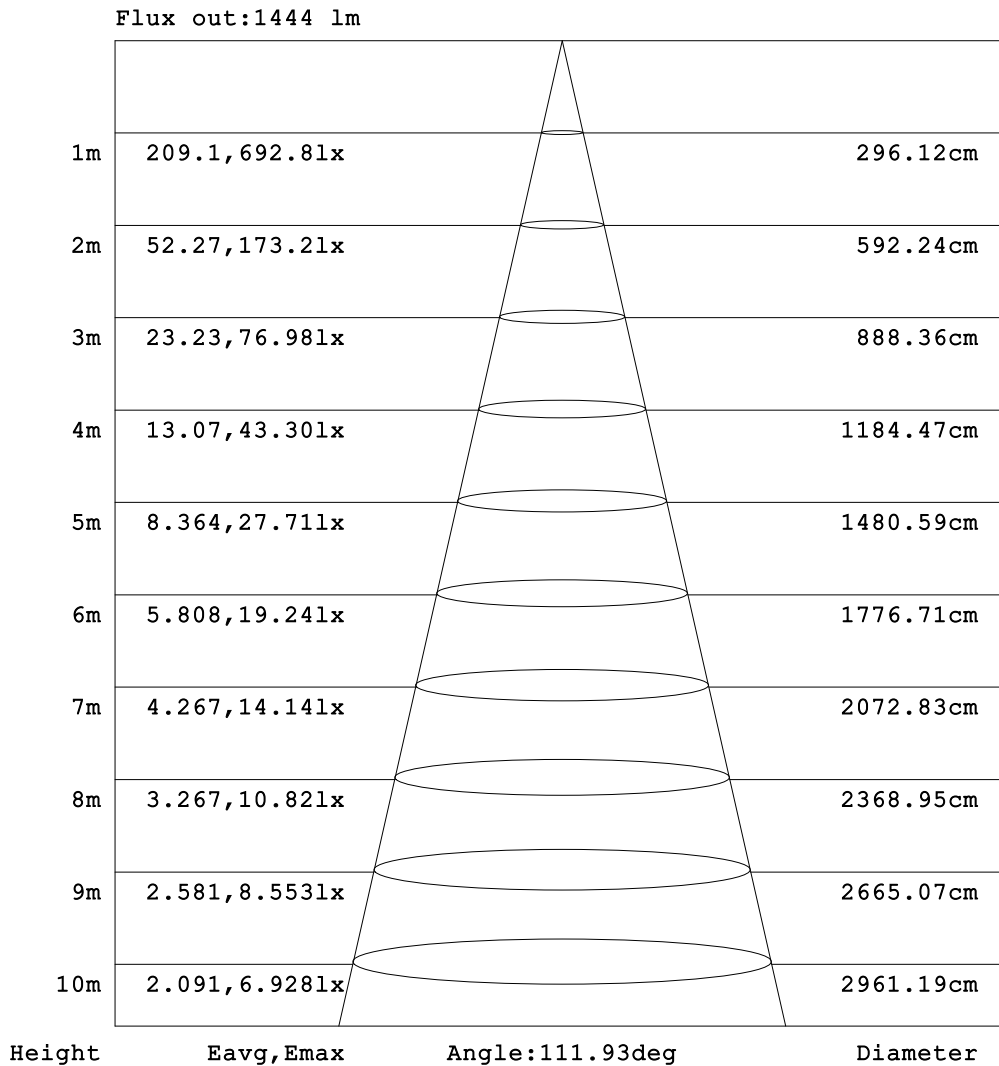


C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-09-18

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:120.01V I:0.2640A P:28.933W PF:1.1348 Freq:59.98Hz Lamp Flux:1964.44x1 lm		
NAME: ADS15R-Tunable CCT-3CCT	TYPE:	WEIGHT:
SPEC.:5000K 90	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



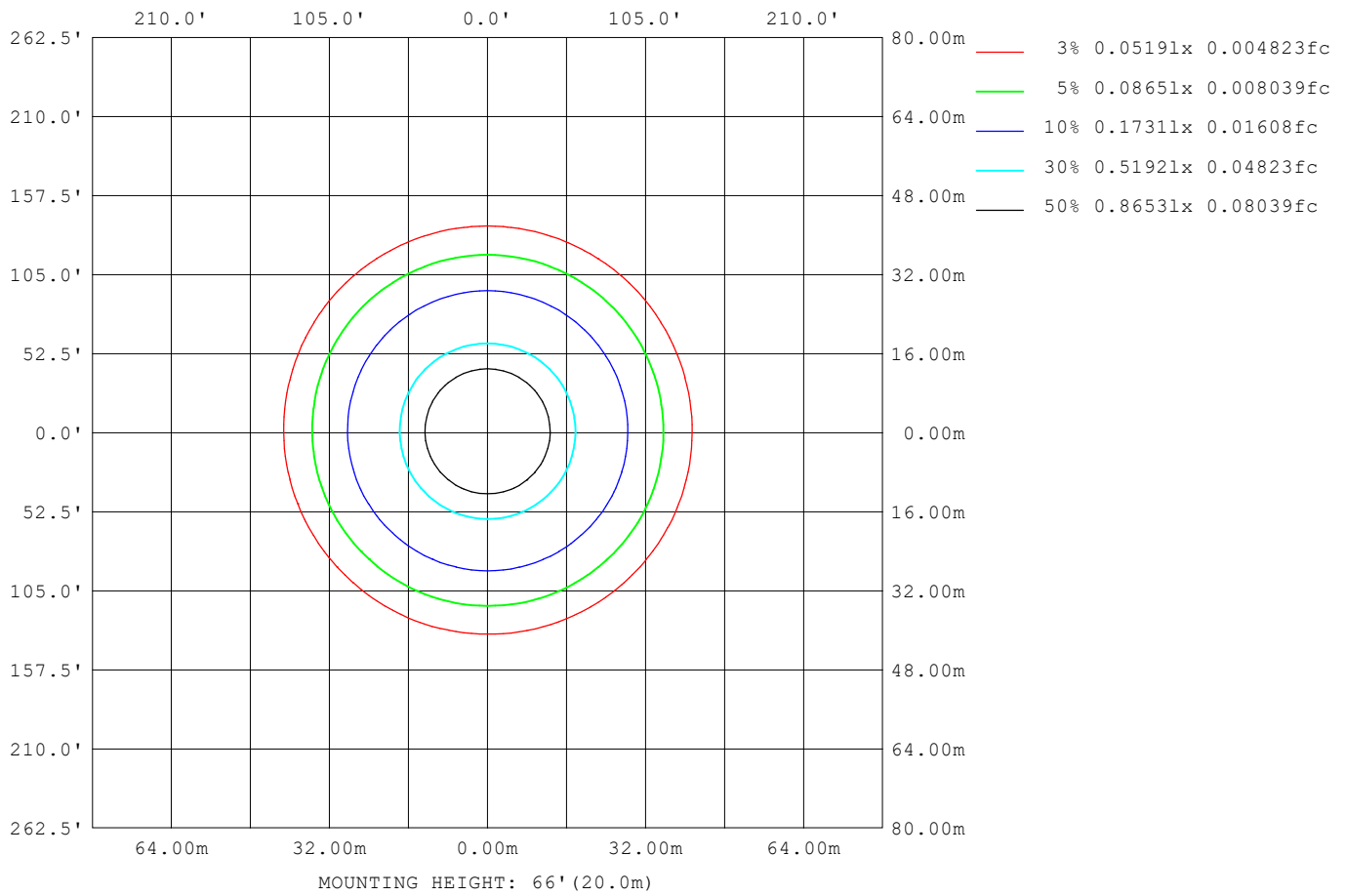
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:120.01V I:0.2640A P:28.933W PF:1.1348 Freq:59.98Hz Lamp Flux:1964.44x1 lm		
NAME: ADS15R-Tunable CCT-3CCT	TYPE:	WEIGHT:
SPEC.:5000K 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:120.01V I:0.2640A P:28.933W PF:1.1348 Freq:59.98Hz Lamp Flux:1964.44x1 lm		
NAME: ADS15R-Tunable CCT-3CCT	TYPE:	WEIGHT:
SPEC.:5000K 90	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

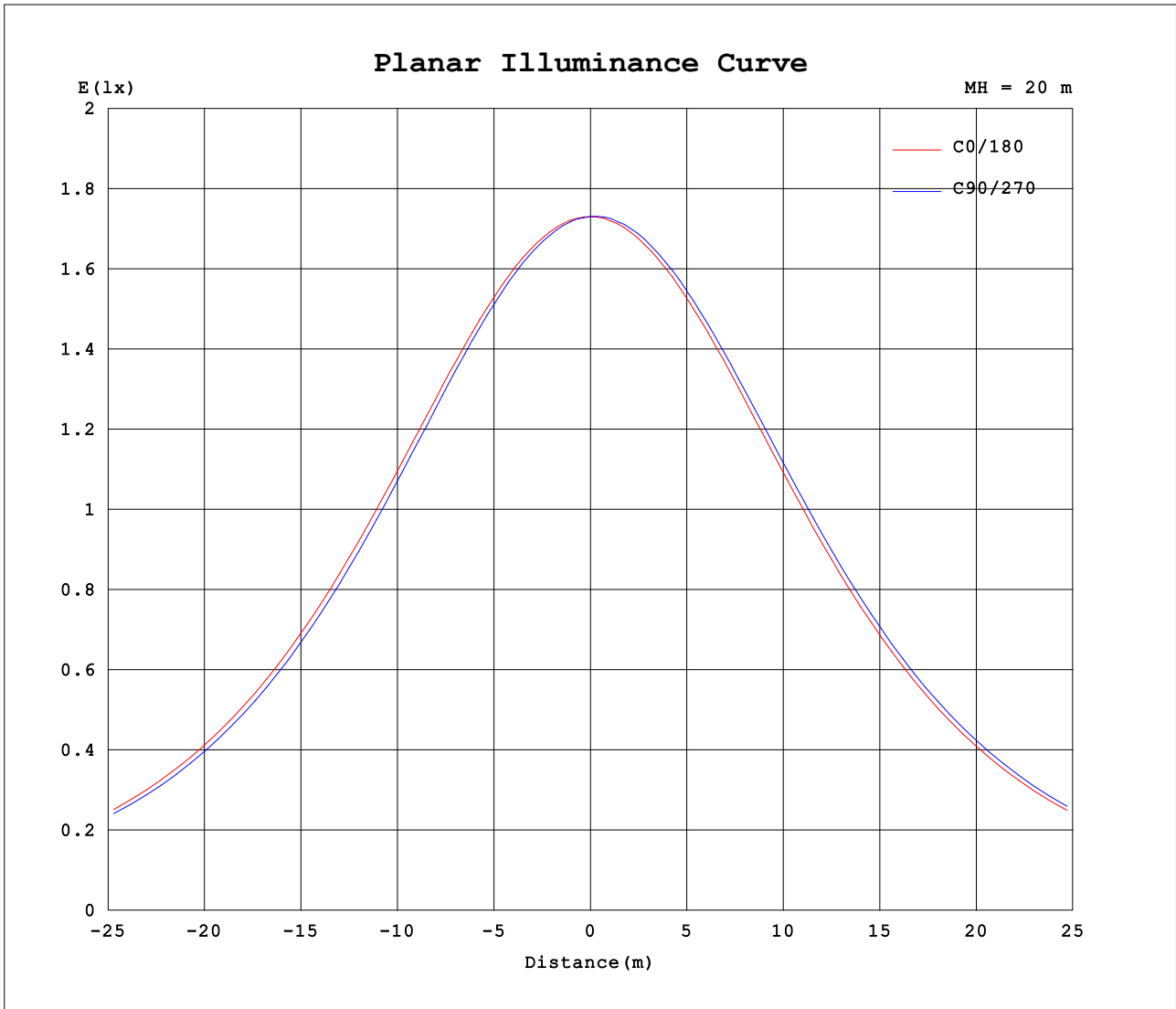
AvgL	cd/m2
L_0~180 (65) av	5147
L_0~180 (75) av	4306
L_0~180 (85) av	2580
L_90~270 (65) av	5121
L_90~270 (75) av	4277
L_90~270 (85) av	2639
L_45 (65) av	5139
L_45 (75) av	4297
L_45 (85) av	2587

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
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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:120.01V I:0.2640A P:28.933W PF:1.1348 Freq:59.98Hz Lamp Flux:1964.44x1 lm		
NAME: ADS15R-Tunable CCT-3CCT	TYPE:	WEIGHT:
SPEC.:5000K 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	692	692	692	692	692	692	692	692	692	692	692	692	692	692	692	692			
5	690	689	688	687	687	687	687	688	689	690	691	692	692	692	692	691			
10	681	679	678	676	676	676	676	678	680	683	685	685	686	685	685	683			
15	667	664	662	660	659	659	660	663	666	669	672	673	674	674	673	670			
20	648	644	641	638	636	637	638	642	645	650	653	655	656	655	655	651			
25	622	618	614	611	608	609	611	615	619	625	629	631	632	631	630	626			
30	592	587	582	579	576	576	578	583	588	594	599	601	603	602	600	596			
35	555	550	545	541	538	539	540	546	552	558	564	566	567	566	565	560			
40	514	509	503	499	496	496	498	504	510	517	522	525	526	525	523	518			
45	467	463	457	452	449	449	451	457	463	470	476	478	480	478	477	471			
50	416	412	406	402	398	399	400	406	412	419	424	426	428	427	425	420			
55	361	357	352	347	344	344	346	351	357	364	369	371	372	371	369	364			
60	303	300	295	290	287	288	289	293	299	305	310	311	313	312	310	306			
65	244	241	236	233	229	230	230	235	240	245	250	250	251	250	249	246			
70	183	182	178	175	172	172	172	176	180	184	189	189	190	188	188	185			
75	125	125	121	120	117	116	116	119	122	125	129	129	129	128	128	126			
80	71.9	71.8	69.9	68.7	66.6	66.0	65.5	67.5	69.8	71.8	74.0	73.8	74.1	73.2	73.1	71.7			
85	25.5	25.6	25.0	25.1	24.3	23.7	23.0	23.8	24.5	25.2	26.3	26.5	26.8	26.0	25.9	25.2			
90	0.66	0.66	0.54	0.42	0.36	0.38	0.44	0.47	0.70	0.68	0.66	0.67	0.67	0.65	0.69	0.79			

C Range: 0 - 360DEG	□ Range: 0 - 90DEG
C Interval: 22.5DEG	□ Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
Temperature:25.3DEG	Humidity:65.0%
Operators:	Test Distance:3.080m [K=1.0000]
Test Date:2021-09-18	Remarks: