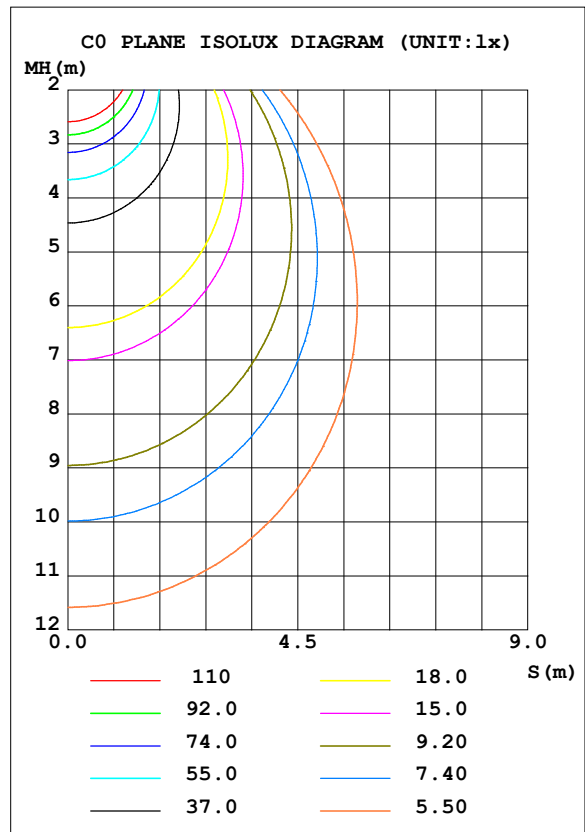
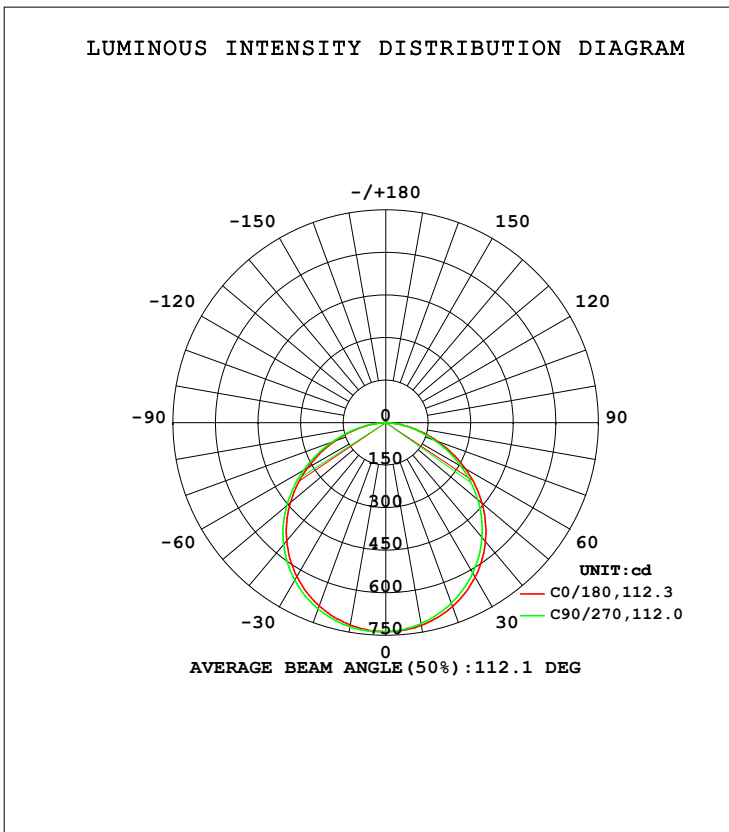


LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:119.97V I:0.2688A P:29.689W PF:1.1286 Freq:59.98Hz Lamp Flux:2092.4x1 lm		
NAME: ADS15R-Tunable CCT-3CCT	TYPE:	WEIGHT:
SPEC.:4000K 90	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 70.48 lm/W
MODEL: ADS15R-Tunable CCT-3CCT		I _{max} (cd)	738.2	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)	2092.4	<input type="checkbox"/> UP, DN (C0-180)		0.0,49.1
NOMINAL FLUX (lm)	2092.4	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:

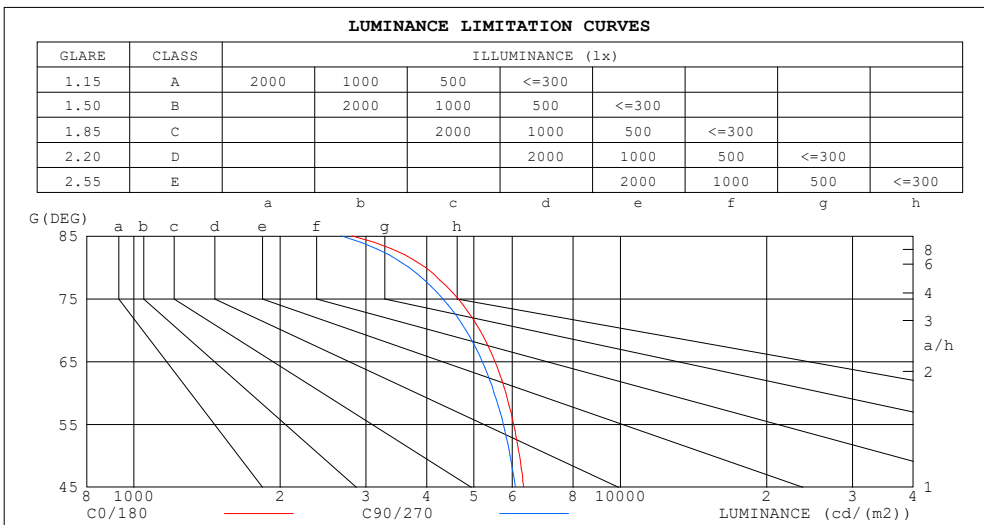
mm	C0	C45	C90	C135	C180	C225	C270	C315	mm	□ zone	□ total	%lum, lamp
10	725.7	721.6	719.5	720.4	724.1	728.5	730.7	729.1	0- 10	69.78	69.78	3.34,3.34
20	689.6	682.2	677.5	679.3	687.6	695.8	698.8	696.0	10- 20	200.3	270.1	12.9,12.9
30	630.1	620.0	613.4	615.6	626.8	638.2	641.8	638.3	20- 30	304.7	574.8	27.5,27.5
40	547.3	536.1	527.8	530.6	543.3	556.3	560.5	556.7	30- 40	368.5	943.3	45.1,45.1
50	443.2	432.5	423.9	426.1	438.9	451.9	455.4	452.1	40- 50	381.7	1325	63.3,63.3
60	323.0	313.9	305.7	307.2	318.7	330.2	333.1	330.1	50- 60	341.2	1666	79.6,79.6
70	195.6	189.5	183.0	182.9	192.1	201.0	202.3	200.5	60- 70	254.2	1920	91.8,91.8
80	76.69	74.46	70.95	69.78	74.34	78.83	78.96	77.88	70- 80	139.7	2060	98.5,98.5
90	0.6925	0.5704	0.3885	0.4657	0.7392	0.7049	0.7072	0.7274	80- 90	32.42	2092	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:119.97V I:0.2688A P:29.689W PF:1.1286 Freq:59.98Hz Lamp Flux:2092.4x1 lm		
NAME: ADS15R-Tunable CCT-3CCT	TYPE:	WEIGHT:
SPEC.:4000K 90	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	2811	2674
80	3975	3678
75	4645	4316
70	5147	4817
65	5527	5204
60	5816	5504
55	6038	5745
50	6207	5936
45	6333	6084

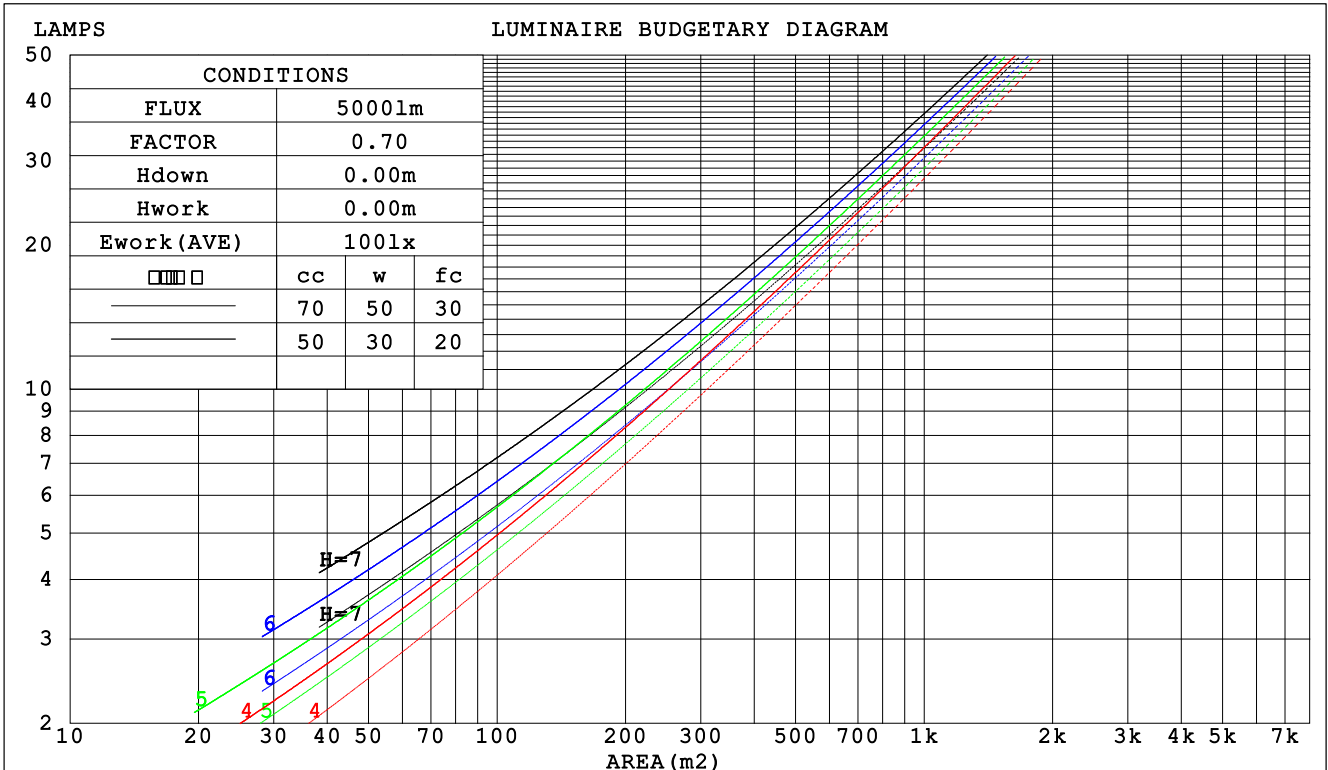
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-09-18

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:119.97V I:0.2688A P:29.689W PF:1.1286 Freq:59.98Hz Lamp Flux:2092.4x1 lm		
NAME: ADS15R-Tunable CCT-3CCT	TYPE:	WEIGHT:
SPEC.:4000K 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	.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:119.97V I:0.2688A P:29.689W PF:1.1286 Freq:59.98Hz Lamp Flux:2092.4x1 lm		
NAME: ADS15R-Tunable CCT-3CCT	TYPE:	WEIGHT:
SPEC.:4000K 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:119.97V I:0.2688A P:29.689W PF:1.1286 Freq:59.98Hz Lamp Flux:2092.4x1 lm										
NAME: ADS15R-Tunable CCT-3CCT					TYPE:			WEIGHT:		
SPEC.:4000K 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	19.9	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	21.2	21.1	21.6	22.1	20.3	20.9	20.8	21.3	21.8
12H 4H	19.6	20.4	20.1	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, 2092 lm Total Lamp Luminous Flux Correct (8log(F/F0) = 2.6)
 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:119.97V I:0.2688A P:29.689W PF:1.1286 Freq:59.98Hz Lamp Flux:2092.4x1 lm		
NAME: ADS15R-Tunable CCT-3CCT	TYPE:	WEIGHT:
SPEC.:4000K 90	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

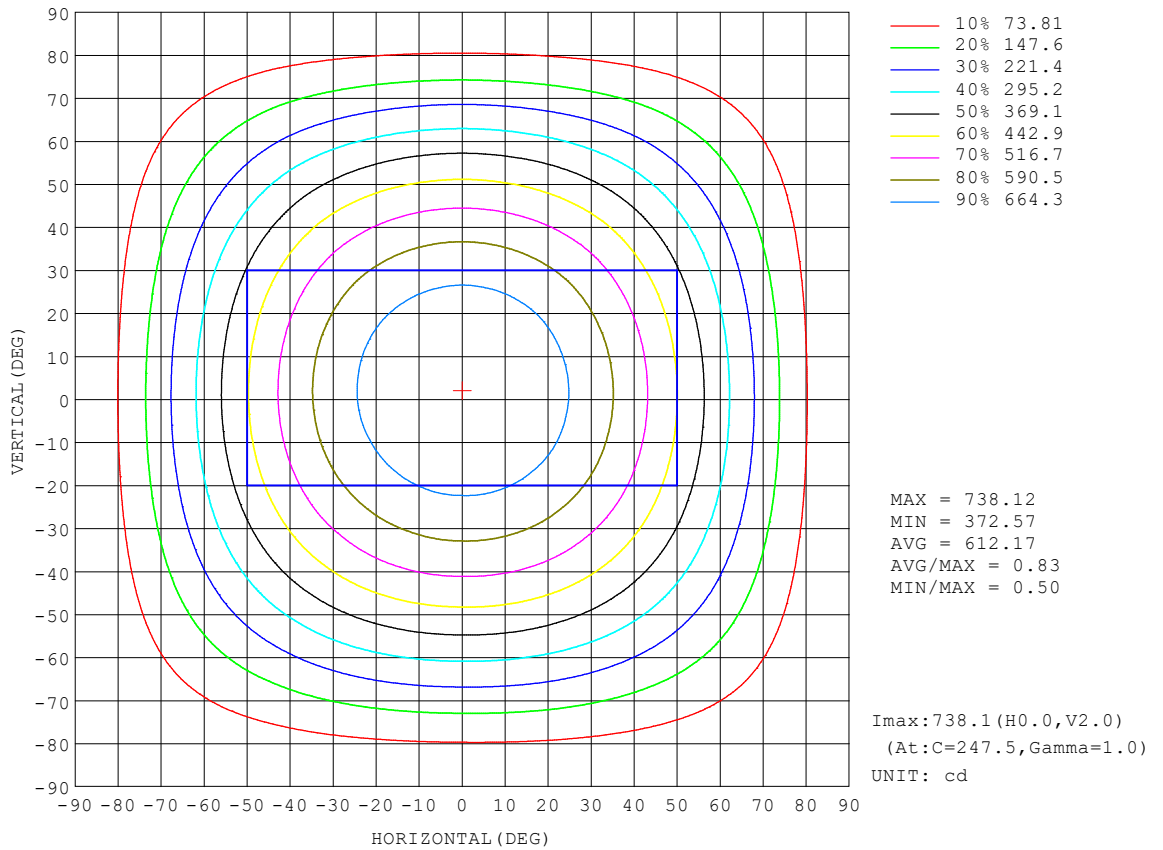
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	58	46	39	57	46	39	56	45	39	32
0.80	68	56	49	67	56	49	65	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:119.97V I:0.2688A P:29.689W PF:1.1286 Freq:59.98Hz Lamp Flux:2092.4x1 lm		
NAME: ADS15R-Tunable CCT-3CCT	TYPE:	WEIGHT:
SPEC.:4000K 90	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

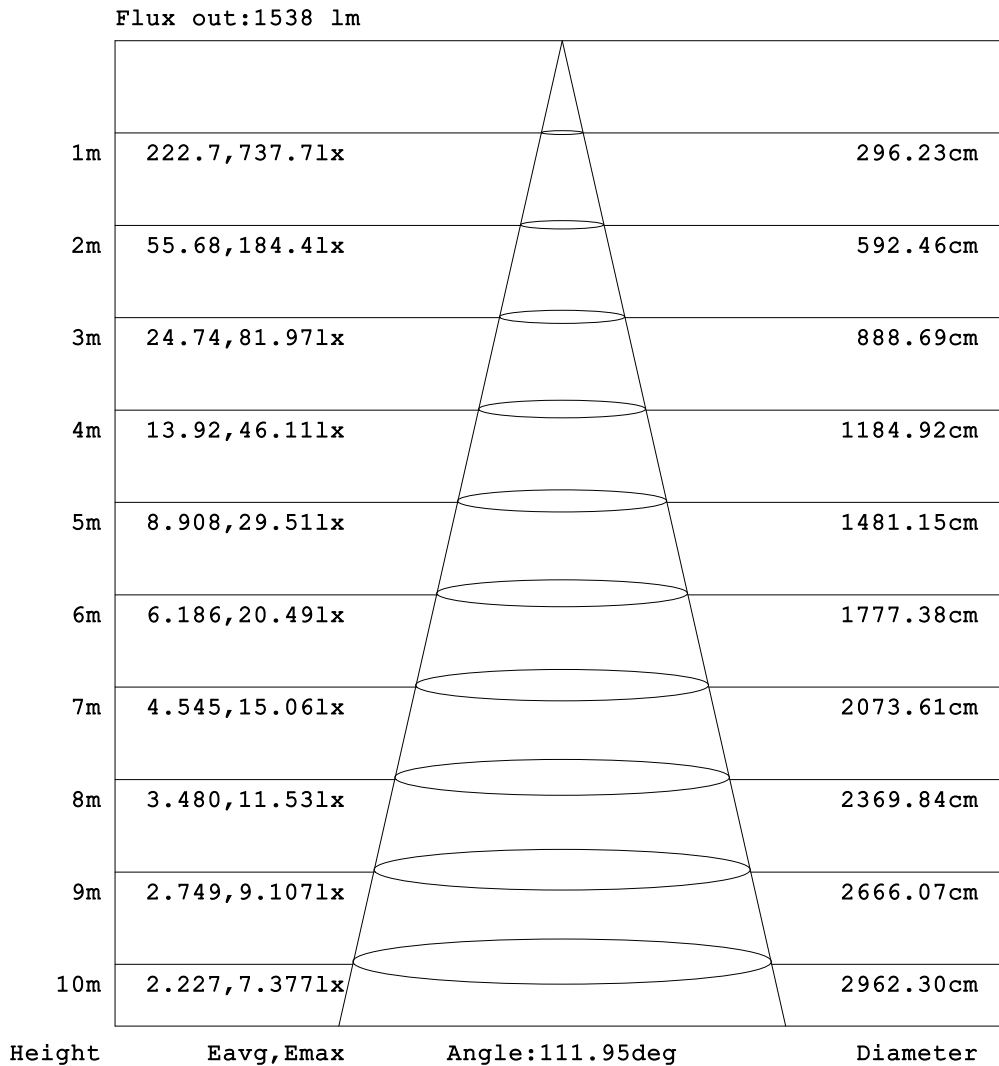


C Range: 0 - 360DEG
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 Test Speed: HIGH
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Range: 0 - 90DEG
 Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.421
 Humidity:65.0%
 Test Distance:3.080m [K=1.0000]
 Remarks:

AAI Figure

Test:U:119.97V I:0.2688A P:29.689W PF:1.1286 Freq:59.98Hz Lamp Flux:2092.4x1 lm		
NAME: ADS15R-Tunable CCT-3CCT	TYPE:	WEIGHT:
SPEC.:4000K 90	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



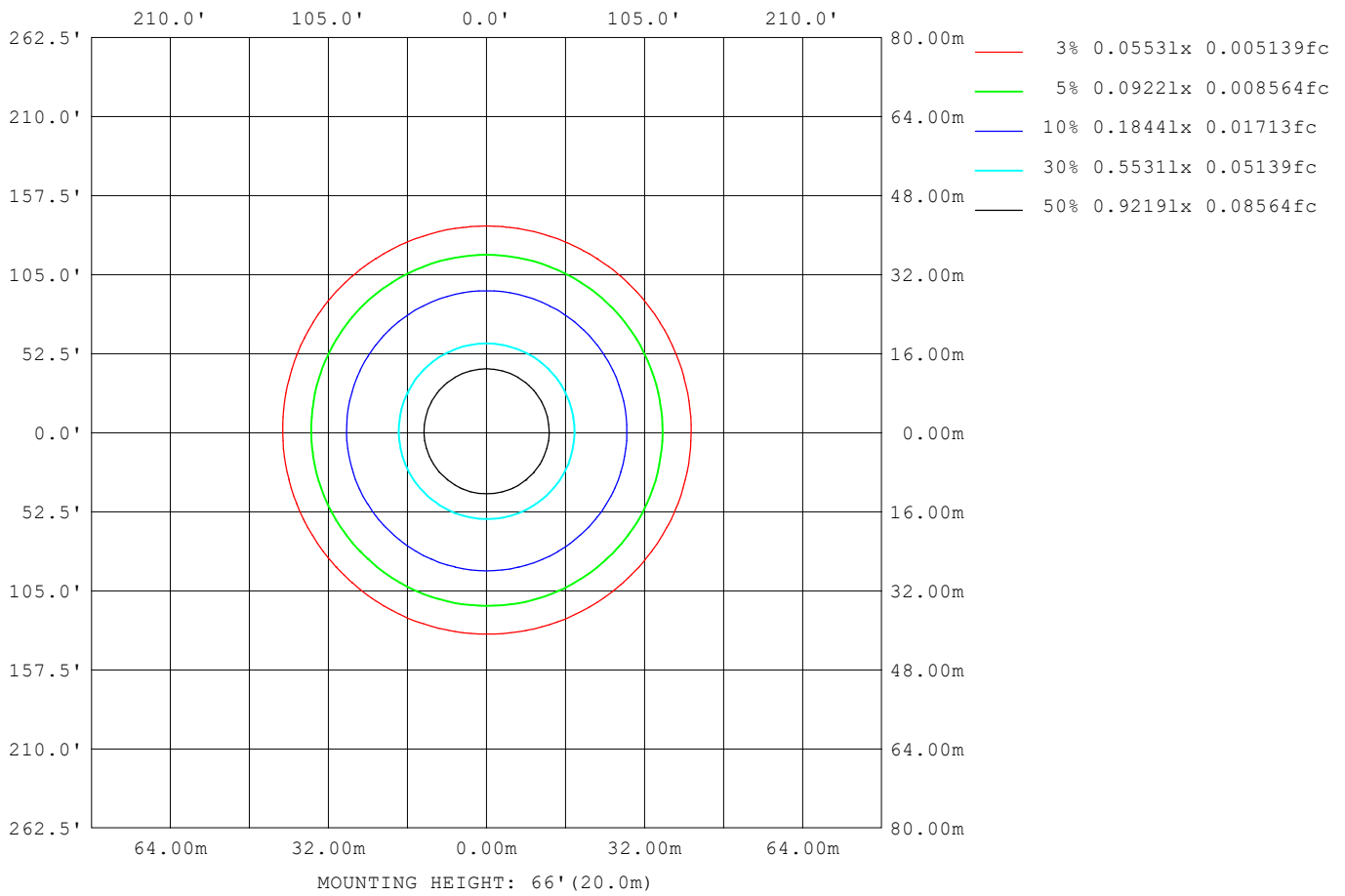
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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:119.97V I:0.2688A P:29.689W PF:1.1286 Freq:59.98Hz Lamp Flux:2092.4x1 lm		
NAME: ADS15R-Tunable CCT-3CCT	TYPE:	WEIGHT:
SPEC.:4000K 90	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
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 Operators:
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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:

LED Avg.L Report

Test:U:119.97V I:0.2688A P:29.689W PF:1.1286 Freq:59.98Hz Lamp Flux:2092.4x1 lm		
NAME: ADS15R-Tunable CCT-3CCT	TYPE:	WEIGHT:
SPEC.:4000K 90	DIM.:	SERIAL No.:
MFR.:	SUR.:	Shielding Angle:

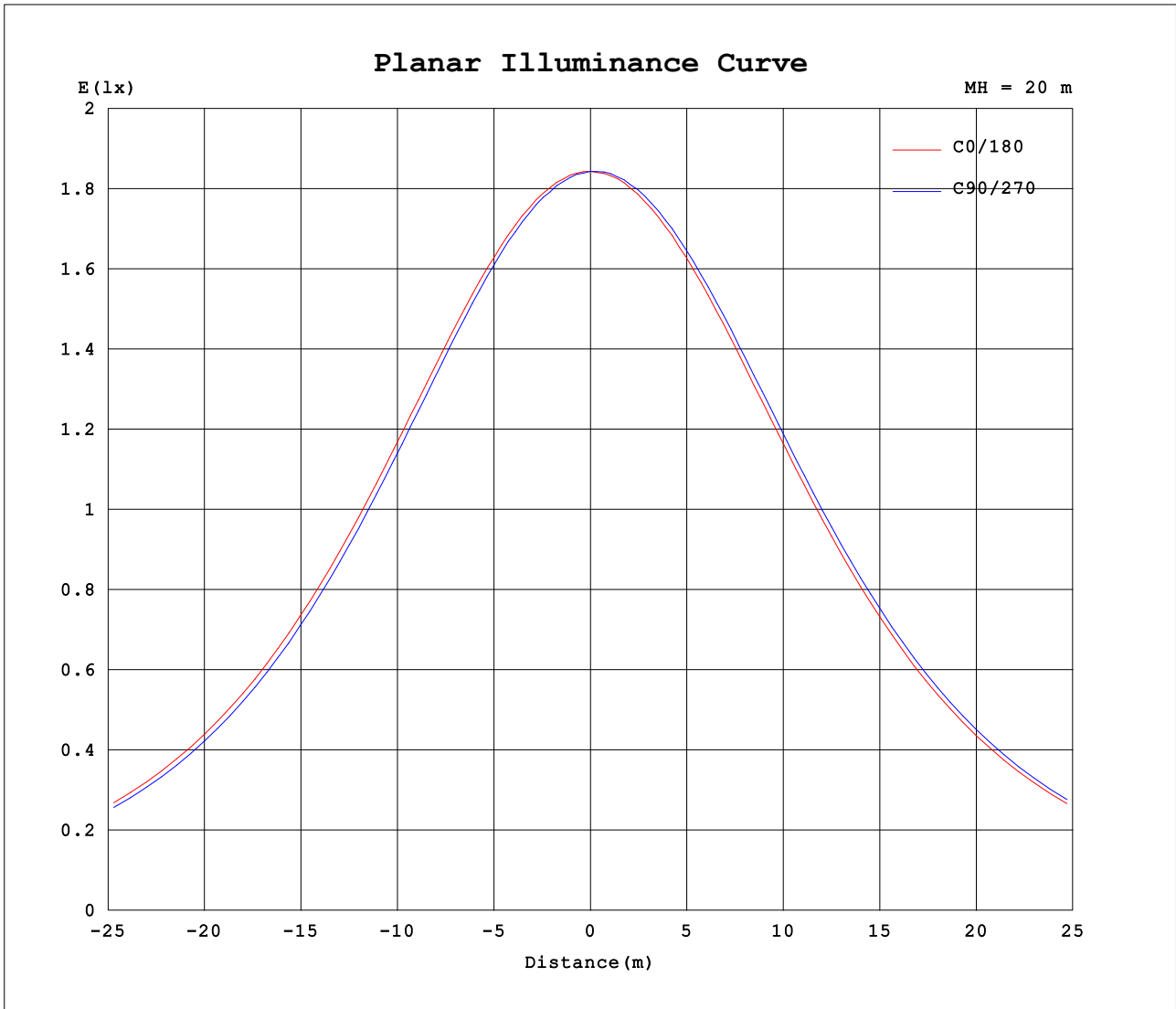
AvgL	cd/m2
L_0~180 (65) av	5482
L_0~180 (75) av	4591
L_0~180 (85) av	2752
L_90~270 (65) av	5452
L_90~270 (75) av	4558
L_90~270 (85) av	2812
L_45 (65) av	5472
L_45 (75) av	4579
L_45 (85) av	2757

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:
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Range: 0 - 90DEG
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 Remarks:

