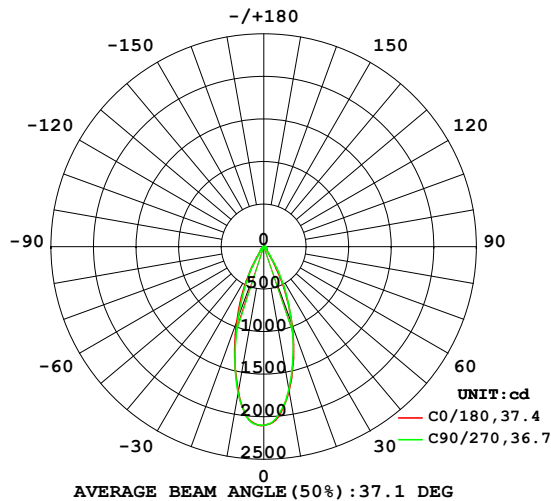


LUMINAIRE PHOTOMETRIC TEST REPORT

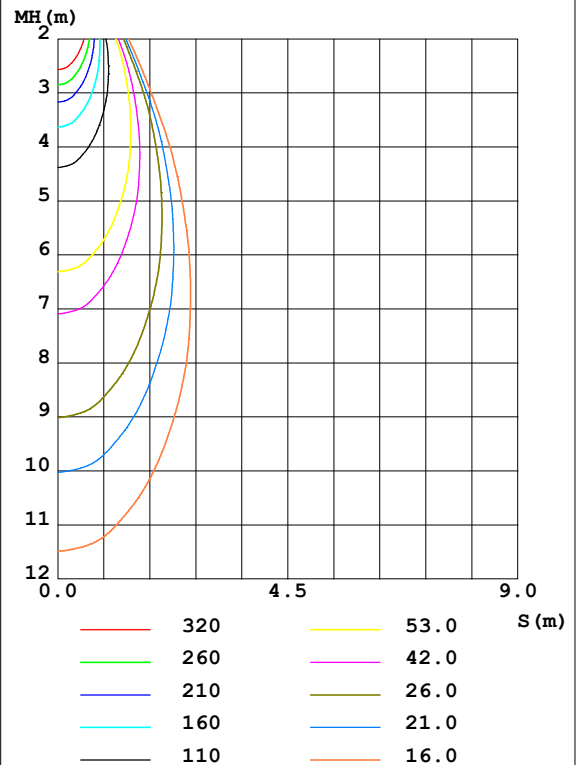
Test:U:119.95V I:0.1171A P:13.847W PF:0.9481 Freq:59.98Hz Lamp Flux:978.538x1 lm					
NAME: ASD-CD-PR-2D15AC-WH			TYPE:		WEIGHT:
SPEC.:3000K 90			DIM.:		SERIAL No.:
MFR.: ASD Lighting Corp			SUR.:		Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 70.67 lm/W
MODEL		Imax(cd)	2105	S/MH(C0/180)	0.60	
NOMINAL POWER(W)	15	LOR(%)	100.0	S/MH(C90/270)	0.59	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	978.54	□ UP,DN(C0-180)	0.0,50.5	
NOMINAL FLUX(lm)	978.538	CIE CLASS	DIRECT	□ UP,DN(C180-360)	0.0,49.5	
LAMPS INSIDE	1	□ up(%)	0.0	CIBSE SHR NOM	0.50	
TEST VOLTAGE(V)	120	□ down(%)	100.0	CIBSE SHR MAX	0.65	

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:2021-11-26

□ 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:

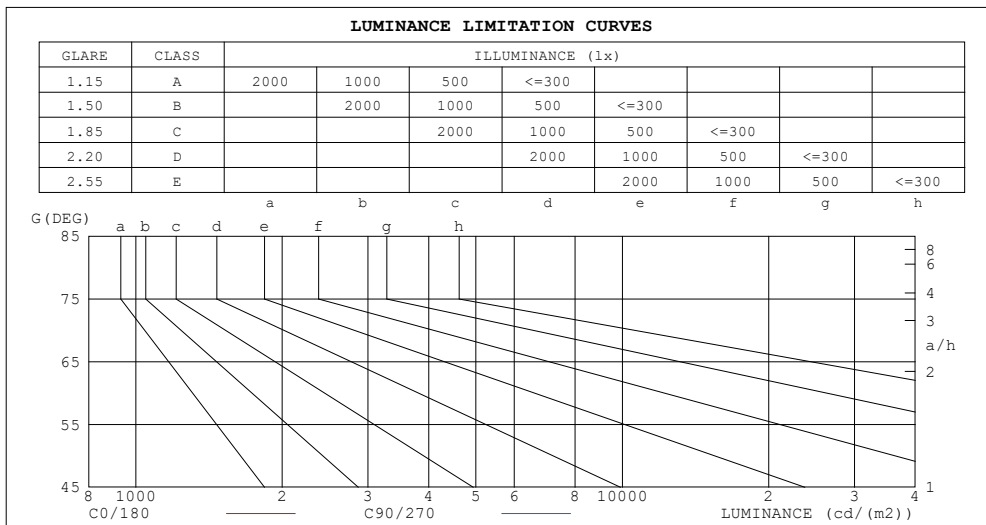
°	C0	C45	C90	C135	C180	C225	C270	C315	°	□ zone	□ total	%lum, lamp
10	1720	1720	1706	1726	1730	1741	1750	1756	0- 10	183.2	183.2	18.7,18.7
20	971.3	958.7	965.3	956.0	933.1	993.6	878.8	934.9	10- 20	368.4	551.6	56.4,56.4
30	299.8	308.4	362.2	326.8	286.1	293.8	261.6	279.7	20- 30	271.1	822.7	84.1,84.1
40	53.40	55.77	60.42	56.85	52.05	52.49	51.38	53.13	30- 40	79.43	902.2	92.2,92.2
50	31.50	32.22	32.60	32.30	31.78	31.38	31.42	31.49	40- 50	31.18	933.3	95.4,95.4
60	18.78	19.05	19.25	19.19	19.14	19.03	18.99	18.80	50- 60	22.13	955.5	97.6,97.6
70	10.33	10.43	10.45	10.42	10.56	10.72	10.77	10.49	60- 70	14.53	970.0	99.1,99.1
80	4.045	3.419	2.559	3.328	4.155	3.955	3.503	3.783	70- 80	7.354	977.3	99.9,99.9
90	0.0412	0.0337	0.0347	0.0305	0.0491	0.0450	0.0458	0.0432	80- 90	1.200	978.5	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:2021-11-26

□ 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:119.95V I:0.1171A P:13.847W PF:0.9481 Freq:59.98Hz Lamp Flux:978.538x1 lm		
NAME: ASD-CD-PR-2D15AC-WH	TYPE:	WEIGHT:
SPEC.:3000K 90	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	81	5
80	211	133
75	242	222
70	273	275
65	309	312
60	340	346
55	382	394
50	443	456
45	497	499

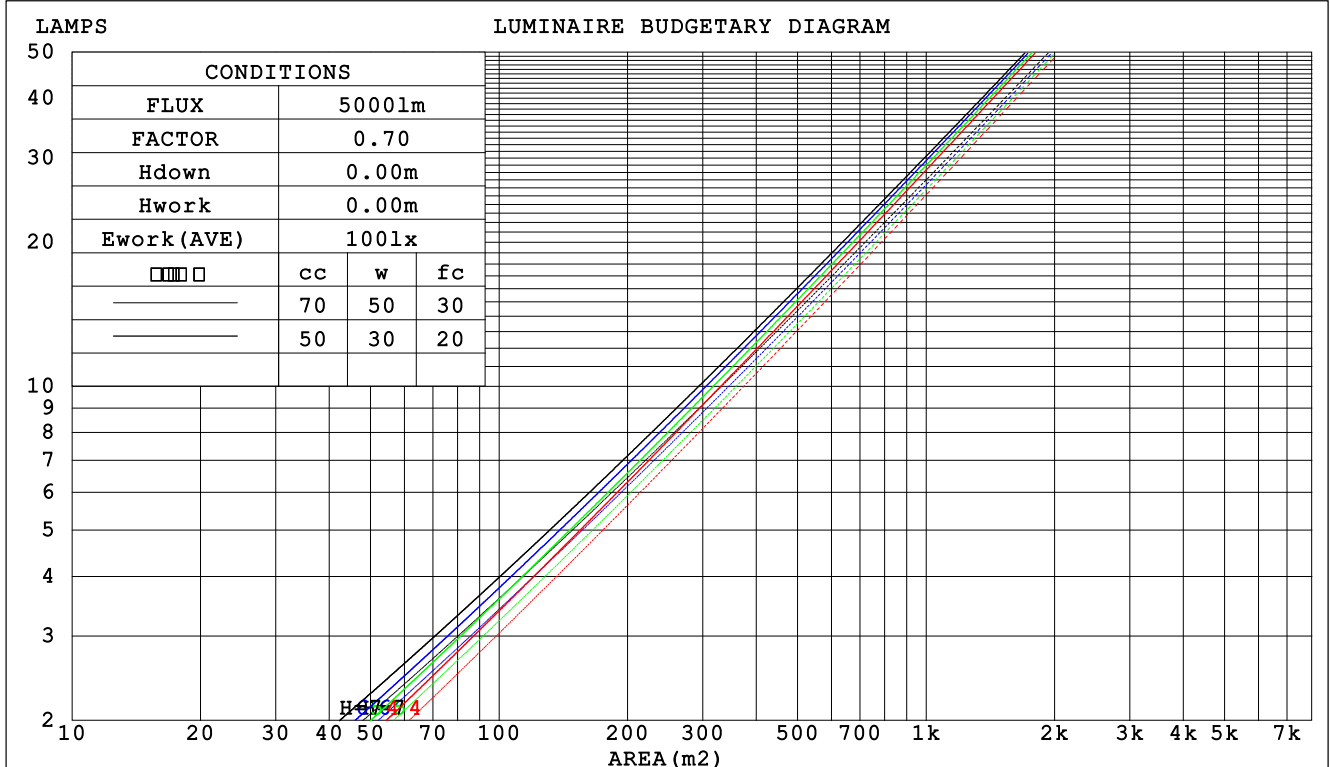
C Range: 0 - 360DEG
 C Interval: 22.5DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:
 Test Date:2021-11-26

☐ 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:119.95V I:0.1171A P:13.847W PF:0.9481 Freq:59.98Hz Lamp Flux:978.538x1 lm		
NAME: ASD-CD-PR-2D15AC-WH	TYPE:	WEIGHT:
SPEC.:3000K 90	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	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															



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-11-26

□ 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:119.95V I:0.1171A P:13.847W PF:0.9481 Freq:59.98Hz Lamp Flux:978.538x1 lm		
NAME: ASD-CD-PR-2D15AC-WH	TYPE:	WEIGHT:
SPEC.:3000K 90	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	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 Wall Exitance Coefficients (WEC)					
0.0						
1.0	.169 .096 .030	.162 .093 .029	.150 .086 .027	.138 .080 .026	.128 .074 .024	
2.0	.160 .087 .027	.154 .085 .026	.143 .080 .025	.134 .075 .023	.125 .071 .022	
3.0	.150 .080 .024	.145 .078 .023	.136 .074 .022	.128 .070 .022	.121 .067 .021	
4.0	.141 .073 .022	.137 .072 .021	.130 .069 .021	.123 .066 .020	.116 .063 .019	
5.0	.134 .068 .020	.130 .067 .019	.124 .064 .019	.117 .062 .018	.112 .060 .018	
6.0	.127 .063 .018	.124 .062 .018	.118 .060 .018	.112 .058 .017	.107 .057 .017	
7.0	.120 .060 .017	.118 .059 .017	.113 .057 .016	.108 .055 .016	.103 .054 .016	
8.0	.115 .056 .016	.112 .055 .016	.108 .054 .015	.104 .053 .015	.100 .051 .015	
9.0	.110 .053 .015	.108 .052 .015	.104 .051 .015	.100 .050 .014	.096 .049 .014	
10.0	.105 .050 .014	.103 .050 .014	.100 .049 .014	.096 .048 .014	.093 .047 .013	

☐ 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 Ceiling Cavity Exitance Coefficients (CCEC)					
0.0	.190 .190 .190	.163 .163 .163	.111 .111 .111	.064 .064 .064	.020 .020 .020	
1.0	.171 .157 .145	.146 .135 .125	.100 .093 .087	.057 .054 .050	.018 .017 .016	
2.0	.155 .133 .114	.132 .114 .099	.091 .079 .069	.052 .046 .040	.017 .015 .013	
3.0	.141 .113 .091	.121 .098 .079	.083 .068 .056	.048 .040 .033	.015 .013 .011	
4.0	.130 .099 .074	.112 .085 .065	.077 .059 .045	.044 .035 .027	.014 .011 .009	
5.0	.121 .087 .062	.104 .075 .054	.071 .052 .038	.041 .031 .022	.013 .010 .007	
6.0	.113 .077 .052	.097 .067 .045	.067 .047 .032	.039 .028 .019	.013 .009 .006	
7.0	.106 .069 .044	.091 .060 .038	.063 .042 .027	.037 .025 .016	.012 .008 .005	
8.0	.100 .063 .038	.086 .055 .033	.059 .038 .023	.035 .023 .014	.011 .007 .005	
9.0	.094 .058 .033	.081 .050 .029	.056 .035 .020	.033 .021 .012	.011 .007 .004	
10.0	.090 .053 .029	.077 .046 .025	.054 .032 .018	.031 .019 .011	.010 .006 .004	

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-11-26

☐ 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:119.95V I:0.1171A P:13.847W PF:0.9481 Freq:59.98Hz Lamp Flux:978.538x1 lm										
NAME: ASD-CD-PR-2D15AC-WH					TYPE:			WEIGHT:		
SPEC.:3000K 90					DIM.:			SERIAL No.:		
MFR.: ASD Lighting Corp					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	4.4	5.2	4.6	5.4	5.6	4.8	5.6	5.0	5.8	6.0
3H	5.1	5.9	5.3	6.1	6.3	5.4	6.2	5.7	6.4	6.6
4H	5.4	6.1	5.7	6.3	6.6	5.7	6.4	5.9	6.6	6.8
6H	5.6	6.3	5.9	6.5	6.8	5.7	6.4	6.0	6.7	6.9
8H	5.6	6.3	5.9	6.5	6.8	5.7	6.4	6.0	6.6	6.9
12H	5.6	6.2	5.9	6.5	6.8	5.7	6.3	6.0	6.6	6.9
4H 2H	4.7	5.4	4.9	5.6	5.8	5.0	5.8	5.3	6.0	6.2
3H	5.5	6.2	5.9	6.5	6.7	5.8	6.5	6.1	6.7	7.0
4H	5.9	6.5	6.3	6.8	7.1	6.1	6.7	6.5	7.0	7.3
6H	6.2	6.8	6.6	7.1	7.4	6.3	6.8	6.6	7.1	7.5
8H	6.3	6.8	6.7	7.1	7.5	6.2	6.7	6.6	7.1	7.4
12H	6.3	6.7	6.7	7.1	7.5	6.2	6.6	6.6	7.0	7.4
8H 4H	6.0	6.5	6.4	6.9	7.2	6.2	6.7	6.6	7.1	7.4
6H	6.4	6.8	6.8	7.2	7.6	6.4	6.8	6.8	7.2	7.6
8H	6.5	6.9	7.0	7.3	7.7	6.4	6.7	6.8	7.2	7.6
12H	6.5	6.8	7.0	7.3	7.7	6.3	6.6	6.8	7.1	7.5
12H 4H	6.0	6.4	6.4	6.8	7.2	6.2	6.6	6.6	7.0	7.4
6H	6.4	6.8	6.8	7.2	7.6	6.4	6.7	6.8	7.2	7.6
8H	6.5	6.8	7.0	7.2	7.7	6.4	6.7	6.8	7.1	7.6
Variations with the observer position at spacings:										
S = 1.0H	+ 0.5 / - 0.6					+ 0.9 / - 0.8				
1.5H	+ 0.7 / - 0.3					+ 1.5 / - 0.4				
2.0H	+ 0.5 / - 0.5					+ 0.7 / - 0.6				

CIE Pub.117, 978.5 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -0.1)
Area: 0.111111 m2

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-11-26

☐ 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:119.95V I:0.1171A P:13.847W PF:0.9481 Freq:59.98Hz Lamp Flux:978.538x1 lm		
NAME: ASD-CD-PR-2D15AC-WH	TYPE:	WEIGHT:
SPEC.:3000K 90	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

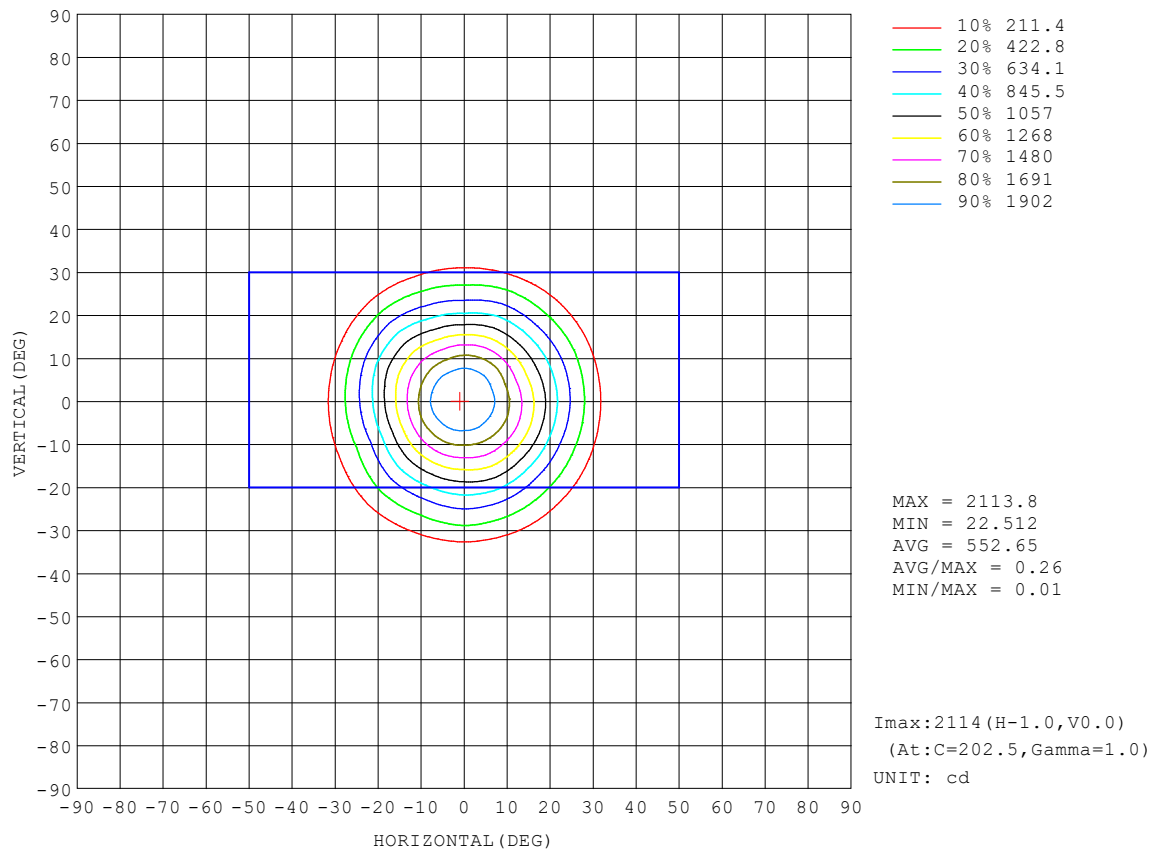
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	87	80	76	86	80	76	85	80	76	73
0.80	94	88	84	93	88	84	92	87	84	80
1.00	99	93	89	98	92	89	96	92	88	84
1.25	103	97	94	101	97	93	100	95	92	88
1.50	105	100	97	104	100	96	102	98	95	91
2.00	108	104	100	107	103	100	104	101	98	93
2.50	110	106	103	108	105	102	105	102	100	94
3.00	111	108	105	110	106	104	106	104	102	95
4.00	114	111	108	111	109	107	108	106	104	97
5.00	115	113	111	113	111	109	109	107	106	98
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:2021-11-26

☐ 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:119.95V I:0.1171A P:13.847W PF:0.9481 Freq:59.98Hz Lamp Flux:978.538x1 lm		
NAME: ASD-CD-PR-2D15AC-WH	TYPE:	WEIGHT:
SPEC.:3000K 90	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

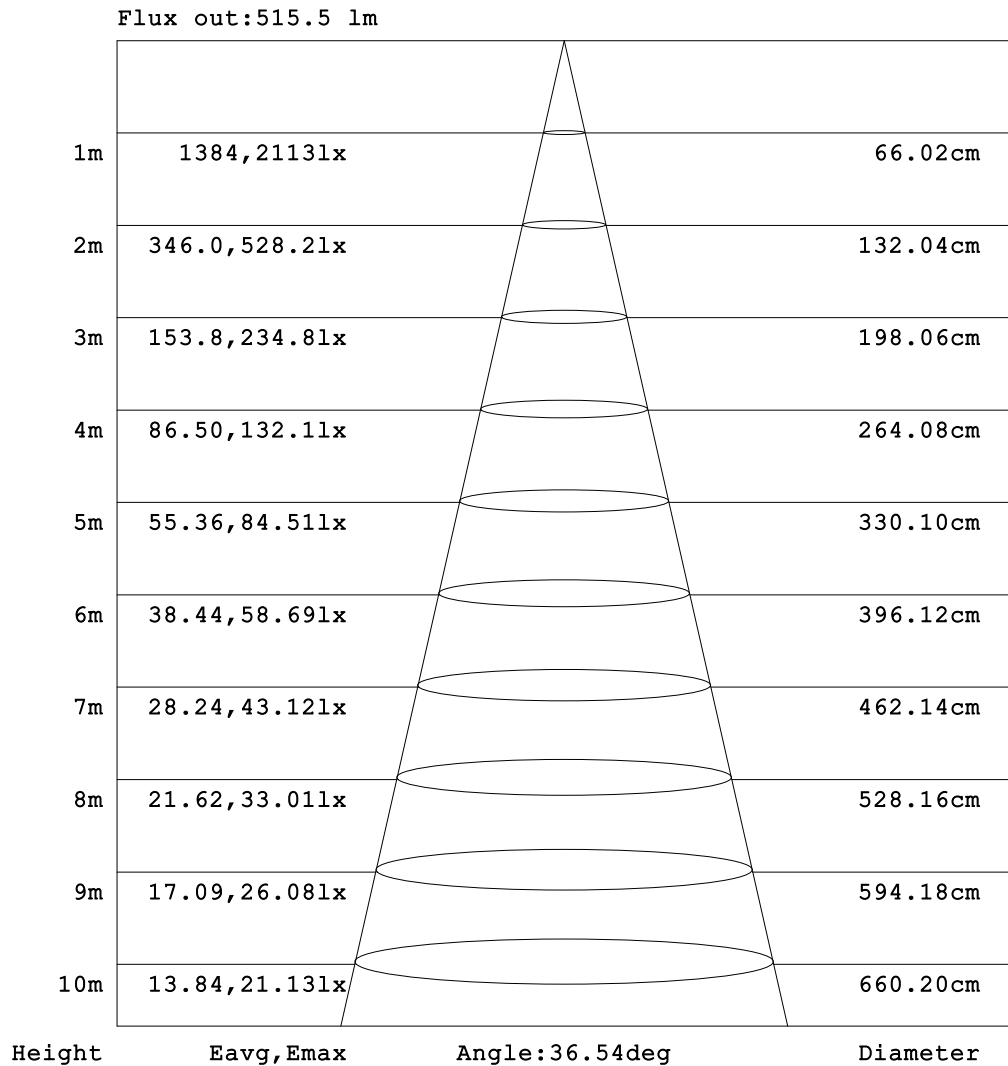


C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-11-26

☐ 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:119.95V I:0.1171A P:13.847W PF:0.9481 Freq:59.98Hz Lamp Flux:978.538x1 lm		
NAME: ASD-CD-PR-2D15AC-WH	TYPE:	WEIGHT:
SPEC.:3000K 90	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



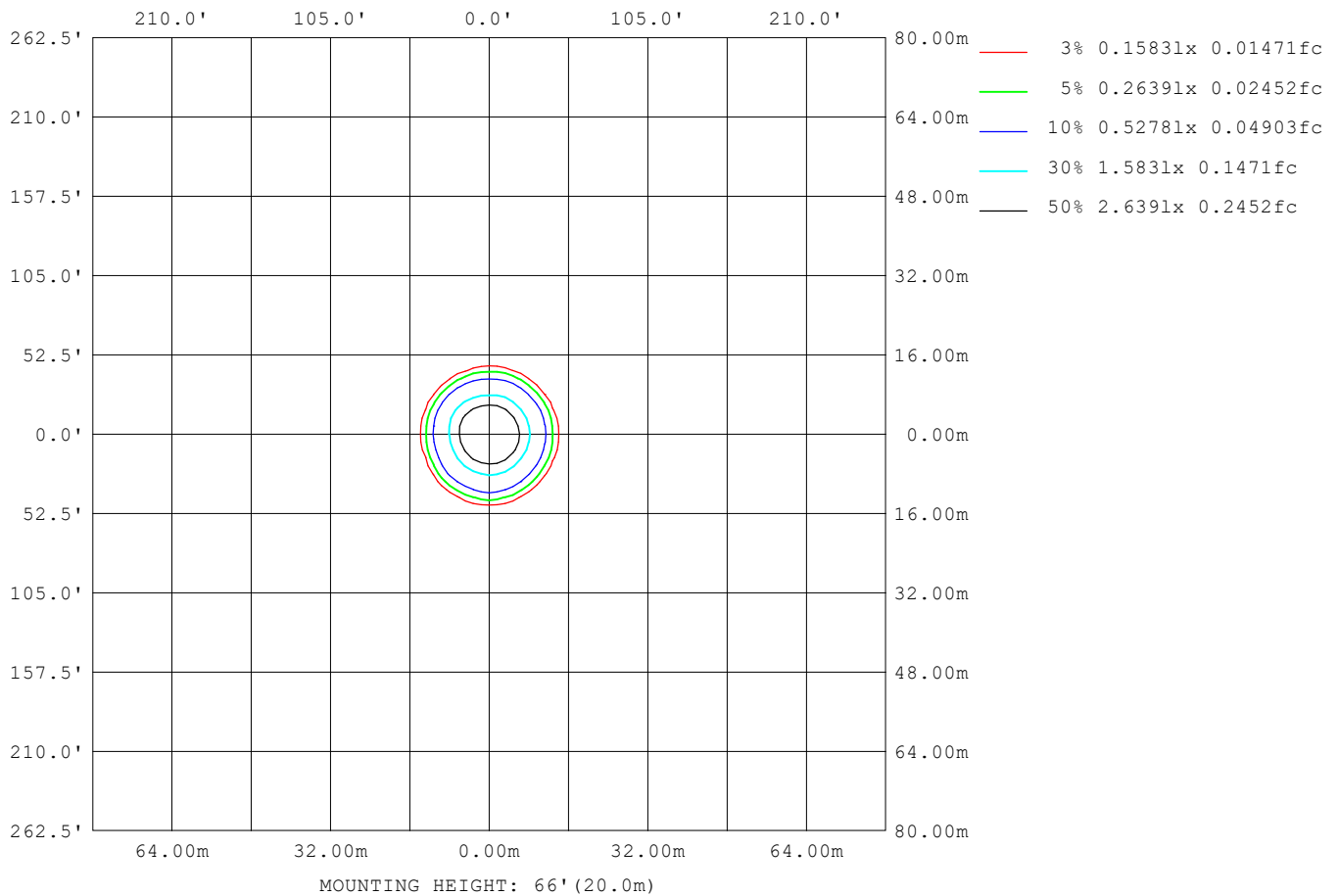
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-11-26

☐ 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:119.95V I:0.1171A P:13.847W PF:0.9481 Freq:59.98Hz Lamp Flux:978.538x1 lm		
NAME: ASD-CD-PR-2D15AC-WH	TYPE:	WEIGHT:
SPEC.:3000K 90	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 22.5DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:
Test Date:2021-11-26

☐ 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:119.95V I:0.1171A P:13.847W PF:0.9481 Freq:59.98Hz Lamp Flux:978.538x1 lm		
NAME: ASD-CD-PR-2D15AC-WH	TYPE:	WEIGHT:
SPEC.:3000K 90	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

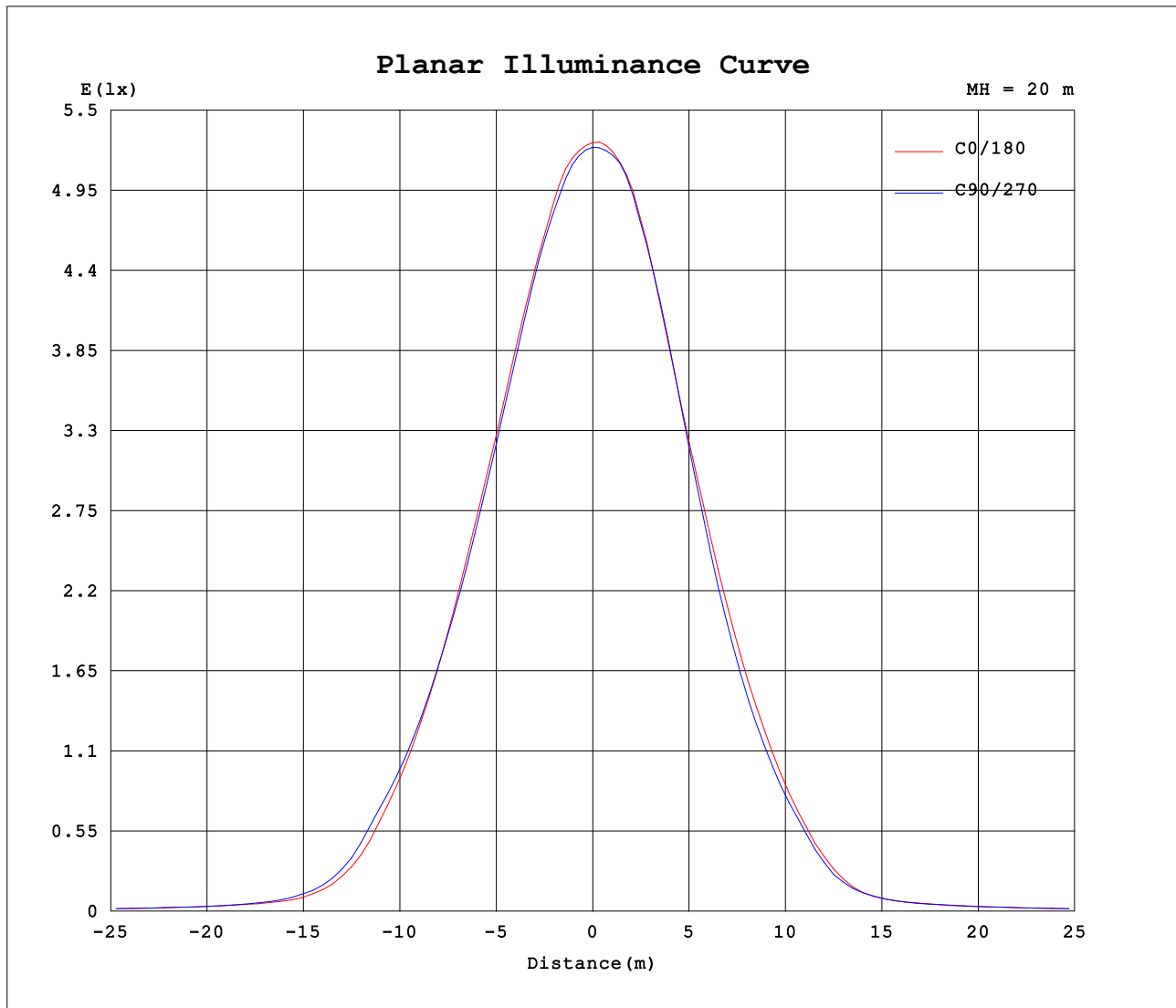
AvgL	cd/m2
L_0~180 (65) av	310
L_0~180 (75) av	243
L_0~180 (85) av	87
L_90~270 (65) av	314
L_90~270 (75) av	237
L_90~270 (85) av	22
L_45 (65) av	312
L_45 (75) av	244
L_45 (85) av	55

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