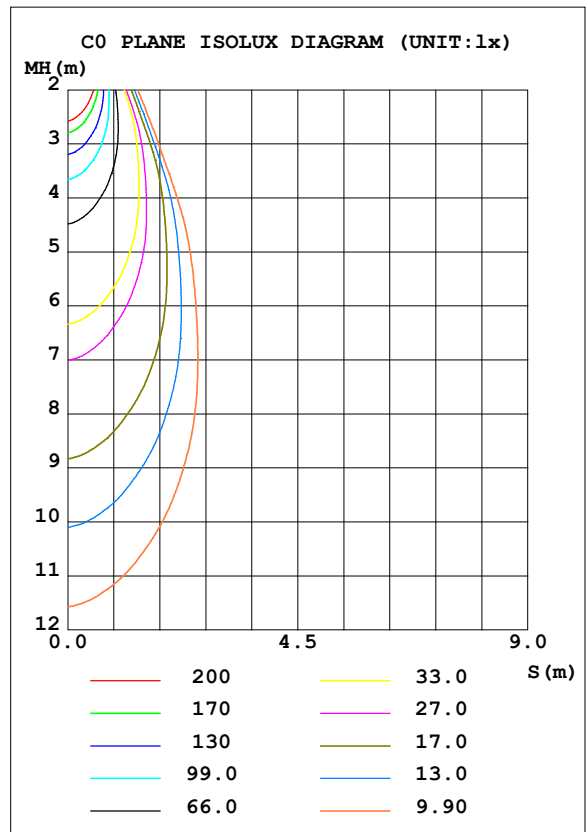
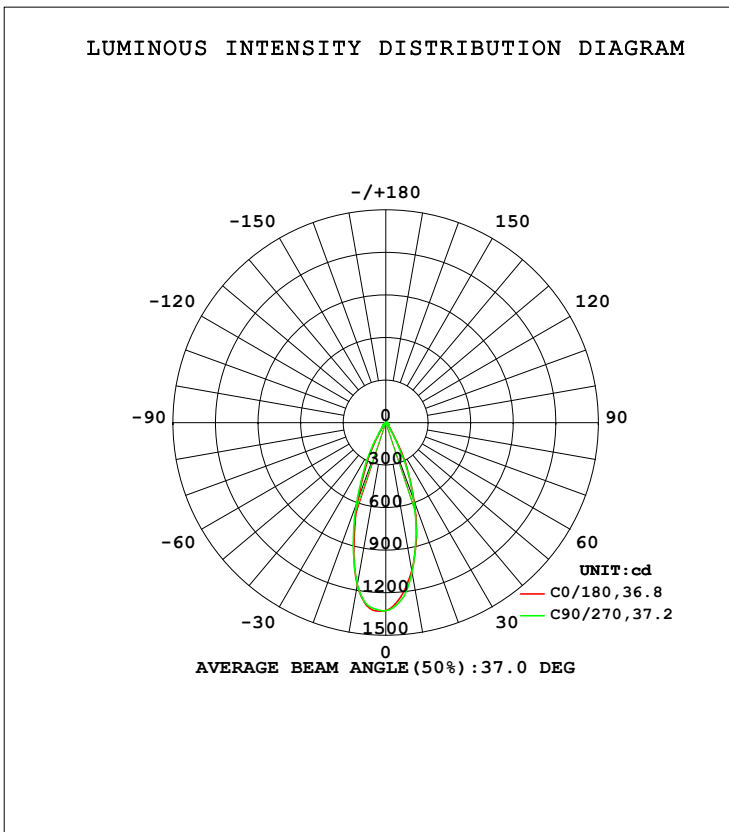


**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:120.02V I:0.0685A P:7.7488W PF:0.9543 Freq:59.98Hz Lamp Flux:606.433x1 lm		
NAME: ASD-CD-CR-2D8AC-CH/WH	TYPE:	WEIGHT:
SPEC.:5000K 90	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 78.26 lm/W			
MODEL		Imax (cd)	1335	S/MH (C0/180)	0.59
NOMINAL POWER (W)	8	LOR (%)	100.0	S/MH (C90/270)	0.61
RATED VOLTAGE (V)	120	TOTAL FLUX (lm)	606.43	<input type="checkbox"/> UP, DN (C0-180)	0.0, 47.2
NOMINAL FLUX (lm)	606.433	CIE CLASS	DIRECT	<input type="checkbox"/> UP, DN (C180-360)	0.0, 52.8
LAMPS INSIDE	1	<input type="checkbox"/> up (%)	0.0	CIBSE SHR NOM	0.50
TEST VOLTAGE (V)	120	<input type="checkbox"/> down (%)	100.0	CIBSE SHR MAX	0.65



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators:  
 Test Date: 2021-10-20

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:

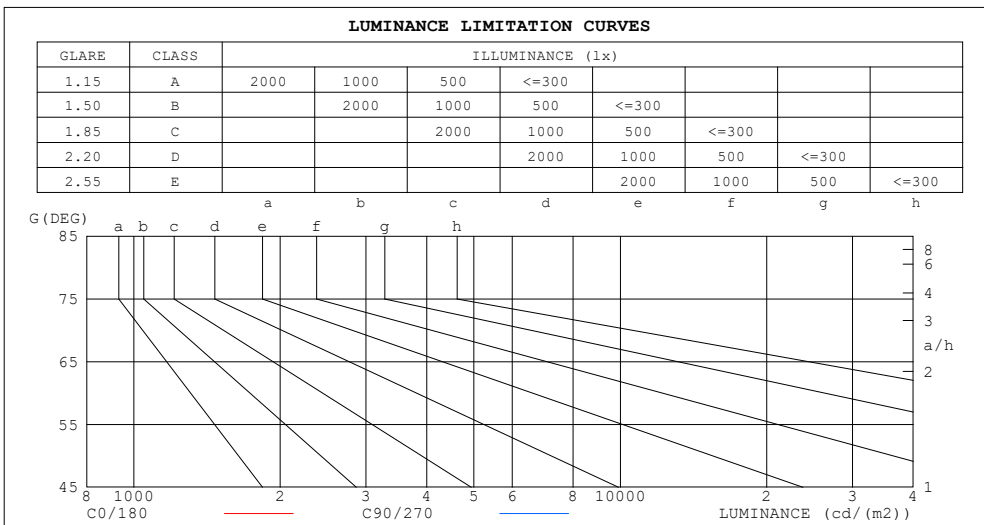
mm	C0	C45	C90	C135	C180	C225	C270	C315	mm	□ zone	□ total	%lum, lamp
10	1059	1065	1072	1126	1163	1168	1157	1097	0- 10	116.6	116.6	19.2,19.2
20	582.0	499.9	572.3	579.1	570.2	707.1	603.0	597.3	10- 20	235.2	351.9	58,58
30	156.2	113.4	135.7	128.7	136.2	230.4	182.1	186.3	20- 30	162.0	513.9	84.7,84.7
40	35.39	33.32	34.39	34.69	34.71	39.84	38.22	38.42	30- 40	46.01	559.9	92.3,92.3
50	19.39	18.92	19.08	19.54	20.19	20.49	20.64	20.36	40- 50	20.38	580.3	95.7,95.7
60	10.39	10.36	10.56	10.80	11.02	10.98	10.94	10.74	50- 60	12.96	593.2	97.8,97.8
70	5.403	5.442	5.604	5.797	5.919	5.886	5.829	5.618	60- 70	7.944	601.2	99.1,99.1
80	2.210	2.176	2.244	2.376	2.541	2.623	2.561	2.398	70- 80	4.142	605.3	99.8,99.8
90	0.0143	0.0110	0.0144	0.0090	0.0157	0.0170	0.0184	0.0147	80- 90	1.112	606.4	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:2021-10-20

□ 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:120.02V I:0.0685A P:7.7488W PF:0.9543 Freq:59.98Hz Lamp Flux:606.433x1 lm		
NAME: ASD-CD-CR-2D8AC-CH/WH	TYPE:	WEIGHT:
SPEC.:5000K 90	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	39	98
80	115	116
75	127	131
70	142	147
65	163	167
60	187	190
55	215	216
50	272	267
45	323	318

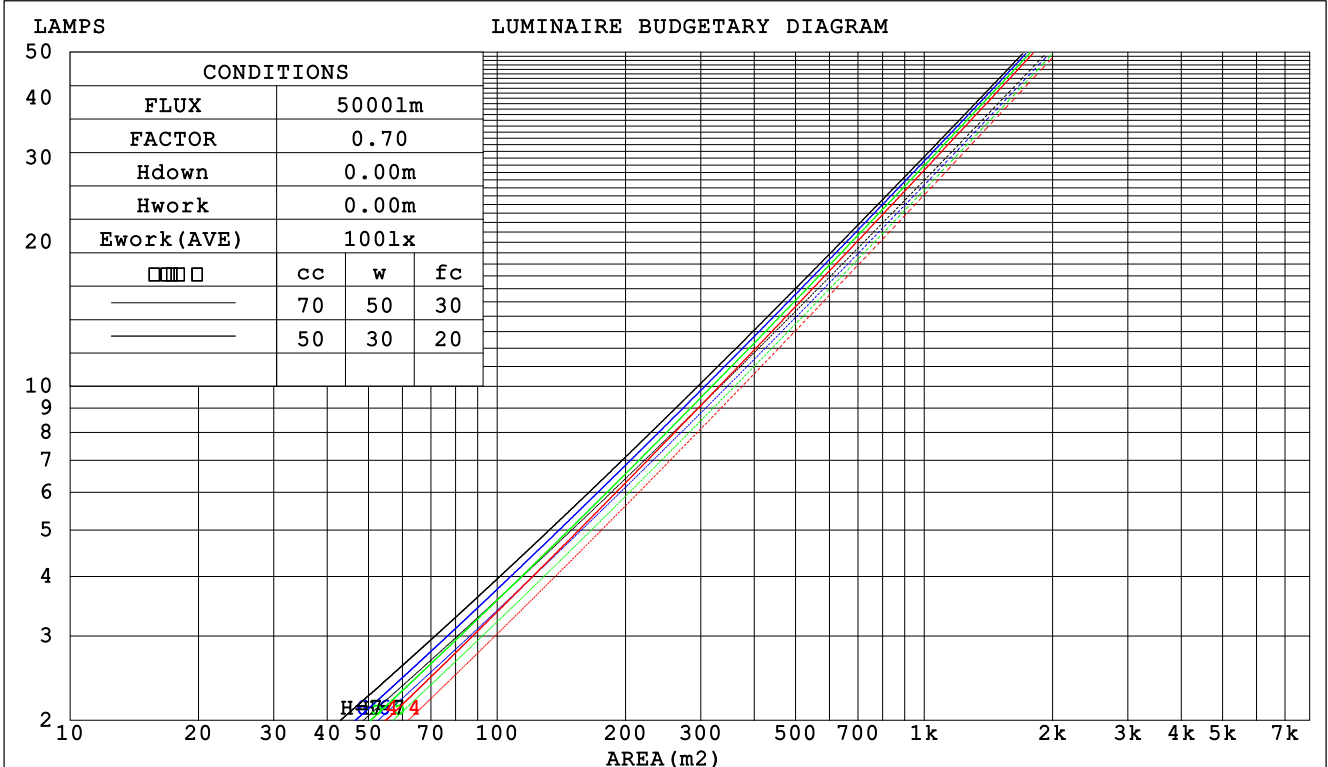
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-10-20

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:120.02V I:0.0685A P:7.7488W PF:0.9543 Freq:59.98Hz Lamp Flux:606.433x1 lm		
NAME: ASD-CD-CR-2D8AC-CH/WH	TYPE:	WEIGHT:
SPEC.:5000K 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						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	1.11	1.09	1.07	1.09	1.07	1.05	1.05	1.03	1.02	1.01	1.00	.99	.98	.97	.96	.94
2.0	1.04	1.01	.98	1.03	.99	.96	.99	.97	.94	.97	.94	.92	.94	.92	.90	.89
3.0	.98	.94	.90	.97	.93	.89	.94	.91	.88	.92	.89	.87	.90	.87	.85	.84
4.0	.93	.88	.84	.92	.87	.84	.90	.86	.83	.88	.85	.82	.86	.83	.81	.79
5.0	.88	.83	.79	.87	.82	.79	.86	.81	.78	.84	.80	.77	.82	.79	.77	.75
6.0	.84	.79	.75	.83	.78	.75	.82	.77	.74	.80	.77	.74	.79	.76	.73	.72
7.0	.80	.75	.71	.79	.74	.71	.78	.74	.71	.77	.73	.70	.76	.72	.70	.69
8.0	.77	.71	.68	.76	.71	.68	.75	.70	.67	.74	.70	.67	.73	.69	.67	.66
9.0	.73	.68	.65	.73	.68	.65	.72	.67	.64	.71	.67	.64	.70	.67	.64	.63
10.0	.70	.65	.62	.70	.65	.62	.69	.65	.62	.68	.64	.62	.68	.64	.61	.60



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-10-20

□ 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:120.02V I:0.0685A P:7.7488W PF:0.9543 Freq:59.98Hz Lamp Flux:606.433x1 lm		
NAME: ASD-CD-CR-2D8AC-CH/WH	TYPE:	WEIGHT:
SPEC.:5000K 90	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	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	.168 .095 .030	.161 .092 .029	.149 .085 .027	.137 .079 .025	.126 .073 .024	
2.0	.158 .087 .027	.152 .084 .026	.142 .079 .024	.132 .074 .023	.123 .070 .022	
3.0	.148 .079 .024	.144 .077 .023	.135 .073 .022	.127 .069 .021	.119 .066 .020	
4.0	.140 .073 .021	.136 .071 .021	.128 .068 .020	.121 .065 .020	.115 .062 .019	
5.0	.132 .067 .019	.129 .066 .019	.122 .064 .019	.116 .061 .018	.110 .059 .018	
6.0	.125 .063 .018	.122 .062 .018	.116 .060 .017	.111 .058 .017	.106 .056 .017	
7.0	.119 .059 .017	.116 .058 .017	.111 .056 .016	.107 .055 .016	.102 .053 .016	
8.0	.113 .055 .016	.111 .055 .015	.107 .053 .015	.102 .052 .015	.099 .051 .015	
9.0	.108 .052 .015	.106 .052 .015	.102 .051 .014	.099 .049 .014	.095 .048 .014	
10.0	.104 .050 .014	.102 .049 .014	.098 .048 .014	.095 .047 .013	.092 .046 .013	

<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	.170 .157 .146	.146 .135 .125	.100 .093 .087	.057 .054 .050	.018 .017 .016	
2.0	.154 .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 .075	.111 .085 .065	.077 .059 .046	.044 .035 .027	.014 .011 .009	
5.0	.120 .087 .062	.103 .075 .054	.071 .052 .038	.041 .031 .023	.013 .010 .007	
6.0	.112 .077 .052	.097 .067 .045	.067 .047 .032	.039 .027 .019	.012 .009 .006	
7.0	.105 .069 .044	.091 .060 .038	.063 .042 .027	.036 .025 .016	.012 .008 .005	
8.0	.099 .063 .038	.085 .055 .033	.059 .038 .023	.034 .023 .014	.011 .007 .005	
9.0	.094 .057 .033	.081 .050 .029	.056 .035 .020	.033 .021 .012	.011 .007 .004	
10.0	.089 .053 .029	.077 .046 .025	.053 .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:2021-10-20

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:120.02V I:0.0685A P:7.7488W PF:0.9543 Freq:59.98Hz Lamp Flux:606.433x1 lm										
NAME: ASD-CD-CR-2D8AC-CH/WH					TYPE:			WEIGHT:		
SPEC.:5000K 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	3.5	4.4	3.7	4.5	4.7	3.4	4.3	3.6	4.4	4.6
3H	4.2	4.9	4.4	5.1	5.3	4.1	4.9	4.4	5.1	5.3
4H	4.4	5.2	4.7	5.4	5.6	4.4	5.1	4.7	5.4	5.6
6H	4.6	5.3	4.9	5.6	5.8	4.6	5.3	4.9	5.6	5.8
8H	4.7	5.3	5.0	5.6	5.8	4.7	5.4	5.0	5.6	5.9
12H	4.6	5.3	5.0	5.5	5.8	4.7	5.4	5.0	5.6	5.9
4H 2H	3.8	4.5	4.0	4.7	4.9	3.7	4.4	4.0	4.6	4.9
3H	4.6	5.2	4.9	5.5	5.8	4.6	5.2	4.9	5.5	5.7
4H	4.9	5.5	5.3	5.8	6.1	4.9	5.5	5.3	5.8	6.1
6H	5.2	5.7	5.6	6.1	6.4	5.2	5.8	5.6	6.1	6.4
8H	5.3	5.8	5.7	6.1	6.5	5.3	5.8	5.7	6.2	6.5
12H	5.3	5.7	5.7	6.1	6.5	5.4	5.9	5.8	6.2	6.6
8H 4H	5.0	5.5	5.4	5.9	6.2	5.0	5.5	5.4	5.9	6.2
6H	5.4	5.8	5.9	6.2	6.6	5.4	5.8	5.9	6.2	6.6
8H	5.6	5.9	6.0	6.3	6.8	5.6	6.0	6.0	6.4	6.8
12H	5.6	5.9	6.1	6.3	6.8	5.7	6.0	6.2	6.5	6.9
12H 4H	5.0	5.5	5.4	5.8	6.2	5.0	5.5	5.4	5.8	6.2
6H	5.4	5.8	5.9	6.2	6.6	5.4	5.8	5.9	6.2	6.7
8H	5.6	5.9	6.1	6.3	6.8	5.6	5.9	6.1	6.4	6.9
Variations with the observer position at spacings:										
S = 1.0H	+ 0.6 / - 0.7					+ 0.5 / - 0.7				
1.5H	+ 0.8 / - 0.4					+ 0.7 / - 0.4				
2.0H	+ 1.0 / - 0.6					+ 0.9 / - 0.6				

CIE Pub.117, 606.4 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.7)  
 Area: 0.111111 m2

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-10-20

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:120.02V I:0.0685A P:7.7488W PF:0.9543 Freq:59.98Hz Lamp Flux:606.433x1 lm		
NAME: ASD-CD-CR-2D8AC-CH/WH	TYPE:	WEIGHT:
SPEC.:5000K 90	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

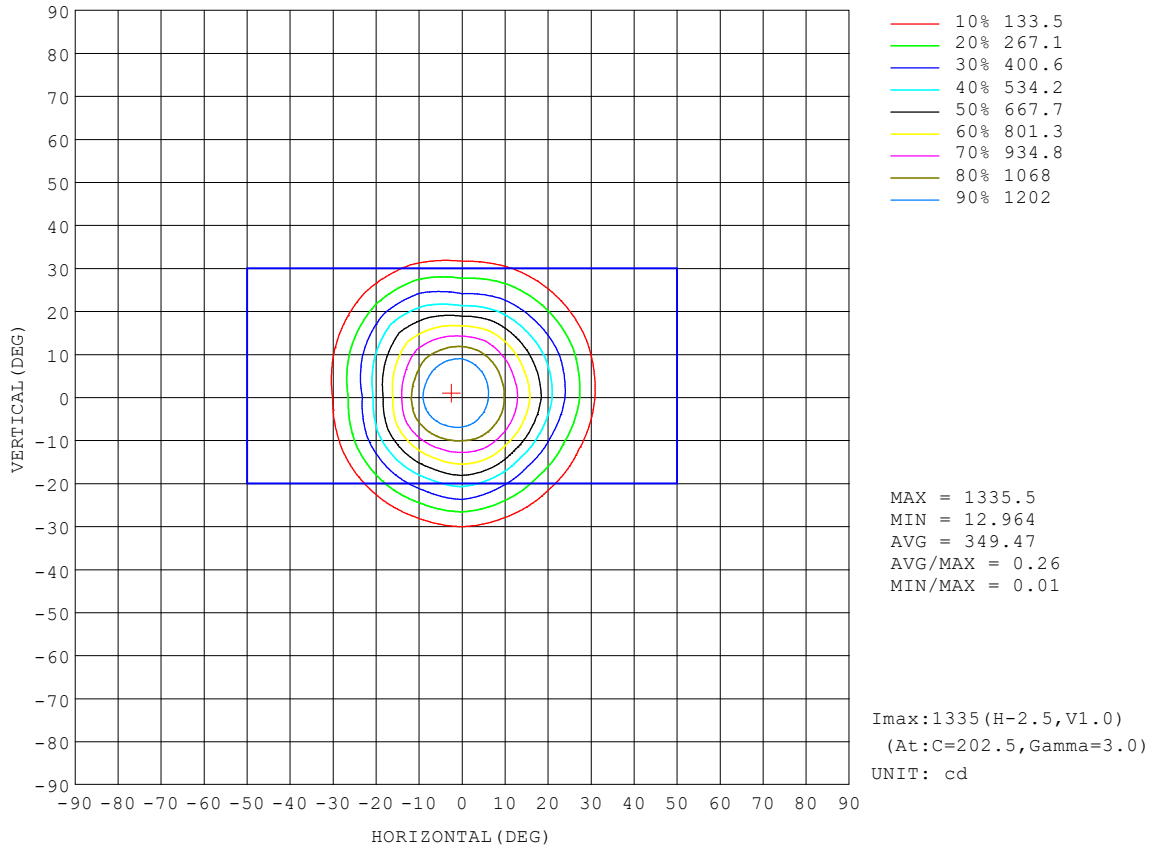
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	87	80	77	86	80	76	86	80	76	73
0.80	94	88	84	94	88	84	92	87	84	80
1.00	99	93	89	98	92	89	96	92	88	84
1.25	103	97	94	102	97	93	100	96	93	88
1.50	105	100	97	104	100	97	102	98	95	91
2.00	108	104	101	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	107	104	106	104	102	95
4.00	114	111	108	112	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:2021-10-20

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:120.02V I:0.0685A P:7.7488W PF:0.9543 Freq:59.98Hz Lamp Flux:606.433x1 lm		
NAME: ASD-CD-CR-2D8AC-CH/WH	TYPE:	WEIGHT:
SPEC.:5000K 90	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



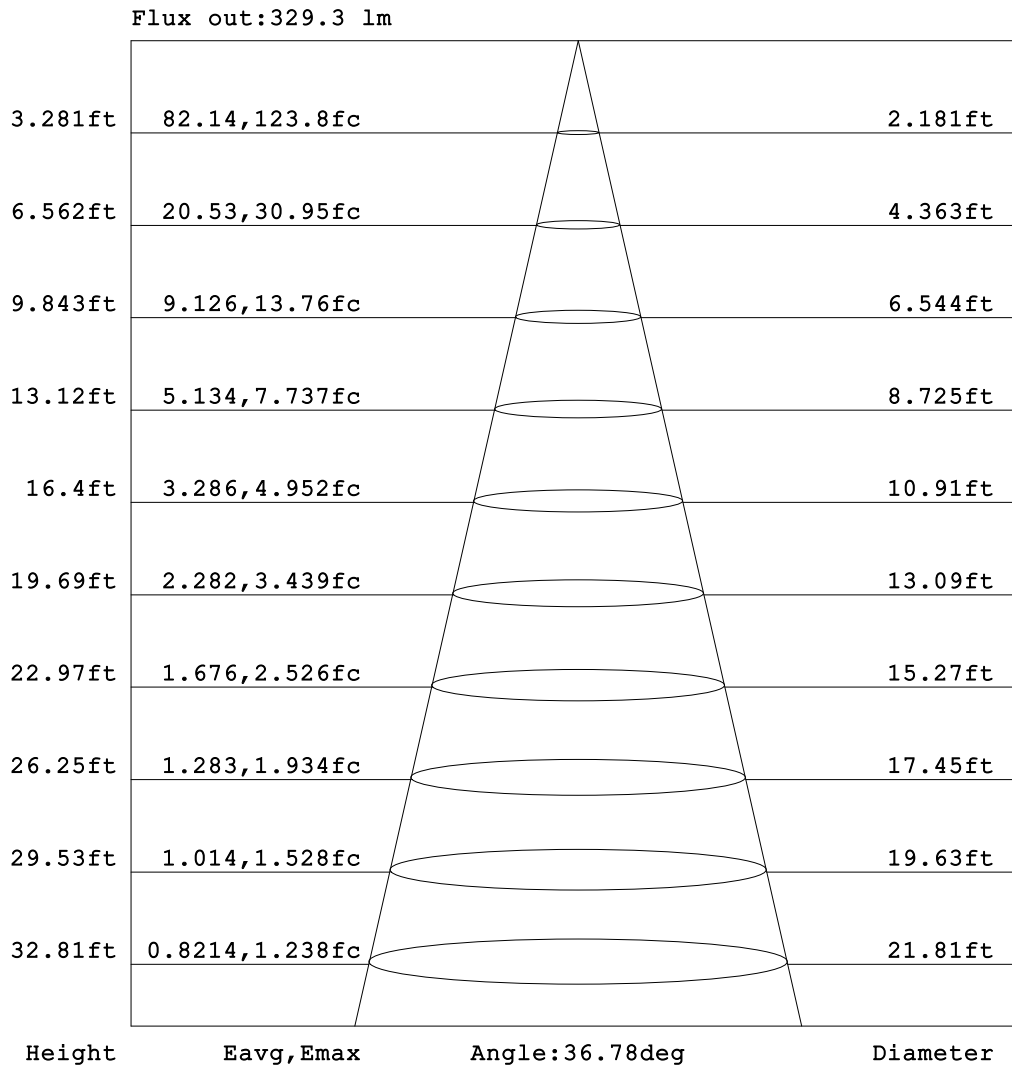
C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-10-20

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:120.02V I:0.0685A P:7.7488W PF:0.9543 Freq:59.98Hz Lamp Flux:606.433x1 lm		
NAME: ASD-CD-CR-2D8AC-CH/WH	TYPE:	WEIGHT:
SPEC.:5000K 90	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:



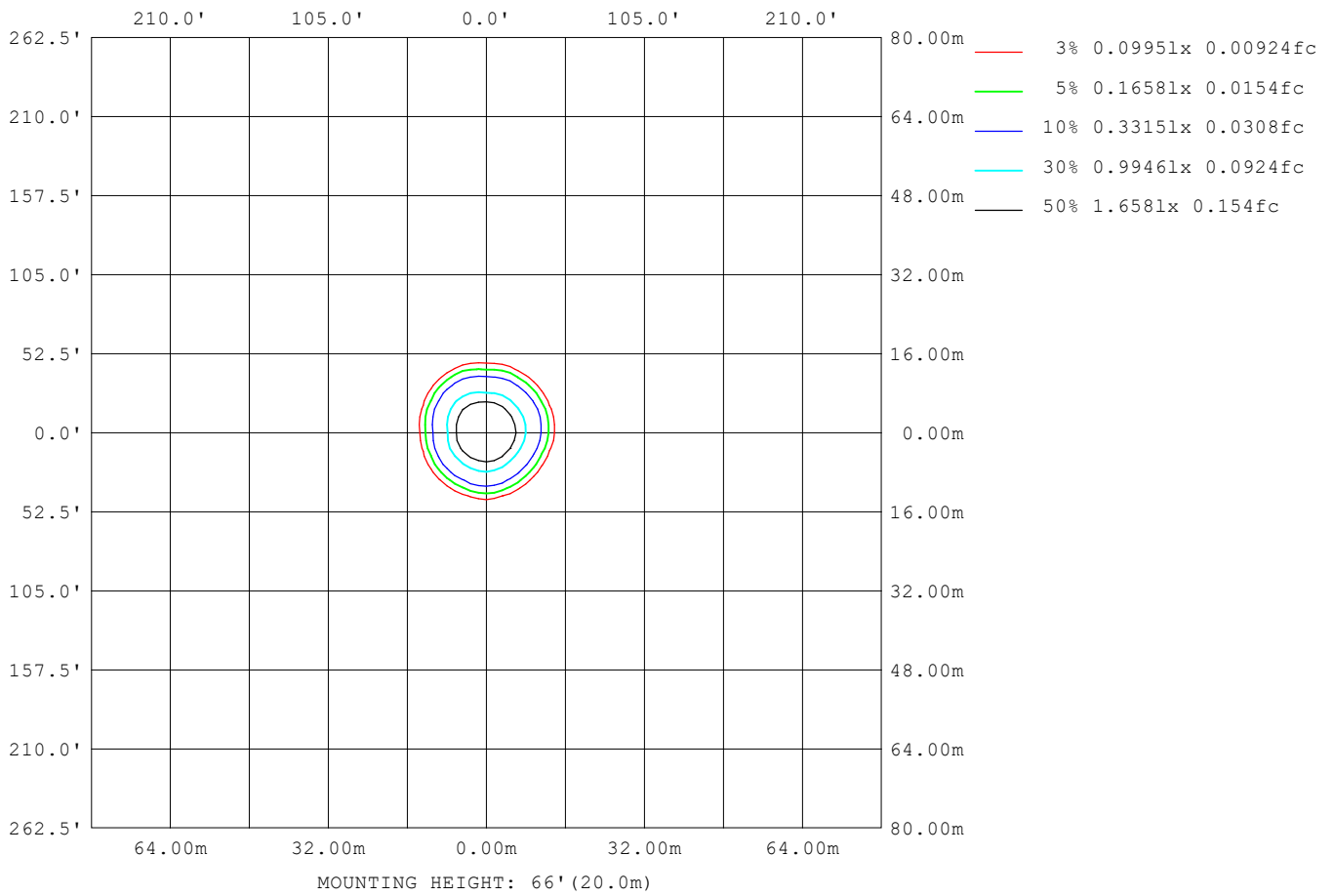
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-10-20

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:120.02V I:0.0685A P:7.7488W PF:0.9543 Freq:59.98Hz Lamp Flux:606.433x1 lm		
NAME: ASD-CD-CR-2D8AC-CH/WH	TYPE:	WEIGHT:
SPEC.:5000K 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:2021-10-20

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:120.02V I:0.0685A P:7.7488W PF:0.9543 Freq:59.98Hz Lamp Flux:606.433x1 lm		
NAME: ASD-CD-CR-2D8AC-CH/WH	TYPE:	WEIGHT:
SPEC.:5000K 90	DIM.:	SERIAL No.:
MFR.: ASD Lighting Corp	SUR.:	Shielding Angle:

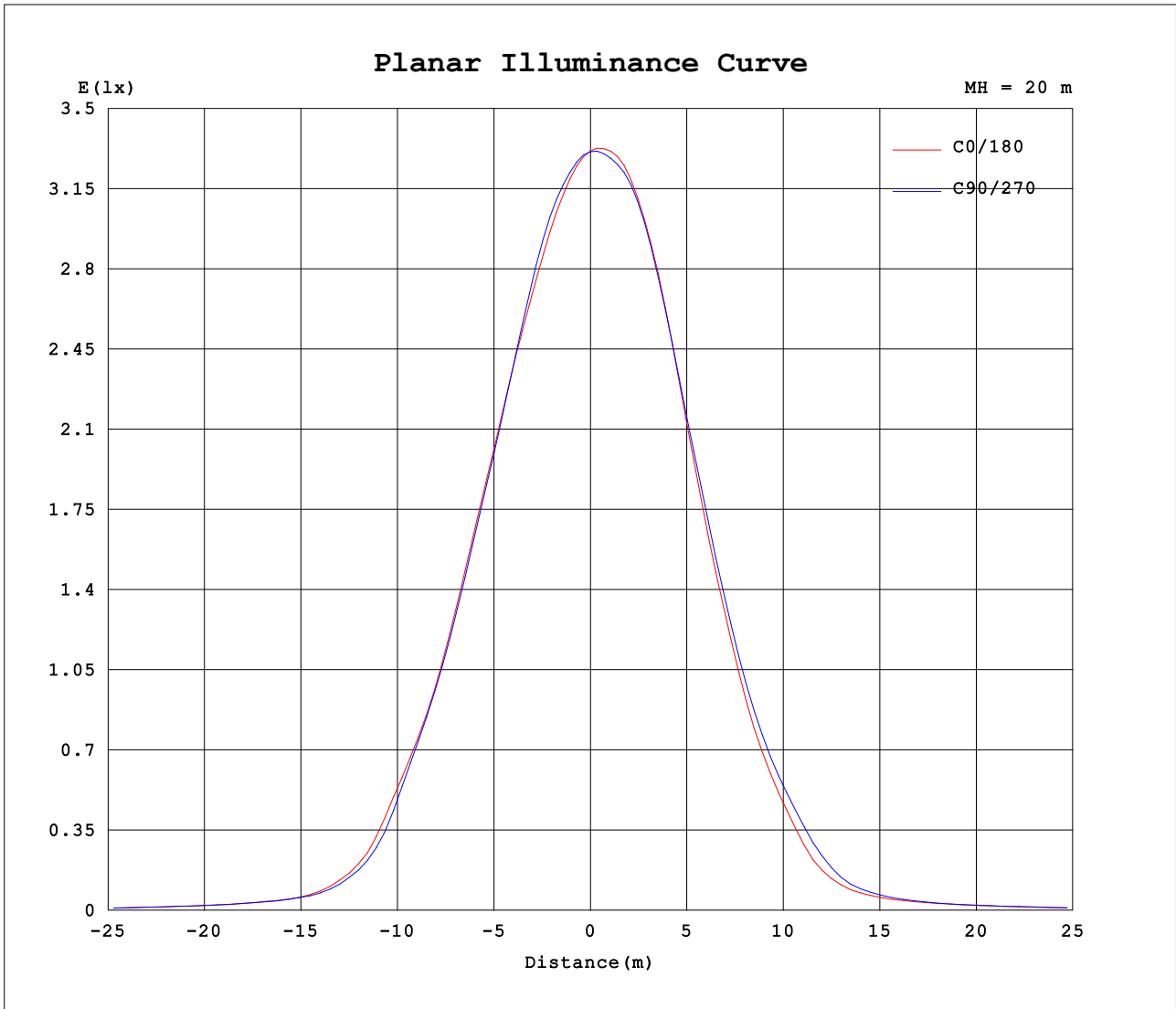
AvgL	cd/m2
L_0~180 (65) av	169
L_0~180 (75) av	134
L_0~180 (85) av	42
L_90~270 (65) av	170
L_90~270 (75) av	135
L_90~270 (85) av	103
L_45 (65) av	169
L_45 (75) av	135
L_45 (85) av	115

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:  
 Test Date:2021-10-20

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: 2021-10-20

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:

