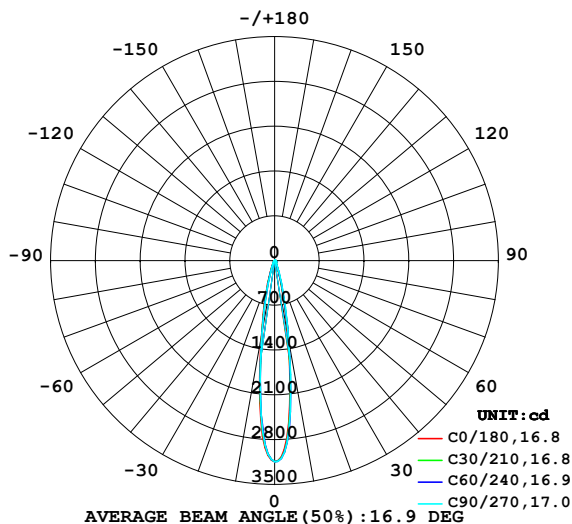


LUMINAIRE PHOTOMETRIC TEST REPORT

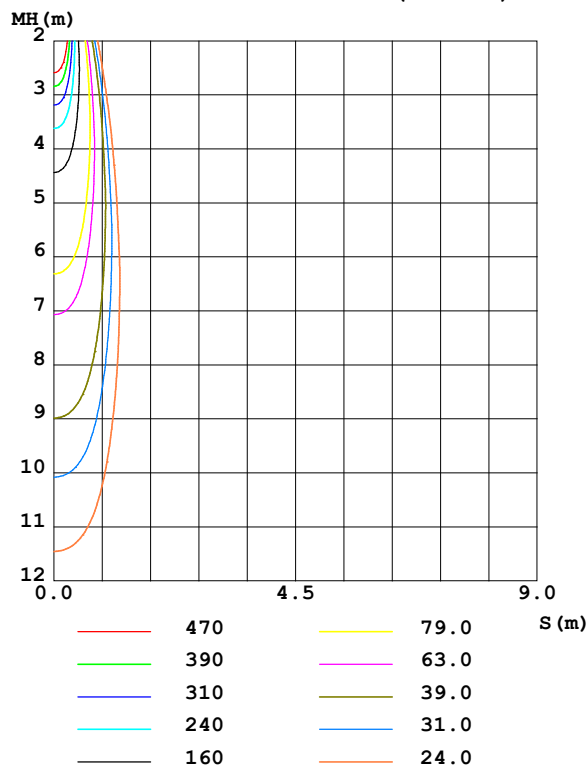
NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 28	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 86.97 lm/W
MODEL	ALR35-5G30-S	I _{max} (cd)	3144	S/MH(C0/180)	0.29	
NOMINAL POWER(W)	5	LOR(%)	100.3	S/MH(C90/270)	0.28	
RATED VOLTAGE(V)	226	TOTAL FLUX(lm)	437.48	η UP,DN(C0-180)	0.0,52.2	
NOMINAL FLUX(lm)	436.265	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,48.1	
LAMPS INSIDE	1	η up (%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE(V)	225.1	η down (%)	100.3	CIBSE SHR MAX	0.30	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



C0 PLANE ISOLUX DIAGRAM (UNIT:lx)



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:AE
Test Date:2020-06-16

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.240m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

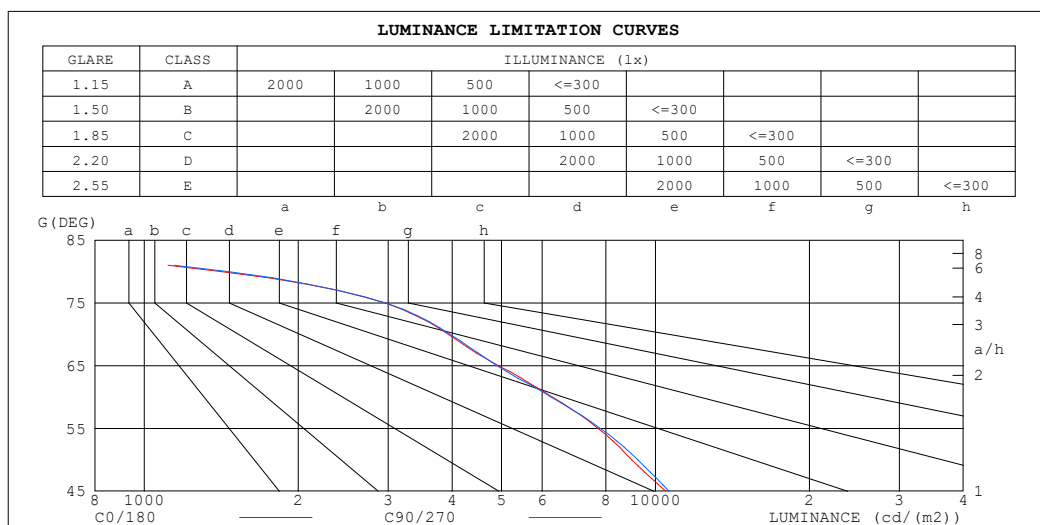
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum, lamp
10	1207	1289	1287	1279	1202	1130	1147	1149	0- 10	194.9	194.9	44.6,44.7
20	176.3	195.0	222.7	253.2	229.8	182.7	174.4	181.5	10- 20	145.5	340.5	77.8,78
30	48.15	47.36	50.39	55.36	50.11	44.38	47.37	49.66	20- 30	44.87	385.4	88.1,88.3
40	23.70	23.72	23.69	24.37	23.96	23.25	23.60	22.46	30- 40	20.79	406.1	92.8,93.1
50	14.20	15.18	14.61	15.07	14.85	14.77	14.32	13.55	40- 50	14.32	420.5	96.1,96.4
60	7.725	8.050	7.689	7.886	7.579	7.485	7.559	7.437	50- 60	9.836	430.3	98.4,98.6
70	3.304	3.417	3.338	3.334	3.169	3.093	3.210	3.237	60- 70	5.152	435.4	99.5,99.8
80	0.6039	0.6516	0.6245	0.6521	0.4862	0.4514	0.4481	0.5774	70- 80	1.931	437.4	100,100
90	0	0	0	0.0157	0	0	0	0	80- 90	0.1003	437.5	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: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:AE
Test Date:2020-06-16

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.240m [K=1.0000]
Remarks:

LUMINANCE LIMITATION CURVES

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 28	Shielding Angle:



LUMINANCE cd/(m2)		
G (DEG)	C0/180	C90/270
85	55	1
80	1415	1461
75	2965	2966
70	3931	3964
65	4925	4895
60	6287	6246
55	7721	7799
50	8992	9235
45	10470	10627

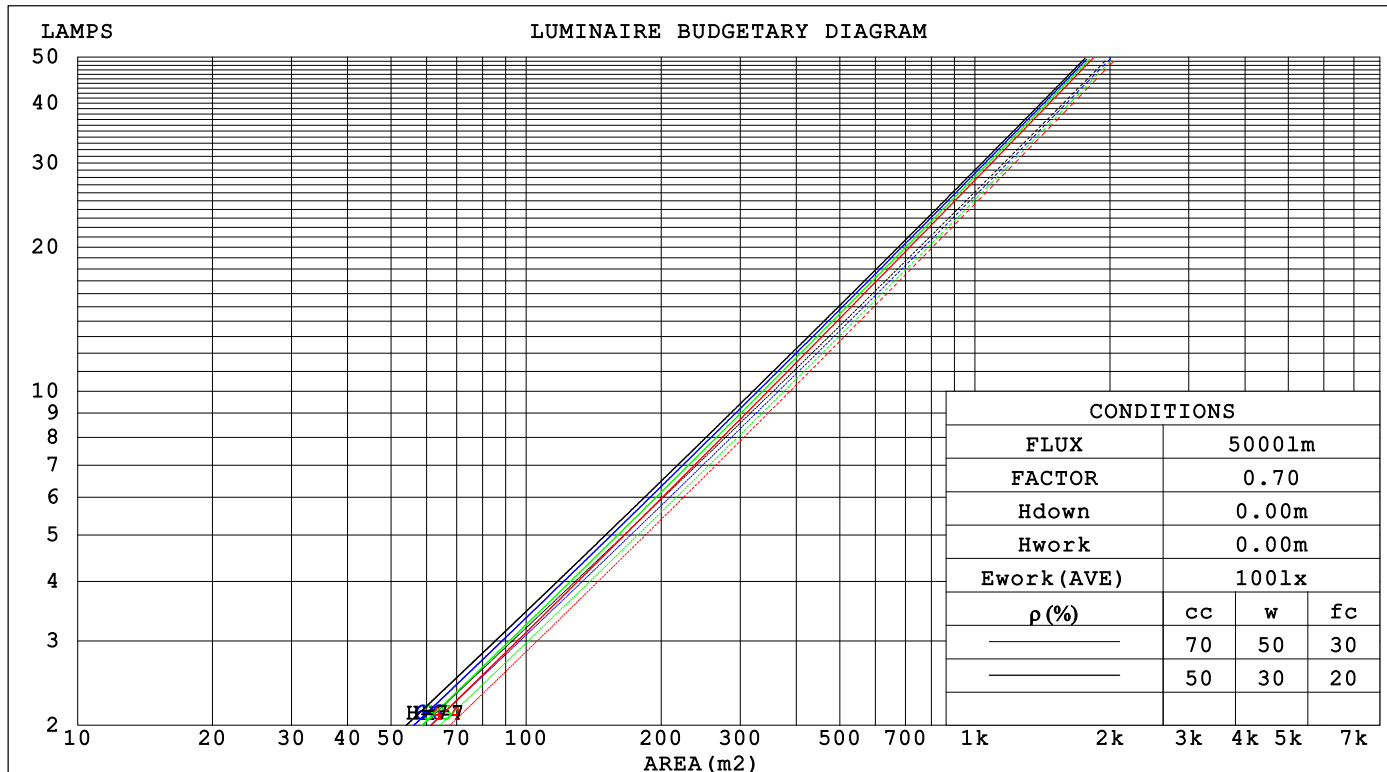
C Range: 0 - 360DEG
 C Interval: 15.0DEG
 Test Speed: HIGH
 Temperature: 25.3DEG
 Operators: AE
 Test Date: 2020-06-16

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
 Humidity: 65.0%
 Test Distance: 7.240m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 28	Shielding Angle:

pcc	80%			70%			50%			30%			10%			0
pw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.17	1.17	1.17	1.11	1.11	1.11	1.07	1.07	1.07	1.02	1.02	1.02	1.00
1.0	1.13	1.11	1.09	1.11	1.09	1.07	1.07	1.05	1.04	1.03	1.02	1.01	.00	.99	.98	.96
2.0	1.07	1.04	1.01	1.06	1.03	1.00	1.02	1.00	.98	.00	.98	.96	.97	.95	.94	.93
3.0	1.02	.99	.96	1.01	.98	.95	.99	.96	.93	.96	.94	.92	.94	.92	.91	.89
4.0	.98	.94	.91	.97	.94	.91	.95	.92	.90	.93	.91	.89	.92	.89	.88	.86
5.0	.95	.90	.87	.94	.90	.87	.92	.89	.86	.91	.88	.86	.89	.87	.85	.84
6.0	.92	.87	.84	.91	.87	.84	.90	.86	.83	.88	.85	.83	.87	.84	.82	.81
7.0	.89	.85	.82	.88	.84	.81	.87	.84	.81	.86	.83	.81	.85	.82	.80	.79
8.0	.86	.82	.79	.86	.82	.79	.85	.81	.79	.84	.81	.78	.83	.80	.78	.77
9.0	.84	.80	.77	.84	.80	.77	.83	.79	.77	.82	.79	.77	.81	.78	.76	.75
10.0	.82	.78	.75	.82	.78	.75	.81	.77	.75	.80	.77	.75	.80	.77	.75	.74



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:AE
Test Date:2020-06-16

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.240m [K=1.0000]
Remarks:

WEC AND CCEC

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 28	Shielding Angle:

pcc	80%	70%	50%	30%	10%	0
pw	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
pfc	20%	20%	20%	20%	20%	0
RCR	RCR:Room Cavity Ratio					Wall Exitance Coefficients(WEC)
0.0						
1.0	.143 .081 .026	.136 .078 .025	.124 .071 .023	.113 .065 .021	.102 .059 .019	
2.0	.133 .073 .022	.128 .070 .022	.118 .065 .020	.108 .061 .019	.099 .056 .018	
3.0	.124 .066 .020	.119 .064 .019	.111 .060 .018	.103 .056 .017	.095 .053 .016	
4.0	.116 .060 .018	.112 .058 .017	.105 .055 .017	.098 .052 .016	.091 .050 .015	
5.0	.108 .055 .016	.105 .054 .016	.099 .051 .015	.093 .049 .015	.088 .047 .014	
6.0	.102 .051 .015	.099 .050 .014	.094 .048 .014	.089 .046 .014	.084 .044 .013	
7.0	.096 .047 .013	.093 .047 .013	.089 .045 .013	.085 .043 .013	.080 .042 .012	
8.0	.091 .044 .012	.089 .044 .012	.085 .042 .012	.081 .041 .012	.077 .040 .012	
9.0	.086 .042 .012	.084 .041 .012	.081 .040 .011	.077 .039 .011	.074 .038 .011	
10.0	.082 .039 .011	.080 .039 .011	.077 .038 .011	.074 .037 .010	.071 .036 .010	

pcc	80%	70%	50%	30%	10%	0
pw	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	50% 30% 10%	0
pfc	20%	20%	20%	20%	20%	0
RCR	RCR:Room Cavity Ratio					Ceiling Cavity Exitance Coefficients(CCEC)
0.0	.191 .191 .191	.163 .163 .163	.111 .111 .111	.064 .064 .064	.020 .020 .020	
1.0	.169 .158 .148	.145 .136 .127	.099 .093 .088	.057 .054 .051	.018 .017 .017	
2.0	.151 .133 .118	.130 .115 .102	.089 .079 .071	.051 .046 .042	.016 .015 .014	
3.0	.137 .114 .095	.117 .098 .083	.080 .068 .058	.046 .040 .034	.015 .013 .011	
4.0	.124 .098 .078	.107 .085 .068	.073 .059 .048	.042 .035 .028	.014 .011 .009	
5.0	.114 .086 .066	.098 .074 .057	.067 .052 .040	.039 .031 .024	.013 .010 .008	
6.0	.105 .076 .055	.090 .066 .048	.062 .046 .034	.036 .027 .020	.012 .009 .007	
7.0	.097 .068 .047	.083 .059 .041	.057 .041 .029	.033 .024 .017	.011 .008 .006	
8.0	.090 .061 .041	.077 .053 .036	.054 .037 .025	.031 .022 .015	.010 .007 .005	
9.0	.084 .055 .036	.072 .048 .031	.050 .034 .022	.029 .020 .013	.009 .007 .004	
10.0	.079 .050 .031	.068 .044 .027	.047 .031 .019	.028 .018 .012	.009 .006 .004	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:AE
Test Date:2020-06-16

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.240m [K=1.0000]
Remarks:

UGR(Unified Glare Rating) Table

NAME :					TYPE :		WEIGHT :				
SPEC. :					DIM. :		SERIAL No. :				
MFR. :					SUR. : 28		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	2H	16.5	17.1	16.7	17.3	17.4	16.6	17.3	16.8	17.4	17.6
	3H	17.0	17.6	17.3	17.8	18.0	17.2	17.8	17.4	18.0	18.2
	4H	17.2	17.8	17.4	18.0	18.2	17.3	17.9	17.6	18.1	18.3
	6H	17.2	17.7	17.5	18.0	18.2	17.3	17.9	17.6	18.1	18.4
	8H	17.1	17.7	17.4	17.9	18.2	17.3	17.8	17.6	18.1	18.3
	12H	17.1	17.6	17.4	17.9	18.1	17.2	17.8	17.5	18.0	18.3
4H	2H	16.8	17.4	17.0	17.6	17.8	16.9	17.5	17.2	17.7	17.9
	3H	17.4	18.0	17.7	18.2	18.5	17.6	18.1	17.9	18.4	18.6
	4H	17.6	18.1	18.0	18.4	18.7	17.8	18.3	18.1	18.5	18.8
	6H	17.7	18.1	18.0	18.4	18.8	17.8	18.2	18.2	18.5	18.9
	8H	17.6	18.0	18.0	18.4	18.7	17.7	18.1	18.1	18.5	18.9
	12H	17.6	17.9	18.0	18.3	18.7	17.7	18.1	18.1	18.4	18.8
8H	4H	17.6	18.0	18.0	18.4	18.8	17.8	18.2	18.1	18.5	18.9
	6H	17.7	18.0	18.1	18.4	18.8	17.8	18.1	18.2	18.5	18.9
	8H	17.6	17.9	18.1	18.3	18.8	17.7	18.0	18.2	18.5	18.9
	12H	17.6	17.8	18.0	18.3	18.7	17.7	17.9	18.1	18.4	18.8
12H	4H	17.6	18.0	18.0	18.3	18.7	17.7	18.1	18.1	18.4	18.8
	6H	17.6	17.9	18.1	18.3	18.8	17.7	18.0	18.2	18.4	18.9
	8H	17.6	17.8	18.0	18.3	18.7	17.7	17.9	18.2	18.4	18.9
Variations with the observer position at spacings(CIE Pub.117):											
S = 1.0H		+ 0.6 / - 0.8					+ 0.6 / - 0.8				
1.5H		+ 0.4 / - 0.4					+ 0.2 / - 0.4				
2.0H		+ 1.0 / - 1.3					+ 1.0 / - 1.2				

CIE Pub.117, 436.3 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -2.9)
Area: 0.00246176 m2

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:AE
Test Date:2020-06-16

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.240m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 28	Shielding Angle:

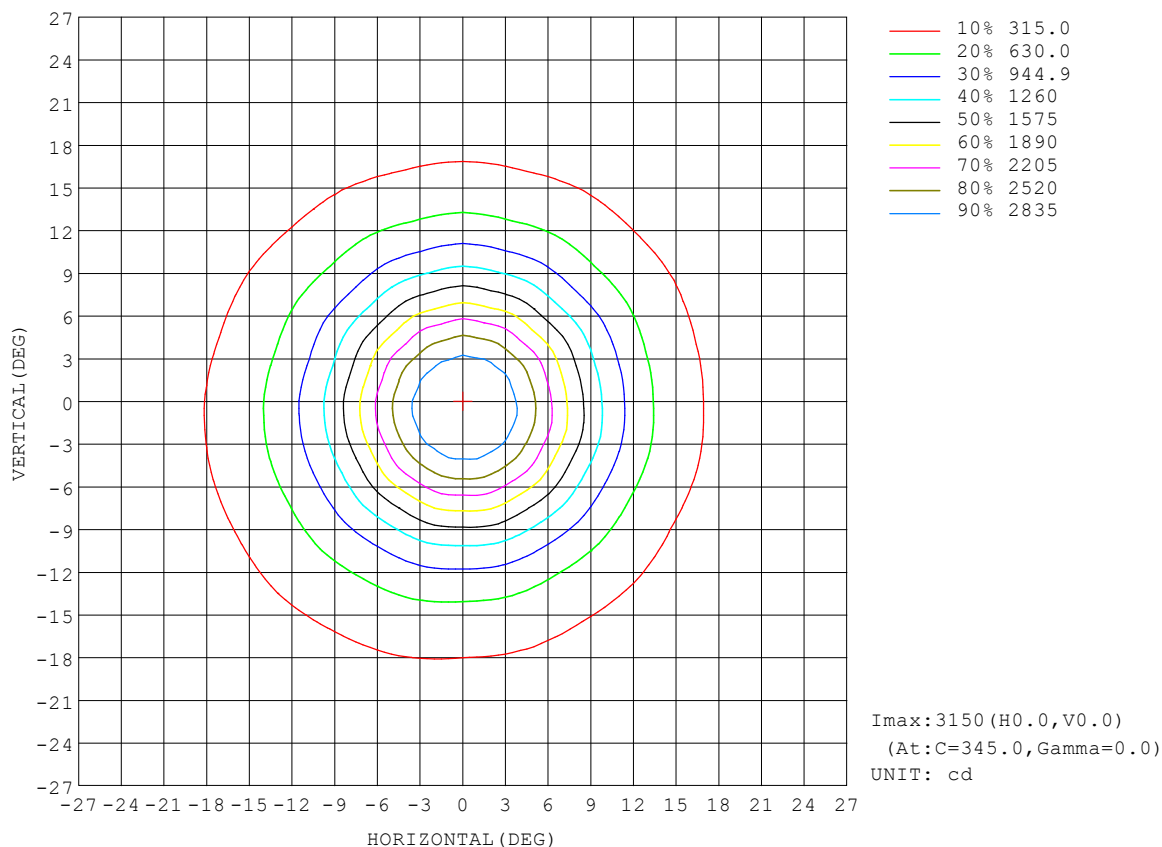
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS (PERCENT) $k(RI) \times RCR = 5$									
$k = 0.60$	87	81	77	87	81	77	86	80	77	73
0.80	95	89	85	94	88	85	93	88	85	81
1.00	99	94	90	98	93	90	97	93	89	85
1.25	103	98	94	102	97	94	100	96	93	89
1.50	106	101	98	105	100	97	102	99	96	92
2.00	109	104	101	107	103	100	104	101	99	94
2.50	110	107	103	109	105	103	106	103	101	95
3.00	112	109	106	110	107	105	107	104	102	96
4.00	114	111	109	112	110	108	108	106	105	98
5.00	115	113	111	113	111	110	109	108	106	99
ROOM INDEX	UF (total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: AE
Test Date: 2020-06-16

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 7.240m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME :	TYPE :	WEIGHT :
SPEC. :	DIM. :	SERIAL No. :
MFR. :	SUR. : 28	Shielding Angle :

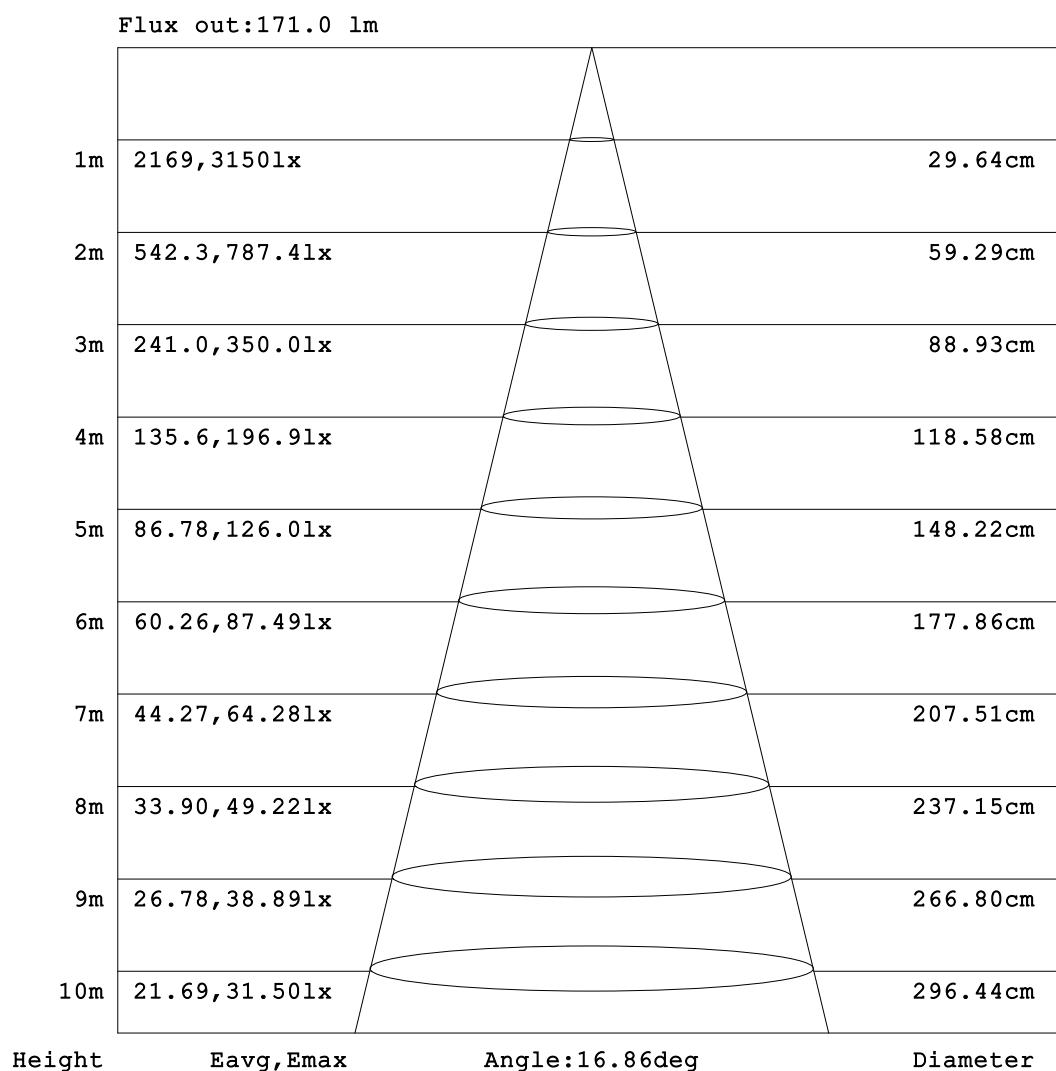


C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: AE
Test Date: 2020-06-16

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 7.240m [K=1.0000]
Remarks:

AAI Figure

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 28	Shielding Angle:



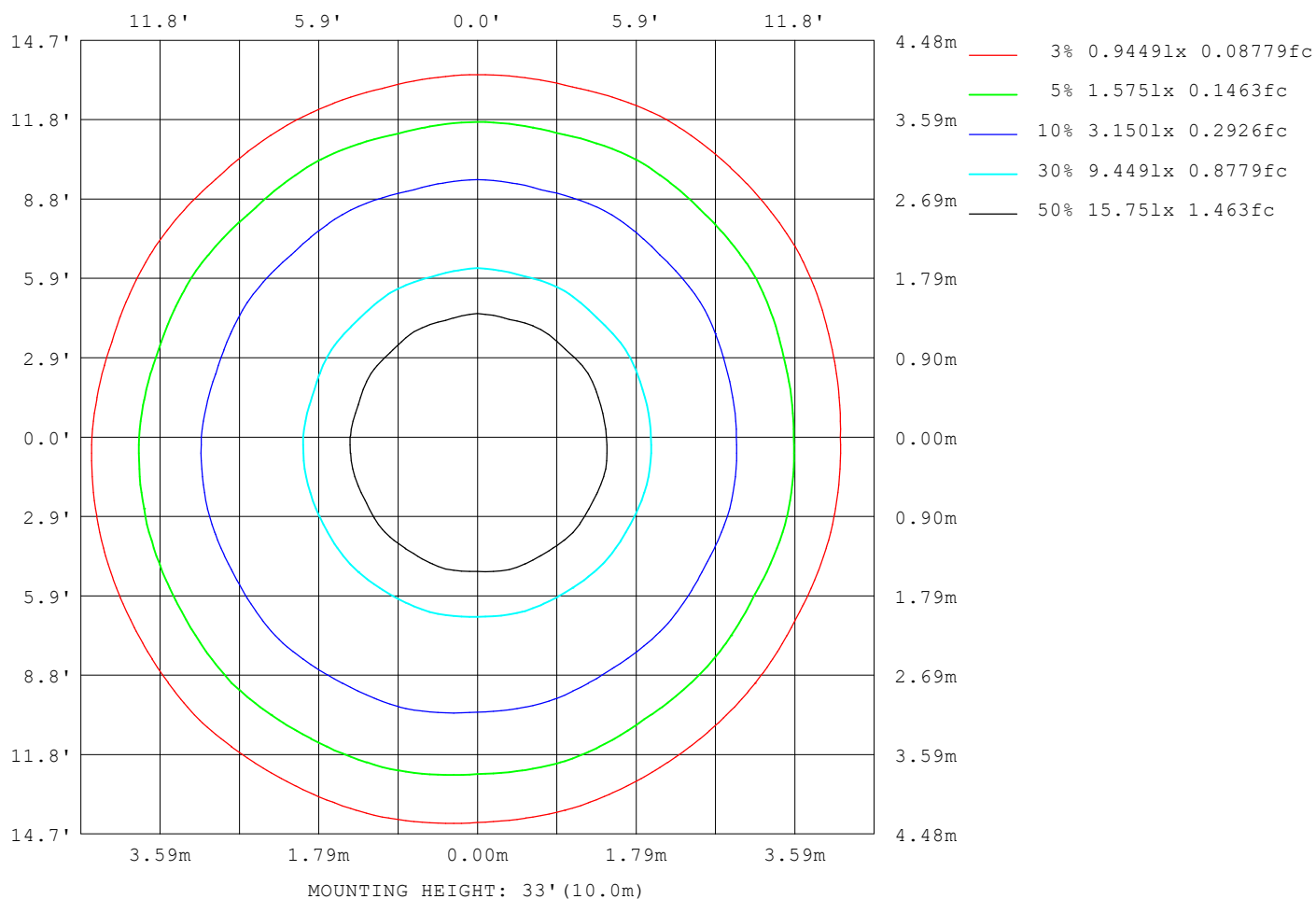
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: AE
Test Date: 2020-06-16

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 7.240m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 28	Shielding Angle:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: AE
Test Date: 2020-06-16

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 7.240m [K=1.0000]
Remarks:

LED Avg.L Report

NAME:	TYPE:	WEIGHT:
SPEC.:	DIM.:	SERIAL No.:
MFR.:	SUR.: 28	Shielding Angle:

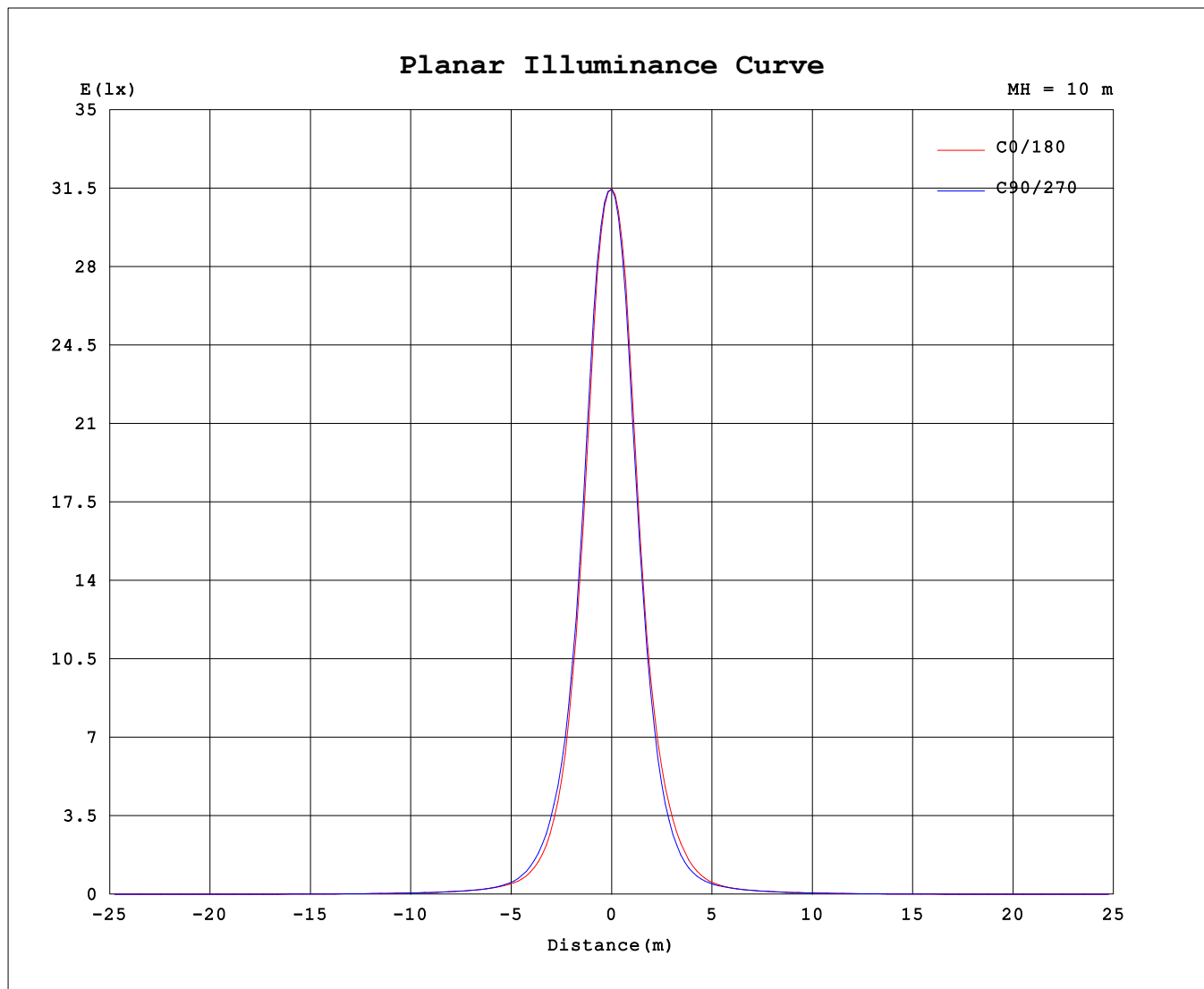
AvgL	cd/m2
L_0~180 (65) av	4816
L_0~180 (75) av	2845
L_0~180 (85) av	28
L_90~270 (65) av	4868
L_90~270 (75) av	2832
L_90~270 (85) av	0
L_45 (65) av	4903
L_45 (75) av	2859
L_45 (85) av	18

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:AE
Test Date:2020-06-16

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.240m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: AE
Test Date: 2020-06-16

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity: 65.0%
Test Distance: 7.240m [K=1.0000]
Remarks:

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.240m [K=1.0000]
Remarks:

```

NAME :	TYPE :	WEIGHT :
SPEC. :	DIM. :	SERIAL No. :
MFR. :	SUR. : 28	Shielding Angle :

UNIT: cd

[illegible]

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.362
Humidity:65.0%
Test Distance:7.240m [K=1.0000]
Remarks:

```