

Luminaire Photograph



Light Output Ratio:	79.5%	
Luminaire Power:	12.39 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	0.20	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2023-6-2

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
Remarks: LAMP: XHP35B-H0-0000-0D0UA430G Ra:90
LENS: PM-1084 15R
DRIVER: EUP30A-1HMC-1 800mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

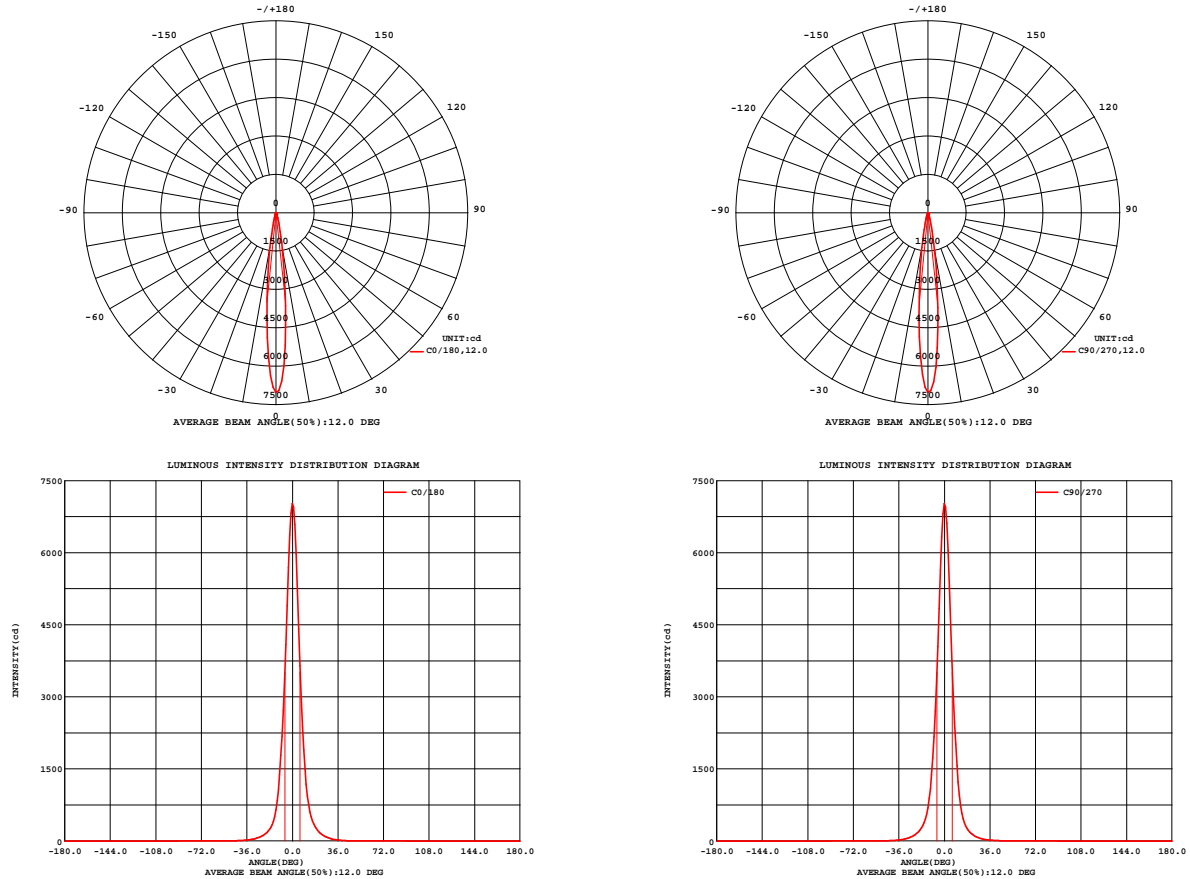


Fig. C0/C180

Fig. C90/C270

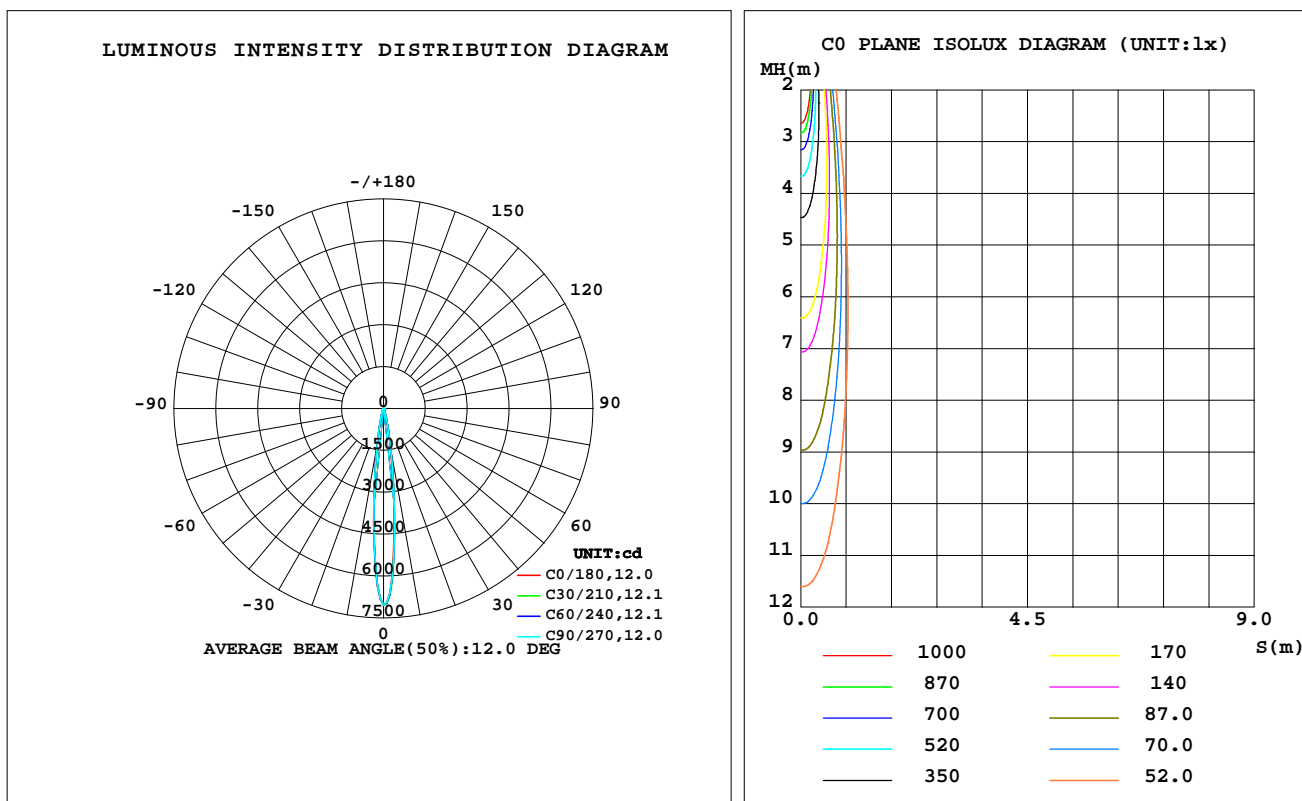
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30minutes warm-up

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.11V I:0.0608A P:12.391W PF:0.9217 Freq:49.99Hz Lamp Flux:670.75x1 lm		
NAME: 2318.203-LEE-18	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2306020720
MFR.: RISE	SUR.: 0.000572265m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 43.03 lm/W			
MODEL	CREE	Imax(cd)	7022	S/MH(C0/180)	0.20
NOMINAL POWER(W)	12	LOR(%)	79.5	S/MH(C90/270)	0.20
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	533.12	η UP,DN(C0-180)	0.0,41.0
NOMINAL FLUX(lm)	670.75	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,38.5
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	220	η down(%)	79.5	CIBSE SHR MAX	0.20



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30minutes warm-up

ZONAL FLUX DIAGRAM

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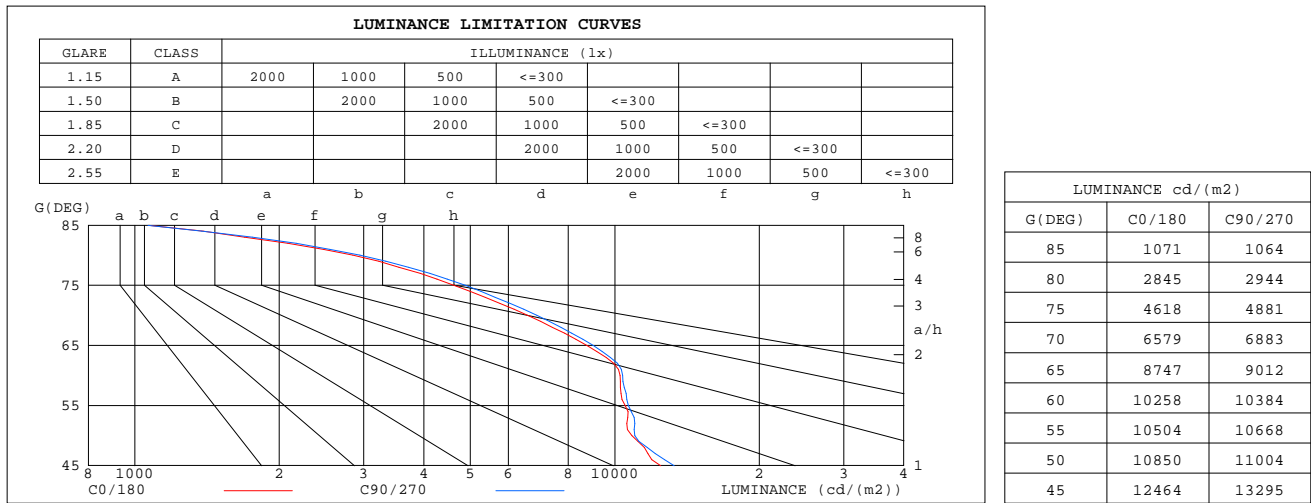
γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1497	1573	1569	1474	1376	1346	1373	1411	0- 10	312.9	312.9	58.7,46.6
20	223.7	210.3	192.0	184.4	179.1	190.1	206.2	219.9	10- 20	147.1	460.0	86.3,68.6
30	53.00	49.33	44.19	44.05	45.18	47.62	49.45	51.59	20- 30	47.15	507.1	95.1,75.6
40	10.99	10.88	10.65	10.88	10.89	10.96	11.06	10.87	30- 40	15.27	522.4	98,77.9
50	4.011	4.010	4.041	4.169	4.156	4.135	4.069	4.081	40- 50	4.657	527.1	98.9,78.6
60	2.949	2.954	2.966	3.024	3.028	2.944	2.920	2.905	50- 60	3.137	530.2	99.5,79
70	1.294	1.341	1.345	1.325	1.284	1.215	1.183	1.211	60- 70	2.087	532.3	99.8,79.4
80	0.2841	0.2897	0.2921	0.2760	0.2647	0.2465	0.2500	0.2545	70- 80	0.7429	533.0	100,79.5
90	0	0	0	0	0	0	0	0	80- 90	0.0821	533.1	100,79.5
100	0	0	0	0	0	0	0	0	90-100	0	533.1	100,79.5
110	0	0	0	0	0	0	0	0	100-110	0	533.1	100,79.5
120	0	0	0	0	0	0	0	0	110-120	0	533.1	100,79.5
130	0	0	0	0	0	0	0	0	120-130	0	533.1	100,79.5
140	0	0	0	0	0	0	0	0	130-140	0	533.1	100,79.5
150	0	0	0	0	0	0	0	0	140-150	0	533.1	100,79.5
160	0	0	0	0	0	0	0	0	150-160	0	533.1	100,79.5
170	0	0	0	0	0	0	0	0	160-170	0	533.1	100,79.5
180	0	0	0	0	0	0	0	0	170-180	0	533.1	100,79.5
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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30minutes warm-up

LUMINANCE LIMITATION CURVES

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SPEC.: 3000K	DIM.:	SERIAL No.: 2306020720
MFR.: RISE	SUR.: 0.000572265m2	Shielding Angle:



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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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TYPE:

WEIGHT:

SPEC.: 3000K

DIM.:

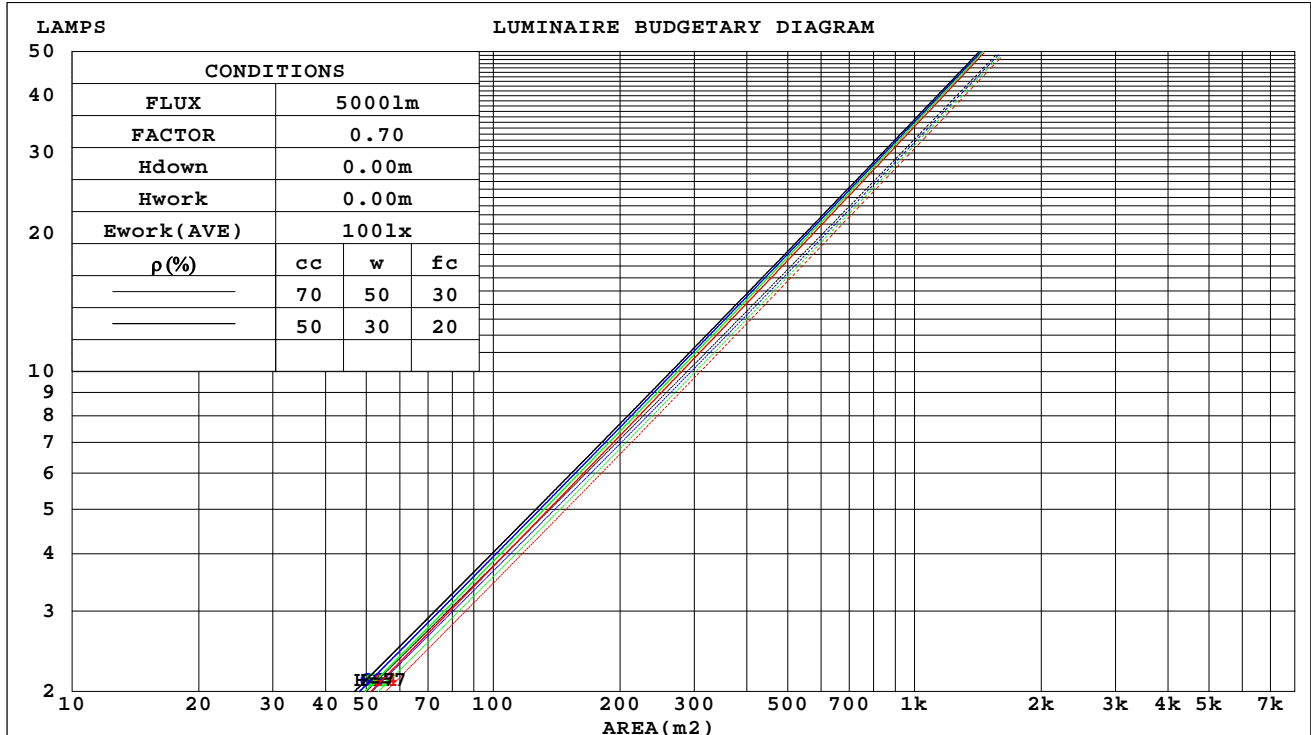
SERIAL No.: 2306020720

MFR.: RISE

SUR.: 0.000572265m2

Shielding Angle:

ρ_{cc}	80%			70%			50%			30%			10%			0
ρ_w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ_{fc}	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio															



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WEC AND CCEC

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SPEC.: 3000K	DIM.:	SERIAL No.: 2306020720
MFR.: RISE	SUR.: 0.000572265m2	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	.098	.056	.018	.093	.053	.017	.083	.048	.015	.074	.043	.014	.066	.038	.012	
2.0	.090	.049	.015	.086	.047	.015	.077	.043	.013	.070	.039	.012	.063	.036	.011	
3.0	.083	.044	.013	.079	.042	.013	.073	.039	.012	.066	.036	.011	.061	.034	.010	
4.0	.077	.040	.012	.074	.039	.011	.068	.036	.011	.063	.034	.010	.058	.032	.010	
5.0	.071	.036	.011	.069	.035	.010	.064	.033	.010	.060	.032	.009	.056	.030	.009	
6.0	.067	.033	.010	.065	.033	.009	.061	.031	.009	.057	.030	.009	.053	.028	.008	
7.0	.063	.031	.009	.061	.030	.009	.058	.029	.008	.054	.028	.008	.051	.027	.008	
8.0	.059	.029	.008	.058	.028	.008	.055	.027	.008	.052	.026	.008	.049	.025	.007	
9.0	.056	.027	.008	.055	.027	.008	.052	.026	.007	.050	.025	.007	.048	.024	.007	
10.0	.053	.026	.007	.052	.025	.007	.050	.024	.007	.048	.024	.007	.046	.023	.007	

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	.151	.151	.151	.129	.129	.129	.088	.088	.088	.051	.051	.051	.016	.016	.016		
1.0	.133	.125	.119	.114	.108	.102	.078	.074	.071	.045	.043	.041	.014	.014	.013		
2.0	.118	.106	.095	.101	.091	.082	.069	.063	.057	.040	.037	.034	.013	.012	.011		
3.0	.105	.090	.078	.090	.078	.067	.062	.054	.047	.036	.031	.028	.012	.010	.009		
4.0	.095	.078	.064	.081	.067	.056	.056	.047	.039	.032	.027	.023	.010	.009	.008		
5.0	.086	.068	.054	.074	.058	.047	.051	.041	.033	.029	.024	.020	.009	.008	.007		
6.0	.078	.059	.046	.067	.051	.040	.046	.036	.028	.027	.021	.017	.009	.007	.006		
7.0	.072	.053	.039	.062	.046	.034	.043	.032	.024	.025	.019	.014	.008	.006	.005		
8.0	.066	.047	.034	.057	.041	.030	.039	.029	.021	.023	.017	.013	.007	.006	.004		
9.0	.061	.042	.030	.053	.037	.026	.037	.026	.018	.021	.015	.011	.007	.005	.004		
10.0	.057	.038	.026	.049	.033	.023	.034	.024	.016	.020	.014	.010	.006	.005	.003		

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DRIVER:EUP30A-1HMC-1 800mA
30minutes warm-up

UGR(Unified Glare Rating) Table

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SPEC.: 3000K					DIM.:			SERIAL No.: 2306020720		
MFR.: RISE					SUR.: 0.000572265m2			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	13.7	14.3	13.9	14.4	14.6	13.4	13.9	13.6	14.1	14.2
3H	14.2	14.7	14.4	14.9	15.0	13.9	14.4	14.1	14.6	14.8
4H	14.3	14.8	14.5	15.0	15.2	14.0	14.5	14.3	14.7	14.9
6H	14.3	14.7	14.5	15.0	15.2	14.0	14.5	14.3	14.7	15.0
8H	14.2	14.7	14.5	14.9	15.2	14.0	14.5	14.3	14.7	15.0
12H	14.2	14.6	14.5	14.9	15.1	14.0	14.4	14.3	14.7	14.9
4H 2H	13.9	14.4	14.2	14.6	14.8	13.6	14.1	13.9	14.3	14.5
3H	14.5	14.9	14.8	15.2	15.4	14.2	14.7	14.5	14.9	15.2
4H	14.6	15.0	14.9	15.3	15.6	14.4	14.8	14.7	15.1	15.4
6H	14.6	15.0	15.0	15.3	15.6	14.4	14.8	14.8	15.1	15.4
8H	14.6	14.9	14.9	15.2	15.6	14.4	14.7	14.8	15.1	15.4
12H	14.5	14.8	14.9	15.2	15.6	14.3	14.7	14.7	15.0	15.4
8H 4H	14.6	14.9	14.9	15.2	15.6	14.4	14.7	14.8	15.1	15.4
6H	14.6	14.9	15.0	15.3	15.7	14.4	14.7	14.8	15.1	15.5
8H	14.5	14.8	15.0	15.2	15.6	14.4	14.6	14.8	15.0	15.5
12H	14.5	14.7	15.0	15.1	15.6	14.3	14.5	14.8	15.0	15.4
12H 4H	14.5	14.8	14.9	15.2	15.6	14.3	14.6	14.7	15.0	15.4
6H	14.5	14.8	15.0	15.2	15.6	14.4	14.6	14.8	15.0	15.5
8H	14.5	14.7	15.0	15.2	15.6	14.3	14.5	14.8	15.0	15.5
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 1.5 / - 1.4					+ 1.2 / - 1.2				
1.5H	+ 3.0 / - 1.2					+ 2.5 / - 1.0				
2.0H	+ 0.2 / - 0.7					+ 0.3 / - 0.7				

CIE Pub.117, 670.8 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.4)
Area: 0.000572265 m2

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UTILIZATION FACTORS TABLE

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SPEC.: 3000K	DIM.:	SERIAL No.: 2306020720
MFR.: RISE	SUR.: 0.000572265m2	Shielding Angle:

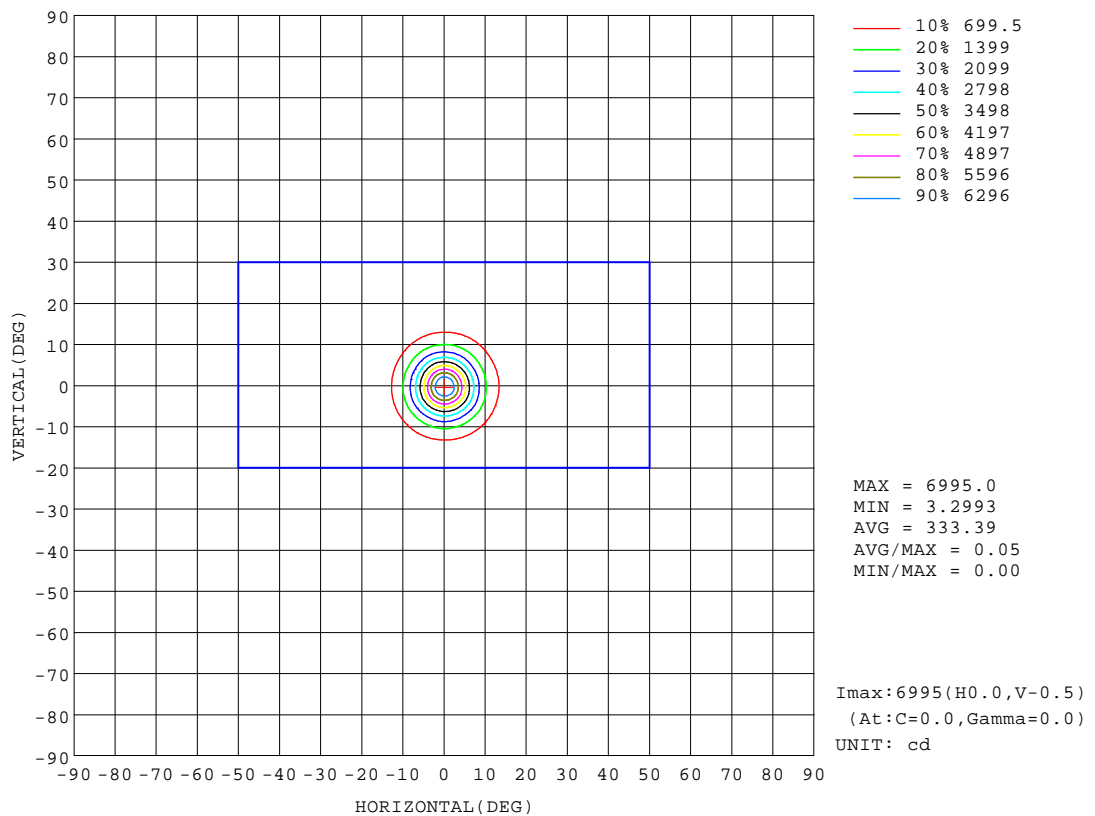
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	72	67	64	71	67	64	71	67	64	62
0.80	77	73	70	77	73	70	76	72	70	67
1.00	80	76	74	80	76	73	79	76	73	70
1.25	83	80	77	82	79	77	81	78	76	73
1.50	85	82	79	84	81	79	83	80	78	75
2.00	87	84	82	86	83	81	84	82	80	76
2.50	88	85	83	87	85	83	85	83	81	77
3.00	89	87	85	88	86	84	85	84	82	77
4.00	91	89	87	89	88	86	86	85	84	79
5.00	92	90	89	90	89	88	87	86	85	79
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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ISOCANDELA DIAGRAM

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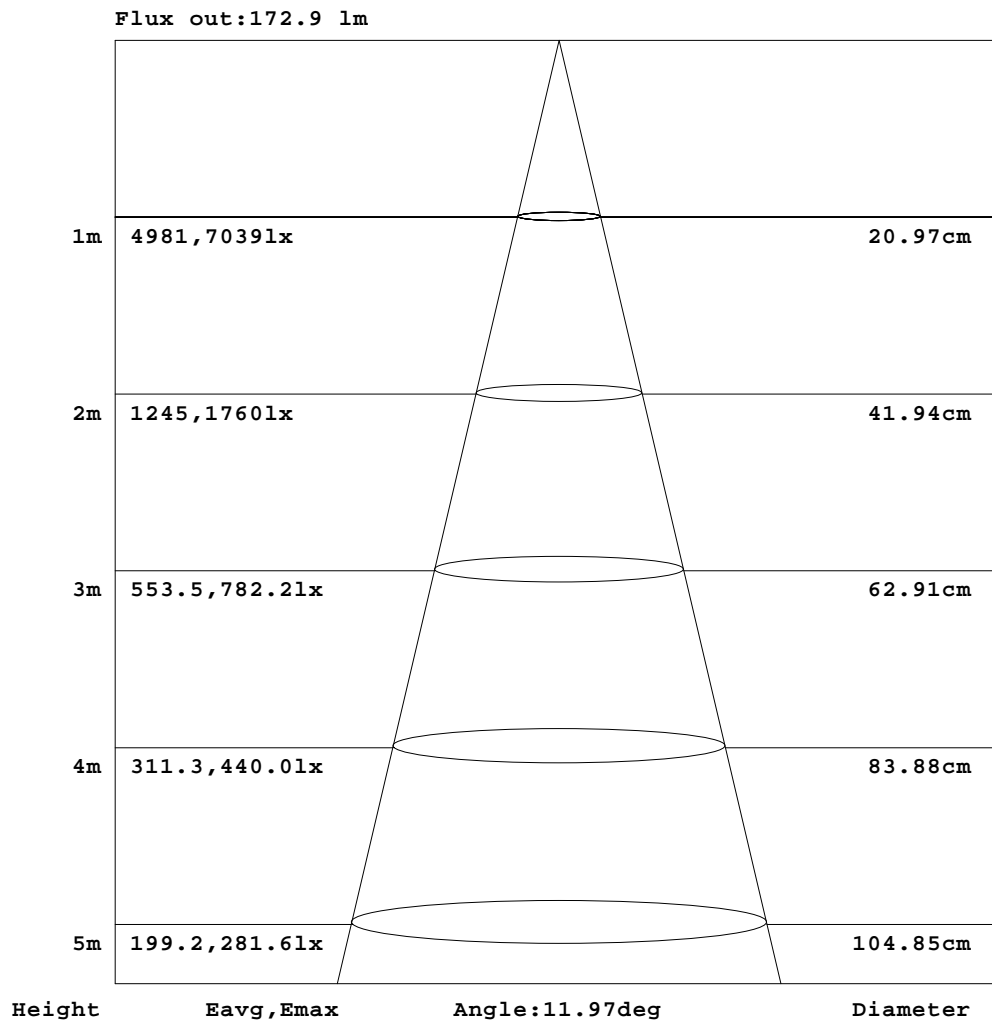


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AAI Figure

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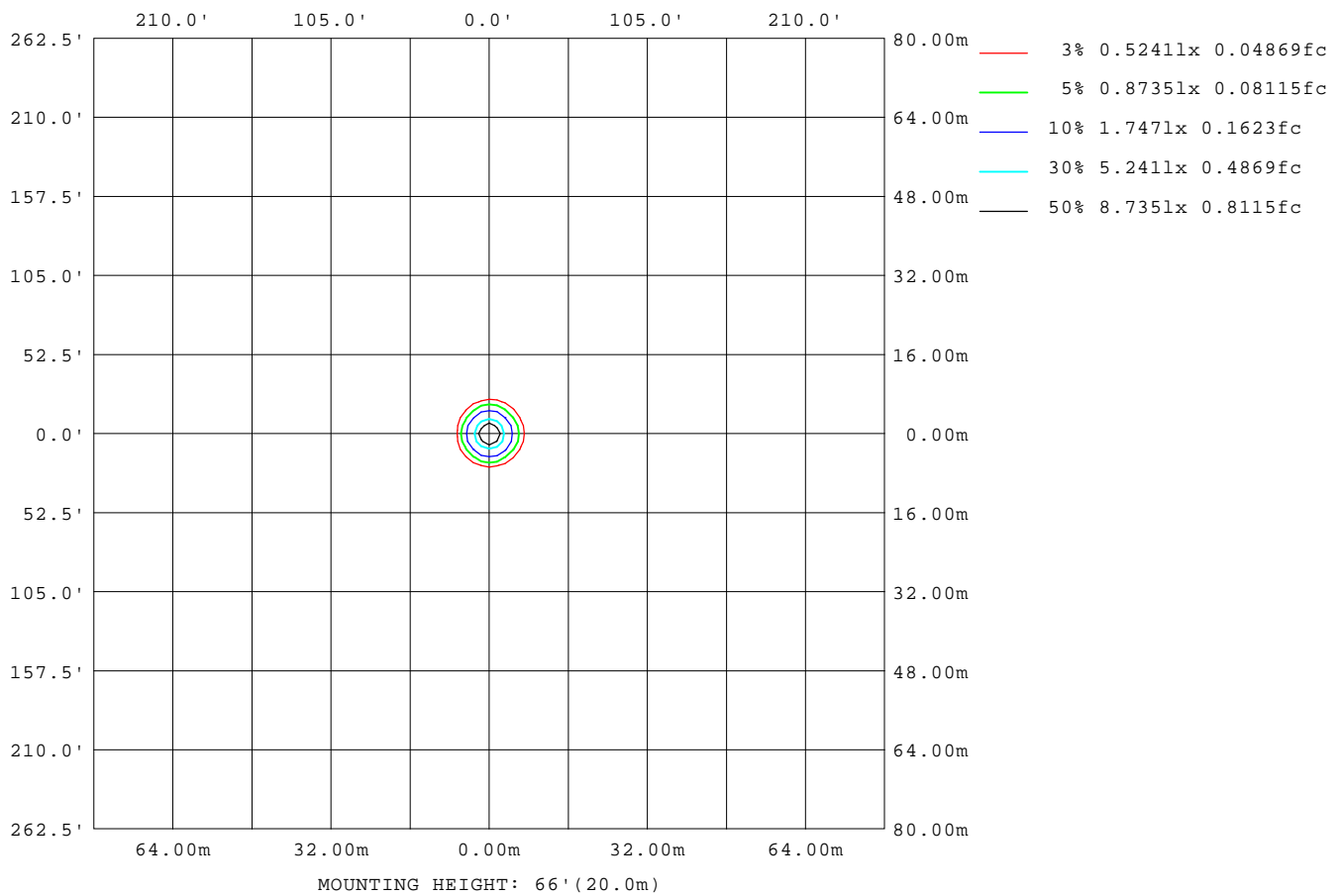
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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γ Interval: 1.0DEG
Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity: 65.0%
Test Distance: 3.160m [K=1.0000]
Remarks: LAMP: XHP35B-H0-0000-0D0UA430G Ra:90
LENS: PM-1084 15R
DRIVER: EUP30A-1HMC-1 800mA
30minutes warm-up

LED Avg.L Report

Test:U:220.11V I:0.0608A P:12.391W PF:0.9217 Freq:49.99Hz Lamp Flux:670.75x1 lm		
NAME: 2318.203-LEE-18	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2306020720
MFR.: RISE	SUR.: 0.000572265m2	Shielding Angle:

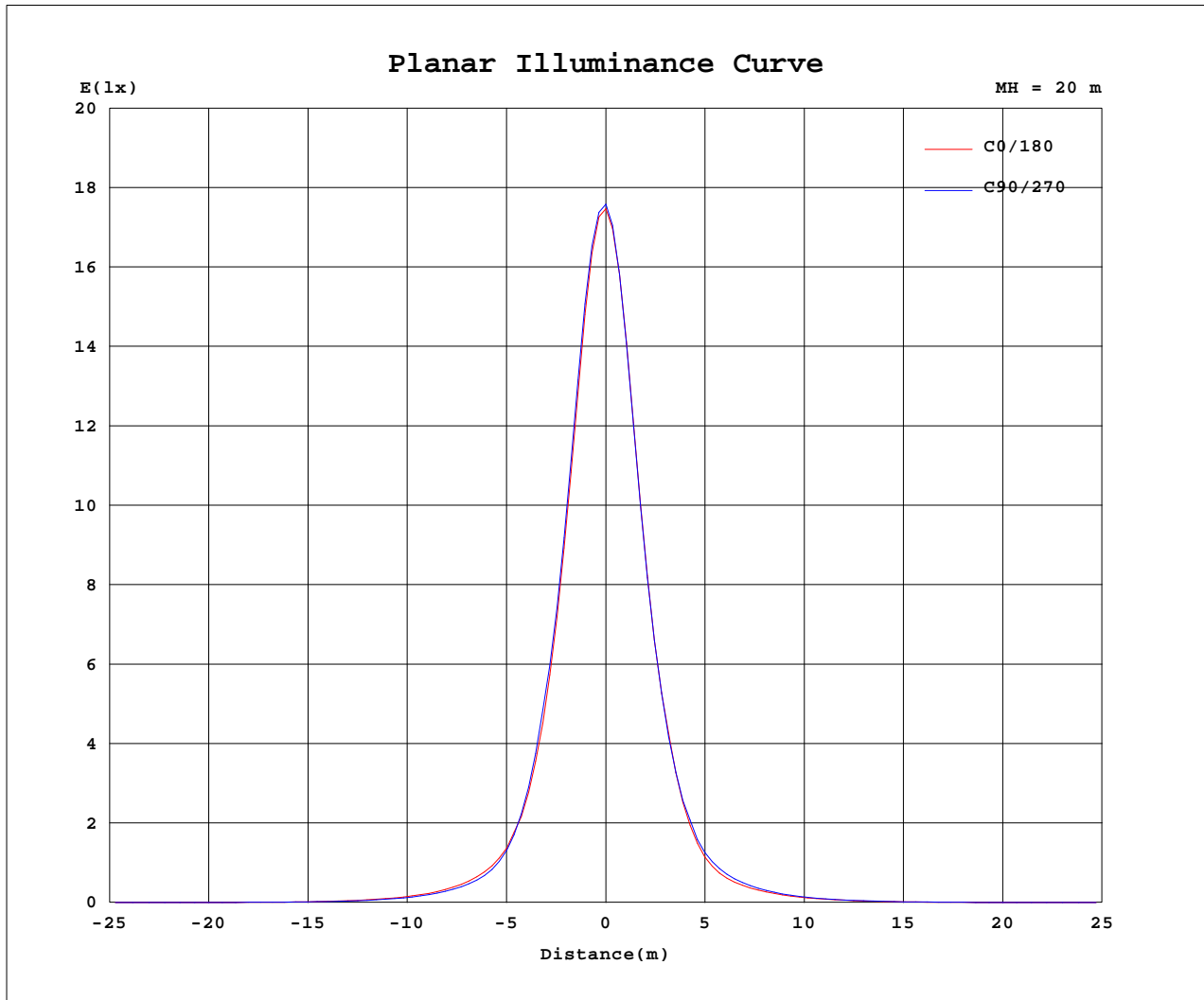
AvgL	cd/m2
L_0~180(65)av	8804
L_0~180(75)av	4578
L_0~180(85)av	946
L_90~270(65)av	8602
L_90~270(75)av	4543
L_90~270(85)av	949
L_45(65)av	8668
L_45(75)av	4533
L_45(85)av	776

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-6-2

γ Range: 0 - 180DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
Humidity:65.0%
Test Distance:3.160m [K=1.0000]
Remarks: LAMP:XHP35B-H0-0000-0D0UA430G Ra:90
LENS: PM-1084 15R
DRIVER:EUP30A-1HMC-1 800mA
30minutes warm-up

Planar Illuminance Curve



C Range: 0 - 360DEG
 C Interval: 30.0DEG
 Test Speed: HIGH
 Temperature: 25.3 °C
 Operators: zoe
 Test Date: 2023-6-2

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System: EVERFINE GO-SPEX500_V1 SYSTEM V2.00.461
 Humidity: 65.0%
 Test Distance: 3.160m [K=1.0000]
 Remarks: LAMP: XHP35B-H0-0000-0D0UA430G Ra:90
 LENS: PM-1084 15R
 DRIVER: EUP30A-1HMC-1 800mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.11V I:0.0608A P:12.391W PF:0.9217 Freq:49.99Hz Lamp Flux:670.75x1 lm		
NAME: 2318.203-LEE-18	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2306020720
MFR.: RISE	SUR.: 0.000572265m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	7022	7022	7022	7022	7022	7022	7022	7022	7022	7022	7022	7022						
5	4404	4587	4541	4497	4395	4257	4086	4000	4045	4046	4115	4210						
10	1497	1581	1566	1569	1499	1449	1376	1320	1372	1373	1406	1415						
15	501	504	476	461	440	424	409	410	440	459	479	484						
20	224	221	200	192	187	182	179	183	198	206	221	218						
25	107	105	95.7	91.8	90.3	89.1	90.5	92.2	96.9	99.5	105	105						
30	53.0	51.7	47.0	44.2	44.1	44.0	45.2	46.6	48.6	49.4	51.5	51.7						
35	24.3	23.7	22.0	21.2	21.5	21.6	21.7	21.9	23.0	23.4	24.1	24.0						
40	11.0	11.1	10.7	10.7	10.9	10.9	10.9	10.8	11.1	11.1	11.0	10.8						
45	5.07	5.16	5.24	5.37	5.45	5.46	5.44	5.38	5.33	5.13	5.19	5.11						
50	4.01	4.04	3.98	4.04	4.11	4.22	4.16	4.15	4.12	4.07	4.11	4.05						
55	3.46	3.45	3.41	3.50	3.51	3.57	3.57	3.52	3.51	3.54	3.49	3.42						
60	2.95	2.96	2.94	2.97	3.01	3.04	3.03	2.96	2.92	2.92	2.91	2.90						
65	2.13	2.18	2.17	2.18	2.17	2.18	2.13	2.05	2.01	1.98	1.99	2.03						
70	1.29	1.34	1.34	1.35	1.33	1.32	1.28	1.23	1.20	1.18	1.19	1.23						
75	0.69	0.71	0.72	0.72	0.71	0.70	0.67	0.64	0.63	0.62	0.63	0.65						
80	0.28	0.29	0.29	0.29	0.28	0.27	0.26	0.25	0.25	0.25	0.25	0.26						
85	0.05	0.05	0.04	0.05	0.04	0.04	0.04	0.03	0.04	0.04	0.04	0.04						
90	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
95	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
100	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
105	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
110	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
115	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
120	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
125	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
130	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
135	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
140	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
145	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
150	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
155	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
160	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
165	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
170	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
175	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						
180	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00						

C Range: 0 - 360DEG
C Interval: 30.0DEG
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