

Luminaire Photograph



Light Output Ratio:	81.1%	
Luminaire Power:	8.251 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	0.30	fine grid method.

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature: 25.3 °C
Operators: zoe
Test Date: 2023-8-7

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: CXB1304-0000-000F0UA430G Ra:90
LENS: PM-1084A 24R
DRIVER: 9290 028 088 350mA
30minutes warm-up

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

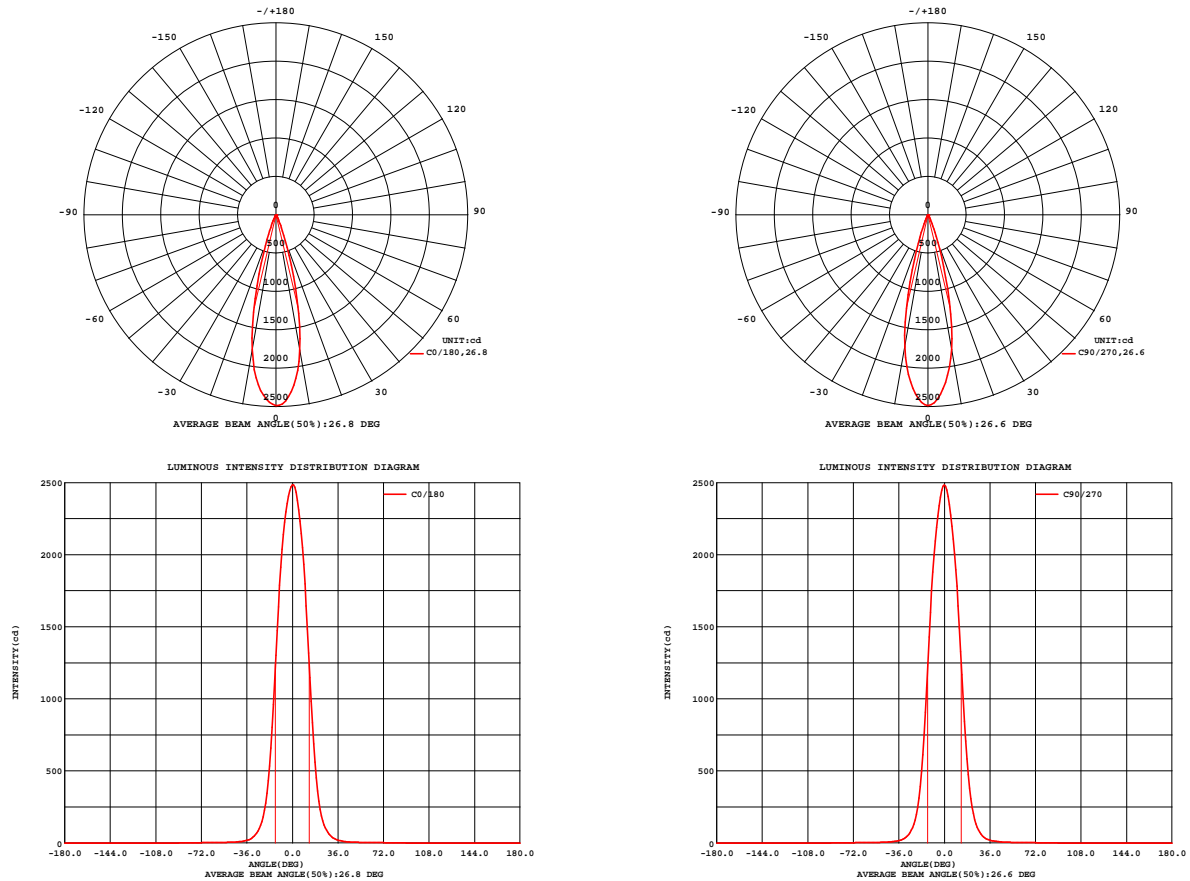


Fig. C0/C180

Fig. C90/C270

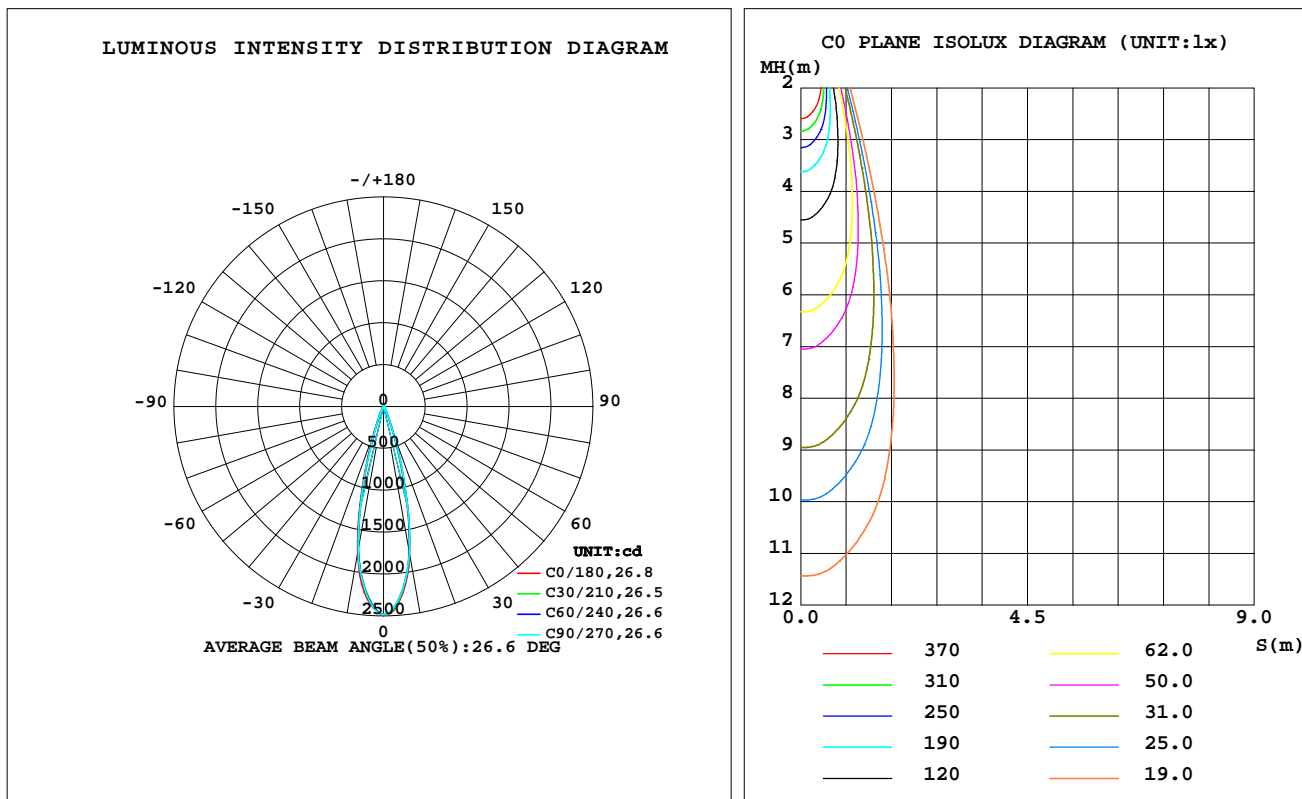
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LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.00V I:0.0398A P:8.2509W PF:0.9380 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2218.511-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308070989
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 67.42 lm/W			
MODEL	CREE	I _{max} (cd)	2484	S/MH(C0/180)	0.42
NOMINAL POWER(W)	8	LOR(%)	81.1	S/MH(C90/270)	0.42
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	556.26	η UP,DN(C0-180)	0.0,41.6
NOMINAL FLUX(lm)	685.66	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,39.5
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	220	η down(%)	81.1	CIBSE SHR MAX	0.30



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30minutes warm-up

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	%lum,lamp
10	1797	1784	1782	1801	1788	1739	1748	1790	0- 10	202.3	202.3	36.4,29.5
20	361.8	379.7	381.8	369.3	344.2	313.5	311.4	338.6	10- 20	260.8	463.1	83.2,67.5
30	52.25	53.67	50.05	49.03	48.19	44.98	41.09	45.35	20- 30	64.15	527.2	94.8,76.9
40	12.37	12.74	12.51	11.96	11.08	10.61	10.71	11.55	30- 40	14.86	542.1	97.4,79.1
50	4.935	5.039	5.052	4.983	4.712	4.539	4.640	4.823	40- 50	5.589	547.7	98.5,79.9
60	3.515	3.594	3.615	3.554	3.380	3.280	3.334	3.431	50- 60	3.590	551.2	99.1,80.4
70	2.544	2.622	2.635	2.543	2.403	2.320	2.338	2.430	60- 70	2.984	554.2	99.6,80.8
80	0.8758	0.9216	0.9243	0.8724	0.8229	0.7499	0.7430	0.7933	70- 80	1.765	556.0	100,81.1
90	0	0	0	0	0	0	0	0	80- 90	0.2656	556.3	100,81.1
100	0	0	0	0	0	0	0	0	90-100	0	556.3	100,81.1
110	0	0	0	0	0	0	0	0	100-110	0	556.3	100,81.1
120	0	0	0	0	0	0	0	0	110-120	0	556.3	100,81.1
130	0	0	0	0	0	0	0	0	120-130	0	556.3	100,81.1
140	0	0	0	0	0	0	0	0	130-140	0	556.3	100,81.1
150	0	0	0	0	0	0	0	0	140-150	0	556.3	100,81.1
160	0	0	0	0	0	0	0	0	150-160	0	556.3	100,81.1
170	0	0	0	0	0	0	0	0	160-170	0	556.3	100,81.1
180	0	0	0	0	0	0	0	0	170-180	0	556.3	100,81.1
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

C Range: 0 - 360DEG
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Temperature:25.3℃
Operators:zoe
Test Date:2023-8-7

γ Range: 0 - 180DEG
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Humidity:65.0%
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LENS: PM-1084A 24R
DRIVER:9290 028 088 350mA
30minutes warm-up

LUMINANCE LIMITATION CURVES

Test:U:220.00V I:0.0398A P:8.2509W PF:0.9380 Freq:49.99Hz
Lamp Flux:685.66x1 lm

NAME: 2218.511-ACOT-96

TYPE:

WEIGHT:

SPEC.: 3000K

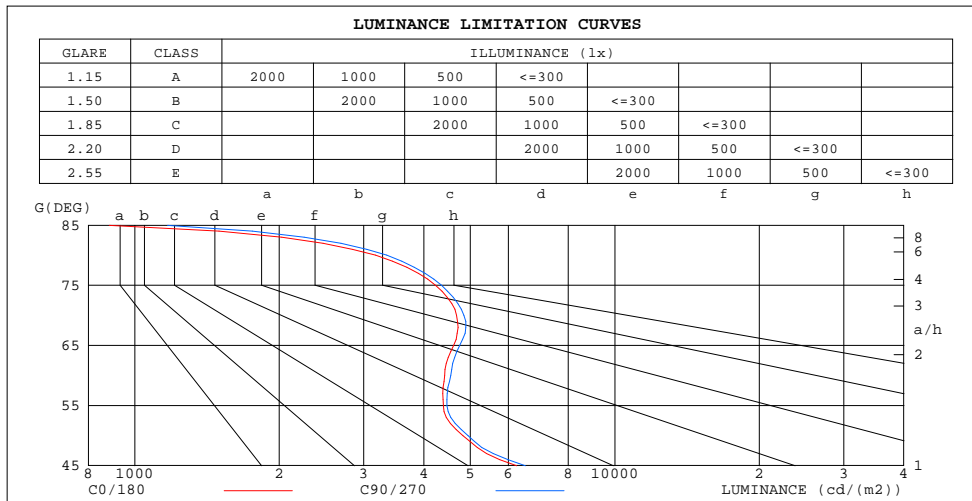
DIM.:

SERIAL No.: 2308070989

MFR.: RISE

SUR.: 0.001589625m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	C0/180	C90/270
85	884	1169
80	3173	3350
75	4231	4356
70	4680	4848
65	4618	4756
60	4422	4550
55	4395	4471
50	4829	4946
45	6246	6511

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CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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WEIGHT:

SPEC.: 3000K

DIM.:

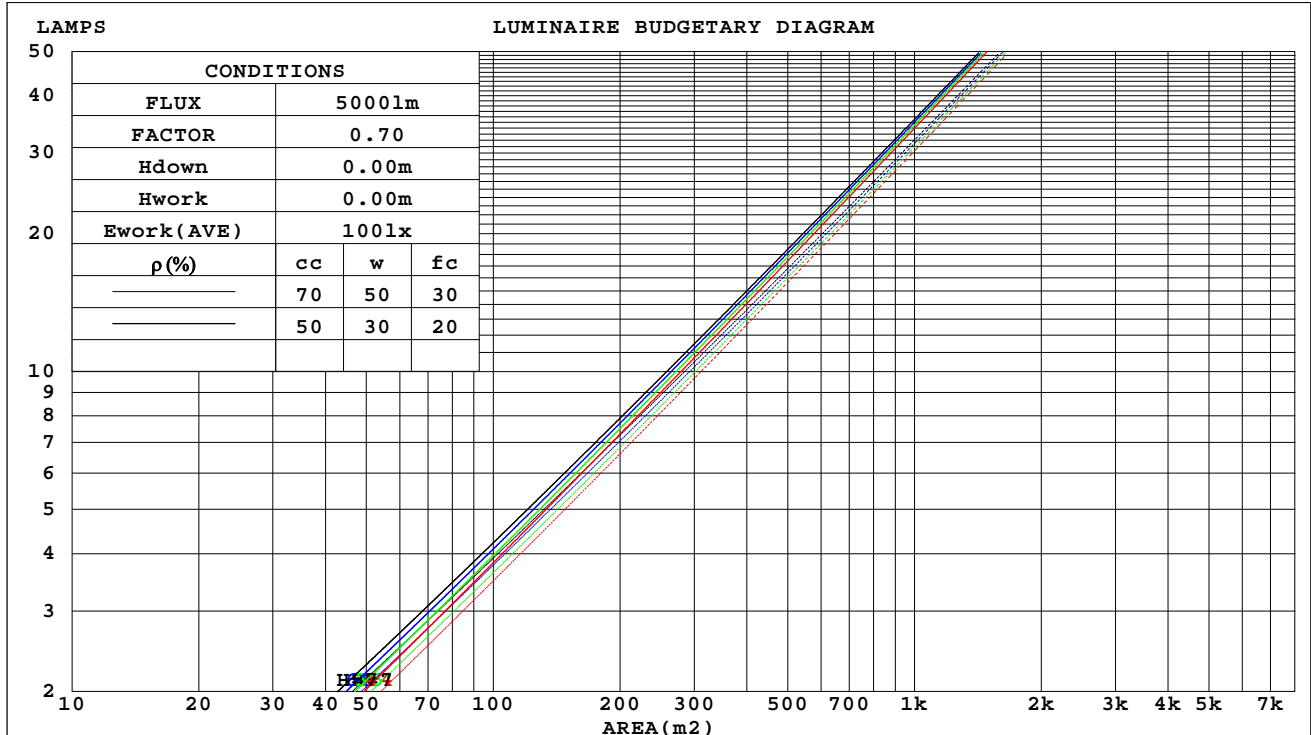
SERIAL No.: 2308070989

MFR.: RISE

SUR.: 0.001589625m2

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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NAME: 2218.511-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308070989
MFR.: RISE	SUR.: 0.001589625m2	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	.112	.064	.020	.107	.061	.019	.097	.055	.018	.087	.050	.016	.079	.046	.015		
2.0	.104	.057	.017	.099	.055	.017	.091	.051	.016	.083	.047	.015	.076	.043	.014		
3.0	.096	.051	.015	.092	.050	.015	.086	.046	.014	.079	.043	.013	.073	.041	.013		
4.0	.090	.047	.014	.087	.045	.013	.081	.043	.013	.075	.041	.012	.070	.038	.012		
5.0	.084	.043	.012	.082	.042	.012	.077	.040	.012	.072	.038	.011	.068	.036	.011		
6.0	.080	.040	.011	.077	.039	.011	.073	.037	.011	.069	.036	.011	.065	.034	.010		
7.0	.075	.037	.011	.073	.037	.010	.070	.035	.010	.066	.034	.010	.063	.033	.010		
8.0	.072	.035	.010	.070	.034	.010	.067	.033	.010	.064	.032	.009	.061	.031	.009		
9.0	.068	.033	.009	.067	.033	.009	.064	.032	.009	.061	.031	.009	.059	.030	.009		
10.0	.065	.031	.009	.064	.031	.009	.062	.030	.008	.059	.029	.008	.057	.029	.008		

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	.155	.155	.155	.132	.132	.132	.090	.090	.090	.052	.052	.052	.017	.017	.017	
1.0	.137	.128	.120	.117	.110	.103	.080	.076	.071	.046	.044	.042	.015	.014	.013	
2.0	.122	.108	.096	.104	.093	.083	.072	.064	.058	.041	.037	.034	.013	.012	.011	
3.0	.110	.092	.078	.094	.079	.067	.065	.055	.047	.037	.032	.028	.012	.010	.009	
4.0	.100	.079	.064	.085	.069	.056	.059	.048	.039	.034	.028	.023	.011	.009	.008	
5.0	.091	.069	.054	.078	.060	.047	.054	.042	.033	.031	.025	.020	.010	.008	.006	
6.0	.084	.061	.045	.072	.053	.039	.050	.037	.028	.029	.022	.017	.009	.007	.005	
7.0	.077	.055	.039	.067	.047	.034	.046	.033	.024	.027	.020	.014	.009	.006	.005	
8.0	.072	.049	.033	.062	.043	.029	.043	.030	.021	.025	.018	.012	.008	.006	.004	
9.0	.067	.045	.029	.058	.039	.025	.040	.027	.018	.023	.016	.011	.008	.005	.004	
10.0	.063	.041	.025	.055	.035	.022	.038	.025	.016	.022	.015	.009	.007	.005	.003	

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DRIVER:9290 028 088 350mA
30minutes warm-up

UGR(Unified Glare Rating) Table

Test:U:220.00V I:0.0398A P:8.2509W PF:0.9380 Freq:49.99Hz Lamp Flux:685.66x1 lm										
NAME: 2218.511-ACOT-96					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 2308070989		
MFR.: RISE					SUR.: 0.001589625m2			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	10.8	11.4	11.0	11.6	11.7	10.7	11.4	10.9	11.5	11.7
3H	11.9	12.5	12.1	12.7	12.9	11.9	12.5	12.2	12.7	12.9
4H	12.4	13.0	12.7	13.2	13.4	12.5	13.0	12.7	13.2	13.5
6H	12.7	13.2	13.0	13.5	13.7	12.8	13.3	13.0	13.5	13.8
8H	12.7	13.3	13.0	13.5	13.8	12.8	13.3	13.1	13.6	13.8
12H	12.7	13.2	13.0	13.5	13.7	12.8	13.3	13.1	13.6	13.8
4H 2H	11.2	11.7	11.4	11.9	12.1	11.1	11.7	11.4	11.9	12.1
3H	12.6	13.1	12.9	13.3	13.6	12.6	13.1	12.9	13.4	13.6
4H	13.2	13.6	13.5	13.9	14.2	13.2	13.7	13.6	14.0	14.3
6H	13.6	14.0	13.9	14.3	14.6	13.6	14.0	14.0	14.4	14.7
8H	13.6	14.0	14.0	14.3	14.7	13.7	14.1	14.1	14.4	14.8
12H	13.6	13.9	14.0	14.3	14.7	13.7	14.0	14.1	14.4	14.8
8H 4H	13.4	13.8	13.8	14.1	14.5	13.4	13.8	13.8	14.2	14.5
6H	13.8	14.2	14.3	14.6	15.0	13.9	14.2	14.3	14.6	15.0
8H	13.9	14.2	14.4	14.6	15.1	14.0	14.3	14.4	14.7	15.1
12H	13.9	14.1	14.4	14.6	15.1	14.0	14.2	14.4	14.7	15.1
12H 4H	13.4	13.7	13.8	14.1	14.5	13.4	13.8	13.8	14.1	14.5
6H	13.8	14.1	14.3	14.5	15.0	13.9	14.2	14.3	14.6	15.0
8H	13.9	14.2	14.4	14.6	15.1	14.0	14.2	14.5	14.7	15.2
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.5 / - 0.6					+ 0.5 / - 0.6				
1.5H	+ 1.2 / - 0.6					+ 1.1 / - 0.6				
2.0H	+ 0.4 / - 0.3					+ 0.5 / - 0.3				

CIE Pub.117, 685.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.3)
Area: 0.00158963 m2

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UTILIZATION FACTORS TABLE

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MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

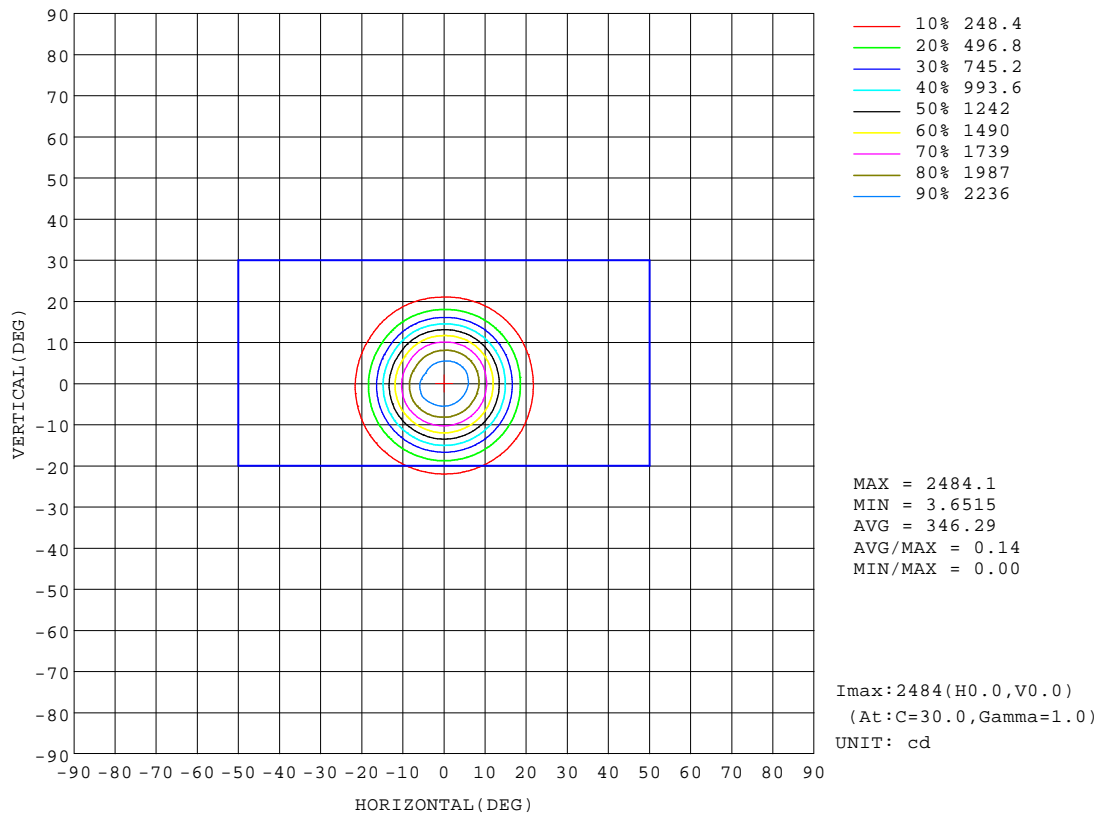
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	73	68	65	73	68	65	72	68	65	63
0.80	79	74	72	78	74	71	77	74	71	68
1.00	82	78	75	81	77	75	80	77	74	71
1.25	85	81	78	84	80	78	82	80	77	74
1.50	87	83	81	86	83	80	84	81	79	76
2.00	89	86	83	88	85	82	85	83	81	77
2.50	90	87	85	89	86	84	86	84	83	78
3.00	91	89	86	90	87	86	87	85	84	79
4.00	93	91	89	91	89	88	88	87	86	80
5.00	94	92	91	92	91	89	89	88	87	81
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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SPEC.: 3000K	DIM.:	SERIAL No.: 2308070989
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

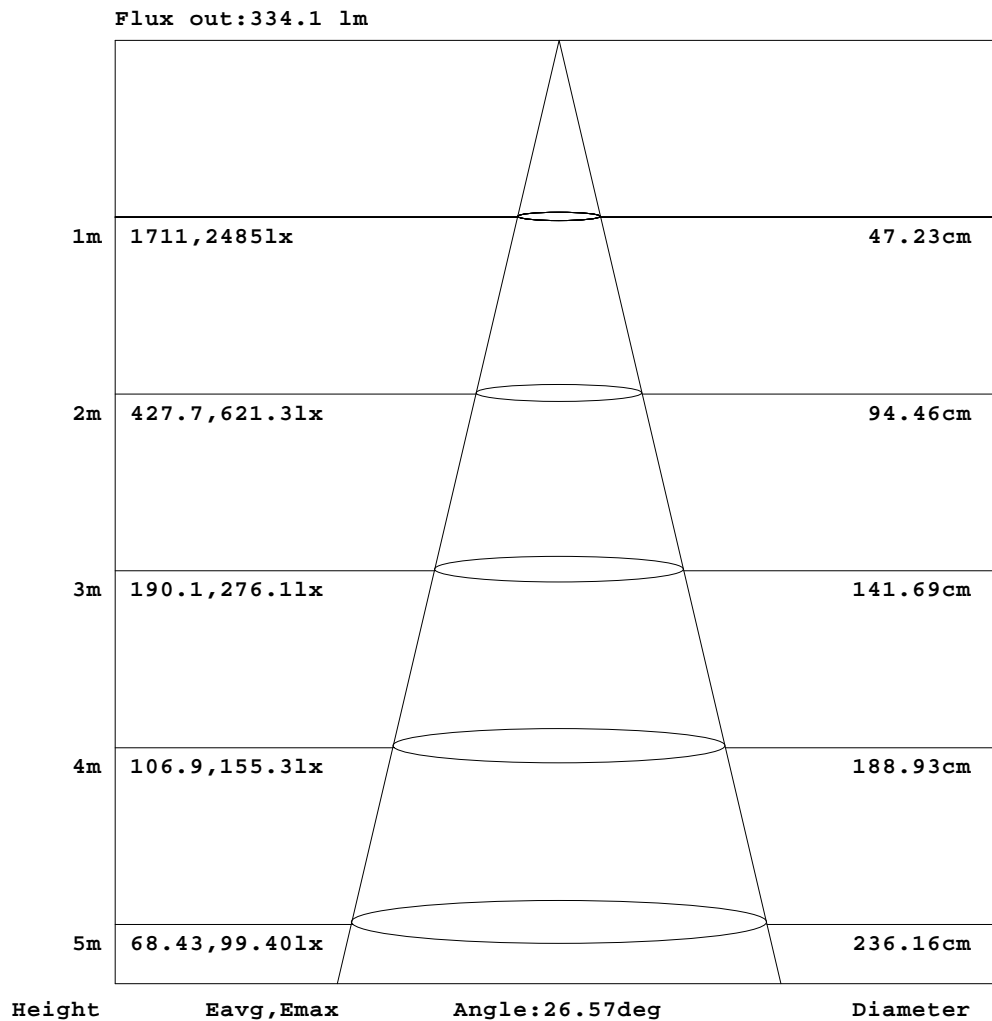


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AAI Figure

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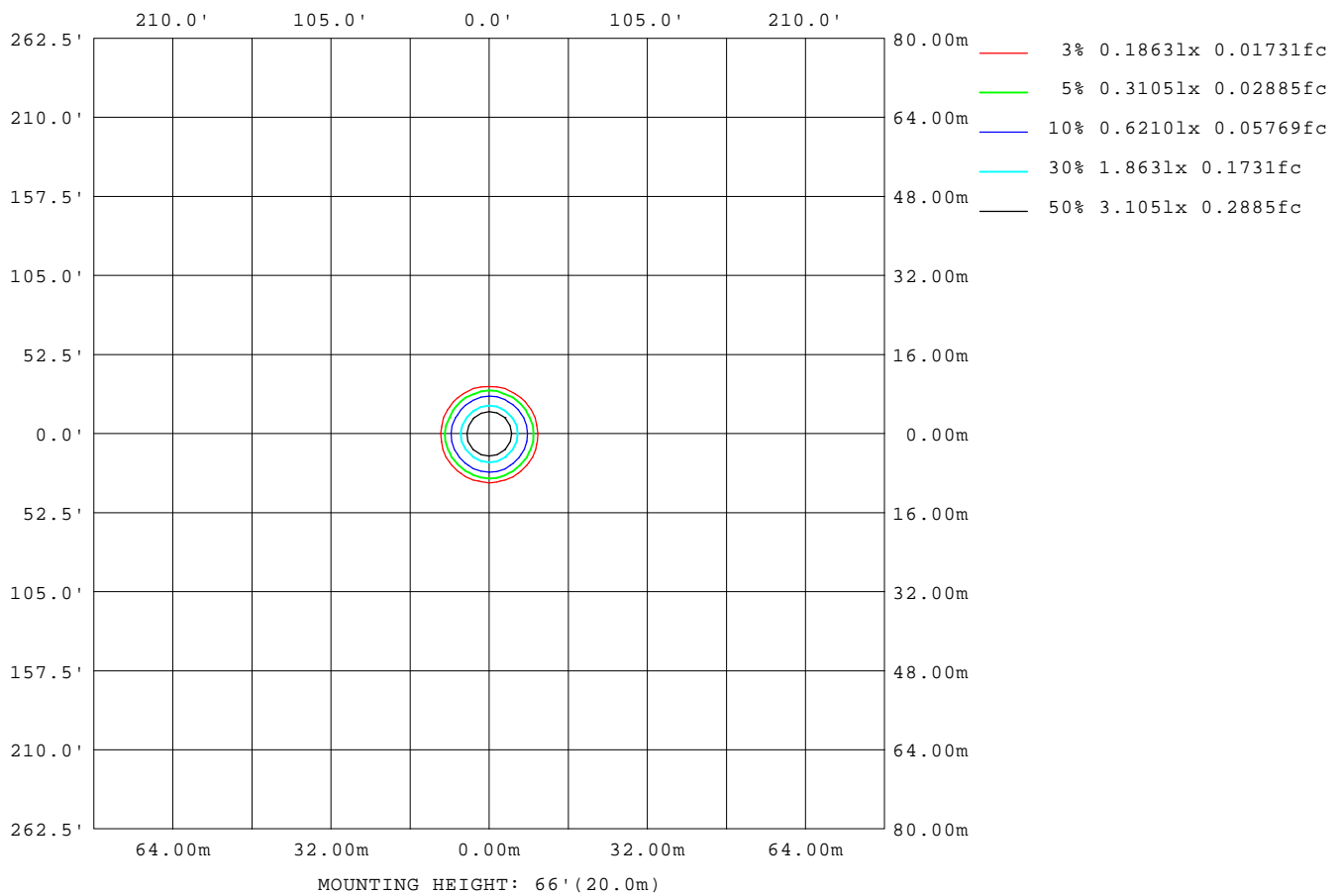
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

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MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:



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Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-8-7

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:CXB1304-0000-000F0UA430G Ra:90
LENS: PM-1084A 24R
DRIVER:9290 028 088 350mA
30minutes warm-up

LED Avg.L Report

Test:U:220.00V I:0.0398A P:8.2509W PF:0.9380 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2218.511-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308070989
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

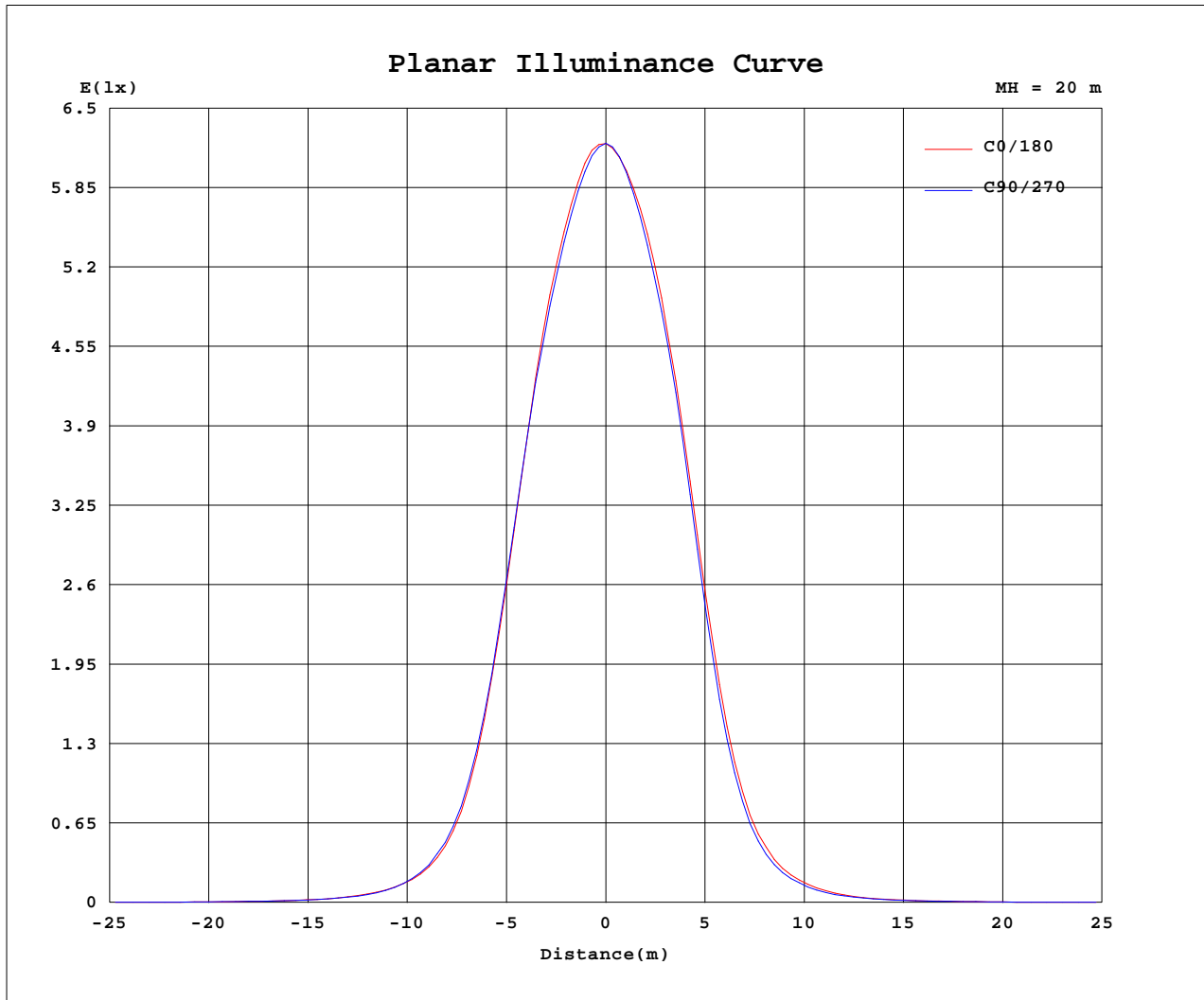
AvgL	cd/m2
L_0~180(65)av	4506
L_0~180(75)av	4104
L_0~180(85)av	829
L_90~270(65)av	4555
L_90~270(75)av	4080
L_90~270(85)av	838
L_45(65)av	4531
L_45(75)av	4080
L_45(85)av	766

Standard: GB/T 29293-2012

C Range: 0 - 360DEG
C Interval: 30.0DEG
Test Speed: HIGH
Temperature:25.3℃
Operators:zoe
Test Date:2023-8-7

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:CXB1304-0000-000F0UA430G Ra:90
LENS: PM-1084A 24R
DRIVER:9290 028 088 350mA
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: 2023-8-7

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: CXB1304-0000-000F0UA430G Ra:90
 LENS: PM-1084A 24R
 DRIVER: 9290 028 088 350mA
 30minutes warm-up

LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.00V I:0.0398A P:8.2509W PF:0.9380 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2218.511-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 2308070989
MFR.: RISE	SUR.: 0.001589625m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484	2484						
5	2309	2286	2273	2274	2284	2317	2296	2244	2259	2269	2299	2320						
10	1797	1791	1776	1782	1793	1809	1788	1727	1751	1748	1783	1797						
15	983	999	1001	1003	989	987	960	904	909	907	943	967						
20	362	379	381	382	374	365	344	313	314	311	329	348						
25	126	132	133	132	128	128	122	113	110	106	110	119						
30	52.2	54.3	53.1	50.0	48.3	49.8	48.2	45.8	44.1	41.1	42.5	48.2						
35	23.2	24.0	23.8	22.6	21.8	21.7	20.5	19.6	19.7	19.0	20.2	21.9						
40	12.4	12.7	12.8	12.5	12.2	11.8	11.1	10.6	10.6	10.7	11.3	11.8						
45	7.02	7.22	7.30	7.32	7.06	6.73	6.36	6.10	6.12	6.35	6.65	6.78						
50	4.93	5.03	5.05	5.05	5.05	4.92	4.71	4.55	4.53	4.64	4.81	4.84						
55	4.01	4.06	4.11	4.08	4.12	4.00	3.86	3.74	3.73	3.82	3.90	3.95						
60	3.52	3.58	3.61	3.62	3.61	3.50	3.38	3.28	3.28	3.33	3.41	3.45						
65	3.10	3.16	3.18	3.19	3.15	3.06	2.95	2.89	2.89	2.93	2.99	3.05						
70	2.54	2.61	2.63	2.63	2.59	2.50	2.40	2.32	2.32	2.34	2.39	2.47						
75	1.74	1.79	1.80	1.79	1.75	1.70	1.64	1.56	1.55	1.57	1.61	1.68						
80	0.88	0.92	0.92	0.92	0.89	0.86	0.82	0.76	0.74	0.74	0.77	0.82						
85	0.12	0.15	0.15	0.16	0.14	0.12	0.11	0.07	0.07	0.07	0.07	0.09						
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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