

## Luminaire Photograph



Light Output Ratio:	80.6%	
Luminaire Power:	8.262 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: 2023-8-11

Range: 0 - 180DEG  
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-1084 15R  
DRIVER: 9290 028 088 350mA  
30minutes warm-up

## LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

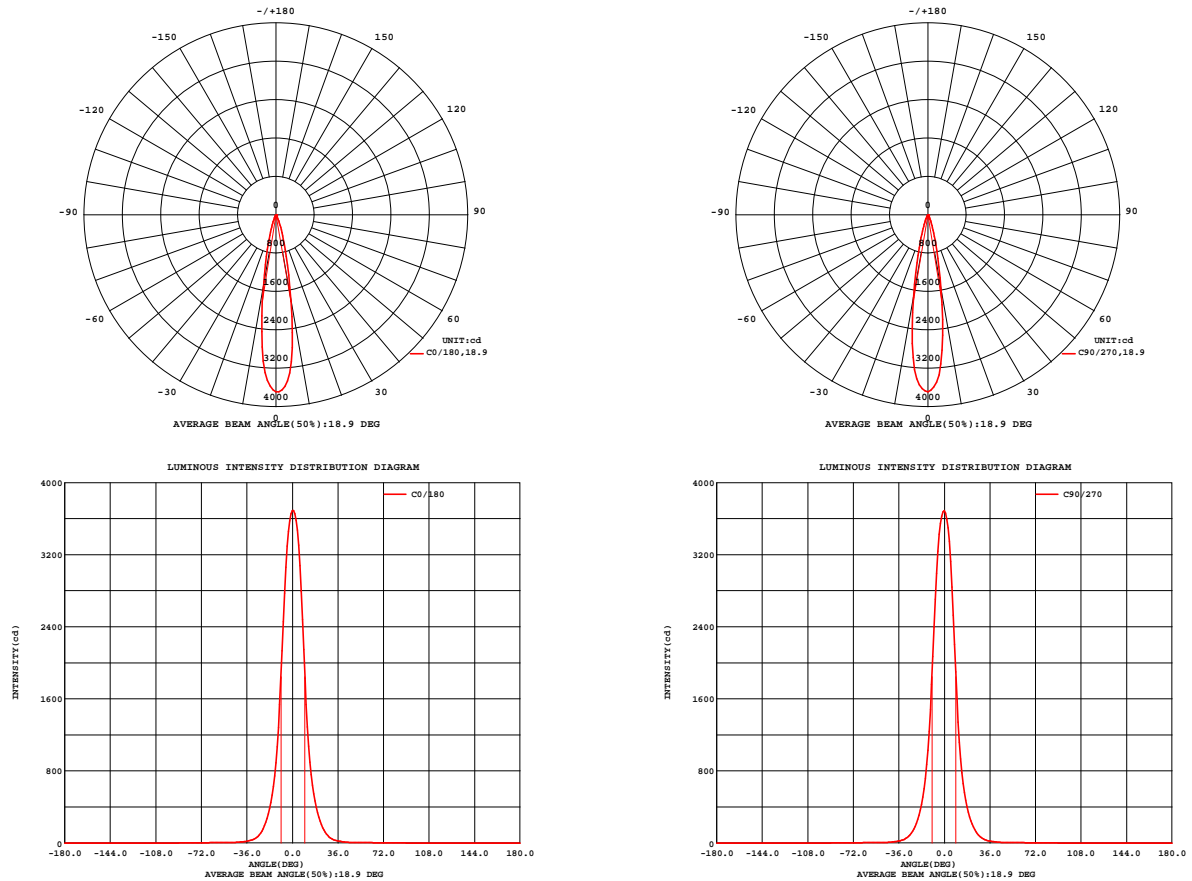


Fig. C0/C180

Fig. C90/C270

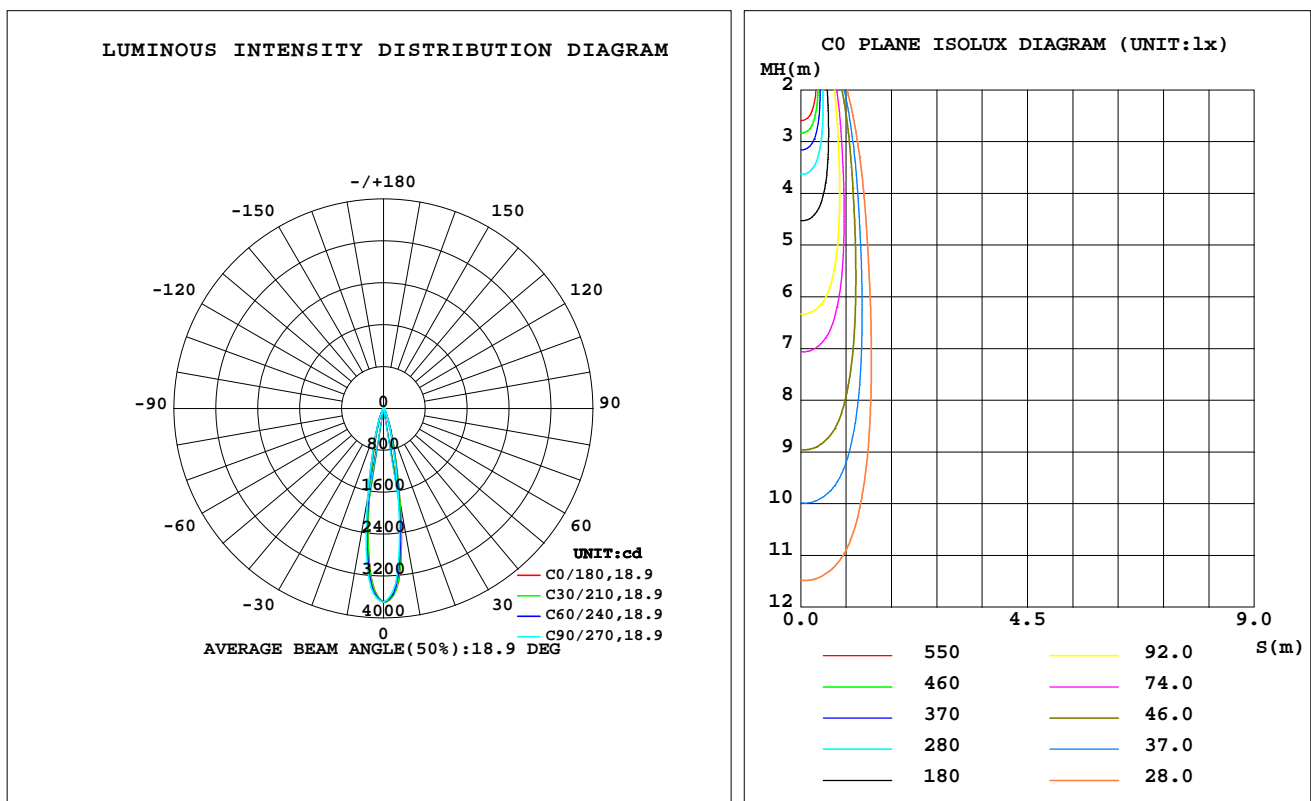
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
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Temperature: 25.3 °C  
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30minutes warm-up

## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.17V I:0.0398A P:8.2623W PF:0.9393 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2214.412-1-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 230811003
MFR.: RISE	SUR.: 0.000854865m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 66.89 lm/W
MODEL	CREE	I <sub>max</sub> (cd)	3689	S/MH(C0/180)	0.31	
NOMINAL POWER(W)	8	LOR(%)	80.6	S/MH(C90/270)	0.33	
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	552.70	UP,DN(C0-180)	0.0,40.2	
NOMINAL FLUX(lm)	685.66	CIE CLASS	DIRECT	UP,DN(C180-360)	0.0,40.4	
LAMPS INSIDE	1	up(%)	0.0	CIBSE SHR NOM	0.00	
TEST VOLTAGE(V)	220	down(%)	80.6	CIBSE SHR MAX	0.30	



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## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

	C0	C45	C90	C135	C180	C225	C270	C315		zone	total	%lum,lamp
10	1828	1753	1598	1528	1535	1626	1759	1827	0- 10	252.0	252.0	45.6,36.8
20	336.4	328.2	290.9	272.7	272.7	287.6	307.6	323.4	10- 20	205.0	457.0	82.7,66.7
30	56.04	57.12	51.94	47.04	44.12	48.60	53.55	54.40	20- 30	63.26	520.3	94.1,75.9
40	14.02	13.97	12.77	12.39	12.27	12.68	13.28	13.66	30- 40	16.66	536.9	97.1,78.3
50	4.840	4.853	4.792	4.910	4.979	4.904	4.850	4.781	40- 50	5.710	542.6	98.2,79.1
60	3.864	3.845	3.812	3.947	4.042	3.975	3.894	3.846	50- 60	3.880	546.5	98.9,79.7
70	2.863	2.815	2.807	2.891	2.963	2.975	2.971	2.907	60- 70	3.434	549.9	99.5,80.2
80	1.285	1.290	1.231	1.323	1.347	1.407	1.382	1.383	70- 80	2.257	552.2	99.9,80.5
90	0	0	0	0	0	0	0	0	80- 90	0.4968	552.7	100,80.6
100	0	0	0	0	0	0	0	0	90-100	0	552.7	100,80.6
110	0	0	0	0	0	0	0	0	100-110	0	552.7	100,80.6
120	0	0	0	0	0	0	0	0	110-120	0	552.7	100,80.6
130	0	0	0	0	0	0	0	0	120-130	0	552.7	100,80.6
140	0	0	0	0	0	0	0	0	130-140	0	552.7	100,80.6
150	0	0	0	0	0	0	0	0	140-150	0	552.7	100,80.6
160	0	0	0	0	0	0	0	0	150-160	0	552.7	100,80.6
170	0	0	0	0	0	0	0	0	160-170	0	552.7	100,80.6
180	0	0	0	0	0	0	0	0	170-180	0	552.7	100,80.6
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

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Interval: 1.0DEG  
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Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
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LENS: PM-1084 15R  
DRIVER: 9290 028 088 350mA  
30minutes warm-up

### LUMINANCE LIMITATION CURVES

Test:U:220.17V I:0.0398A P:8.2623W PF:0.9393 Freq:49.99Hz  
Lamp Flux:685.66x1 lm

NAME: 2214.412-1-ACOT-96

TYPE:

WEIGHT:

SPEC.: 3000K

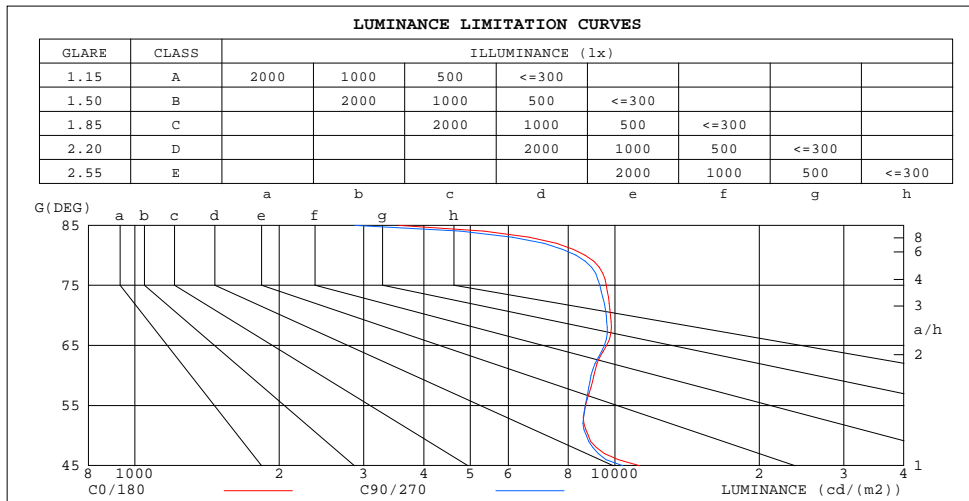
DIM.:

SERIAL No.: 230811003

MFR.: RISE

SUR.: 0.000854865m2

Shielding Angle:



LUMINANCE cd/(m2)		
G(180)	G(270)	
85	3542	2868
80	8657	8297
75	9598	9306
70	9791	9601
65	9609	9516
60	9039	8921
55	8690	8676
50	8808	8722
45	11264	10393

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## CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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TYPE:

WEIGHT:

SPEC.: 3000K

DIM.:

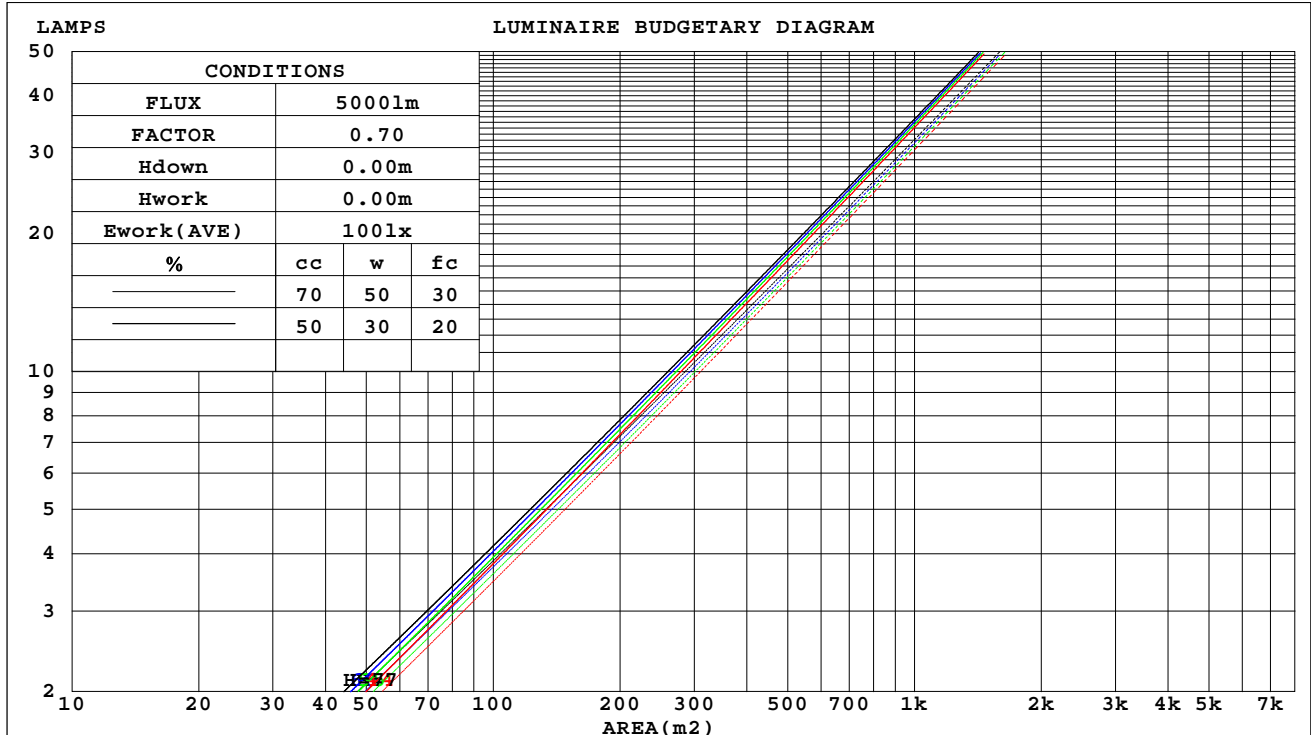
SERIAL No.: 230811003

MFR.: RISE

SUR.: 0.000854865m2

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															



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### WEC AND CCEC

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SPEC.: 3000K	DIM.:	SERIAL No.: 230811003
MFR.: RISE	SUR.: 0.000854865m2	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	.109	.062	.020	.103	.059	.019	.093	.054	.017	.084	.049	.016	.076	.044	.014	
2.0	.100	.055	.017	.096	.053	.016	.087	.049	.015	.080	.045	.014	.073	.041	.013	
3.0	.092	.049	.015	.089	.048	.014	.082	.044	.014	.076	.041	.013	.070	.039	.012	
4.0	.086	.045	.013	.083	.043	.013	.077	.041	.012	.072	.039	.012	.067	.036	.011	
5.0	.080	.041	.012	.078	.040	.012	.073	.038	.011	.068	.036	.011	.064	.034	.010	
6.0	.076	.038	.011	.073	.037	.011	.069	.035	.010	.065	.034	.010	.062	.032	.010	
7.0	.071	.035	.010	.070	.035	.010	.066	.033	.010	.063	.032	.009	.059	.031	.009	
8.0	.068	.033	.009	.066	.033	.009	.063	.031	.009	.060	.030	.009	.057	.029	.009	
9.0	.064	.031	.009	.063	.031	.009	.060	.030	.008	.058	.029	.008	.055	.028	.008	
10.0	.061	.029	.008	.060	.029	.008	.058	.028	.008	.055	.028	.008	.053	.027	.008	

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	.154	.154	.154	.131	.131	.131	.090	.090	.090	.051	.051	.051	.016	.016	.016		
1.0	.136	.127	.119	.116	.109	.103	.079	.075	.071	.046	.043	.041	.015	.014	.013		
2.0	.121	.107	.095	.103	.092	.082	.071	.064	.057	.041	.037	.034	.013	.012	.011		
3.0	.108	.091	.078	.093	.079	.067	.064	.055	.047	.037	.032	.028	.012	.010	.009		
4.0	.098	.079	.064	.084	.068	.056	.058	.047	.039	.033	.028	.023	.011	.009	.008		
5.0	.089	.069	.054	.077	.060	.047	.053	.042	.033	.031	.024	.020	.010	.008	.006		
6.0	.082	.061	.045	.070	.053	.040	.049	.037	.028	.028	.022	.017	.009	.007	.005		
7.0	.076	.054	.039	.065	.047	.034	.045	.033	.024	.026	.019	.014	.008	.006	.005		
8.0	.070	.048	.034	.060	.042	.029	.042	.030	.021	.024	.017	.012	.008	.006	.004		
9.0	.065	.044	.029	.056	.038	.026	.039	.027	.018	.023	.016	.011	.007	.005	.004		
10.0	.061	.040	.026	.053	.035	.022	.037	.024	.016	.021	.014	.010	.007	.005	.003		

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Humidity:65.0%  
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30minutes warm-up

## UGR(Unified Glare Rating) Table

Test:U:220.17V I:0.0398A P:8.2623W PF:0.9393 Freq:49.99Hz Lamp Flux:685.66x1 lm										
NAME: 2214.412-1-ACOT-96					TYPE:			WEIGHT:		
SPEC.: 3000K					DIM.:			SERIAL No.: 230811003		
MFR.: RISE					SUR.: 0.000854865m2			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	13.4	14.0	13.6	14.2	14.3	13.2	13.9	13.4	14.0	14.1
3H	14.7	15.2	14.9	15.4	15.6	14.5	15.1	14.7	15.2	15.4
4H	15.3	15.8	15.5	16.0	16.2	15.1	15.6	15.3	15.8	16.0
6H	15.7	16.2	16.0	16.5	16.7	15.5	16.1	15.8	16.3	16.5
8H	15.8	16.4	16.1	16.6	16.8	15.7	16.2	15.9	16.4	16.7
12H	15.9	16.4	16.2	16.6	16.9	15.7	16.2	16.0	16.4	16.7
4H 2H	13.8	14.4	14.1	14.6	14.8	13.7	14.2	13.9	14.4	14.6
3H	15.3	15.8	15.6	16.1	16.3	15.2	15.7	15.5	15.9	16.2
4H	16.0	16.5	16.4	16.8	17.1	15.9	16.3	16.2	16.6	16.9
6H	16.6	17.0	17.0	17.4	17.7	16.5	16.9	16.8	17.2	17.5
8H	16.8	17.2	17.2	17.5	17.9	16.6	17.0	17.0	17.4	17.7
12H	16.8	17.2	17.2	17.5	17.9	16.6	17.0	17.0	17.4	17.7
8H 4H	16.3	16.7	16.7	17.0	17.4	16.2	16.5	16.5	16.9	17.2
6H	17.0	17.3	17.4	17.7	18.1	16.9	17.2	17.3	17.6	18.0
8H	17.2	17.5	17.7	17.9	18.4	17.1	17.4	17.5	17.8	18.2
12H	17.3	17.5	17.8	18.0	18.4	17.1	17.4	17.6	17.8	18.3
12H 4H	16.3	16.6	16.7	17.0	17.4	16.2	16.5	16.6	16.9	17.3
6H	17.1	17.3	17.5	17.7	18.2	16.9	17.2	17.4	17.6	18.0
8H	17.3	17.5	17.8	18.0	18.5	17.1	17.4	17.6	17.8	18.3
Variations with the observer position at spacings(CIE Pub.117):										
S = 1.0H	+ 0.5 / - 0.5					+ 0.4 / - 0.5				
1.5H	+ 1.2 / - 0.5					+ 1.1 / - 0.5				
2.0H	+ 0.1 / - 0.2					+ 0.1 / - 0.2				

CIE Pub.117, 685.7 lm Total Lamp Luminous Flux Correct (8log(F/F0) = -1.3)  
Area: 0.000854865 m2

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### UTILIZATION FACTORS TABLE

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NAME: 2214.412-1-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 230811003
MFR.: RISE	SUR.: 0.000854865m2	Shielding Angle:

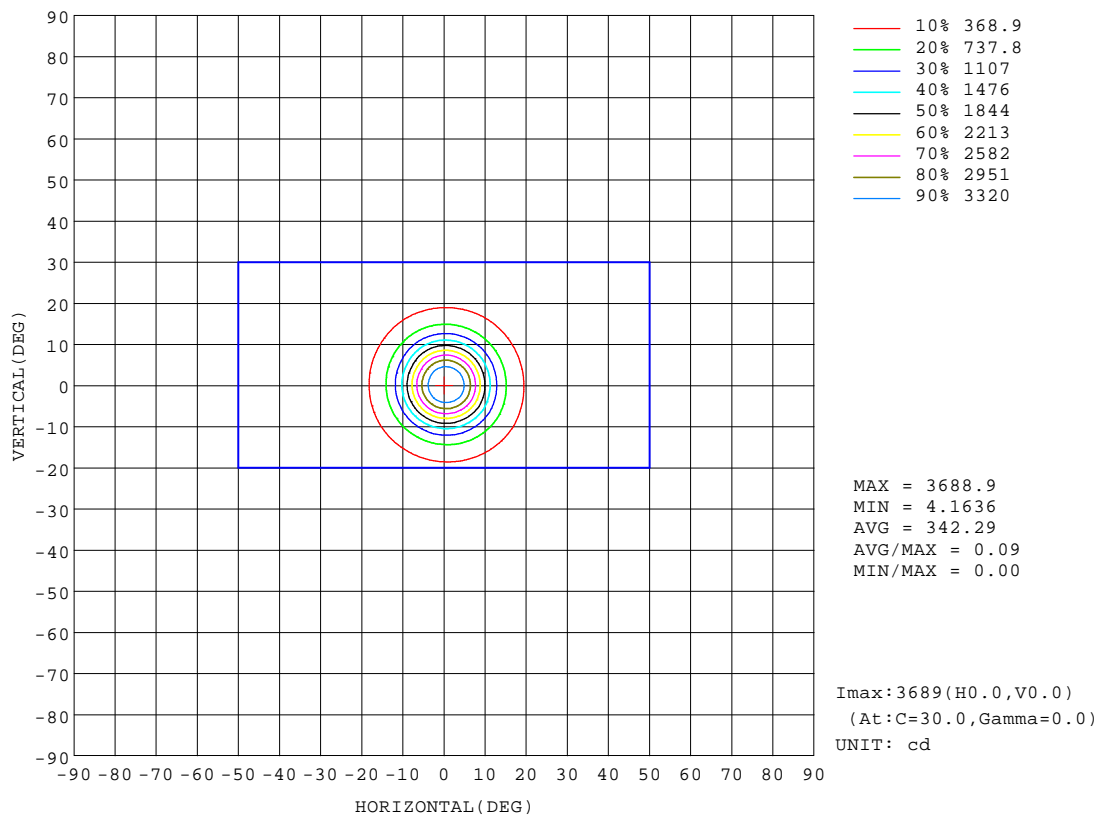
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	72	68	65	72	68	65	71	67	65	62
0.80	78	74	71	78	73	71	77	73	71	68
1.00	81	77	74	81	77	74	79	76	74	71
1.25	84	80	78	83	80	77	82	79	77	73
1.50	86	83	80	85	82	80	83	81	79	75
2.00	88	85	82	87	84	82	85	82	81	77
2.50	89	86	84	88	85	83	86	84	82	77
3.00	90	88	86	89	87	85	86	85	83	78
4.00	92	90	88	90	89	87	88	86	85	79
5.00	93	91	90	91	90	89	88	87	86	80
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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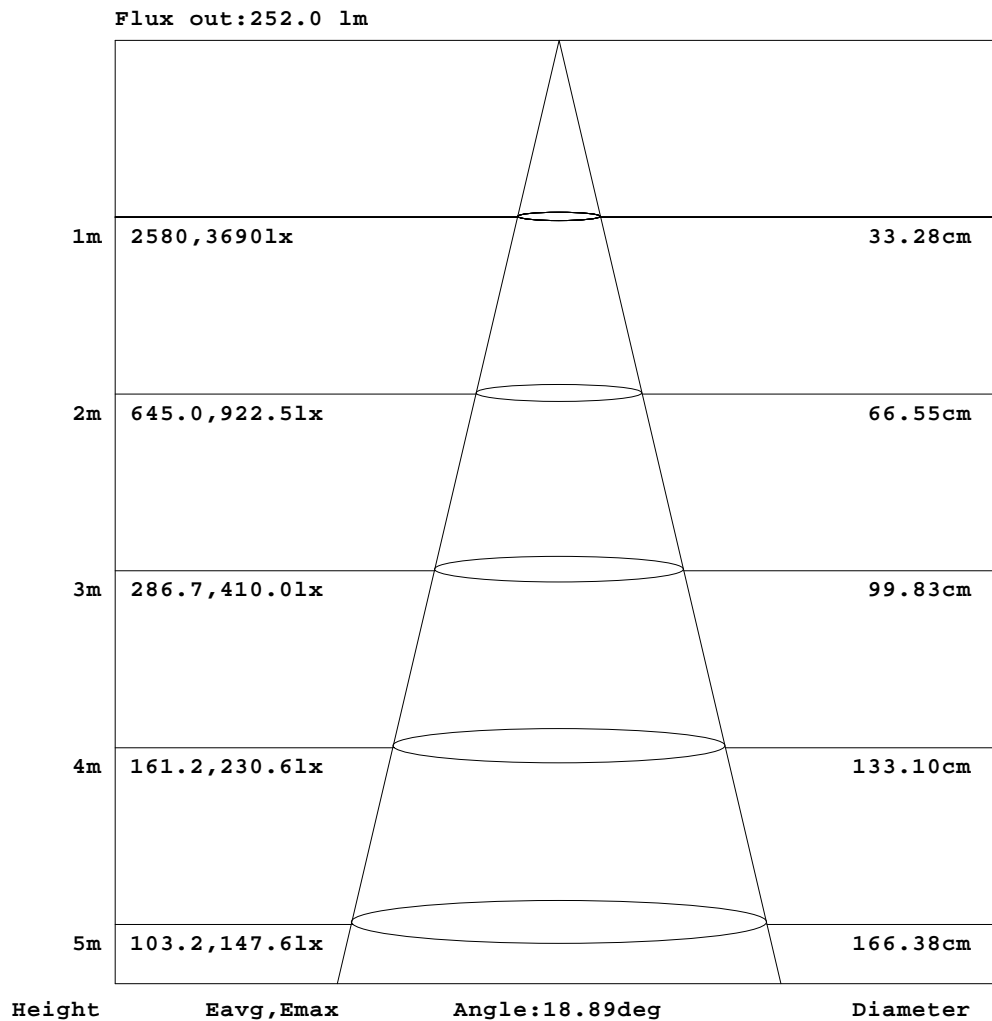


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## AAI Figure

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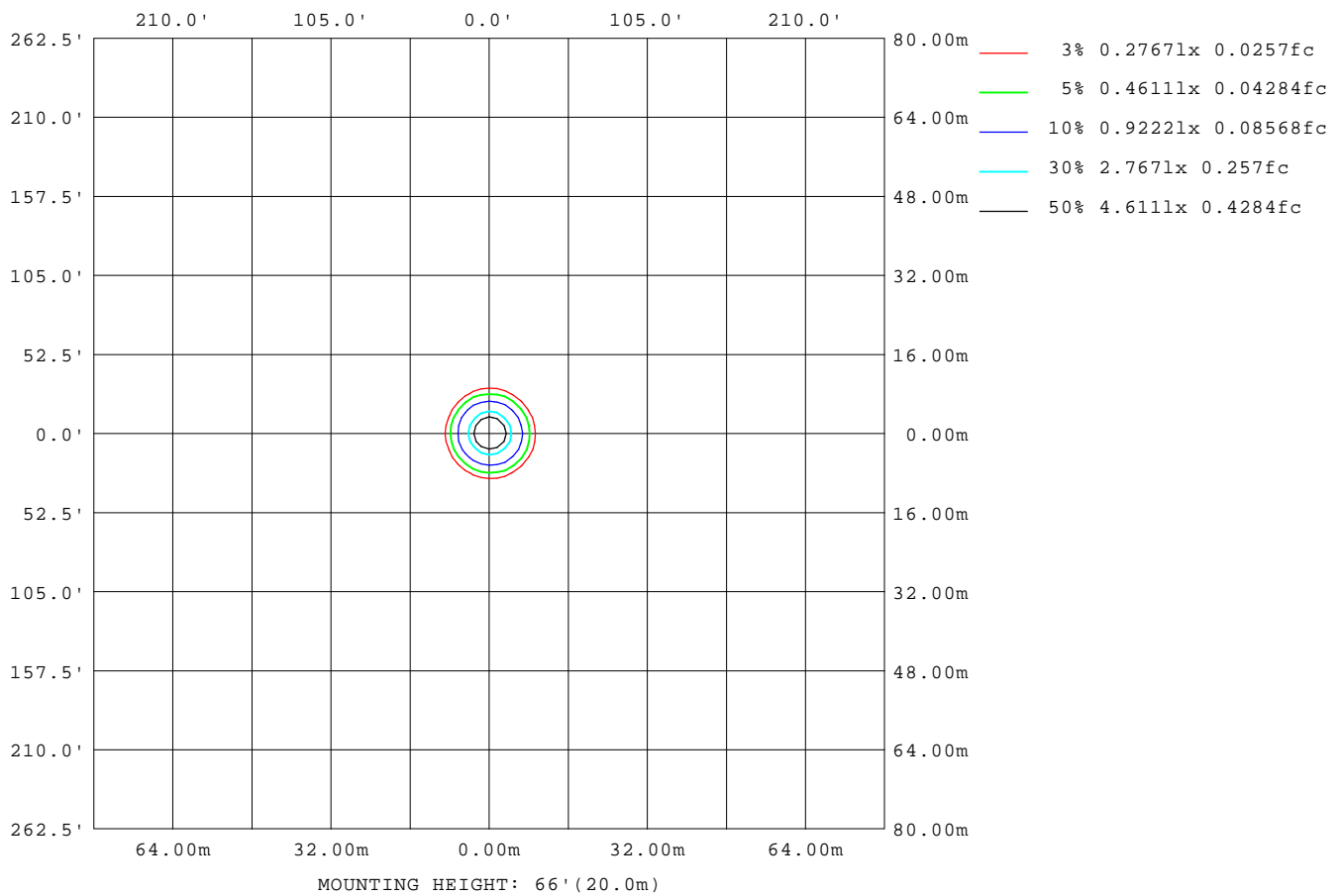
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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30minutes warm-up

## ISOLUX DIAGRAM

Test:U:220.17V I:0.0398A P:8.2623W PF:0.9393 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2214.412-1-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 230811003
MFR.: RISE	SUR.: 0.000854865m2	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-8-11

Range: 0 - 180DEG  
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-1084 15R  
DRIVER: 9290 028 088 350mA  
30minutes warm-up

## LED Avg.L Report

Test:U:220.17V I:0.0398A P:8.2623W PF:0.9393 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2214.412-1-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 230811003
MFR.: RISE	SUR.: 0.000854865m2	Shielding Angle:

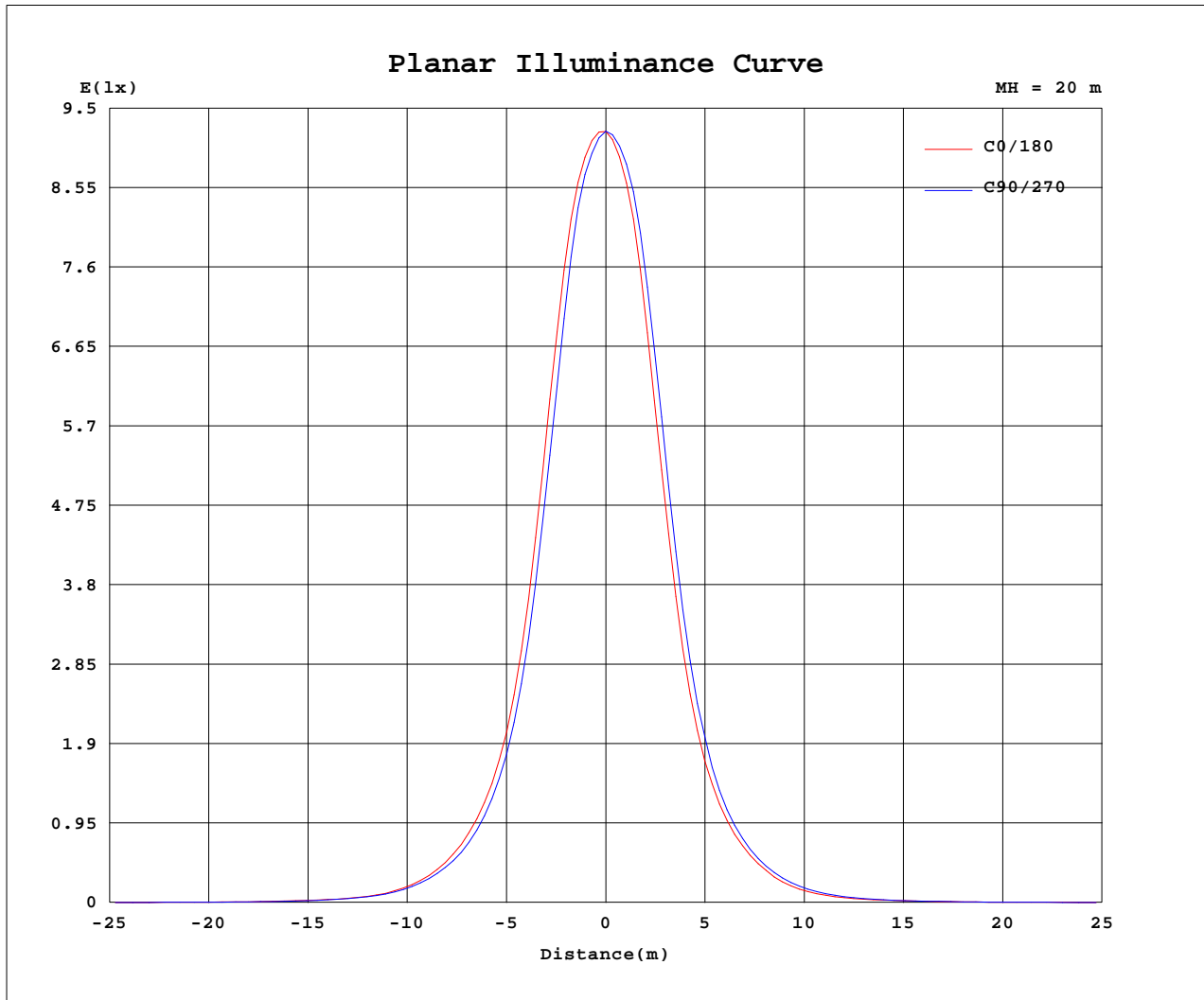
AvgL	cd/m2
L_0~180(65)av	9831
L_0~180(75)av	9724
L_0~180(85)av	3718
L_90~270(65)av	9647
L_90~270(75)av	9704
L_90~270(85)av	3552
L_45(65)av	9719
L_45(75)av	9696
L_45(85)av	4635

Standard: GB/T 29293-2012

C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-8-11

Range: 0 - 180DEG  
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-1084 15R  
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: 2023-8-11

Range: 0 - 180DEG  
 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-1084 15R  
 DRIVER: 9290 028 088 350mA  
 30minutes warm-up



## LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:220.17V I:0.0398A P:8.2623W PF:0.9393 Freq:49.99Hz Lamp Flux:685.66x1 lm		
NAME: 2214.412-1-ACOT-96	TYPE:	WEIGHT:
SPEC.: 3000K	DIM.:	SERIAL No.: 230811003
MFR.: RISE	SUR.: 0.000854865m2	Shielding Angle:

Table--1

UNIT: cd

C(DEG) (DEG)	0	30	60	90	120	150	180	210	240	270	300	330						
0	3689	3689	3689	3689	3689	3689	3689	3689	3689	3689	3689	3689						
5	3307	3291	3198	3123	3080	3051	3060	3080	3166	3240	3280	3305						
10	1828	1821	1684	1598	1536	1519	1535	1567	1684	1759	1820	1833						
15	757	759	709	659	626	621	629	644	690	717	737	745						
20	336	341	316	291	274	272	273	278	297	308	320	327						
25	143	146	137	127	117	111	108	112	124	130	135	138						
30	56.0	58.2	56.1	51.9	48.4	45.7	44.1	46.3	50.9	53.6	54.2	54.6						
35	26.5	27.6	26.5	24.7	23.4	22.7	22.1	22.8	24.0	24.8	25.4	25.9						
40	14.0	14.3	13.7	12.8	12.4	12.3	12.3	12.5	12.9	13.3	13.5	13.8						
45	6.81	6.78	6.47	6.28	6.35	6.42	6.52	6.55	6.66	6.77	6.76	6.83						
50	4.84	4.84	4.86	4.79	4.87	4.95	4.98	4.92	4.89	4.85	4.79	4.77						
55	4.26	4.27	4.30	4.25	4.33	4.44	4.47	4.40	4.34	4.28	4.25	4.24						
60	3.86	3.83	3.85	3.81	3.90	4.00	4.04	4.00	3.95	3.89	3.84	3.85						
65	3.47	3.44	3.41	3.44	3.51	3.59	3.63	3.61	3.58	3.53	3.48	3.47						
70	2.86	2.84	2.79	2.81	2.86	2.92	2.96	2.97	2.98	2.97	2.92	2.89						
75	2.12	2.09	2.05	2.06	2.10	2.15	2.18	2.20	2.23	2.24	2.19	2.16						
80	1.29	1.31	1.27	1.23	1.30	1.34	1.35	1.40	1.41	1.38	1.41	1.36						
85	0.26	0.33	0.28	0.21	0.30	0.34	0.29	0.37	0.39	0.32	0.37	0.33						
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  
Test Speed: HIGH  
Temperature:25.3℃  
Operators:zoe  
Test Date:2023-8-11

Range: 0 - 180DEG  
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