

Luminaire Photograph

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Light Output Ratio:	75.3%	
Luminaire Power:	5.212 W	
SHR Nominal:	0.00	Calculated using the TM5
SHR Maximum:	1.00	fine grid method.

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C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature: 25.3DEG  
Operators: zoe  
Test Date: 2019-05-02

g Range: 0 - 90DEG  
g Interval: 1.0DEG  
Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.0.402  
Humidity: 65.0%  
Test Distance: 3.160m [K=1.0000]  
Remarks: LAMP: WCSSRM2.CM-M3M5-XX37-1-700-R18  
Ra: 91.4 R9: 55  
DRIVER: AED08-700ILS 700mA  
REFLECTOR: PS-1092-120-226 15R  
30minutes warm-up

## LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

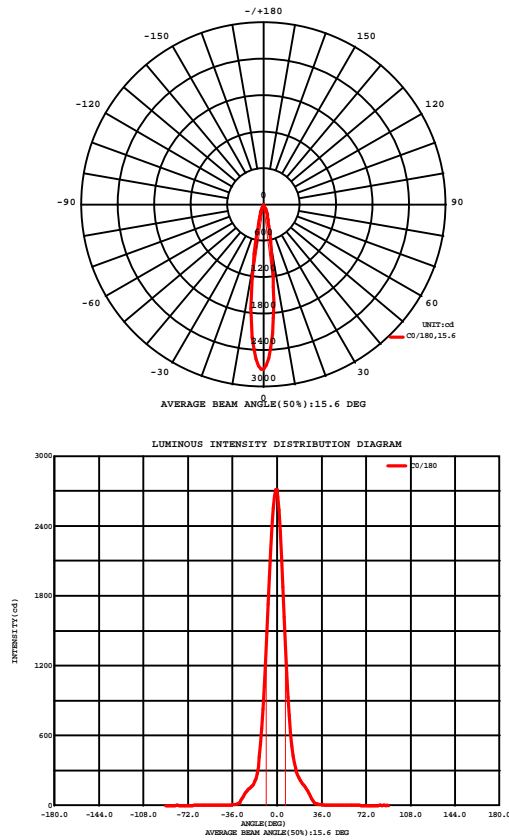


Fig. C0/C180

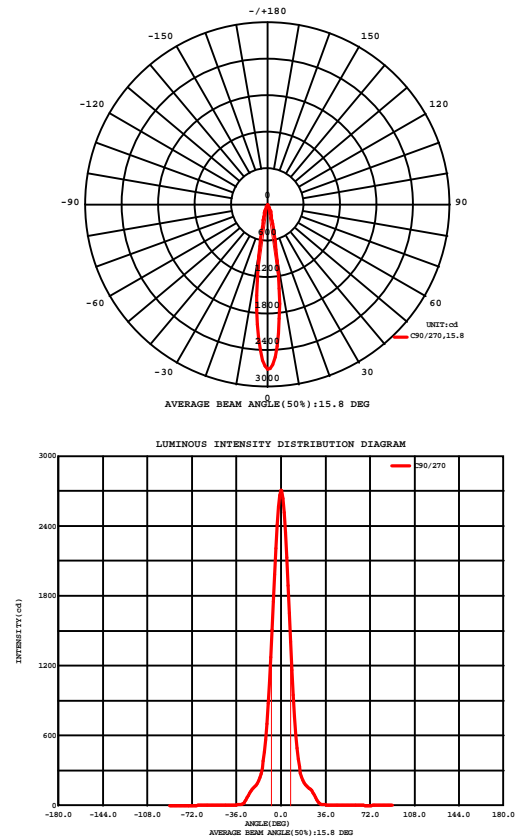


Fig. C90/C270

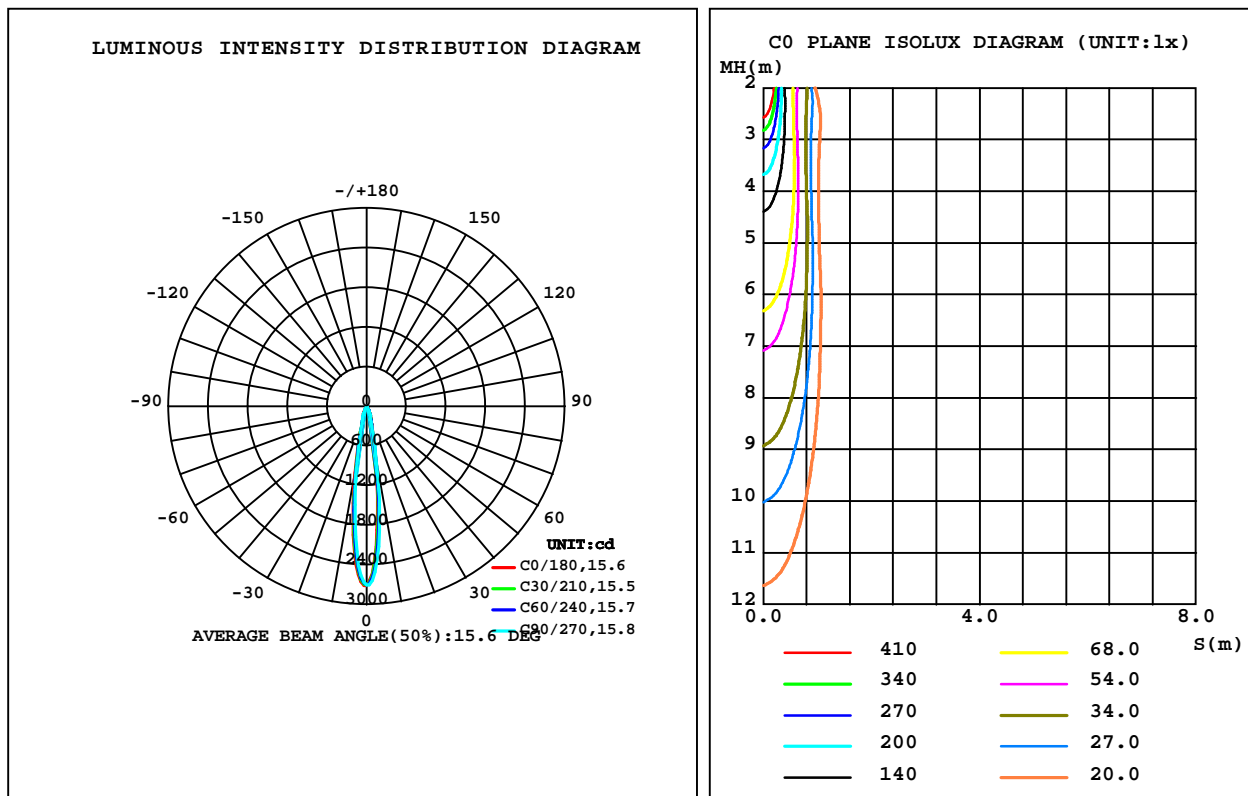
C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:zoe  
Test Date:2019-05-02

Range: 0 - 90DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.0.402  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:WCSRM2.CM-M3M5-XX37-1-700-R18  
Ra:91.4 R9:55  
DRIVER:AED08-700ILS 700mA  
REFLECTOR:PS-1092-120-226 15R  
30minutes warm-up

## LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.15V I:0.0738A P:5.2116W PF:0.5795 Freq:59.98Hz Lamp Flux:419.696x1 lm		
NAME: 1814-400-2-AM-15R	TYPE:	WEIGHT:
SPEC.:3072K	DIM.:	SERIAL No.:1905020897
MFR.: RISE	SUR.:0.00384m2	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 60.61 lm/W			
MODEL	OSRAM	I <sub>max</sub> (cd)	2715	S/MH(C0/180)	0.29
NOMINAL POWER(W)	4.4	LOR(%)	75.3	S/MH(C90/270)	0.26
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	315.88	h UP,DN(C0-180)	0.0,38.1
NOMINAL FLUX(lm)	419.696	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,37.1
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	0.00
TEST VOLTAGE(V)	120	h down(%)	75.3	CIBSE SHR MAX	1.00



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g Range: 0 - 90DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.0.402  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:WCSRM2.CM-M3M5-XX37-1-700-R18  
Ra:91.4 R9:55  
DRIVER:AED08-700ILS 700mA  
REFLECTOR:PS-1092-120-226 15R  
30minutes warm-up

## ZONAL FLUX DIAGRAM

### ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
10	770.8	830.4	947.0	1010	1020	947.9	876.7	804.8	0- 10	156.1	156.1	49.4,37.2
20	199.9	189.2	179.2	167.8	166.4	168.5	175.3	184.9	10- 20	102.5	258.6	81.9,61.6
30	26.53	30.61	31.30	29.25	24.97	23.42	18.50	24.68	20- 30	48.25	306.8	97.1,73.1
40	3.701	4.270	3.658	3.839	3.654	4.028	3.418	3.703	30- 40	5.653	312.5	98.9,74.4
50	1.331	1.569	1.689	1.846	1.288	1.690	1.450	1.640	40- 50	1.886	314.3	99.5,74.9
60	0.7265	0.8455	0.7517	0.8928	0.9257	0.9650	0.7134	0.8386	50- 60	1.113	315.5	99.9,75.2
70	0	0.0000	0	0.0341	0	0.0005	0	0.0002	60- 70	0.4217	315.9	100,75.3
80	0	0	0.0022	0.0006	0.0000	0	0	0	70- 80	0.0004	315.9	100,75.3
90	0	0	0.0079	0	0	0	0	0	80- 90	0.0006	315.9	100,75.3
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		

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 C Interval: 30.0DEG  
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 Temperature:25.3DEG  
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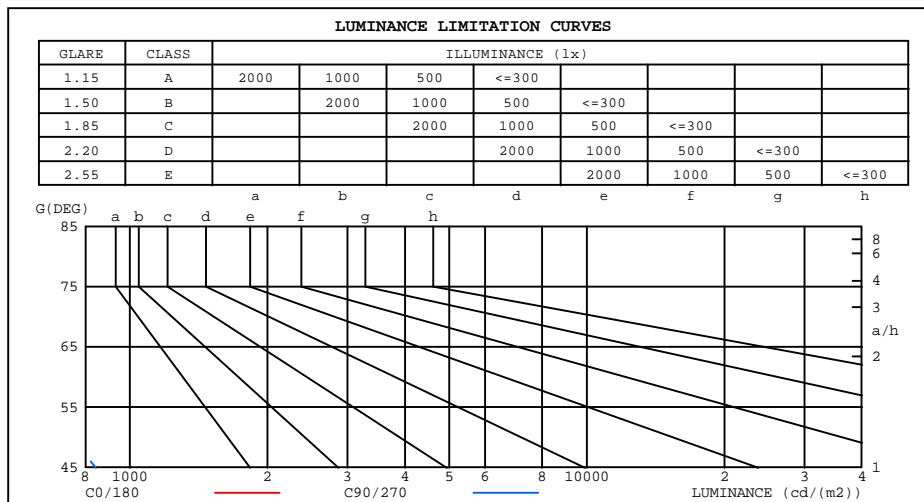
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 Ra:91.4 R9:55  
 DRIVER:AED08-700ILS 700mA  
 REFLECTOR:PS-1092-120-226 15R  
 30minutes warm-up



## RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

### LUMINANCE LIMITATION CURVES

Test:U:120.15V I:0.0738A P:5.2116W PF:0.5795 Freq:59.98Hz Lamp Flux:419.696x1 lm		
NAME: 1814-400-2-AM-15R	TYPE:	WEIGHT:
SPEC.:3072K	DIM.:	SERIAL No.:1905020897
MFR.: RISE	SUR.:0.00384m2	Shielding Angle:



LUMINANCE cd/(m2)		
G(DEG)	C0/180	C90/270
85	0	23
80	0	3
75	0	2
70	0	0
65	224	218
60	378	392
55	479	508
50	539	684
45	765	842

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G Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.0.402  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
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30minutes warm-up

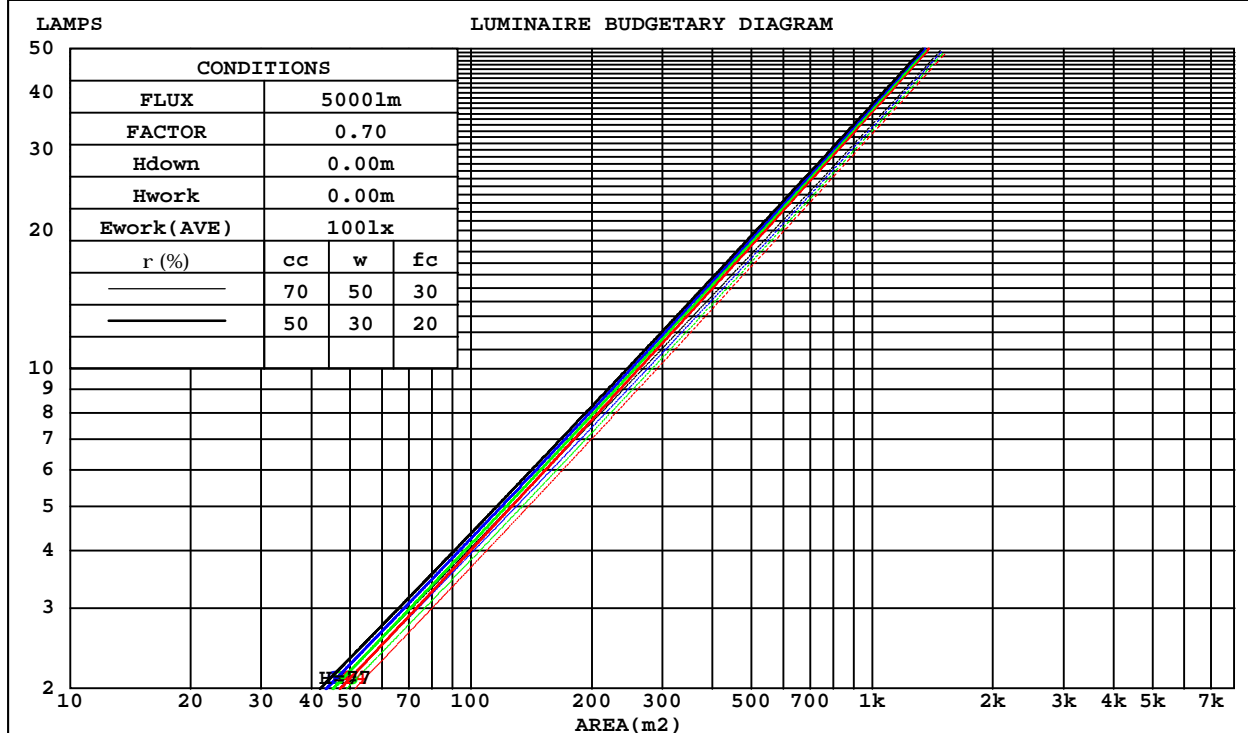


## RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

### CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

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SPEC.:3072K	DIM.:	SERIAL No.:1905020897
MFR.: RISE	SUR.:0.00384m2	Shielding Angle:

rcc	80%			70%			50%			30%			10%			0
r w	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
r fc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio                      Coefficients of Utilization(CU)															
0.0	.90	.90	.90	.88	.88	.88	.84	.84	.84	.80	.80	.80	.77	.77	.77	.75
1.0	.85	.84	.83	.84	.83	.82	.81	.80	.79	.78	.77	.77	.75	.75	.74	.73
2.0	.82	.80	.78	.81	.79	.77	.78	.77	.75	.76	.75	.74	.74	.73	.72	.71
3.0	.79	.76	.74	.78	.75	.74	.76	.74	.73	.74	.73	.71	.73	.71	.70	.69
4.0	.76	.73	.71	.75	.73	.71	.74	.72	.70	.72	.71	.69	.71	.70	.69	.68
5.0	.74	.71	.69	.73	.70	.69	.72	.70	.68	.71	.69	.67	.70	.68	.67	.66
6.0	.72	.69	.67	.71	.68	.66	.70	.68	.66	.69	.67	.66	.68	.67	.65	.65
7.0	.70	.67	.65	.69	.67	.65	.68	.66	.64	.68	.66	.64	.67	.65	.64	.63
8.0	.68	.65	.63	.68	.65	.63	.67	.65	.63	.66	.64	.63	.66	.64	.62	.62
9.0	.66	.64	.62	.66	.63	.62	.65	.63	.62	.65	.63	.61	.64	.63	.61	.61
10.0	.65	.62	.60	.65	.62	.60	.64	.62	.60	.64	.62	.60	.63	.61	.60	.59



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Interval: 1.0DEG  
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Humidity:65.0%  
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Ra:91.4 R9:55  
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REFLECTOR:PS-1092-120-226 15R  
30minutes warm-up



## RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

### WEC AND CCEC

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NAME: 1814-400-2-AM-15R	TYPE:	WEIGHT:
SPEC.:3072K	DIM.:	SERIAL No.:1905020897
MFR.: RISE	SUR.:0.00384m2	Shielding Angle:

rcc	80%			70%			50%			30%			10%			0														
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
rfc	20%			20%			20%			20%			20%			0														
RCR	RCR:Room Cavity Ratio															Wall Exitance Coefficients(WEC)														
0.0																														
1.0	.096	.055	.017	.091	.052	.016	.082	.047	.015	.073	.042	.014	.065	.038	.012															
2.0	.088	.048	.015	.084	.046	.014	.077	.043	.013	.070	.039	.012	.063	.036	.011															
3.0	.082	.043	.013	.078	.042	.013	.072	.039	.012	.066	.036	.011	.061	.034	.010															
4.0	.076	.040	.012	.073	.038	.011	.068	.036	.011	.063	.034	.010	.059	.032	.010															
5.0	.071	.036	.011	.069	.035	.010	.064	.034	.010	.060	.032	.009	.056	.030	.009															
6.0	.067	.034	.010	.065	.033	.009	.061	.031	.009	.058	.030	.009	.054	.029	.009															
7.0	.064	.031	.009	.062	.031	.009	.058	.030	.009	.055	.028	.008	.052	.027	.008															
8.0	.060	.029	.008	.059	.029	.008	.056	.028	.008	.053	.027	.008	.051	.026	.008															
9.0	.057	.028	.008	.056	.027	.008	.054	.027	.008	.051	.026	.007	.049	.025	.007															
10.0	.055	.026	.007	.054	.026	.007	.051	.025	.007	.049	.025	.007	.047	.024	.007															

rcc	80%			70%			50%			30%			10%			0
rw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
rfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Ceiling Cavity Exitance Coefficients(CCEC)									
0.0	.143	.143	.143	.123	.123	.123	.084	.084	.084	.048	.048	.048	.015	.015	.015	
1.0	.126	.119	.112	.108	.102	.096	.074	.070	.067	.043	.041	.039	.014	.013	.013	
2.0	.112	.100	.090	.096	.086	.078	.066	.060	.054	.038	.035	.032	.012	.011	.010	
3.0	.100	.085	.073	.086	.074	.063	.059	.051	.044	.034	.030	.026	.011	.010	.009	
4.0	.091	.074	.060	.078	.064	.053	.053	.044	.037	.031	.026	.022	.010	.008	.007	
5.0	.082	.064	.051	.071	.055	.044	.049	.039	.031	.028	.023	.018	.009	.007	.006	
6.0	.075	.056	.043	.065	.049	.037	.045	.034	.026	.026	.020	.016	.008	.007	.005	
7.0	.069	.050	.037	.060	.044	.032	.041	.031	.023	.024	.018	.014	.008	.006	.004	
8.0	.064	.045	.032	.055	.039	.028	.038	.027	.020	.022	.016	.012	.007	.005	.004	
9.0	.060	.041	.028	.052	.035	.024	.036	.025	.017	.021	.015	.010	.007	.005	.003	
10.0	.056	.037	.024	.048	.032	.021	.034	.023	.015	.020	.013	.009	.006	.004	.003	

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g Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.0.402  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:WCSRM2.CM-M3M5-XX37-1-700-R18  
Ra:91.4 R9:55  
DRIVER:AED08-700ILS 700mA  
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30minutes warm-up

## RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

### UGR(Unified Glare Rating) Table

Test:U:120.15V I:0.0738A P:5.2116W PF:0.5795 Freq:59.98Hz Lamp Flux:419.696x1 lm										
NAME: 1814-400-2-AM-15R					TYPE:			WEIGHT:		
SPEC.:3072K					DIM.:			SERIAL No.:1905020897		
MFR.: RISE					SUR.:0.00384m2			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	-0.0	0.6	0.2	0.7	0.9	0.1	0.7	0.3	0.8	0.9
3H	-0.1	0.5	0.2	0.6	0.8	0.0	0.5	0.2	0.7	0.9
4H	-0.2	0.4	0.1	0.6	0.8	-0.1	0.4	0.2	0.7	0.9
6H	-0.2	0.3	0.0	0.5	0.7	-0.2	0.3	0.1	0.6	0.8
8H	-0.3	0.2	0.0	0.4	0.7	-0.2	0.3	0.1	0.5	0.8
12H	-0.3	0.1	-0.0	0.4	0.7	-0.2	0.2	0.1	0.5	0.7
4H 2H	0.0	0.5	0.3	0.7	0.9	0.1	0.6	0.3	0.8	1.0
3H	-0.1	0.4	0.2	0.6	0.9	-0.0	0.4	0.3	0.7	1.0
4H	-0.2	0.2	0.2	0.5	0.8	-0.1	0.3	0.2	0.6	0.9
6H	-0.3	0.1	0.1	0.4	0.8	-0.2	0.2	0.1	0.5	0.8
8H	-0.3	0.0	0.0	0.4	0.7	-0.3	0.1	0.1	0.4	0.8
12H	-0.4	-0.1	0.0	0.3	0.7	-0.3	-0.0	0.1	0.4	0.7
8H 4H	-0.3	0.0	0.0	0.4	0.7	-0.3	0.1	0.1	0.4	0.8
6H	-0.5	-0.2	-0.0	0.2	0.6	-0.4	-0.1	0.0	0.3	0.7
8H	-0.5	-0.3	-0.1	0.2	0.6	-0.5	-0.2	-0.0	0.2	0.7
12H	-0.6	-0.4	-0.1	0.1	0.6	-0.5	-0.3	-0.1	0.1	0.6
12H 4H	-0.4	-0.1	0.0	0.3	0.7	-0.3	-0.0	0.1	0.4	0.7
6H	-0.5	-0.3	-0.1	0.2	0.6	-0.5	-0.2	-0.0	0.2	0.7
8H	-0.6	-0.4	-0.1	0.1	0.6	-0.5	-0.3	-0.1	0.1	0.6
Variations with the observer position at spacings:										
S = 1.0H	+ 1.8 / - 3.2					+ 1.7 / - 3.1				
1.5H	+ 3.1 / - 2.2					+ 2.4 / - 1.5				
2.0H	+ 2.0 / - 2.0					+ 2.4 / - 2.5				

CIE Pub.117, 419.7 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = -3.0)

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30minutes warm-up



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### UTILIZATION FACTORS TABLE

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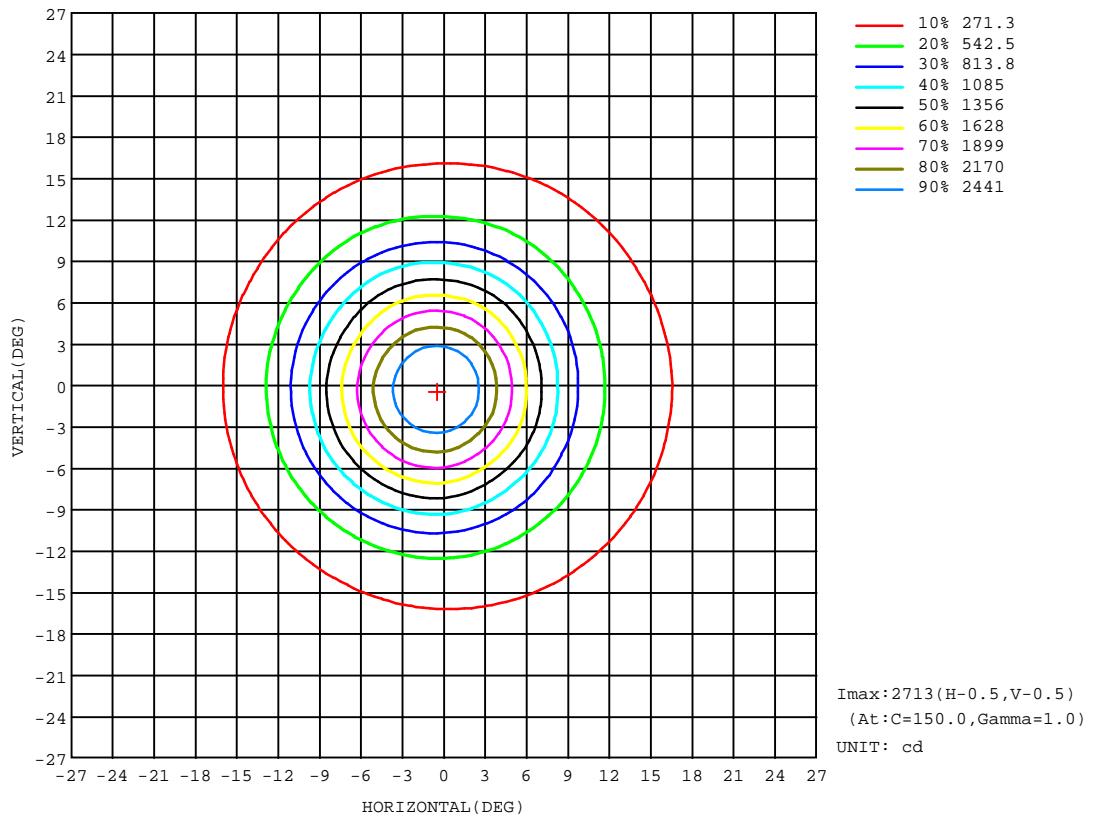
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) $k(RI) \times RCR = 5$									
k = 0.60	68	64	62	68	64	61	68	64	61	59
0.80	74	70	67	73	69	67	72	69	67	64
1.00	76	73	70	76	72	70	75	72	70	67
1.25	79	76	73	78	75	73	77	74	72	70
1.50	81	78	76	80	77	75	78	76	74	71
2.00	83	80	78	82	79	77	80	78	76	72
2.50	84	81	79	83	80	78	80	78	77	73
3.00	85	82	81	83	81	80	81	79	78	73
4.00	86	84	83	85	83	82	82	81	80	75
5.00	87	86	84	85	84	83	83	82	81	75
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004			Suspended					SHRNOM = 1.25		

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## ISOCANDELA DIAGRAM

Test:U:120.15V I:0.0738A P:5.2116W PF:0.5795 Freq:59.98Hz Lamp Flux:419.696x1 lm		
NAME: 1814-400-2-AM-15R	TYPE:	WEIGHT:
SPEC.:3072K	DIM.:	SERIAL No.:1905020897
MFR.: RISE	SUR.:0.00384m2	Shielding Angle:

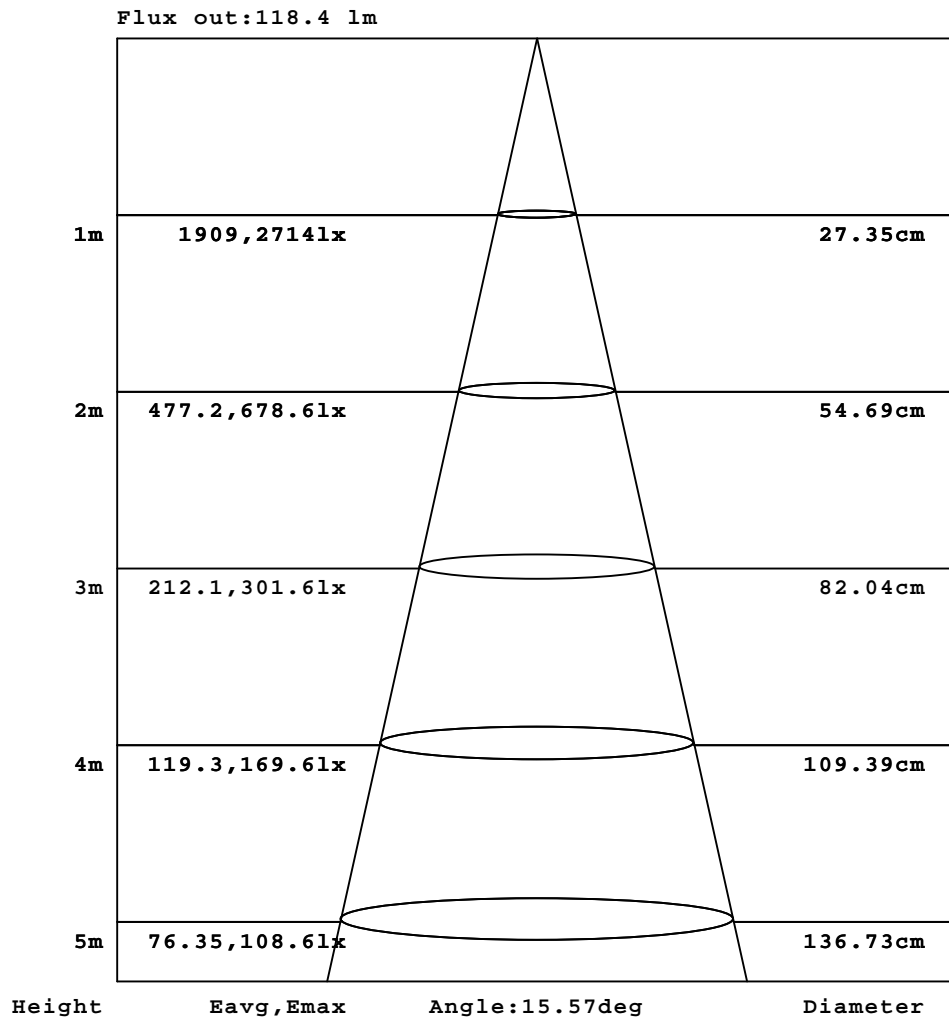


C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:zoe  
Test Date:2019-05-02

Range: 0 - 90DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.0.402  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:WCS SRM2.CM-M3M5-XX37-1-700-R18  
Ra:91.4 R9:55  
DRIVER:AED08-700ILS 700mA  
REFLECTOR:PS-1092-120-226 15R  
30minutes warm-up

### AAI Figure

Test:U:120.15V I:0.0738A P:5.2116W PF:0.5795 Freq:59.98Hz Lamp Flux:419.696x1 lm		
NAME: 1814-400-2-AM-15R	TYPE:	WEIGHT:
SPEC.:3072K	DIM.:	SERIAL No.:1905020897
MFR.: RISE	SUR.:0.00384m2	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: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:zoe  
Test Date:2019-05-02

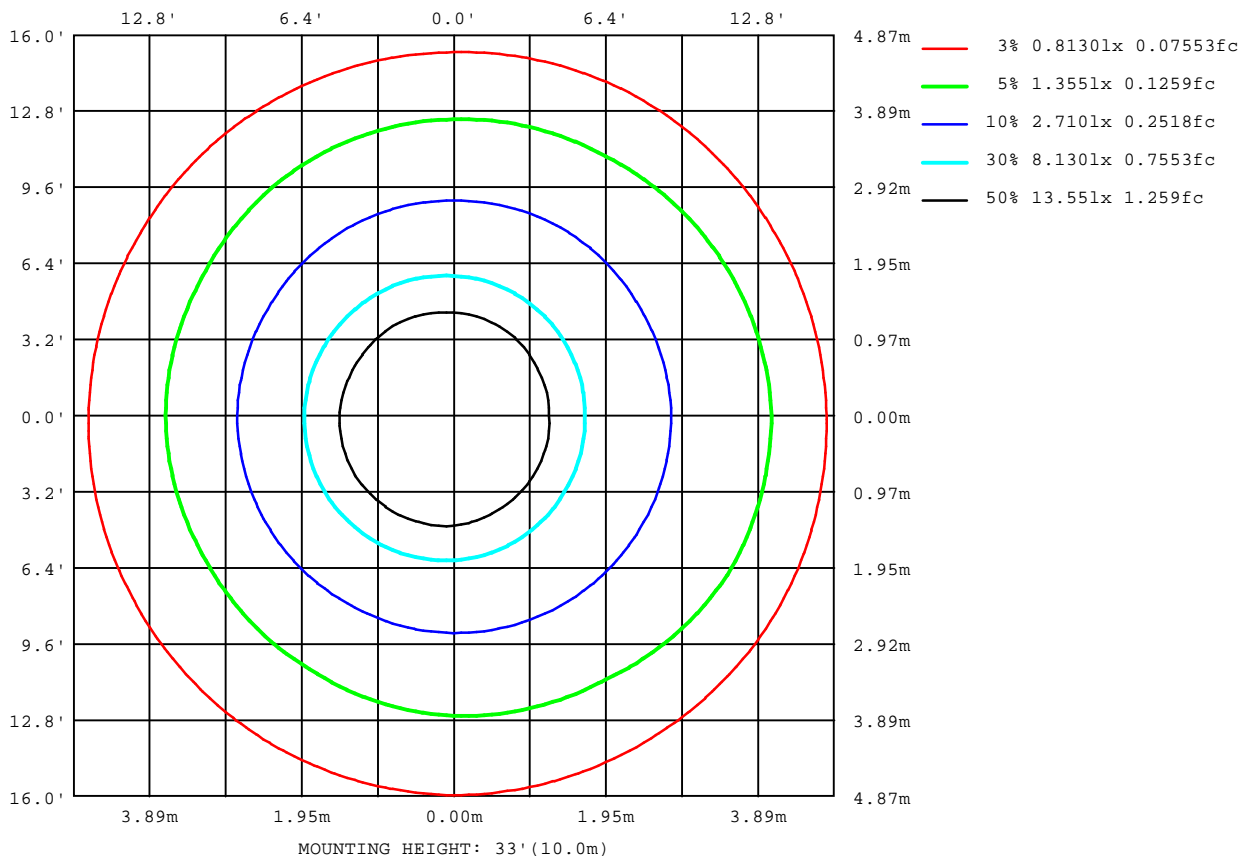
g Range: 0 - 90DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.0.402  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:WCS SRM2.CM-M3M5-XX37-1-700-R18  
Ra:91.4 R9:55  
DRIVER:AED08-700ILS 700mA  
REFLECTOR:PS-1092-120-226 15R  
30minutes warm-up



## RISE GONIOPHOTOMETERS SYSTEM TEST REPORT

### ISOLUX DIAGRAM

Test:U:120.15V I:0.0738A P:5.2116W PF:0.5795 Freq:59.98Hz Lamp Flux:419.696x1 lm		
NAME: 1814-400-2-AM-15R	TYPE:	WEIGHT:
SPEC.:3072K	DIM.:	SERIAL No.:1905020897
MFR.: RISE	SUR.:0.00384m2	Shielding Angle:



C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:zoe  
Test Date:2019-05-02

g Range: 0 - 90DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.0.402  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:WCSRM2.CM-M3M5-XX37-1-700-R18  
Ra:91.4 R9:55  
DRIVER:AED08-700ILS 700mA  
REFLECTOR:PS-1092-120-226 15R  
30minutes warm-up

## LED Avg.L Report

Test:U:120.15V I:0.0738A P:5.2116W PF:0.5795 Freq:59.98Hz Lamp Flux:419.696x1 lm		
NAME: 1814-400-2-AM-15R	TYPE:	WEIGHT:
SPEC.:3072K	DIM.:	SERIAL No.:1905020897
MFR.: RISE	SUR.:0.00384m2	Shielding Angle:

AvgL	cd/m2
L_0~180(65)av	265
L_0~180(75)av	0
L_0~180(85)av	0
L_90~270(65)av	209
L_90~270(75)av	1
L_90~270(85)av	11
L_45(65)av	326
L_45(75)av	0
L_45(85)av	0

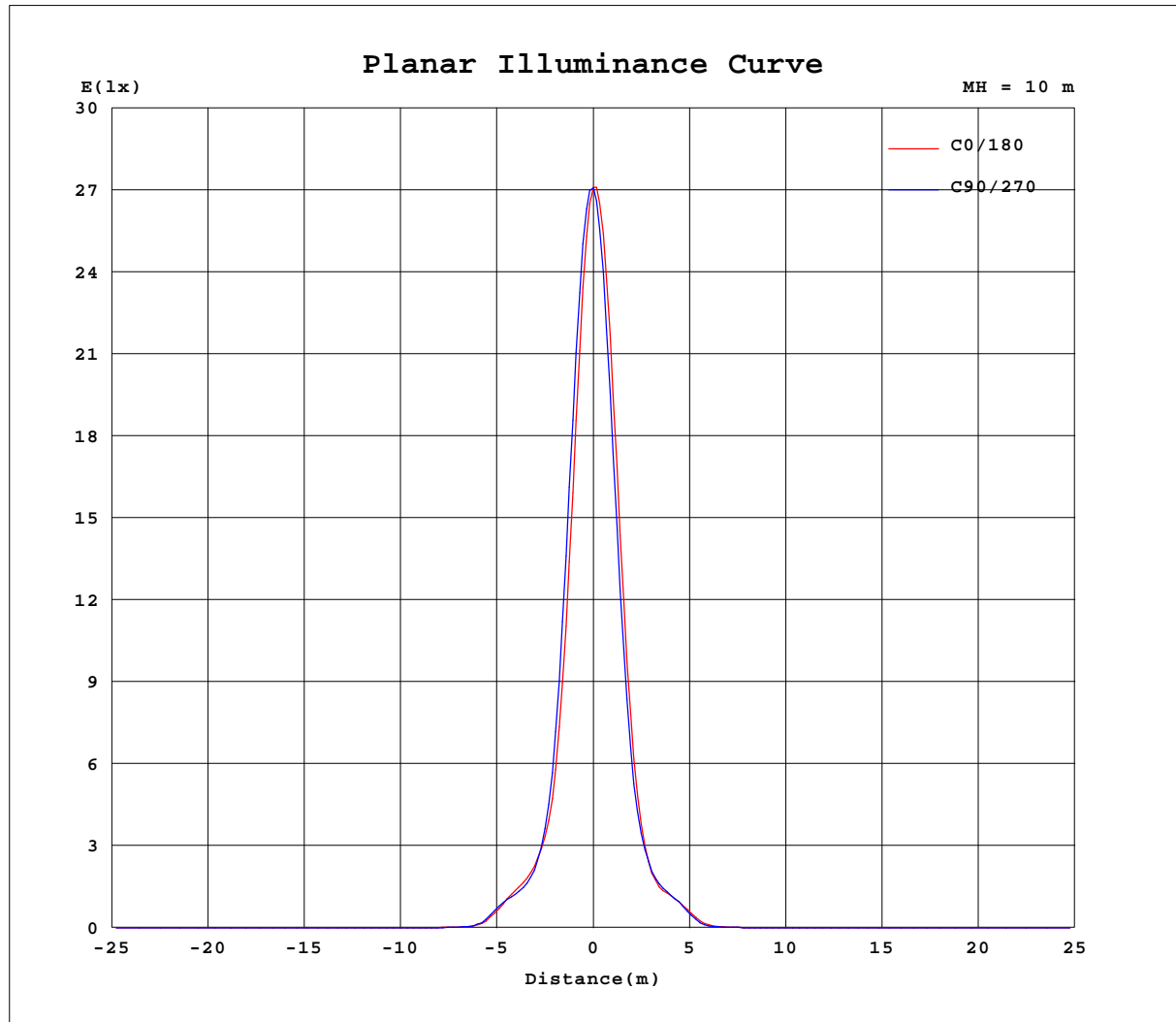
Standard: GB/T 29293-2012

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C Range: 0 - 360DEG  
C Interval: 30.0DEG  
Test Speed: HIGH  
Temperature:25.3DEG  
Operators:zoe  
Test Date:2019-05-02

g Range: 0 - 90DEG  
Interval: 1.0DEG  
Test System:EVERFINE GO-SPEX500\_V1 SYSTEM V2.0.402  
Humidity:65.0%  
Test Distance:3.160m [K=1.0000]  
Remarks: LAMP:WCSSRM2.CM-M3M5-XX37-1-700-R18  
Ra:91.4 R9:55  
DRIVER:AED08-700ILS 700mA  
REFLECTOR:PS-1092-120-226 15R  
30minutes warm-up

## Planar Illuminance Curve



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature: 25.3DEG  
 Operators: zoe  
 Test Date: 2019-05-02

deg Range: 0 - 90DEG  
 Interval: 1.0DEG  
 Test System: EVERFINE GO-SPEX500\_V1 SYSTEM V2.0.402  
 Humidity: 65.0%  
 Test Distance: 3.160m [K=1.0000]  
 Remarks: LAMP: WCSSRM2.CM-M3M5-XX37-1-700-R18  
 Ra: 91.4 R9: 55  
 DRIVER: AED08-700ILS 700mA  
 REFLECTOR: PS-1092-120-226 15R  
 30minutes warm-up

