

SMRCC1001-WP Product Specification

Description	10W LED Recessed Ceiling Light			
Model Number	SMRCC1001-WP-WW	SMRCC1001-WP-NW	SMRCC1001-WP-CW	Units
CCT(°K)	3000K±10%	4000K±10%	6000K±10%	
Input Voltage	AC 100~240 V			V
Input Frequency	50~60 Hz			Hz
Power Factor	>0.85			---
Power Consumption	Typical: 10W Maximum:12W			W
LED Operating Voltage	DC 24V			V
LED Operating Current	380 mA±5%			mA
Emission Angle	120° (Main Beam :90° ±5°)			Degree



Average Illuminance at 1M	99Lx ± 5Lx	84Lx ± 5Lx	106Lx ± 5Lx	Lx
Average Illuminance at 2M	24Lx ± 5Lx	21Lx ± 5Lx	26Lx ± 5Lx	Lx
LED Luminous Flux (lm)	600 lm ±50 lm	700 lm ±50 lm	700 lm ±50 lm	lm
CRI	Ra>85 (WW)	Ra>75 (NW)	Ra>75(CW)	%
Operating Temperature	- 20℃ ~ 60℃			℃
Housing Temperature	≦60℃			℃
Operating Humidity	<85% Non condensed			%
MTBF ⁽¹⁾	>30,000Hr			Hr
Weight	0.45kg			Kg
Packing	17*17*6cm (Box)			Cm

⁽¹⁾ MTBF (Mean Time Between Failure) will effect by transformer.



LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

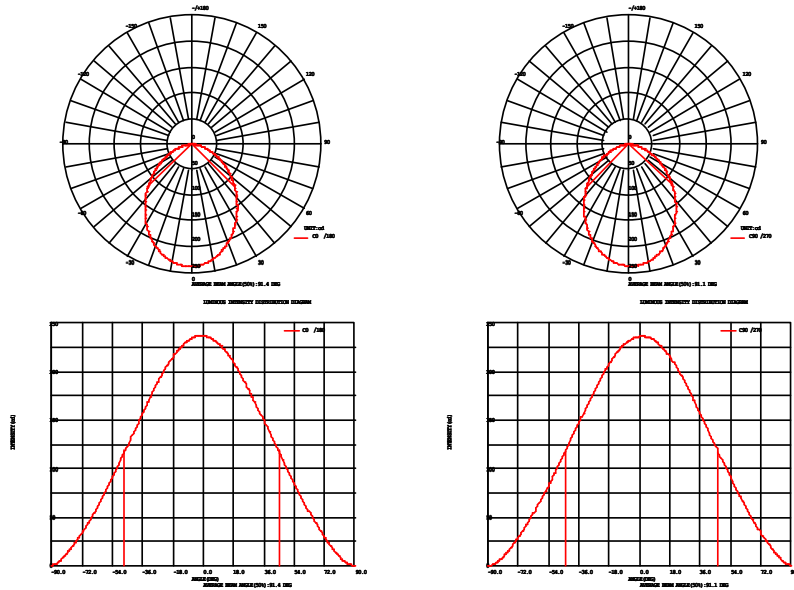


Fig. C0/C180

Fig. C90/C270

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:001
Test Date:2010-07-09

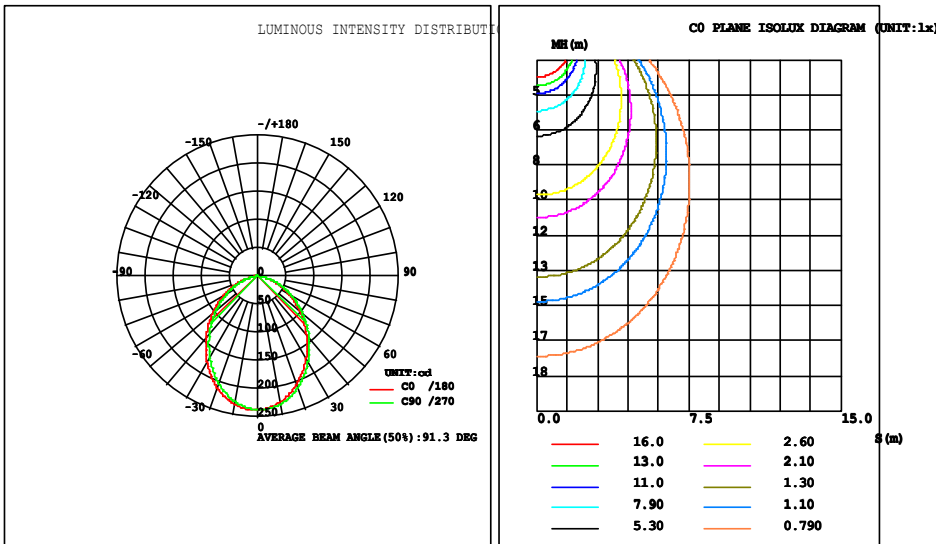
g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B SYSTEM V1.0.135
Humidity:65.0%
Test Distance:6.650m [K=1.0000]
Remarks:



LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:221.0V I:0.052A P:9.980W PF:0.857 Lamp Flux:600.0x1 lm		
NAME: 25w	TYPE:	WEIGHT:
DIMENSION: SMRCC1001-WP-WW	SPECIFICATION:	SERIAL No.:001
MANUFACTURER:	SURFACE:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL		I _{max} (cd)	237.4	S/MR (C0/180)	1.14
NOMINAL POWER (W)	10	EFFICIENCY (%)	86.6	S/MR (C90/270)	1.09
RATED VOLTAGE (V)	220	TOTAL FLUX (lm)	519.36	h UP (C0-180)	0.0
NOMINAL FLUX (lm)	600.0	CIE CLASS	DIRECT	h DN (C0-180)	43.0
LAMPS INSIDE	1	h up (%)	0.0	h UP (C180-360)	0.0
TEST VOLTAGE (V)	220.3	h down (%)	86.6	h DN (C180-360)	43.6



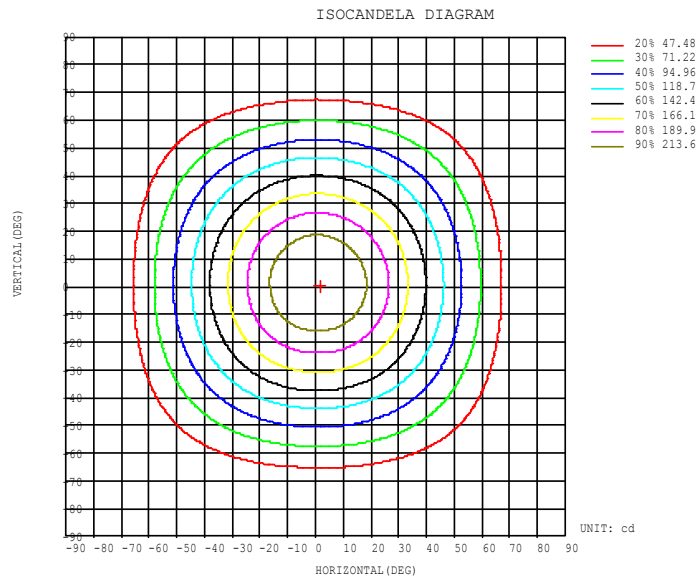
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:001
Test Date:2010-07-09

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B SYSTEM V1.0.135
Humidity:65.0%
Test Distance:6.650m [K=1.0000]
Remarks:



ISOCANDELA DIAGRAM

Test:U:221.0V I:0.052A P:9.980W PF:0.857 Lamp Flux:600.0x1 lm		
NAME: 25w	TYPE:	WEIGHT:
DIMENSION: SMRCC1001-WP-WW	SPECIFICATION:	SERIAL No.:001
MANUFACTURER:	SURFACE:	PROTECTION ANGLE:



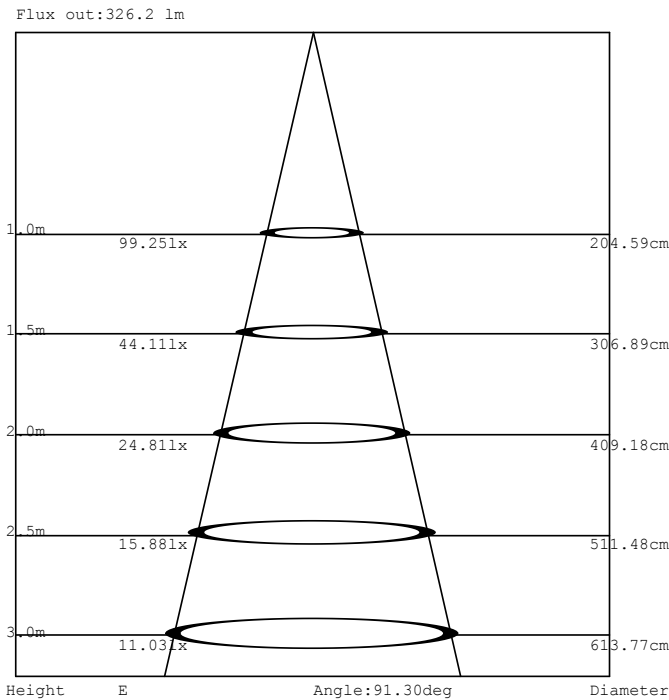
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:001
Test Date:2010-07-09

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B SYSTEM V1.0.135
Humidity:65.0%
Test Distance:6.650m [K=1.0000]
Remarks:



AAI Figure

Test:U:221.0V I:0.052A P:9.980W PF:0.857 Lamp Flux:600.0x1 lm		
NAME: 25w	TYPE:	WEIGHT:
DIMENSIONS: SMRCC1001-WP-WW	SPECIFICATION:	SERIAL No.:001
MANUFACTURER:	SURFACE:	PROTECTION 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: 90.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:001
Test Date:2010-07-09

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B SYSTEM V1.0.135
Humidity:65.0%
Test Distance:6.650m [K=1.0000]
Remarks:



LUMINOUS DISTRIBUTION INTENSITY DATA

Test:U:221.0V I:0.052A P:9.980W PF:0.857 Lamp Flux:600.0x1 lm		
NAME: 25w	TYPE:	WEIGHT:
DIMENSION: SMRCC1001-WP-WW	SPECIFICATION:	SERIAL No.:001
MANUFACTURER:	SURFACE:	PROTECTION ANGLE:

Table--1 UNIT: cd

g (DEG)	C (DEG)	0	90	180	270															
0	0	237	236	237	236															
5	5	236	233	234	236															
10	10	231	226	227	231															
15	15	222	215	217	222															
20	20	210	202	204	210															
25	25	195	186	188	195															
30	30	176	168	171	176															
35	35	160	151	153	160															
40	40	142	132	135	142															
45	45	123	114	117	123															
50	50	105	96.3	99.4	106															
55	55	86.8	79.3	81.7	87.7															
60	60	69.9	63.0	64.9	71.0															
65	65	53.9	47.7	49.4	54.8															
70	70	39.2	34.1	35.2	39.7															
75	75	26.2	21.8	22.4	26.3															
80	80	14.7	11.2	11.4	14.4															
85	85	5.33	3.37	3.27	5.14															
90	90	0.80	0.41	0.50	0.49															

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:001
Test Date:2010-07-09

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B SYSTEM V1.0.135
Humidity:65.0%
Test Distance:6.650m [K=1.0000]
Remarks:



LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

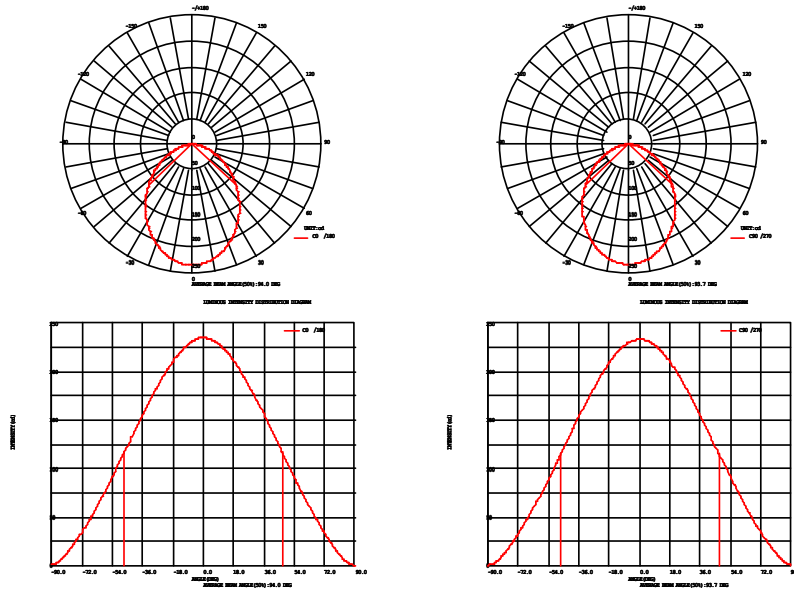


Fig. C0/C180

Fig. C90/C270

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:001
Test Date:2010-08-16

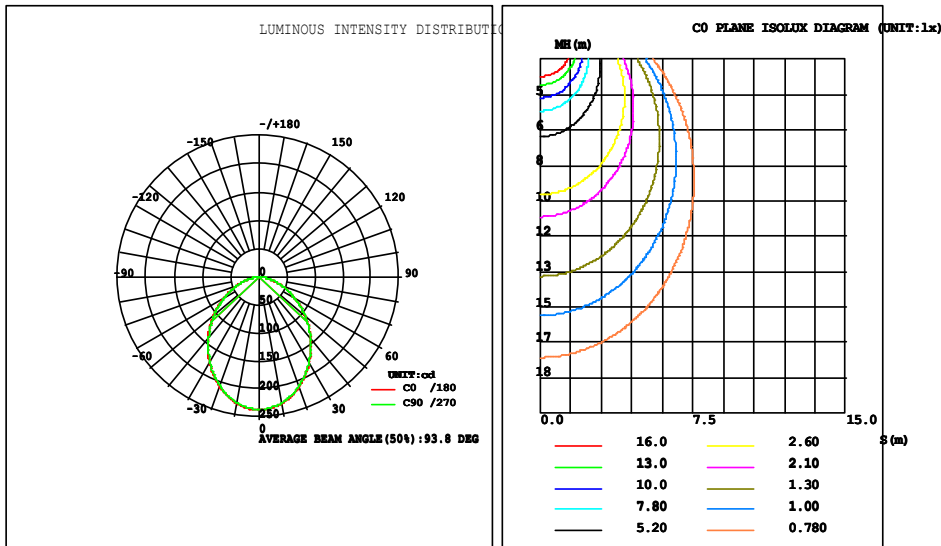
g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B SYSTEM V1.0.135
Humidity:65.0%
Test Distance:6.650m [K=1.0000]
Remarks:



LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:223.1V I:0.054A P:11.60W PF:0.946 Lamp Flux:800.0x1 lm		
NAME: 10	TYPE:	WEIGHT:
DIMENSION: SMRCC1001-WP-NW	SPECIFICATION:	SERIAL No.:001
MANUFACTURER:	SURFACE:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL		I _{max} (cd)	234.9	S/MH (C0/180)	1.13
NOMINAL POWER (W)	12	EFFICIENCY (%)	66.4	S/MH (C90/270)	1.12
RATED VOLTAGE (V)	224	TOTAL FLUX (lm)	530.85	h UP (C0-180)	0.0
NOMINAL FLUX (lm)	800.0	CIE CLASS	DIRECT	h DN (C0-180)	33.0
LAMPS INSIDE	1	h up (%)	0.0	h UP (C180-360)	0.0
TEST VOLTAGE (V)	223.3	h down (%)	66.4	h DN (C180-360)	33.4



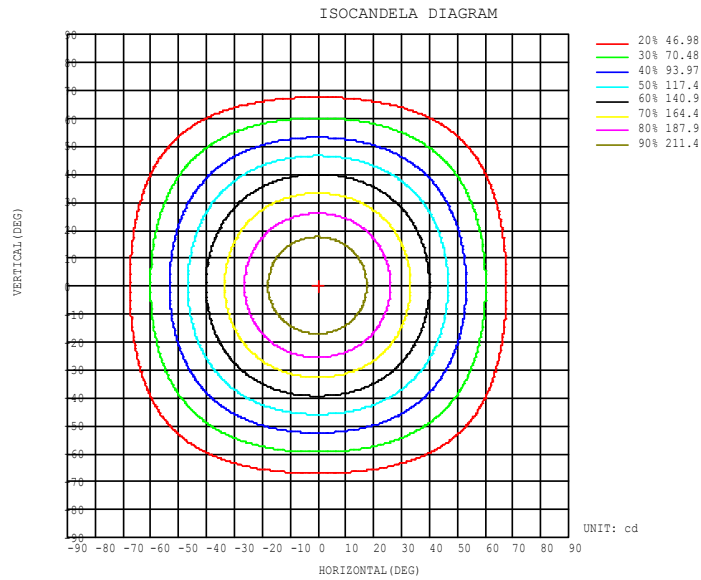
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:001
Test Date:2010-08-16

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B SYSTEM V1.0.135
Humidity:65.0%
Test Distance:6.650m [K=1.0000]
Remarks:



ISOCANDELA DIAGRAM

Test:U:223.1V I:0.054A P:11.60W PF:0.946 Lamp Flux:800.0x1 lm		
NAME: 10	TYPE:	WEIGHT:
DIMENSION: SMRCC1001-WP-NW	SPECIFICATION:	SERIAL No.:001
MANUFACTURER:	SURFACE:	PROTECTION ANGLE:



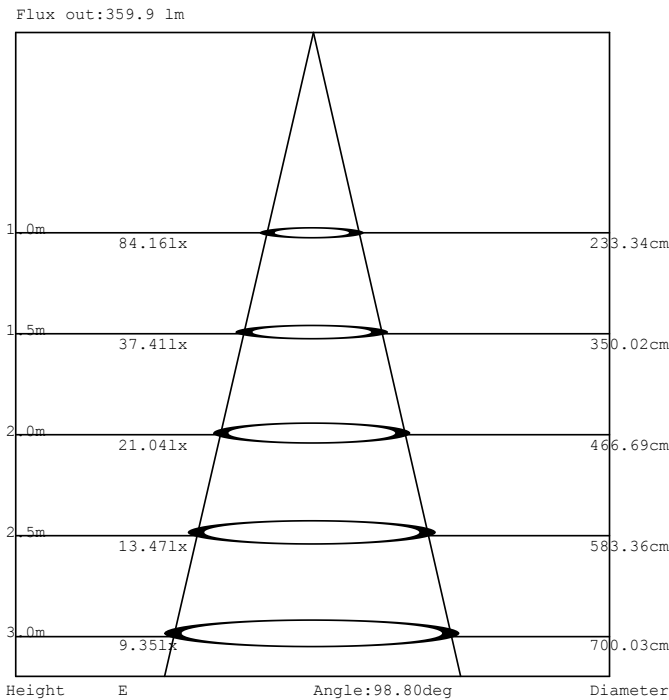
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:001
Test Date:2010-08-16

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B SYSTEM V1.0.135
Humidity:65.0%
Test Distance:6.650m [K=1.0000]
Remarks:



AAI Figure

Test:U:223.1V I:0.054A P:11.60W PF:0.946 Lamp Flux:800.0x1 lm		
NAME: 10	TYPE:	WEIGHT:
DIMENSION: SMRCC1001-WP-NW	SPECIFICATION:	SERIAL No.:001
MANUFACTURER:	SURFACE:	PROTECTION 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: 90.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:001
Test Date:2010-08-16

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B SYSTEM V1.0.135
Humidity:65.0%
Test Distance:6.650m [K=1.0000]
Remarks:



LUMINOUS INTENSITY DISTRIBUTION DIAGRAM

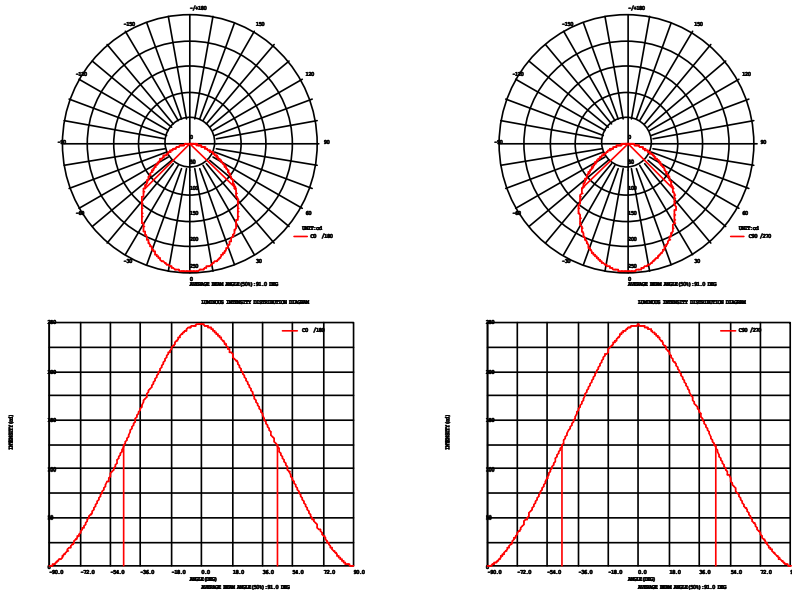


Fig. C0/C180

Fig. C90/C270

C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:001
Test Date:2010-07-09

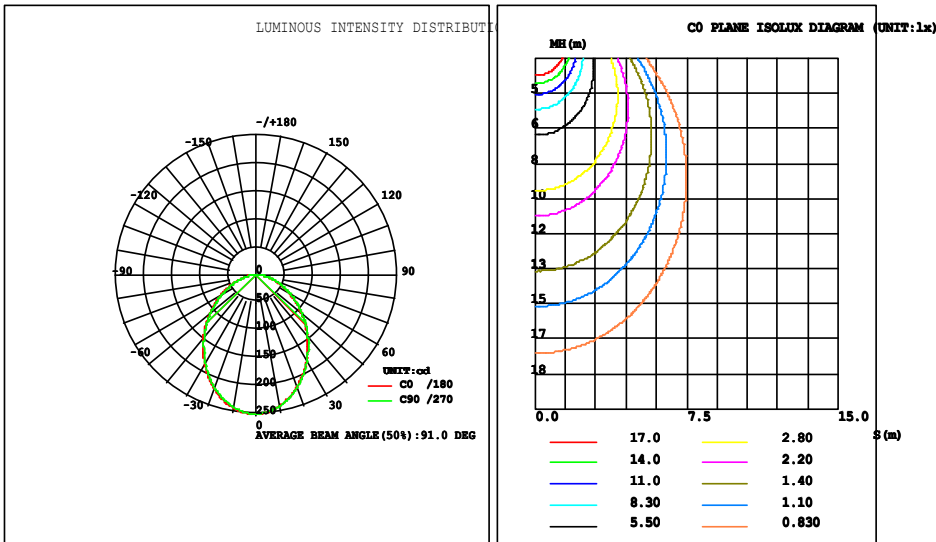
g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B SYSTEM V1.0.135
Humidity:65.0%
Test Distance:6.650m [K=1.0000]
Remarks:



LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:220.1V I:0.057A P:11.00W PF:0.871 Lamp Flux:700.0x1 lm		
NAME:	TYPE:	WEIGHT:
DIMENSION: SMRCC1001-WPCW	SPECIFICATION:	SERIAL No.:001
MANUFACTURER:	SURFACE:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA			
MODEL		I _{max} (cd)	248.4	S/MH (C0/180)	1.12
NOMINAL POWER (W)	12	EFFICIENCY (%)	77.4	S/MH (C90/270)	1.11
RATED VOLTAGE (V)	222	TOTAL FLUX (lm)	541.51	h UP (C0-180)	0.0
NOMINAL FLUX (lm)	700.0	CIE CLASS	DIRECT	h DN (C0-180)	39.1
LAMPS INSIDE	1	h up (%)	0.0	h UP (C180-360)	0.0
TEST VOLTAGE (V)	221.8	h down (%)	77.4	h DN (C180-360)	38.2



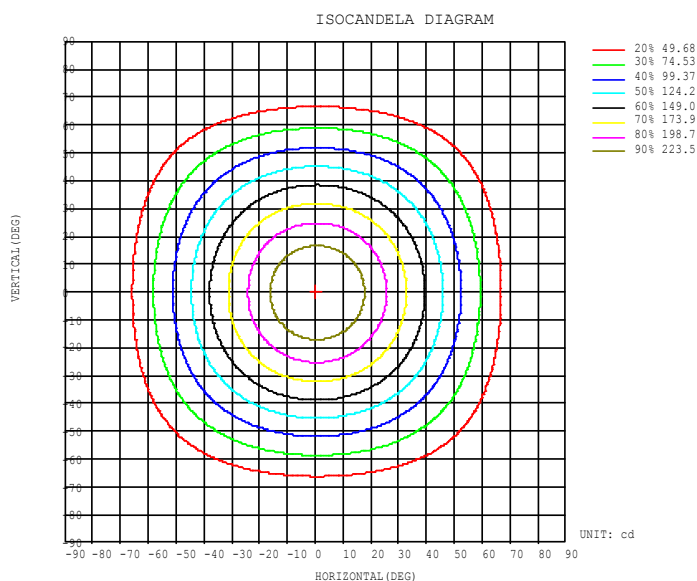
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: MEDIUM
Temperature: 25.3DEG
Operators: 001
Test Date: 2010-07-09

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System: EVERFINE GO-2000B SYSTEM V1.0.135
Humidity: 65.0%
Test Distance: 6.650m [K=1.0000]
Remarks:



ISOCANDELA DIAGRAM

Test:U:220.1V I:0.057A P:11.00W PF:0.871 Lamp Flux:700.0x1 lm		
NAME:	TYPE:	WEIGHT:
DIMENSION: SMRCC1001-WPCW	SPECIFICATION:	SERIAL No.:001
MANUFACTURER:	SURFACE:	PROTECTION ANGLE:



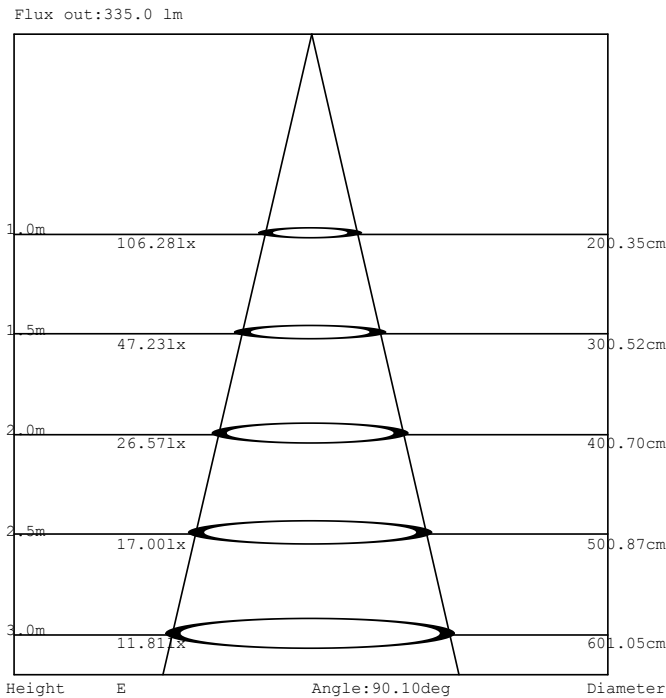
C Range: 0 - 360DEG
C Interval: 90.0DEG
Test Speed: MEDIUM
Temperature:25.3DEG
Operators:001
Test Date:2010-07-09

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B SYSTEM V1.0.135
Humidity:65.0%
Test Distance:6.650m [K=1.0000]
Remarks:



AAI Figure

Test:U:220.1V I:0.057A P:11.00W PF:0.871 Lamp Flux:700.0x1 lm		
NAME:	TYPE:	WEIGHT:
DIMENSION:MRCC1001-WPCW	SPECIFICATION:	SERIAL No.:001
MANUFACTURER:	SURFACE:	PROTECTION ANGLE:



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

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