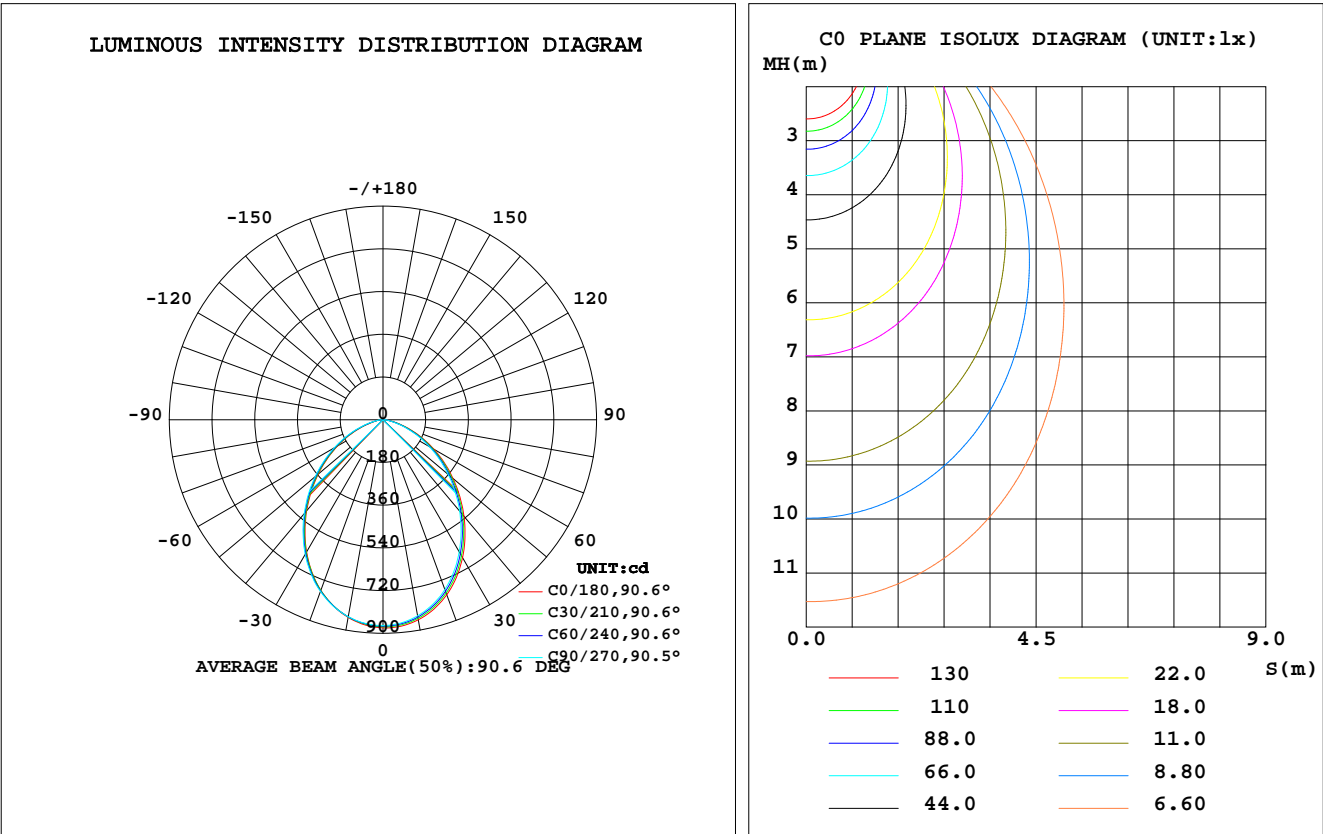


LUMINAIRE PHOTOMETRIC TEST REPORT

NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: Rayconn	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 79.28 lm/W
MODEL	BL182-24W-840-W-90	I _{max} (cd)	877.3	S/MH(C0/180)	1.15	
NOMINAL POWER(W)	24	LOR(%)	100.0	S/MH(C90/270)	1.12	
RATED VOLTAGE(V)	228	TOTAL FLUX(lm)	1863.0	η UP,DN(C0-180)	0.0,49.8	
NOMINAL FLUX(lm)	1862.98	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,50.2	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	227.2	η down(%)	100.0	CIBSE SHR MAX	1.25	



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QiuMing
Test Date:2014-08-25

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:6.050m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	$\%lum, lamp$
10	856.0	847.5	839.2	835.1	845.8	842.3	843.0	840.6	0- 10	81.63	81.63	4.38,4.38
20	785.0	774.7	761.9	757.5	765.6	765.1	770.2	768.8	10- 20	228.1	309.7	16.6,16.6
30	670.5	658.7	642.2	638.4	643.6	646.7	655.7	654.9	20- 30	327.7	637.4	34.2,34.2
40	531.0	518.5	502.6	498.0	500.6	506.1	516.4	516.3	30- 40	363.3	1001	53.7,53.7
50	385.4	373.8	359.0	355.2	356.2	362.1	373.1	373.0	40- 50	337.7	1338	71.8,71.8
60	247.0	237.1	223.9	221.6	221.0	226.8	238.0	237.6	50- 60	266.1	1605	86.1,86.1
70	124.2	116.8	107.2	105.2	103.1	108.9	117.8	118.1	60- 70	168.0	1773	95.1,95.1
80	37.75	34.10	29.98	29.42	28.75	31.43	35.24	35.53	70- 80	71.38	1844	99,99
90	7.149	5.498	5.199	5.226	5.632	5.565	6.087	6.377	80- 90	19.08	1863	100,100
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		

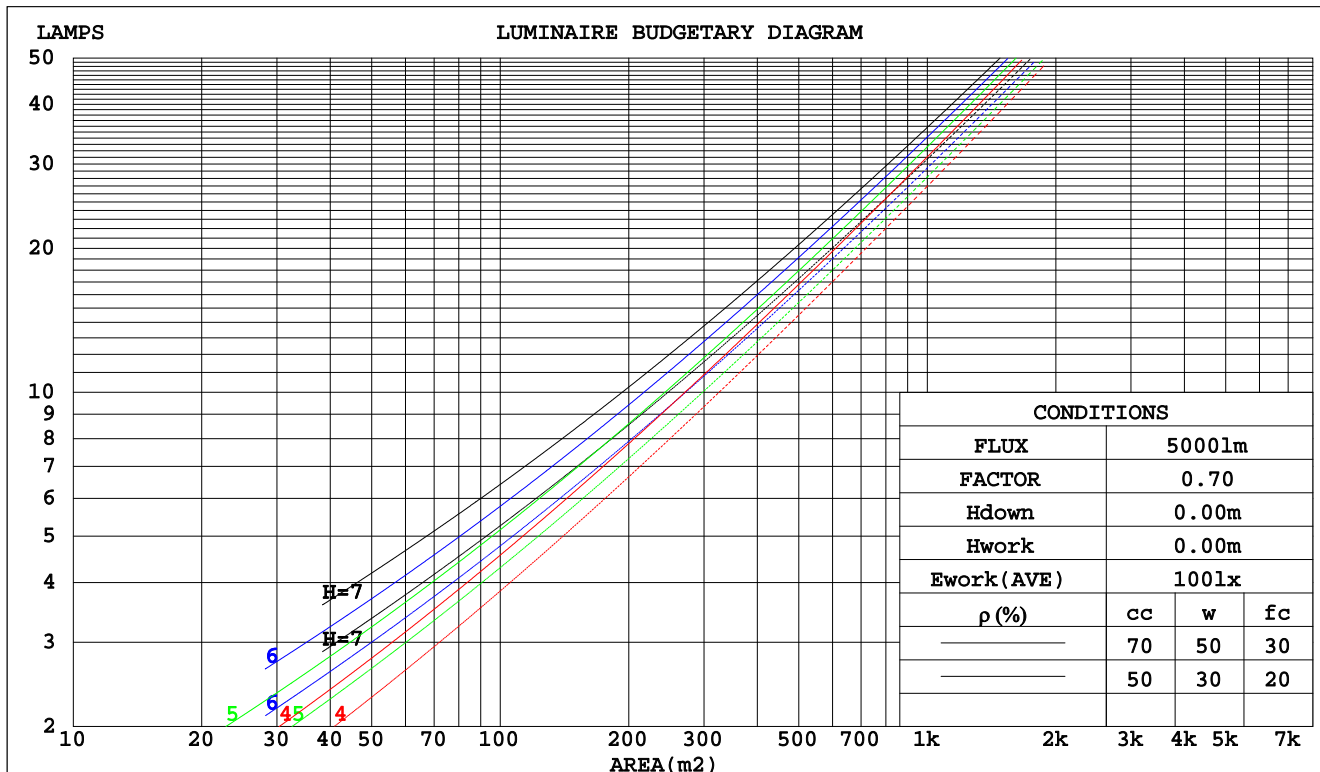
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QiuMing
Test Date:2014-08-25

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:6.050m [K=1.0000]
Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: Rayconn	SUR.:	PROTECTION 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	Coefficients of Utilization(CU)															
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	.00
1.0	1.06	1.02	.99	1.04	1.00	.97	.99	.97	.94	.96	.93	.91	.92	.90	.89	.87
2.0	.94	.88	.83	.92	.86	.82	.88	.84	.80	.85	.81	.78	.82	.79	.76	.74
3.0	.83	.76	.70	.82	.75	.70	.79	.73	.68	.76	.71	.67	.74	.70	.66	.64
4.0	.75	.67	.60	.73	.66	.60	.71	.64	.59	.69	.63	.58	.67	.62	.58	.56
5.0	.67	.59	.53	.66	.58	.53	.64	.57	.52	.62	.56	.51	.61	.55	.51	.49
6.0	.61	.53	.47	.60	.52	.47	.58	.51	.46	.57	.51	.46	.55	.50	.45	.43
7.0	.56	.47	.42	.55	.47	.42	.53	.46	.41	.52	.46	.41	.51	.45	.41	.39
8.0	.51	.43	.38	.50	.43	.37	.49	.42	.37	.48	.42	.37	.47	.41	.37	.35
9.0	.47	.39	.34	.47	.39	.34	.45	.39	.34	.44	.38	.34	.43	.38	.33	.32
10.0	.44	.36	.31	.43	.36	.31	.42	.35	.31	.41	.35	.31	.40	.35	.31	.29



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QiuMing
Test Date: 2014-08-25

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.265
Humidity: 65.0%
Test Distance: 6.050m [K=1.0000]
Remarks:

WEC AND CCEC

NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: Rayconn	SUR.:	PROTECTION 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	.271 .154 .049	.264 .150 .048	.251 .144 .046	.239 .138 .044	.228 .132 .043	
2.0	.259 .142 .044	.253 .140 .043	.242 .135 .042	.231 .130 .041	.222 .125 .040	
3.0	.244 .130 .039	.238 .128 .038	.228 .124 .038	.219 .120 .037	.210 .116 .036	
4.0	.228 .118 .035	.223 .117 .034	.214 .114 .034	.206 .111 .033	.198 .108 .033	
5.0	.213 .108 .031	.208 .107 .031	.201 .104 .031	.193 .102 .030	.186 .100 .030	
6.0	.199 .100 .029	.195 .099 .028	.188 .096 .028	.182 .094 .028	.175 .092 .027	
7.0	.186 .092 .026	.183 .091 .026	.177 .089 .026	.171 .088 .025	.165 .086 .025	
8.0	.175 .085 .024	.172 .085 .024	.166 .083 .024	.161 .082 .024	.156 .080 .023	
9.0	.165 .080 .022	.162 .079 .022	.157 .078 .022	.152 .076 .022	.148 .075 .022	
10.0	.156 .075 .021	.153 .074 .021	.149 .073 .021	.144 .072 .020	.140 .071 .020	

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	.190 .190 .190	.163 .163 .163	.111 .111 .111	.064 .064 .064	.020 .020 .020	
1.0	.178 .156 .137	.152 .134 .118	.104 .092 .082	.060 .053 .048	.019 .017 .015	
2.0	.168 .132 .102	.144 .114 .088	.099 .079 .061	.057 .046 .036	.018 .015 .012	
3.0	.159 .114 .078	.137 .098 .068	.094 .068 .047	.054 .040 .028	.017 .013 .009	
4.0	.152 .101 .062	.130 .087 .053	.089 .061 .038	.052 .035 .022	.017 .012 .007	
5.0	.144 .090 .050	.124 .078 .043	.085 .054 .031	.049 .032 .018	.016 .010 .006	
6.0	.137 .081 .041	.118 .070 .036	.081 .049 .025	.047 .029 .015	.015 .009 .005	
7.0	.131 .074 .035	.112 .064 .030	.078 .045 .022	.045 .027 .013	.015 .009 .004	
8.0	.125 .069 .030	.107 .059 .026	.074 .042 .019	.043 .025 .011	.014 .008 .004	
9.0	.119 .064 .026	.102 .055 .023	.071 .039 .016	.041 .023 .010	.013 .008 .003	
10.0	.113 .059 .023	.098 .051 .020	.068 .036 .014	.040 .021 .009	.013 .007 .003	

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QiuMing
Test Date:2014-08-25

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:6.050m [K=1.0000]
Remarks:

Uncorrected UGR Table

NAME:						TYPE:					WEIGHT:				
DIM.:						SPEC.:					SERIAL No.:				
MFR.: Rayconn						SUR.:					PROTECTION 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						24.8	26.2	25.0	26.3	26.5	24.4	25.8	24.7	26.0	26.2
3H						25.7	27.0	26.0	27.2	27.5	25.3	26.6	25.6	26.8	27.0
4H						26.0	27.2	26.3	27.5	27.7	25.5	26.7	25.8	27.0	27.2
6H						26.1	27.3	26.5	27.5	27.8	25.6	26.7	25.9	27.0	27.3
8H						26.2	27.3	26.5	27.5	27.8	25.6	26.7	25.9	27.0	27.3
12H						26.2	27.2	26.5	27.5	27.8	25.6	26.7	25.9	26.9	27.2
4H 2H						25.1	26.4	25.4	26.6	26.9	24.9	26.1	25.2	26.3	26.6
3H						26.2	27.3	26.6	27.6	27.9	25.9	26.9	26.2	27.2	27.5
4H						26.6	27.6	27.0	27.9	28.2	26.2	27.1	26.5	27.4	27.8
6H						26.8	27.7	27.2	28.0	28.4	26.3	27.2	26.7	27.5	27.9
8H						26.9	27.7	27.3	28.0	28.4	26.4	27.2	26.8	27.5	27.9
12H						26.9	27.7	27.4	28.0	28.4	26.4	27.1	26.8	27.5	27.9
8H 4H						26.7	27.5	27.1	27.8	28.2	26.3	27.1	26.7	27.4	27.8
6H						27.0	27.6	27.4	28.0	28.4	26.5	27.2	26.9	27.6	28.0
8H						27.1	27.7	27.5	28.1	28.5	26.6	27.2	27.0	27.6	28.0
12H						27.2	27.7	27.7	28.1	28.6	26.7	27.2	27.1	27.6	28.1
12H 4H						26.7	27.4	27.1	27.8	28.2	26.2	27.0	26.7	27.4	27.8
6H						27.0	27.5	27.4	28.0	28.4	26.5	27.1	27.0	27.5	27.9
8H						27.1	27.6	27.6	28.0	28.5	26.6	27.1	27.1	27.6	28.0
Variations with the observer position at spacings:															
S = 1.0H						+ 0.3 / - 0.4					+ 0.4 / - 0.4				
1.5H						+ 0.2 / - 0.3					+ 0.2 / - 0.4				
2.0H						+ 0.5 / - 0.5					+ 0.5 / - 0.6				

CIE Pub.117 Corrected 1863 lm Total Lamp Luminous Flux.(8log(F/F0) = 2.2)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QiuMing
Test Date: 2014-08-25

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.265
Humidity: 65.0%
Test Distance: 6.050m [K=1.0000]
Remarks:

UTILIZATION FACTORS TABLE

NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: Rayconn	SUR.:	PROTECTION ANGLE:

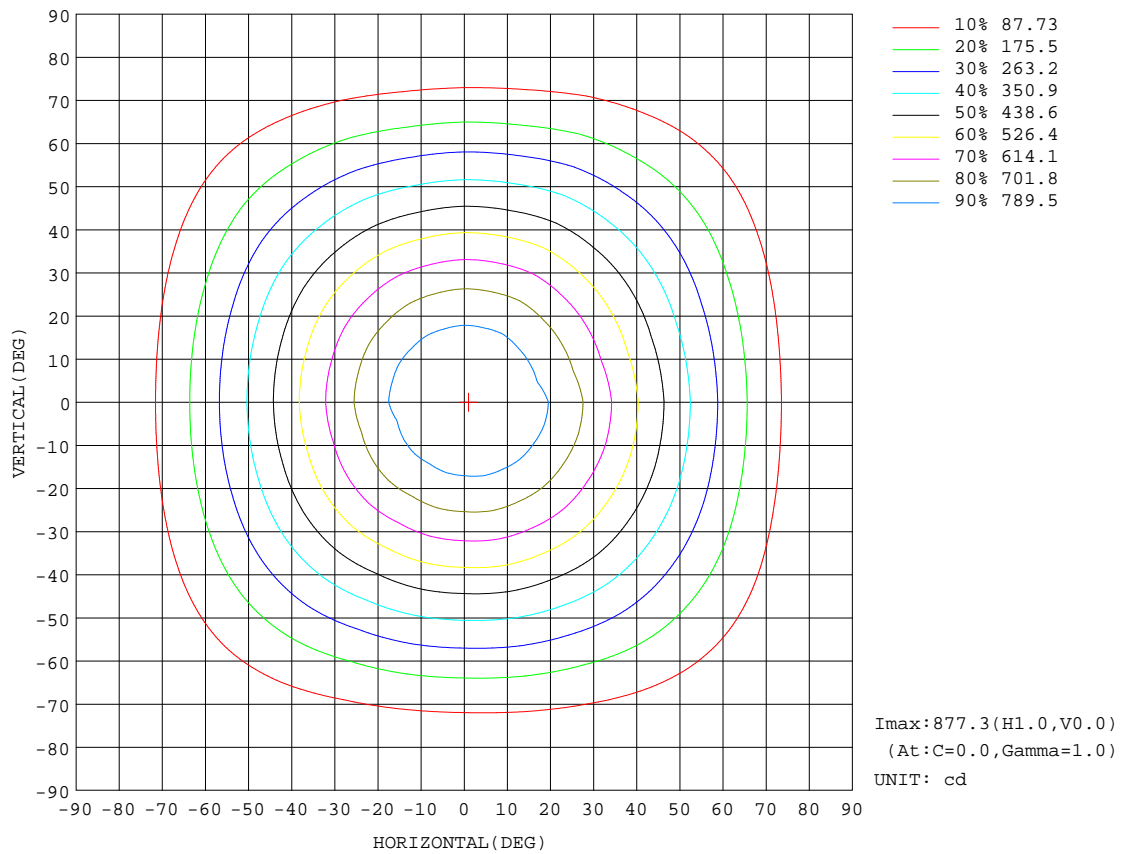
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	63	52	45	62	52	45	61	51	45	39
0.80	73	62	55	72	62	55	70	61	55	49
1.00	81	71	64	80	70	64	78	71	64	57
1.25	88	78	72	86	78	72	84	76	71	64
1.50	92	84	77	91	83	77	88	81	76	69
2.00	98	91	85	97	90	85	93	88	83	76
2.50	102	95	90	100	94	89	96	91	87	79
3.00	105	99	94	103	97	93	99	94	91	83
4.00	108	103	99	106	102	98	102	98	95	87
5.00	110	106	103	108	104	101	104	101	98	89
ROOM INDEX	UF(total)									Direct
According to DIN EN 13032-2 2004										
Suspended										
SHR _{NOM} = 1.25										

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QiuMing
Test Date: 2014-08-25

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.265
Humidity: 65.0%
Test Distance: 6.050m [K=1.0000]
Remarks:

ISOCANDELA DIAGRAM

NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: Rayconn	SUR.:	PROTECTION ANGLE:



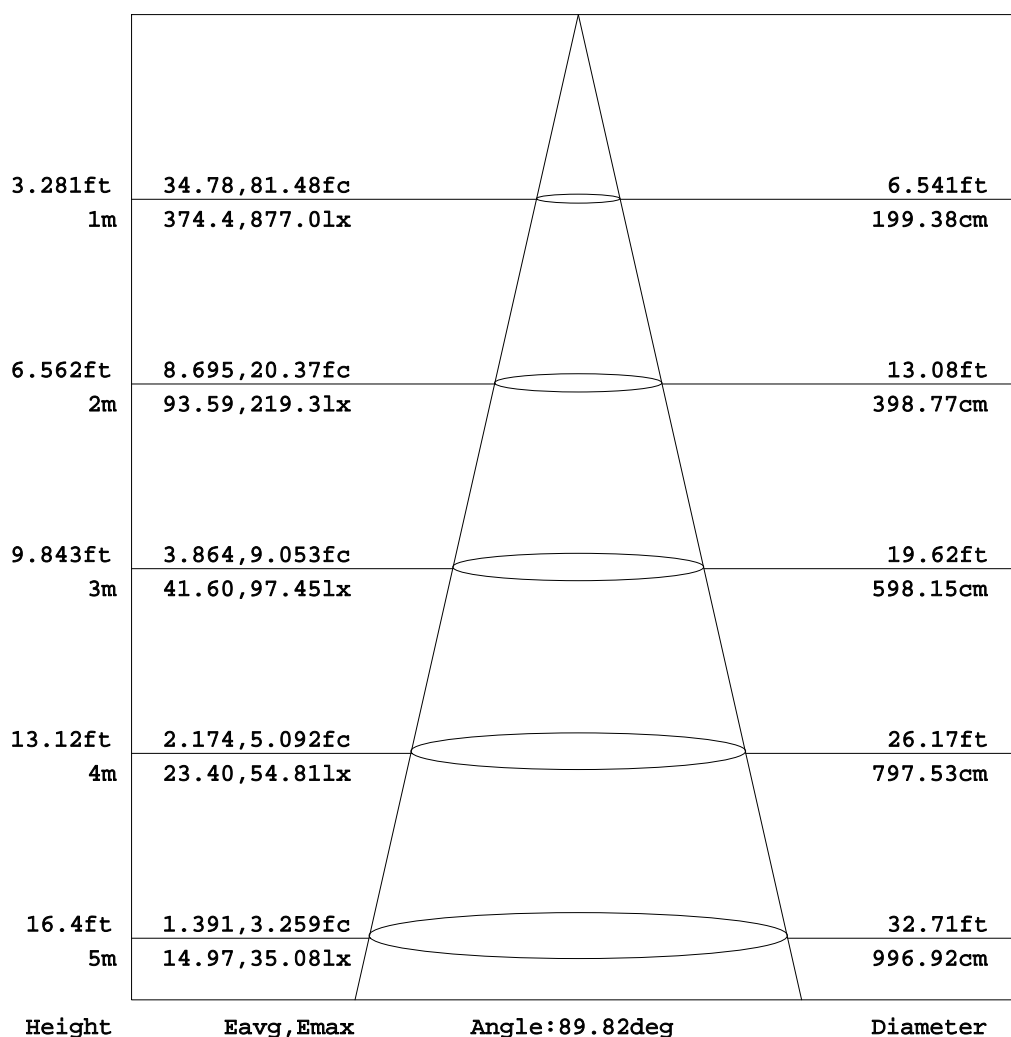
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QiuMing
Test Date: 2014-08-25

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.265
Humidity: 65.0%
Test Distance: 6.050m [K=1.0000]
Remarks:

AAI Figure

NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: Rayconn	SUR.:	PROTECTION ANGLE:

Flux out:1176 lm



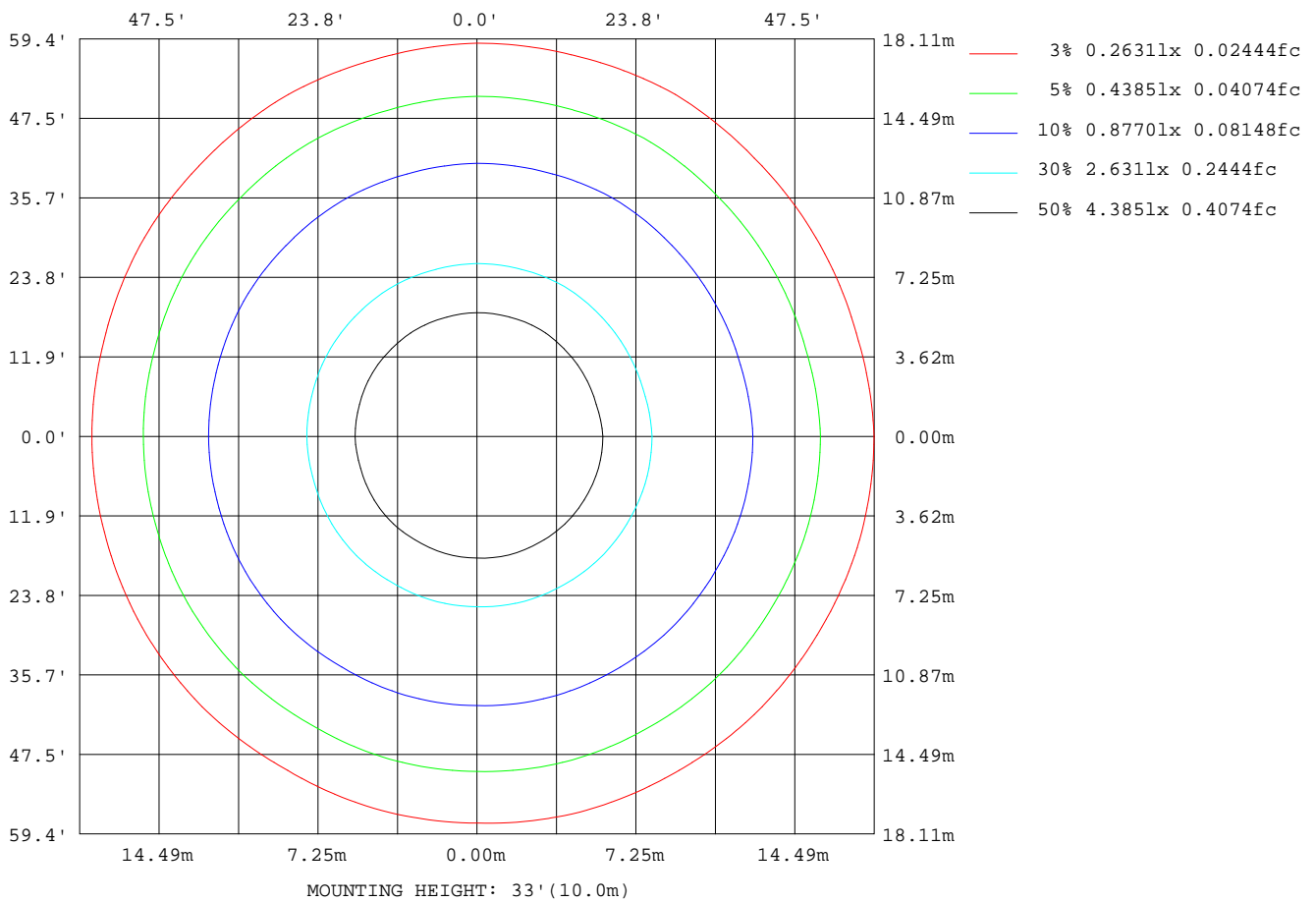
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QiuMing
Test Date: 2014-08-25

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.265
Humidity: 65.0%
Test Distance: 6.050m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

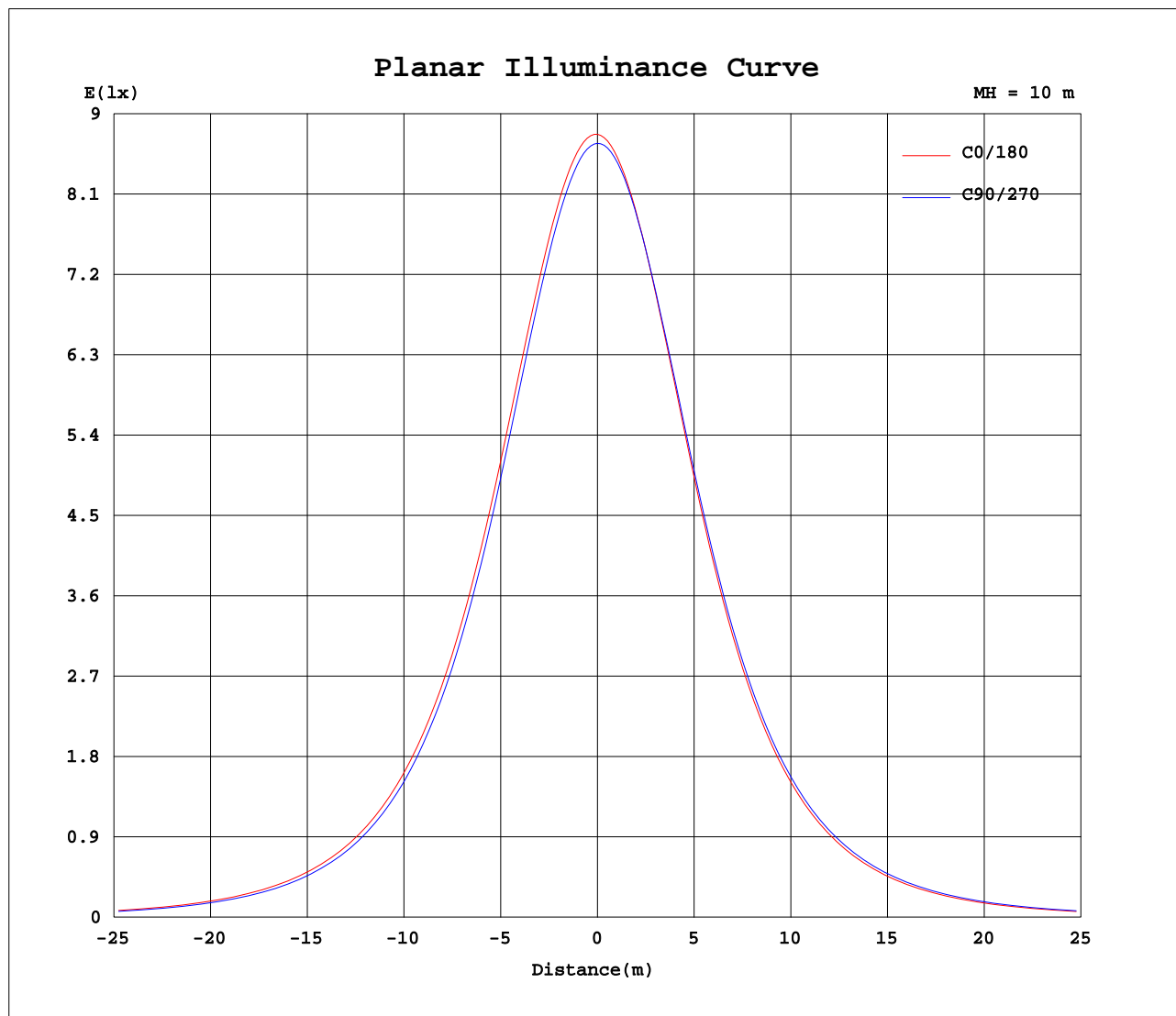
NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: Rayconn	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QiuMing
Test Date: 2014-08-25

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.265
Humidity: 65.0%
Test Distance: 6.050m [K=1.0000]
Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QiuMing
Test Date: 2014-08-25

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.265
Humidity: 65.0%
Test Distance: 6.050m [K=1.0000]
Remarks:

NAME:	TYPE:	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:
MFR.: Rayconn	SUR.:	PROTECTION ANGLE:

UNIT: cd

[illegible]

```

γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:6.050m [K=1.0000]
Remarks:

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NAME :	TYPE :	WEIGHT :
DIM. :	SPEC. :	SERIAL No. :
MFR. : Rayconn	SUR. :	PROTECTION ANGLE :

UNIT: cd

[illegible]

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γ Range: 0 - 90DEG
γ Interval: 1.0DEG
Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.265
Humidity:65.0%
Test Distance:6.050m [K=1.0000]
Remarks:

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