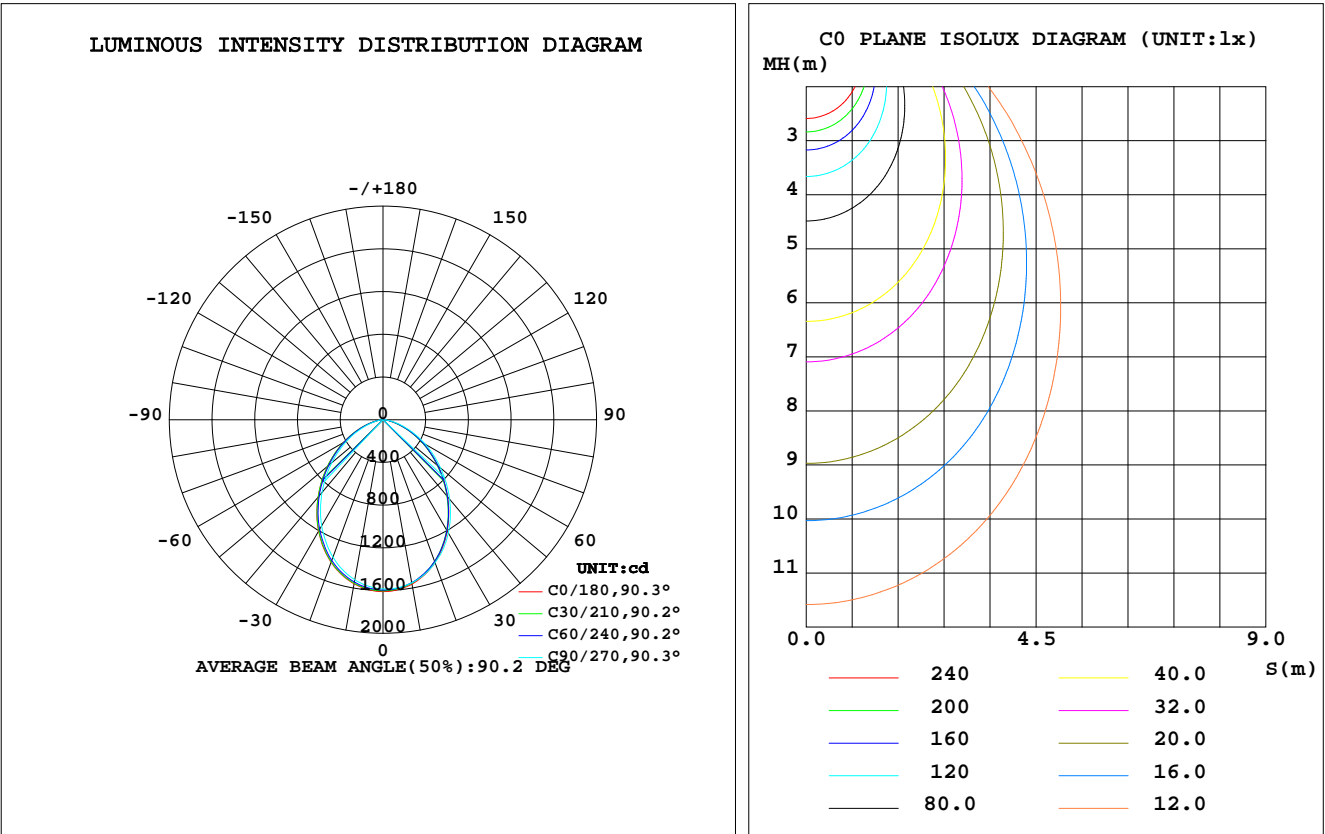


LUMINAIRE PHOTOMETRIC TEST REPORT

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

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 83.26 lm/W
MODEL	BL192-40W-840-W-90	Imax(cd)	1609	S/MH(C0/180)	1.13	
NOMINAL POWER(W)	42	LOR(%)	100.0	S/MH(C90/270)	1.16	
RATED VOLTAGE(V)	228	TOTAL FLUX(lm)	3397.0	η UP,DN(C0-180)	0.0,50.7	
NOMINAL FLUX(lm)	3397	CIE CLASS	DIRECT	η UP,DN(C180-360)	0.0,49.3	
LAMPS INSIDE	1	η up(%)	0.0	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	227.3	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:2014-07-09

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: 42W

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C45	C90	C135	C180	C225	C270	C315	γ	Φ zone	Φ total	Φ lum, lamp
10	1562	1551	1551	1526	1560	1549	1522	1520	0- 10	149.2	149.2	4.39,4.39
20	1423	1413	1426	1394	1420	1408	1370	1379	10- 20	416.5	565.6	16.7,16.7
30	1203	1198	1224	1191	1205	1190	1149	1161	20- 30	598.0	1164	34.3,34.3
40	940.7	939.3	970.6	936.2	946.0	930.9	888.0	904.9	30- 40	662.9	1826	53.8,53.8
50	672.6	671.7	704.9	672.7	677.6	666.3	626.2	643.9	40- 50	614.0	2441	71.8,71.8
60	426.0	422.7	457.6	426.7	427.5	422.4	384.6	404.2	50- 60	482.8	2923	86.1,86.1
70	208.9	207.9	237.0	214.0	210.0	207.6	178.3	193.9	60- 70	306.2	3230	95.1,95.1
80	61.66	61.25	76.94	64.80	61.55	61.30	48.63	55.94	70- 80	132.2	3362	99,99
90	9.731	9.587	15.39	10.42	10.26	10.26	10.19	9.997	80- 90	35.31	3397	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		

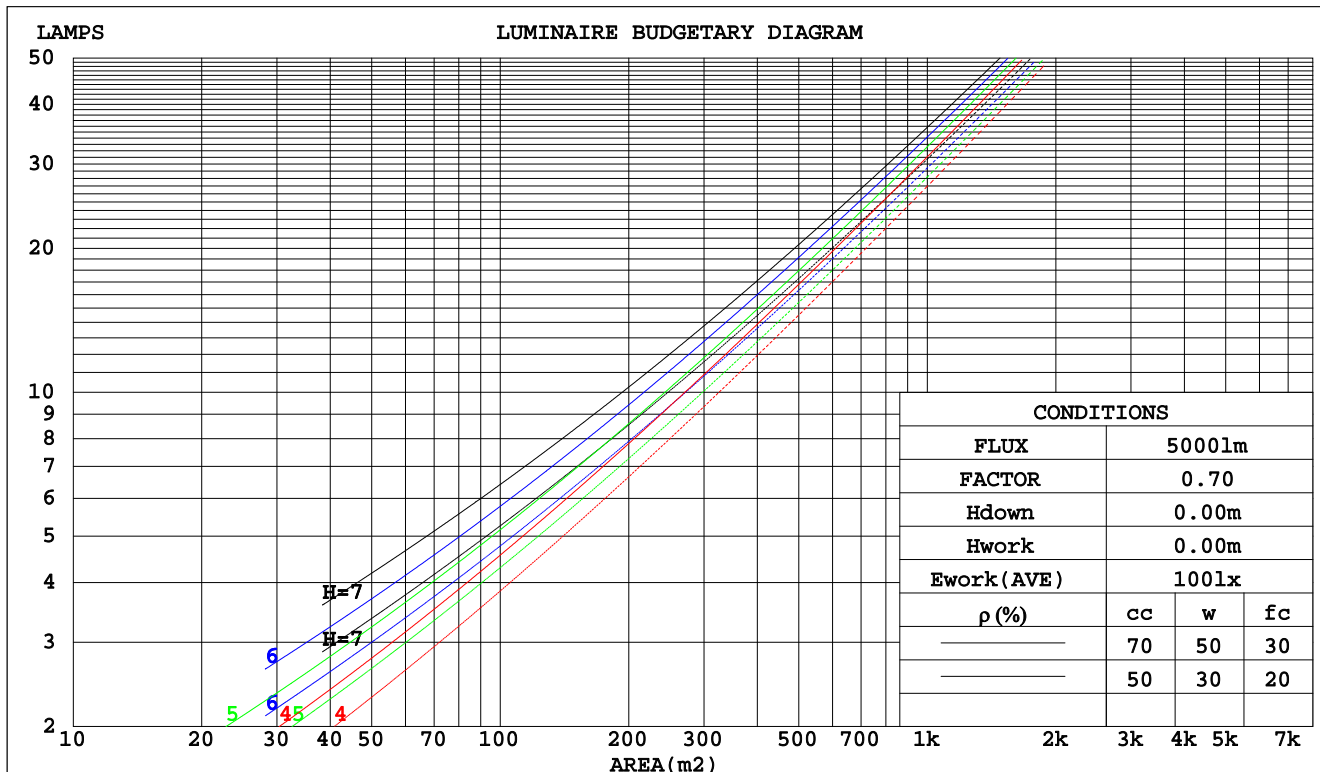
C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QiuMing
Test Date:2014-07-09

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: 42W

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	1.00
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	.69	.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	.36	.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: 2014-07-09

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: 42W

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 .151 .048	.251 .144 .046	.239 .138 .044	.228 .132 .043	
2.0	.260 .142 .044	.254 .140 .043	.242 .135 .042	.232 .130 .041	.222 .126 .040	
3.0	.244 .130 .039	.238 .128 .038	.228 .124 .038	.219 .120 .037	.210 .117 .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	.181 .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:2014-07-09

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: 42W

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					25.2	26.6	25.4	26.8	27.0	25.4	26.8	25.6	27.0	27.2
3H					26.1	27.4	26.4	27.6	27.8	26.4	27.7	26.7	27.9	28.1
4H					26.3	27.5	26.6	27.8	28.0	26.7	27.9	27.0	28.2	28.4
6H					26.4	27.6	26.7	27.8	28.1	26.9	28.0	27.2	28.3	28.6
8H					26.4	27.6	26.8	27.8	28.1	26.9	28.0	27.3	28.3	28.6
12H					26.5	27.5	26.8	27.8	28.1	26.9	28.0	27.3	28.3	28.6
4H 2H					25.6	26.8	25.9	27.0	27.3	25.7	27.0	26.1	27.2	27.5
3H					26.6	27.7	27.0	28.0	28.3	26.9	28.0	27.2	28.2	28.5
4H					26.9	27.9	27.3	28.2	28.6	27.3	28.3	27.7	28.6	28.9
6H					27.1	28.0	27.5	28.3	28.7	27.5	28.4	27.9	28.7	29.1
8H					27.2	28.0	27.6	28.3	28.7	27.6	28.4	28.0	28.8	29.2
12H					27.2	28.0	27.6	28.3	28.7	27.7	28.4	28.1	28.8	29.2
8H 4H					27.0	27.8	27.4	28.2	28.6	27.4	28.1	27.8	28.5	28.9
6H					27.3	27.9	27.7	28.3	28.8	27.7	28.3	28.1	28.7	29.2
8H					27.4	28.0	27.8	28.4	28.8	27.8	28.4	28.3	28.8	29.3
12H					27.5	28.0	28.0	28.4	28.9	27.9	28.4	28.4	28.9	29.3
12H 4H					27.0	27.7	27.4	28.1	28.5	27.3	28.1	27.8	28.4	28.8
6H					27.3	27.9	27.7	28.3	28.7	27.7	28.3	28.1	28.7	29.1
8H					27.4	27.9	27.9	28.4	28.8	27.8	28.3	28.3	28.8	29.2
Variations with the observer position at spacings:														
S = 1.0H					+ 0.3 / - 0.4					+ 0.3 / - 0.4				
1.5H					+ 0.1 / - 0.3					+ 0.2 / - 0.2				
2.0H					+ 0.6 / - 0.5					+ 0.6 / - 0.6				

CIE Pub.117 Corrected 3397 lm Total Lamp Luminous Flux.(8log(F/F0) = 4.2)

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature:25.3DEG
Operators:QiuMing
Test Date:2014-07-09

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: 42W

UTILIZATION FACTORS TABLE

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

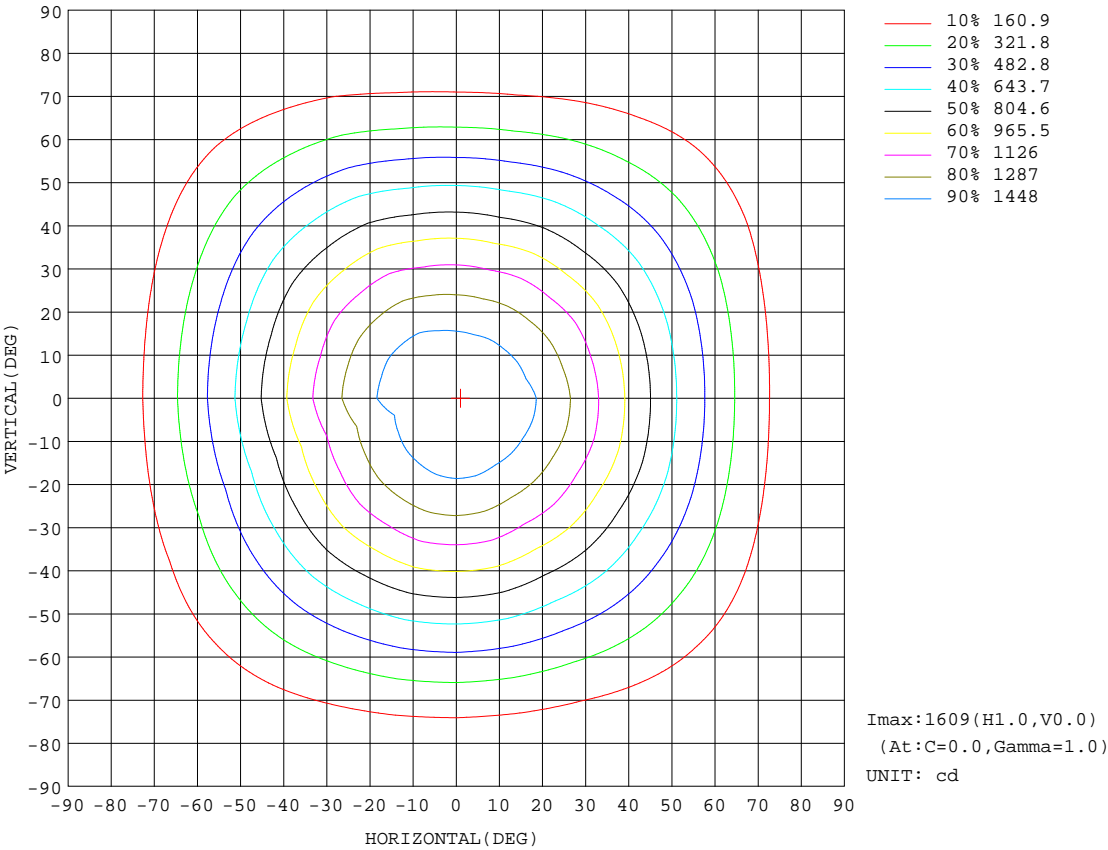
REFLECTANCE										
Ceiling	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
Walls	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
Working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
ROOM INDEX	UTILIZATION FACTORS(PERCENT) k(RI) x RCR = 5									
k = 0.60	63	52	46	62	52	45	61	51	45	39
0.80	73	62	56	72	62	55	70	61	55	49
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: 2014-07-09

γ Range: 0 - 90DEG
 γ Interval: 1.0DEG
 γ Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.265
Humidity: 65.0%
Test Distance: 6.050m [K=1.0000]
Remarks: 42W

ISOCANDELA DIAGRAM

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

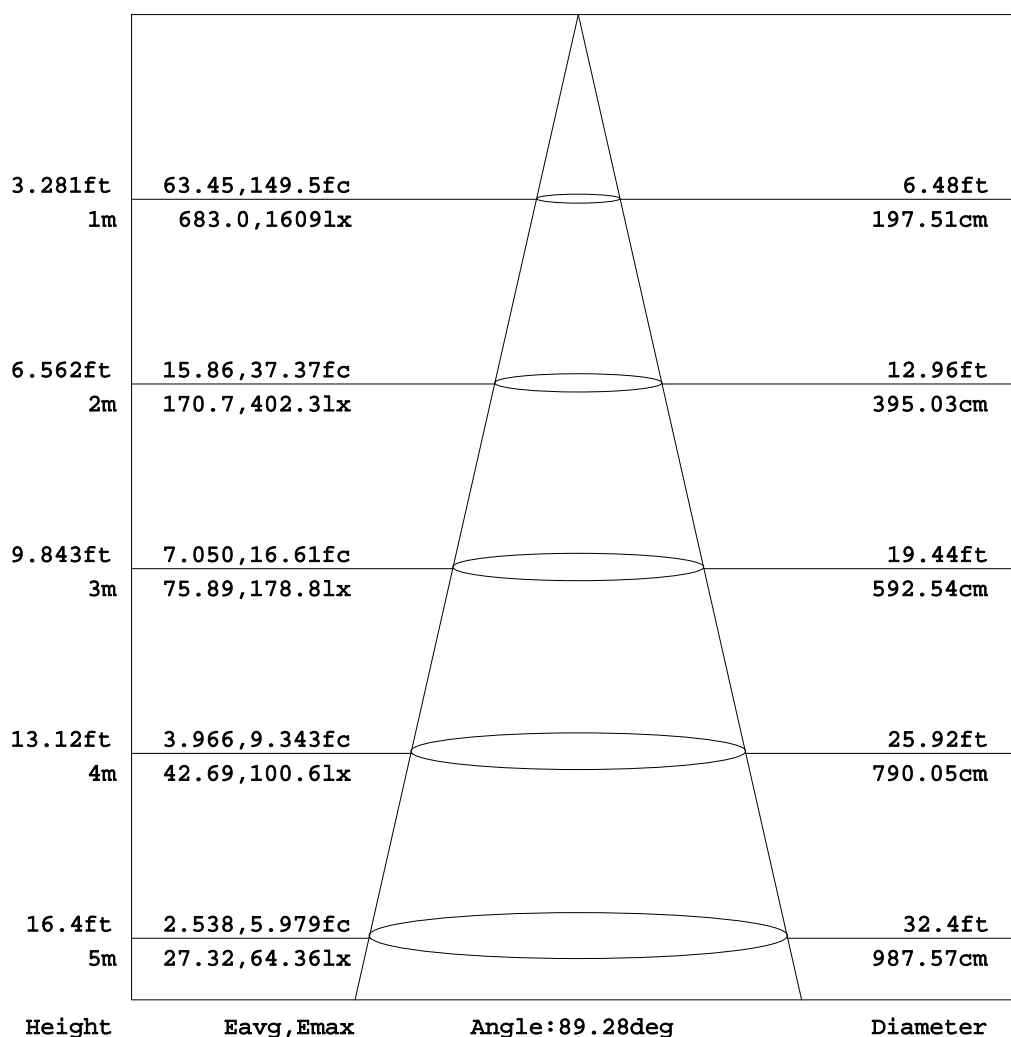


C Range: 0 - 360DEG	γ Range: 0 - 90DEG
C Interval: 15.0DEG	γ Interval: 1.0DEG
Test Speed: HIGH	Test System:EVERFINE GO-2000A_V1 SYSTEM V2.0.265
Temperature:25.3DEG	Humidity:65.0%
Operators:QiuMing	Test Distance:6.050m [K=1.0000]
Test Date:2014-07-09	Remarks: 42W

AAI Figure

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

Flux out:2146 lm



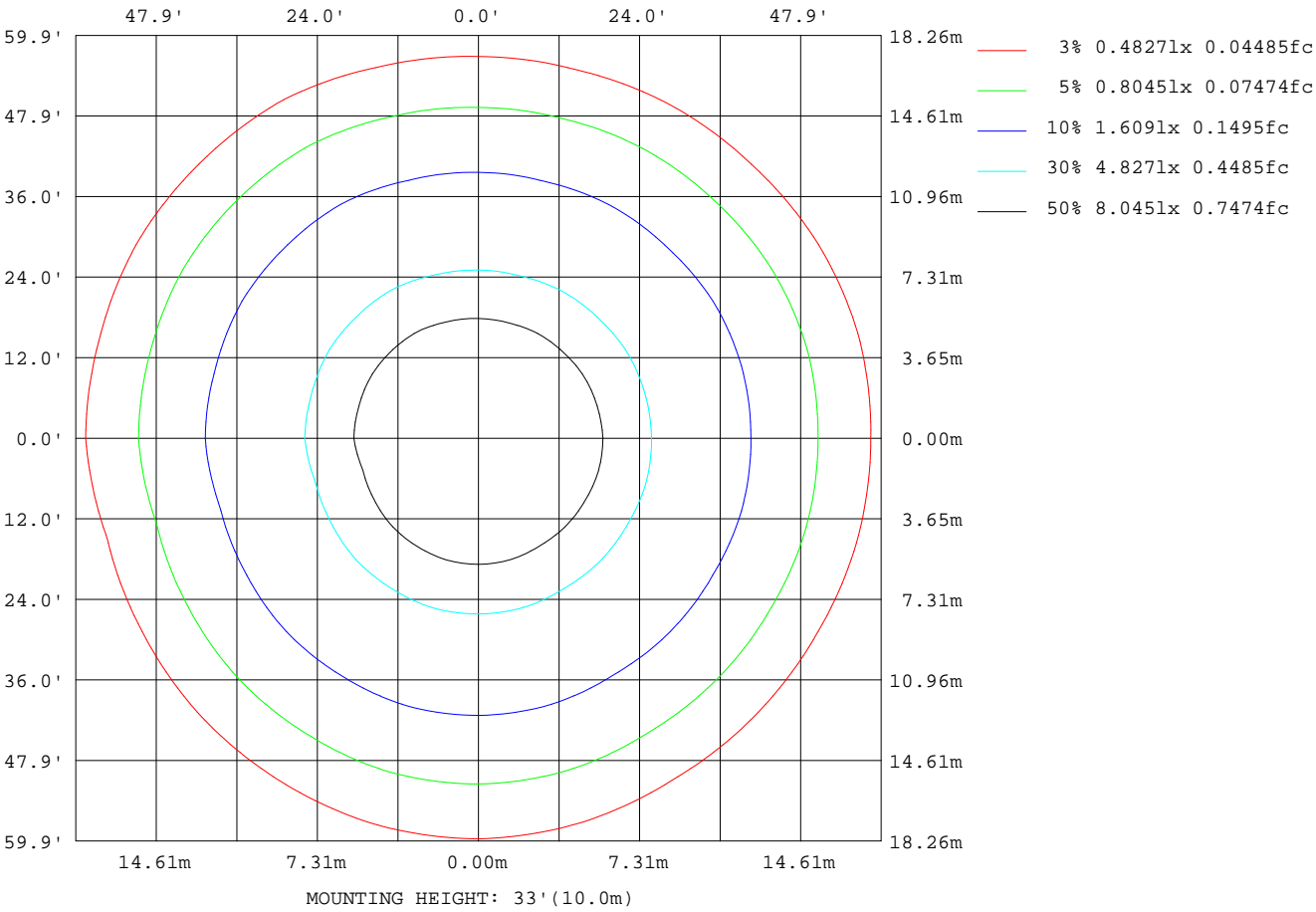
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QiuMing
Test Date: 2014-07-09

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: 42W

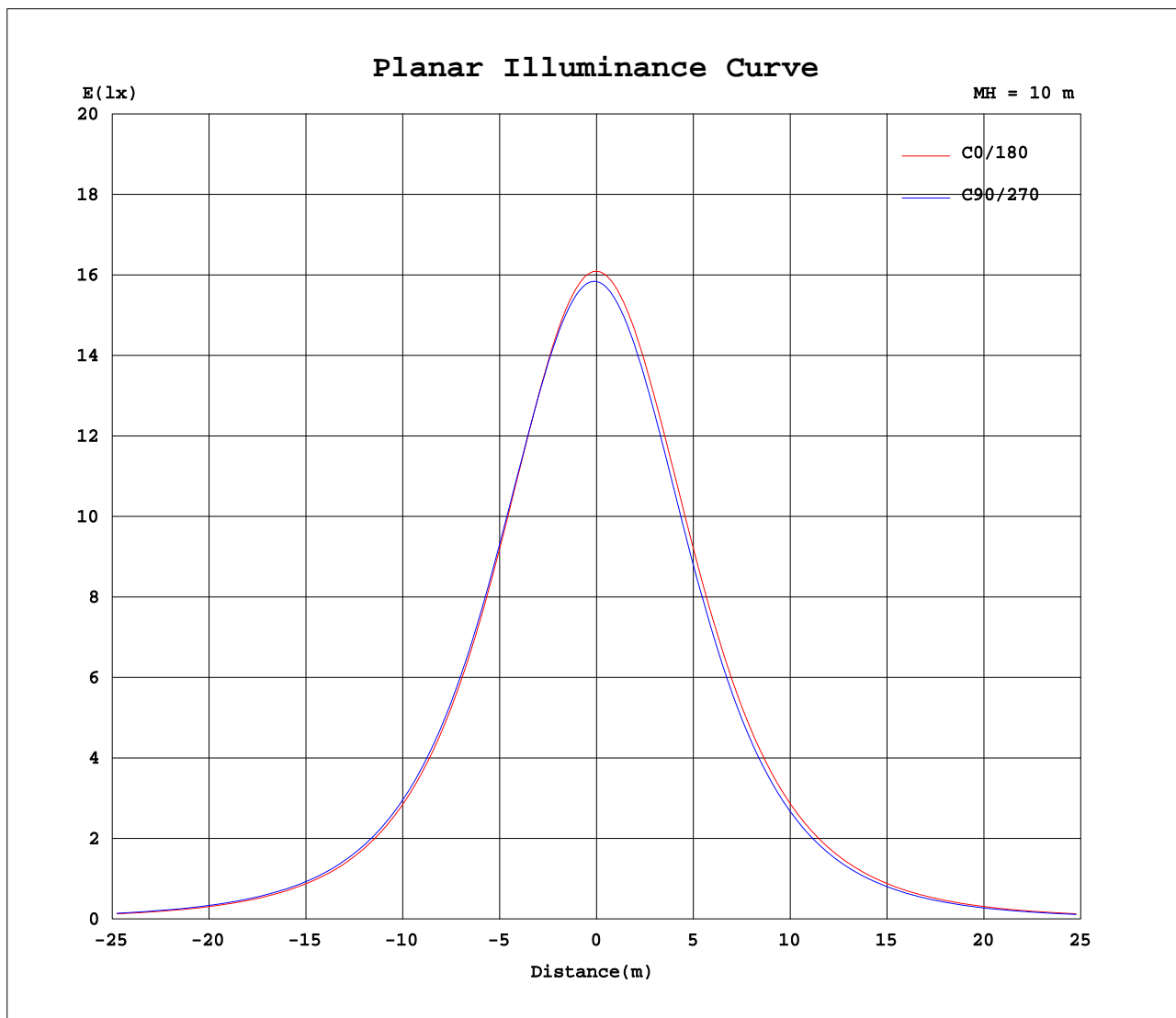
ISOLUX DIAGRAM

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



C Range: 0 - 360DEG	γ Range: 0 - 90DEG
C Interval: 15.0DEG	γ Interval: 1.0DEG
Test Speed: HIGH	Test System: EVERFINE GO-2000A_V1 SYSTEM V2.0.265
Temperature: 25.3DEG	Humidity: 65.0%
Operators: QiuMing	Test Distance: 6.050m [K=1.0000]
Test Date: 2014-07-09	Remarks: 42W

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 15.0DEG
Test Speed: HIGH
Temperature: 25.3DEG
Operators: QiuMing
Test Date: 2014-07-09

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: 42W

LUMINOUS DISTRIBUTION INTENSITY DATA

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: 42W

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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: 42W

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