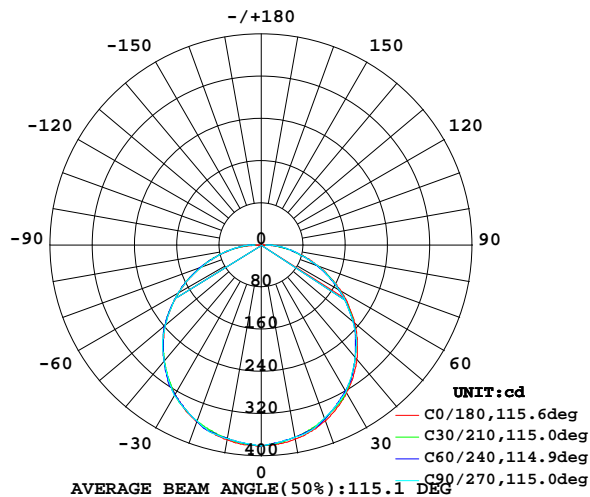


LUMINAIRE PHOTOMETRIC TEST REPORT

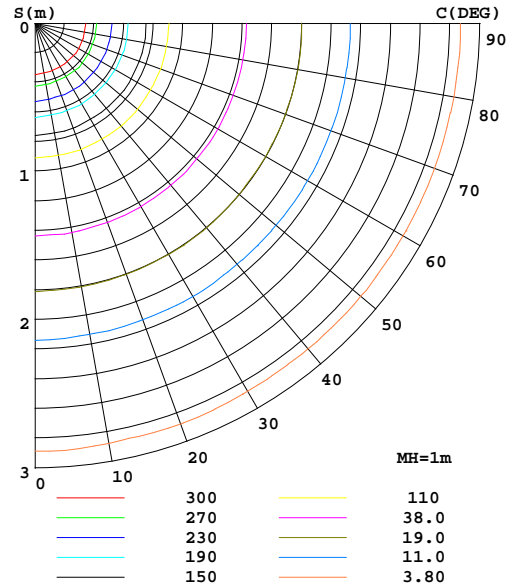
NAME: 87599WTBZ	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:150418005
MFR.: Maxim Lighting International Inc	SUR.:	PROTECTION ANGLE:

DATA OF LAMP		PHOTOMETRIC DATA				Eff: 76.13 lm/W
MODEL		I _{max} (cd)	381.0	S/MH(C0/180)	1.26	
NOMINAL POWER(W)	14	LOR(%)	81.6	S/MH(C90/270)	1.25	
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1142.0	h UP,DN(C0-180)	0.0,40.2	
NOMINAL FLUX(lm)	1400	CIE CLASS	DIRECT	h UP,DN(C180-360)	0.0,41.4	
LAMPS INSIDE	1	h up(%)	0.0	CIBSE SHR NOM	1.25	
TEST VOLTAGE(V)	120.5	h down(%)	81.6	CIBSE SHR MAX	1.35	

LUMINOUS INTENSITY DISTRIBUTION DIAGRAM



PLANAR ISOLUX DIAGRAM(UNIT:lx)



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:WCZ
Test Date:2015-04-18

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:6.120m [K=1.0000]
Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

g	C0	C45	C90	C135	C180	C225	C270	C315	g	F zone	F total	%lum,lamp
5	378.9	376.1	375.7	376.5	379.7	377.4	377.0	377.0	0- 5	9.049	9.049	0.79,0.65
10	374.2	369.7	370.3	370.6	375.3	372.4	372.9	371.6	5- 10	26.78	35.83	3.14,2.56
15	365.9	362.1	364.9	363.3	367.8	366.1	368.9	364.9	10- 15	43.69	79.52	6.96,5.68
20	354.7	353.0	350.6	354.4	357.2	358.0	355.8	356.8	15- 20	59.26	138.8	12.2,9.91
25	340.8	337.0	336.3	338.8	343.8	343.3	342.8	341.7	20- 25	72.75	211.5	18.5,15.1
30	324.0	319.0	321.9	321.2	327.4	326.4	329.7	324.3	25- 30	83.99	295.5	25.9,21.1
35	304.5	300.0	299.9	302.6	308.3	308.6	308.3	306.1	30- 35	92.59	388.1	34,27.7
40	282.5	279.5	277.8	282.5	286.9	289.1	286.9	286.3	35- 40	97.99	486.1	42.6,34.7
45	258.2	253.5	255.8	256.6	263.2	263.6	265.6	260.5	40- 45	100.3	586.5	51.4,41.9
50	231.9	227.4	227.7	230.6	237.4	237.9	237.5	234.7	45- 50	99.54	686.0	60.1,49
55	203.9	201.1	199.6	204.4	209.7	212.0	209.5	208.7	50- 55	95.31	781.3	68.4,55.8
60	174.5	170.5	171.4	174.0	180.6	181.6	181.5	177.6	55- 60	88.16	869.5	76.1,62.1
65	144.0	140.4	141.3	144.3	150.5	151.9	150.6	147.2	60- 65	78.38	947.8	83,67.7
70	113.4	110.8	111.2	114.7	119.7	121.9	119.7	116.9	65- 70	66.31	1014	88.8,72.4
75	83.36	81.60	81.08	85.14	89.50	91.63	88.74	86.73	70- 75	52.67	1067	93.4,76.2
80	55.40	54.01	57.20	56.82	60.89	62.64	63.51	58.19	75- 80	38.50	1105	96.8,79
85	28.19	31.49	33.32	31.94	28.51	37.34	38.28	34.61	80- 85	24.93	1130	99,80.7
90	2.747	9.229	9.448	7.228	3.046	12.28	13.06	11.32	85- 90	11.75	1142	100,81.6
95									90- 95			
100									95-100			
105									100-105			
110									105-110			
115									110-115			
120									115-120			
125									120-125			
130									125-130			
135									130-135			
140									135-140			
145									140-145			
150									145-150			
155									150-155			
160									155-160			
165									160-165			
170									165-170			
175									170-175			
180									175-180			
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

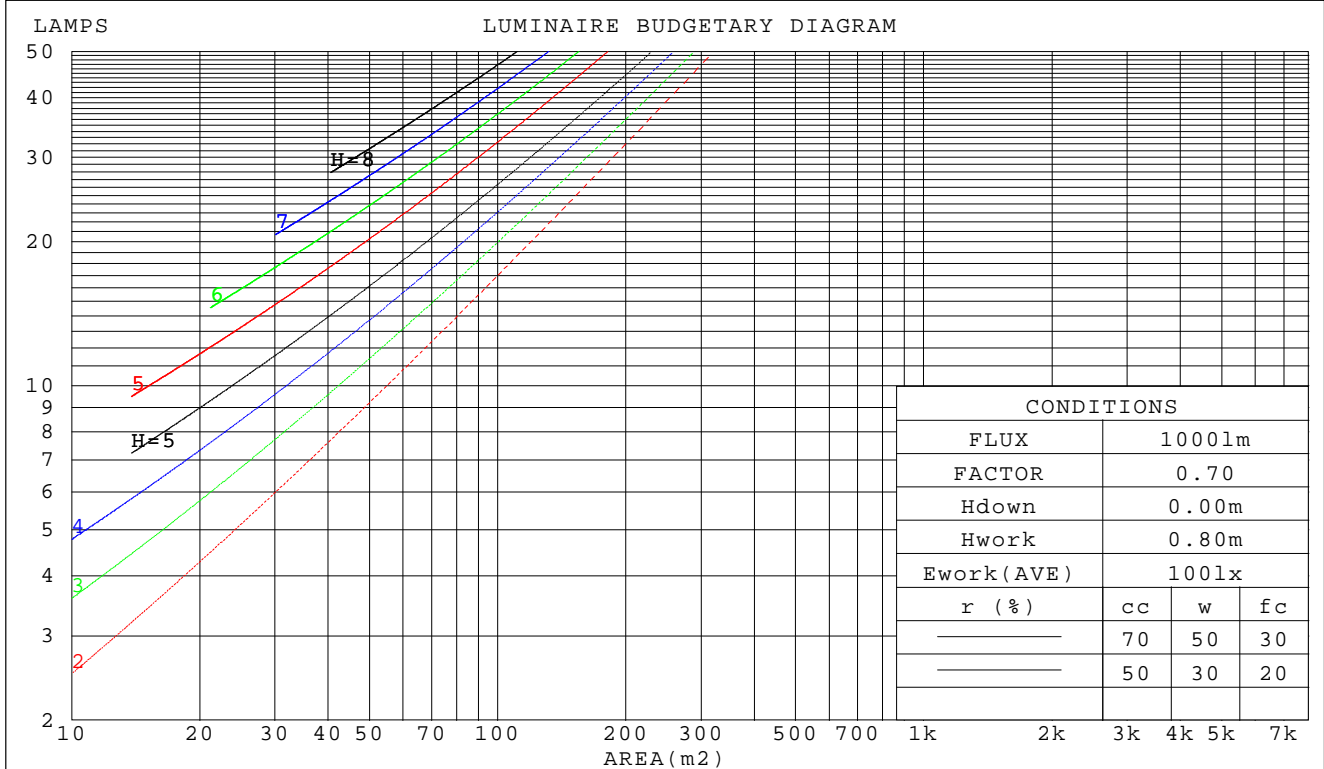
C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:30DEG
 Operators:WCZ
 Test Date:2015-04-18

g Range: 0 - 90DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:6.120m [K=1.0000]
 Remarks:

CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM

NAME: 87599WTBZ	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:150418005
MFR.: Maxim Lighting International Inc	SUR.:	PROTECTION 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															



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 30DEG
 Operators: WCZ
 Test Date: 2015-04-18

g Range: 0 - 90DEG
 g Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.275
 Humidity: 65.0%
 Test Distance: 6.120m [K=1.0000]
 Remarks:

WEC AND CCEC

NAME: 87599WTBZ	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:150418005
MFR.: Maxim Lighting International Inc	SUR.:	PROTECTION 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	.269 .153 .048	.263 .150 .048	.252 .145 .046	.242 .140 .045	.233 .135 .044	
2.0	.248 .136 .042	.243 .134 .041	.233 .130 .040	.224 .126 .039	.216 .122 .039	
3.0	.227 .121 .036	.223 .119 .036	.214 .116 .035	.206 .113 .035	.199 .110 .034	
4.0	.209 .108 .032	.205 .107 .032	.197 .104 .031	.190 .102 .031	.183 .100 .030	
5.0	.192 .098 .028	.188 .097 .028	.182 .095 .028	.175 .093 .028	.170 .091 .027	
6.0	.177 .089 .025	.174 .088 .025	.168 .086 .025	.163 .085 .025	.158 .083 .025	
7.0	.165 .081 .023	.162 .081 .023	.157 .079 .023	.152 .078 .023	.147 .076 .022	
8.0	.154 .075 .021	.151 .074 .021	.146 .073 .021	.142 .072 .021	.138 .071 .021	
9.0	.144 .070 .019	.141 .069 .019	.137 .068 .019	.133 .067 .019	.129 .066 .019	
10.0	.135 .065 .018	.133 .064 .018	.129 .063 .018	.125 .062 .018	.122 .061 .018	

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	.155 .155 .155	.133 .133 .133	.091 .091 .091	.052 .052 .052	.017 .017 .017	
1.0	.148 .127 .108	.127 .109 .093	.087 .075 .064	.050 .043 .037	.016 .014 .012	
2.0	.142 .108 .079	.121 .093 .068	.083 .064 .047	.048 .037 .028	.015 .012 .009	
3.0	.136 .093 .060	.116 .080 .052	.080 .056 .036	.046 .033 .021	.015 .011 .007	
4.0	.129 .082 .047	.111 .071 .041	.076 .050 .029	.044 .029 .017	.014 .009 .006	
5.0	.123 .074 .038	.106 .064 .033	.073 .045 .023	.042 .026 .014	.014 .009 .005	
6.0	.117 .067 .031	.101 .058 .027	.069 .041 .019	.040 .024 .012	.013 .008 .004	
7.0	.111 .062 .027	.096 .053 .023	.066 .037 .017	.038 .022 .010	.012 .007 .003	
8.0	.106 .057 .023	.091 .049 .020	.063 .035 .014	.037 .020 .009	.012 .007 .003	
9.0	.101 .053 .020	.087 .046 .018	.060 .032 .013	.035 .019 .008	.011 .006 .002	
10.0	.096 .049 .018	.083 .043 .016	.058 .030 .011	.034 .018 .007	.011 .006 .002	

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:30DEG
 Operators:WCZ
 Test Date:2015-04-18

g Range: 0 - 90DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:6.120m [K=1.0000]
 Remarks:

Uncorrected UGR Table

NAME: 87599WTBZ					TYPE:LED					WEIGHT:				
DIM.:					SPEC.:					SERIAL No.:150418005				
MFR.: Maxim Lighting International Inc					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					21.3	22.9	21.6	23.1	23.3	21.3	22.8	21.5	23.0	23.2
3H					23.0	24.4	23.3	24.6	24.9	22.9	24.3	23.2	24.6	24.8
4H					23.7	25.0	24.0	25.3	25.6	23.6	25.0	23.9	25.2	25.5
6H					24.2	25.5	24.6	25.8	26.1	24.2	25.5	24.5	25.8	26.1
8H					24.4	25.7	24.8	26.0	26.3	24.5	25.7	24.8	26.0	26.3
12H					24.6	25.8	24.9	26.1	26.4	24.7	25.9	25.1	26.2	26.5
4H 2H					22.0	23.3	22.3	23.6	23.8	21.9	23.3	22.2	23.5	23.8
3H					23.8	25.0	24.1	25.3	25.6	23.7	24.9	24.1	25.2	25.5
4H					24.6	25.7	25.0	26.1	26.4	24.6	25.7	24.9	26.0	26.3
6H					25.3	26.3	25.7	26.7	27.0	25.3	26.3	25.7	26.7	27.0
8H					25.6	26.5	26.0	26.9	27.3	25.7	26.6	26.1	27.0	27.3
12H					25.8	26.6	26.2	27.0	27.4	26.0	26.8	26.4	27.2	27.6
8H 4H					24.9	25.9	25.3	26.2	26.6	24.9	25.8	25.3	26.2	26.6
6H					25.8	26.6	26.3	27.0	27.4	25.8	26.6	26.3	27.0	27.4
8H					26.2	26.9	26.7	27.3	27.8	26.3	27.0	26.8	27.4	27.9
12H					26.5	27.1	27.0	27.6	28.0	26.8	27.3	27.2	27.8	28.3
12H 4H					25.0	25.8	25.4	26.2	26.6	24.9	25.8	25.3	26.1	26.5
6H					25.9	26.6	26.4	27.0	27.5	25.9	26.6	26.4	27.0	27.5
8H					26.4	27.0	26.8	27.4	27.9	26.5	27.1	26.9	27.5	28.0
Variations with the observer position at spacings:														
S = 1.0H					+ 0.1 / - 0.2					+ 0.1 / - 0.2				
1.5H					+ 0.2 / - 0.3					+ 0.2 / - 0.3				
2.0H					+ 0.1 / - 0.2					+ 0.1 / - 0.3				

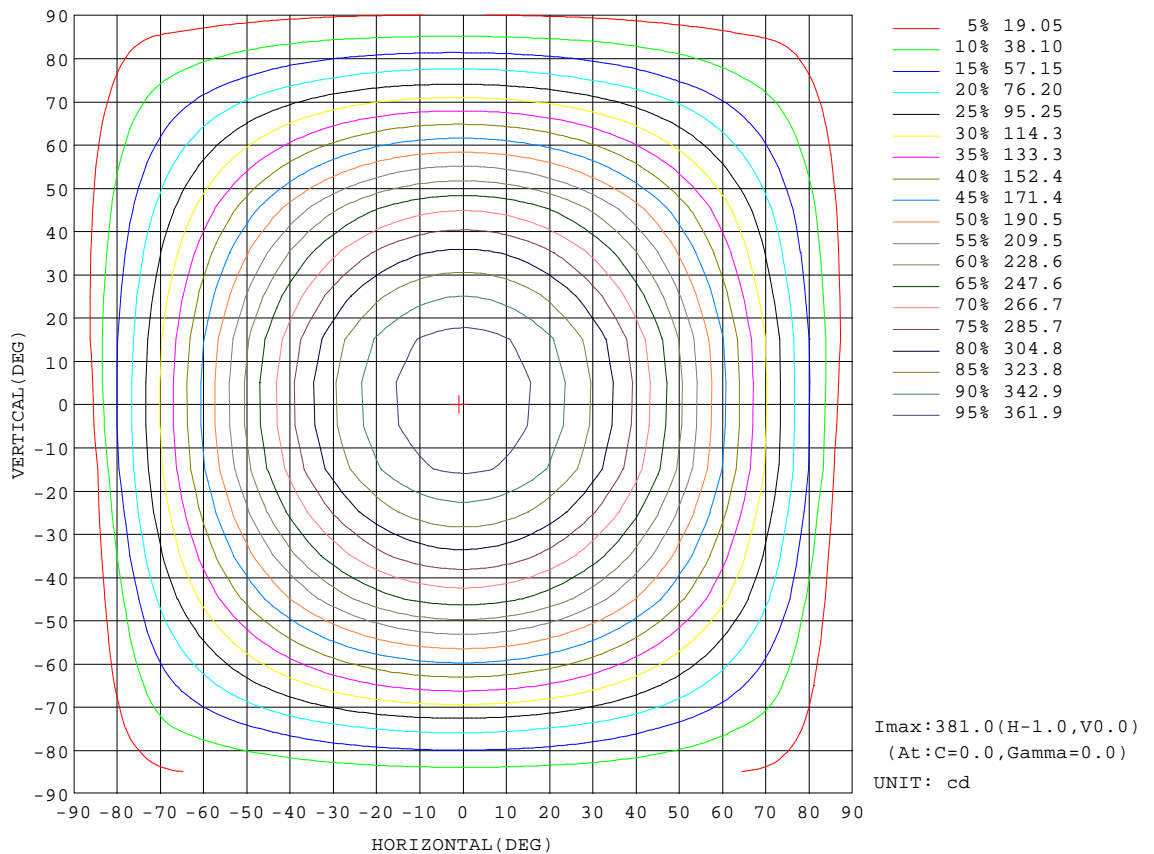
CIE Pub.117 Corrected 1400 lm Total Lamp Luminous Flux.(8log(F/F0) = 1.2)

C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature:30DEG
 Operators:WCZ
 Test Date:2015-04-18

g Range: 0 - 90DEG
 g Interval: 0.5DEG
 Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
 Humidity:65.0%
 Test Distance:6.120m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

NAME: 87599WTBZ	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:150418005
MFR.: Maxim Lighting International Inc	SUR.:	PROTECTION ANGLE:

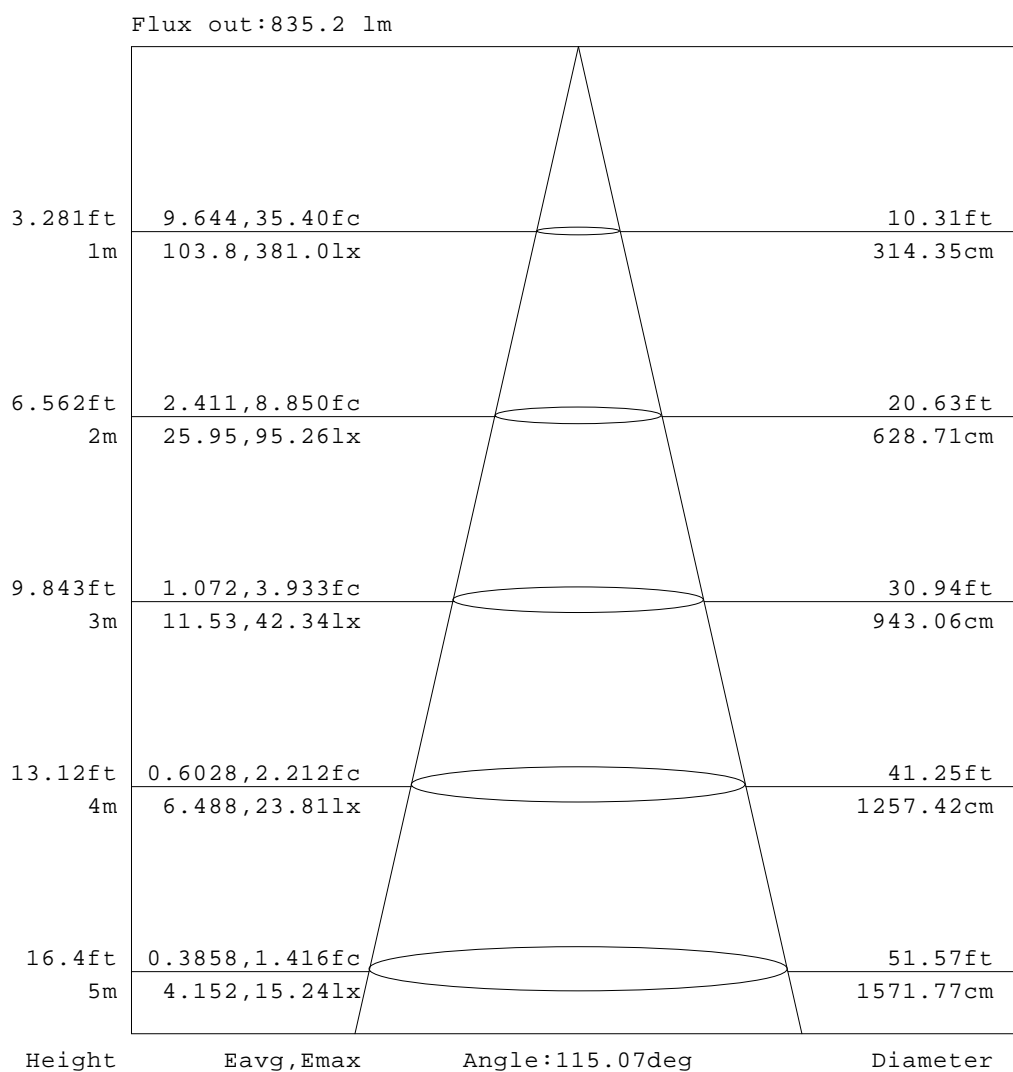


C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:WCZ
Test Date:2015-04-18

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:6.120m [K=1.0000]
Remarks:

AAI Figure

NAME: 87599WTBZ	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:150418005
MFR.: Maxim Lighting International Inc	SUR.:	PROTECTION ANGLE:



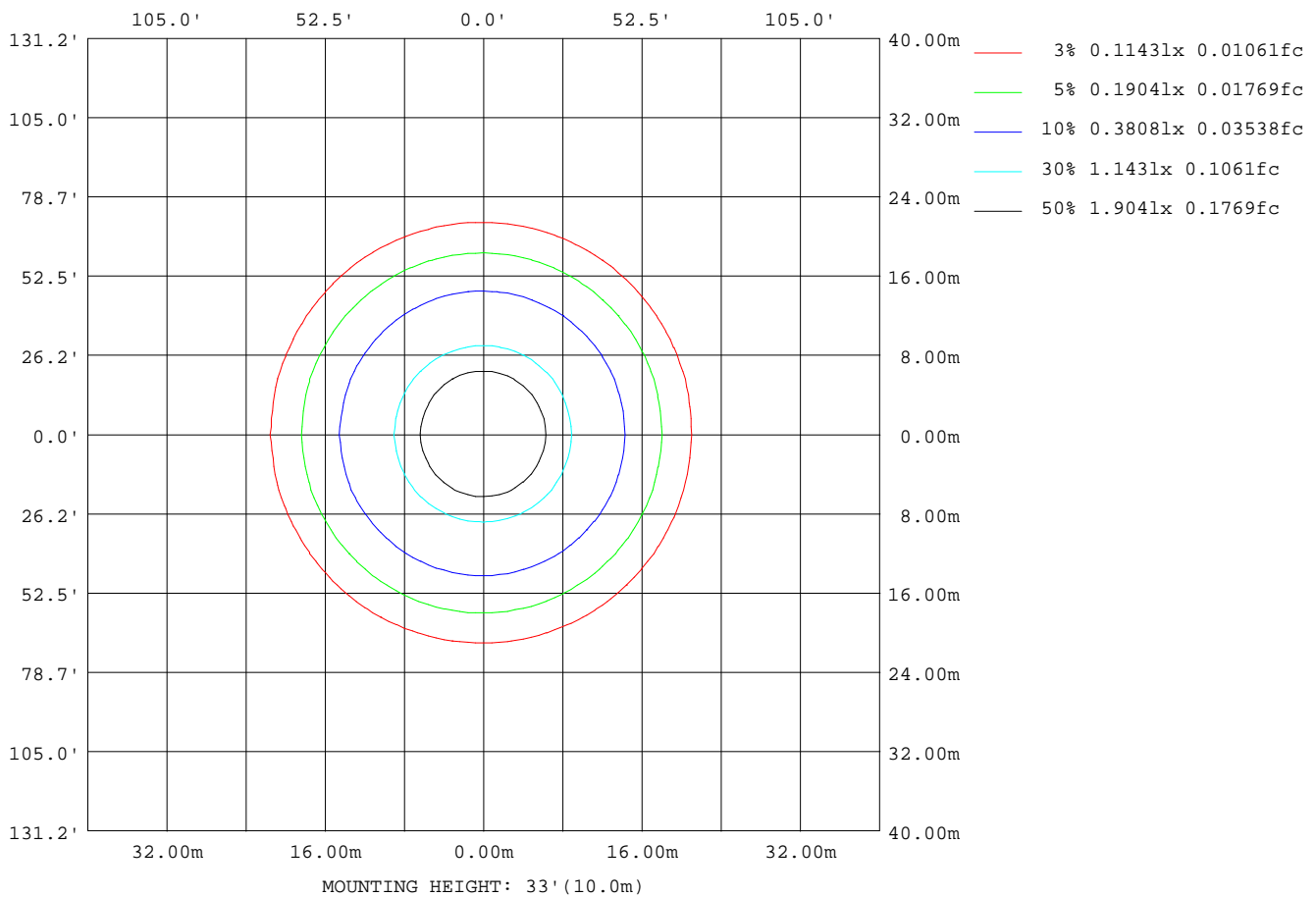
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:WCZ
Test Date:2015-04-18

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:6.120m [K=1.0000]
Remarks:

ISOLUX DIAGRAM

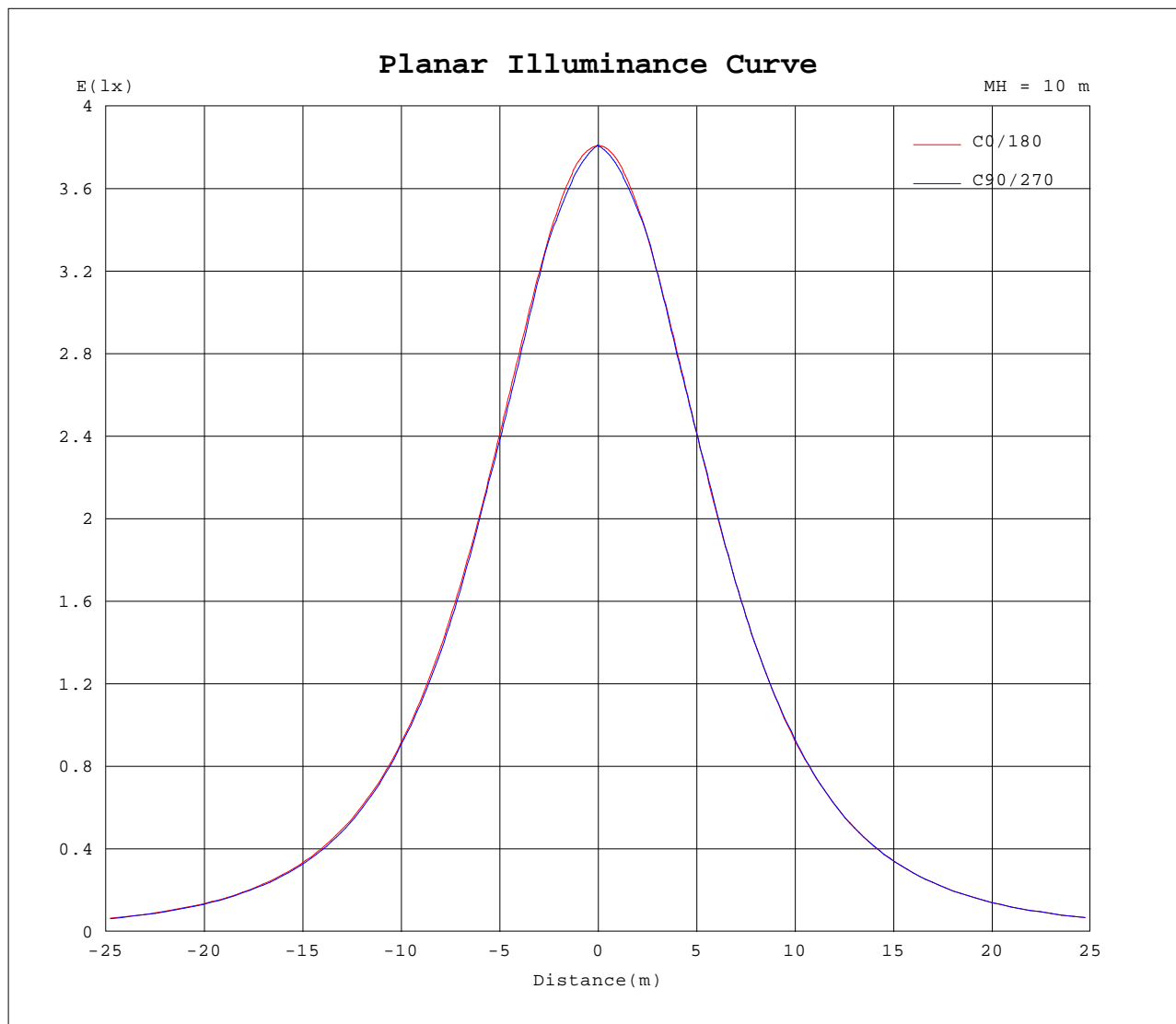
NAME: 87599WTBZ	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:150418005
MFR.: Maxim Lighting International Inc	SUR.:	PROTECTION ANGLE:



C Range: 0 - 360DEG
 C Interval: 5.0DEG
 Test Speed: HIGH
 Temperature: 30DEG
 Operators: WCZ
 Test Date: 2015-04-18

g Range: 0 - 90DEG
 g Interval: 0.5DEG
 Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.275
 Humidity: 65.0%
 Test Distance: 6.120m [K=1.0000]
 Remarks:

Planar Illuminance Curve



C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 30DEG
Operators: WCZ
Test Date: 2015-04-18

g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System: EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity: 65.0%
Test Distance: 6.120m [K=1.0000]
Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 87599WTBZ	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:150418005
MFR.: Maxim Lighting International Inc	SUR.:	PROTECTION ANGLE:

Table--1

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature: 30DEG
Operators: WCZ
Test Date: 2015-04-18

```
g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:6.120m [K=1.0000]
Remarks:
```


LUMINOUS DISTRIBUTION INTENSITY DATA

NAME: 87599WTBZ	TYPE:LED	WEIGHT:
DIM.:	SPEC.:	SERIAL No.:150418005
MFR.: Maxim Lighting International Inc	SUR.:	PROTECTION ANGLE:

Table--3

UNIT: cd

[illegible]

C Range: 0 - 360DEG
C Interval: 5.0DEG
Test Speed: HIGH
Temperature:30DEG
Operators:WCZ
Test Date:2015-04-18

```
g Range: 0 - 90DEG
g Interval: 0.5DEG
Test System:EVERFINE GO-2000B_V1 SYSTEM V2.0.275
Humidity:65.0%
Test Distance:6.120m [K=1.0000]
Remarks:
```

