

Spectrum Test Report

Sample :
 Specification : A19-13-E26-827-DIM
 Sample No. : A1719920A001
 Manufacturer : RAB LIGHTING INC

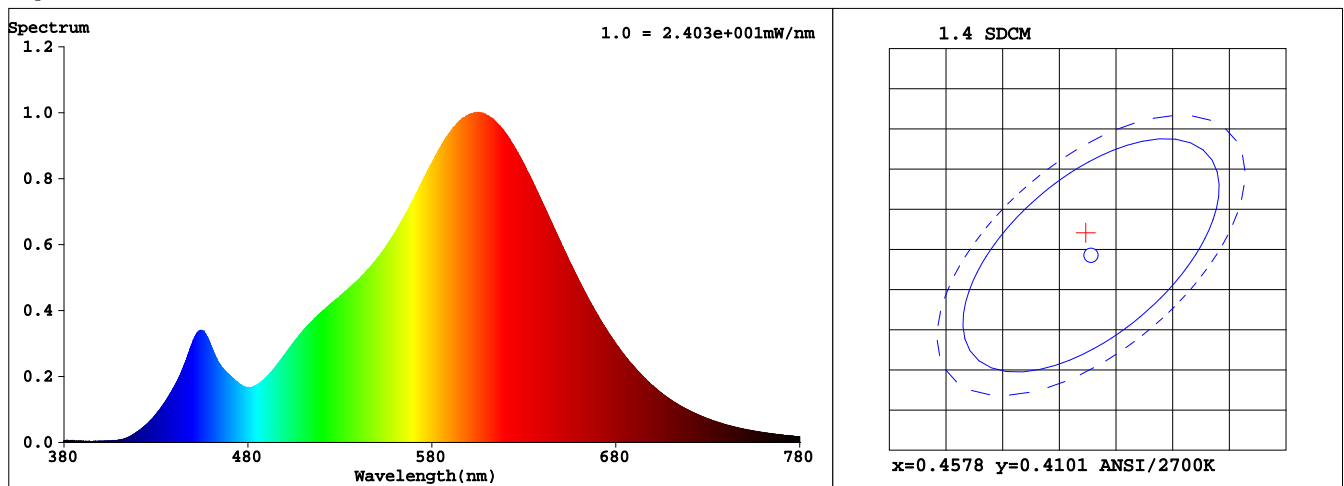
Date : 2017-12-13 17:11:45
 Sam. Status :
 Instrument : HaasSuite(EVERFINE)
 Test by : 陈庆玲
 Assessor : damin

Test Condition

Temperature : 24.4Deg
 WL Range : 380nm-780nm
 Test Mode : Fast Test

RH : 50%
 IP : 52521 (80%)
 T : 84 ms
 Delicacy : High

Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

Colorimetric Parameters

Chromaticity Coordinate: $x = 0.4574$ $y = 0.4123$ / $u' = 0.2601$ $v' = 0.5276$ ($duv=8.59e-04$)

CCT= 2748K Prcp WL: Ld=583.7nm Purity=61.1%

Peak WL: Lp=604nm FWHM: =117.7nm Ratio:R=24.4% G=73.4% B=2.2%

Render Index: Ra = 81.1

R1 =79 R2 =90 R3 =96 R4 =78 R5 =79 R6 =89 R7 =81

R8 =56 R9 =2 R10=79 R11=77 R12=73 R13=82 R14=98 R15=71

LEVEL:OUT WHITE:ANSI_2700K

Photometric & Radiometric Parameters

Flux = 1135.2 lm Eff. : 85.42 lm/W Fe = 3.4842 W

Flux of emitted photons(umol/s):17.108 Fluo. and blue light ratio:11.06 Fluorescent eff.:185.7

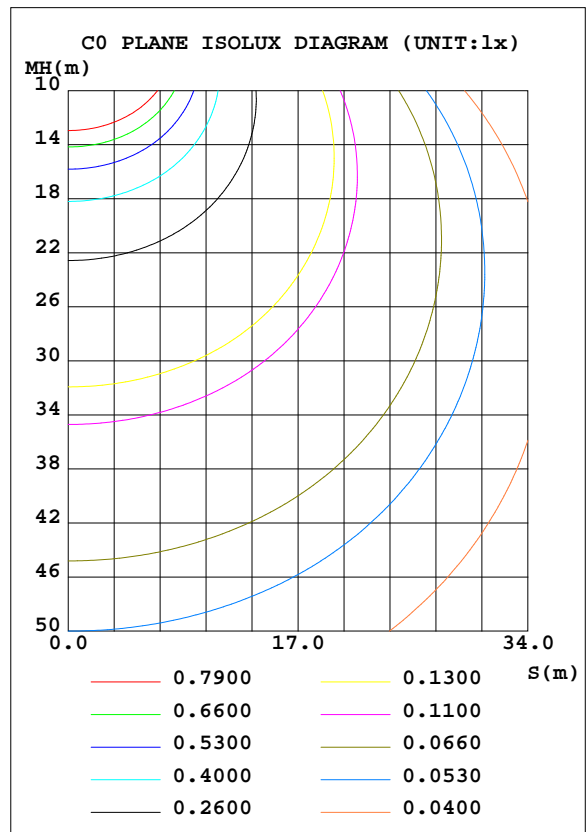
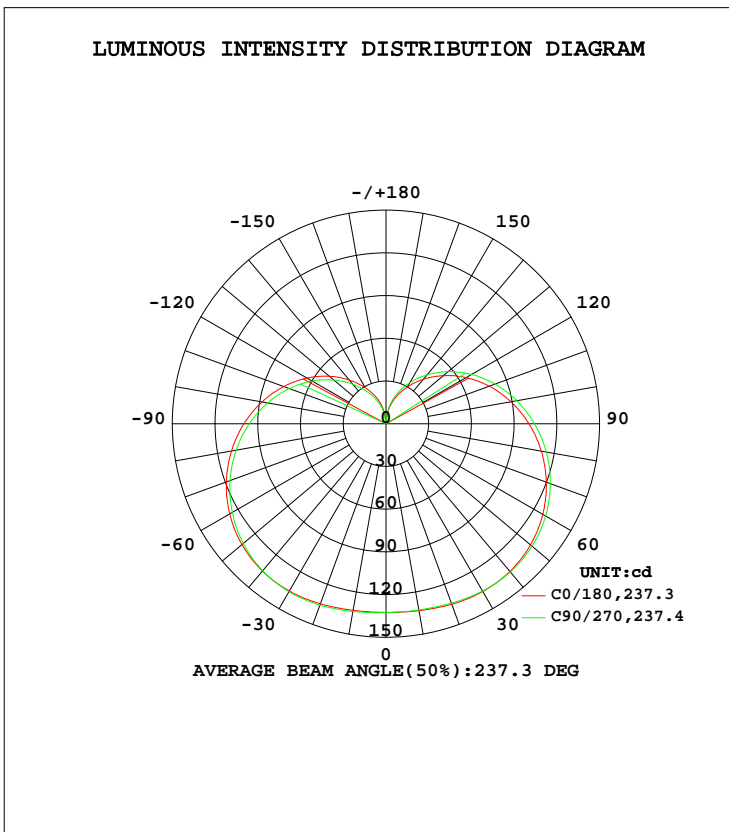
Electrical parameters

V = 119.9 V I = 0.1435 A P = 13.29 W PF = 0.7723

LUMINAIRE PHOTOMETRIC TEST REPORT

NAME: A19-13-E26-827-DIM	TYPE:LED	WEIGHT:
SPEC.:120V/13W/1100LM	DIM.:	SERIAL No.:A1719920A001
MFR.: RAB LIGHTING INC	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 87.60 lm/W			
MODEL		I _{max} (cd)	136.2	S/MH(C0/180)	1.57
NOMINAL POWER(W)	13	LOR(%)	100.0	S/MH(C90/270)	1.56
RATED VOLTAGE(V)	120	TOTAL FLUX(lm)	1166.1	η UP, DN(C0-180)	17.3, 33.7
NOMINAL FLUX(lm)	1166.11	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	16.0, 33.1
LAMPS INSIDE	1	η up(%)	33.3	CIBSE SHR NOM	1.75
TEST VOLTAGE(V)	120	η down(%)	66.7	CIBSE SHR MAX	1.75



C Range: 0 - 360DEG
 C Interval: 90.0DEG
 Test Speed: HIGH
 Temperature:25.3DEG
 Operators:陈庆玲
 Test Date:2017-12-13

γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.363T
 Humidity:40%
 Test Distance:5.060m [K=1.0000]
 Remarks:

ZONAL FLUX DIAGRAM

ZONAL FLUX DIAGRAM:

γ	C0	C90	C180	C270				γ	Φ zone	Φ total	%lum, lamp
10	133.3	132.8	133.0	133.8				0- 10	12.69	12.69	1.09,1.09
20	134.9	134.1	134.6	135.6				10- 20	38.00	50.68	4.35,4.35
30	136.0	135.6	135.7	136.2				20- 30	62.71	113.4	9.72,9.72
40	135.4	135.8	135.1	134.7				30- 40	85.27	198.7	17,17
50	132.4	133.8	132.0	130.8				40- 50	103.7	302.4	25.9,25.9
60	127.2	129.5	126.7	124.7				50- 60	116.4	418.8	35.9,35.9
70	119.8	122.8	119.3	116.5				60- 70	122.5	541.3	46.4,46.4
80	110.7	114.3	110.2	106.8				70- 80	121.8	663.1	56.9,56.9
90	100.4	104.3	99.70	96.01				80- 90	115.0	778.1	66.7,66.7
100	89.14	93.39	88.39	84.50				90-100	103.2	881.2	75.6,75.6
110	77.21	81.57	76.47	72.38				100-110	87.77	969.0	83.1,83.1
120	64.92	69.35	64.21	60.03				110-120	70.34	1039	89.1,89.1
130	52.61	56.99	51.96	47.85				120-130	52.57	1092	93.6,93.6
140	40.81	44.85	40.13	36.24				130-140	36.06	1128	96.7,96.7
150	29.80	33.35	29.20	25.70				140-150	22.08	1150	98.6,98.6
160	19.73	22.23	19.55	16.43				150-160	11.46	1162	99.6,99.6
170	8.785	11.05	9.058	5.996				160-170	4.227	1166	100,100
180	0.2331	0.2239	0.2239	0.2269				170-180	0.3539	1166	100,100
DEG	LUMINOUS INTENSITY:cd								UNIT:lm		

Conical surface Flux(90deg): 248.54 lm

%lum = 21.3%
 %lamp = 21.3%

Conical surface Flux(120deg): 418.79 lm

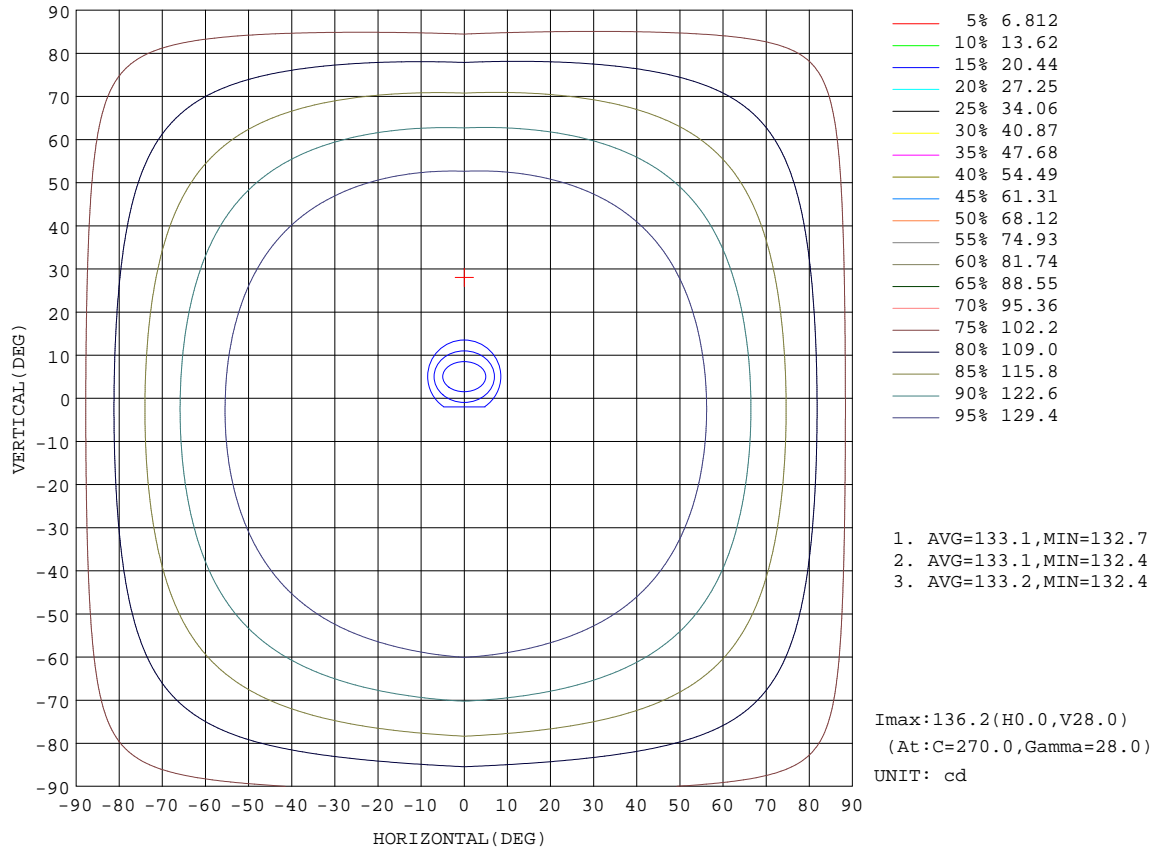
%lum = 35.9%
 %lamp = 35.9%

C Range: 0 - 360DEG
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γ Range: 0 - 180DEG
 γ Interval: 1.0DEG
 Test System:EVERFINE GO-SPEX500_V1 SYSTEM V2.0.363T
 Humidity:40%
 Test Distance:5.060m [K=1.0000]
 Remarks:

ISOCANDELA DIAGRAM

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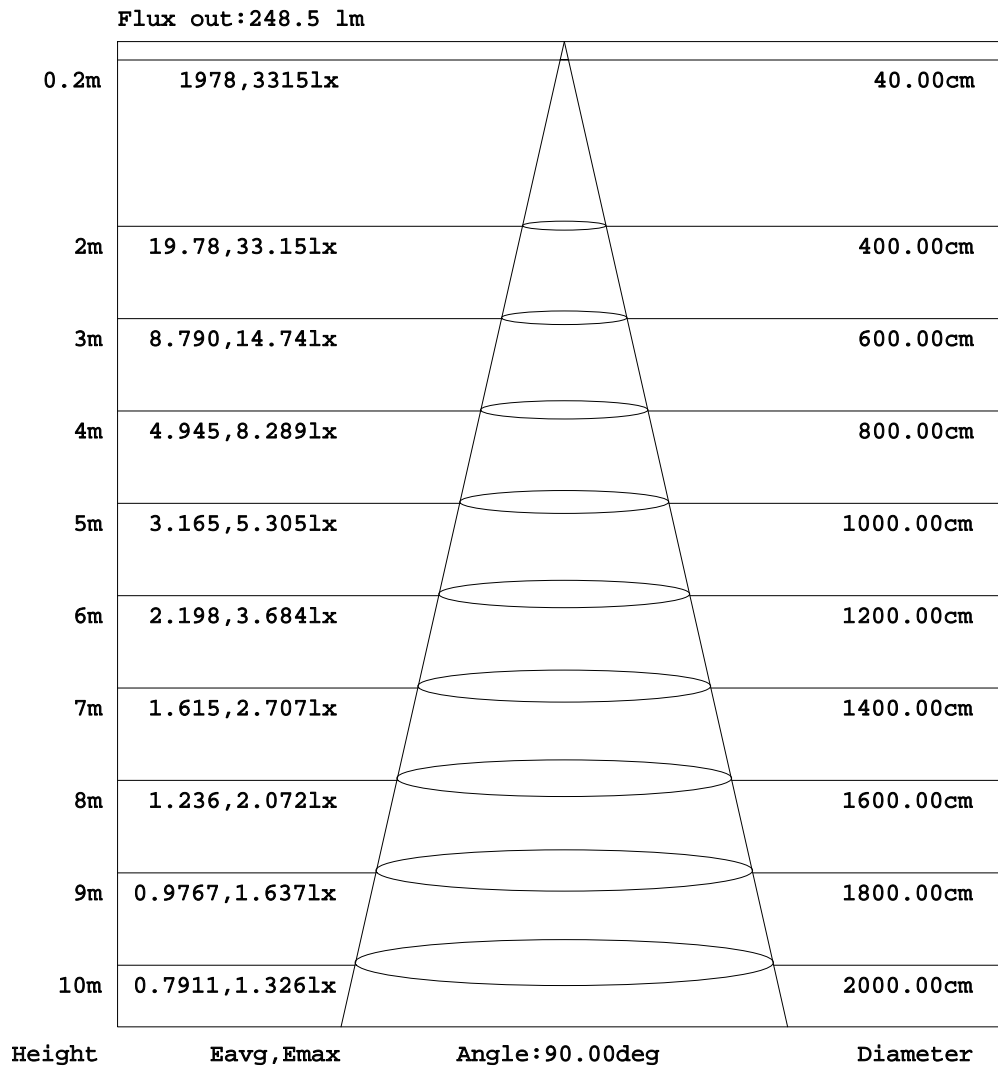


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AAI Figure

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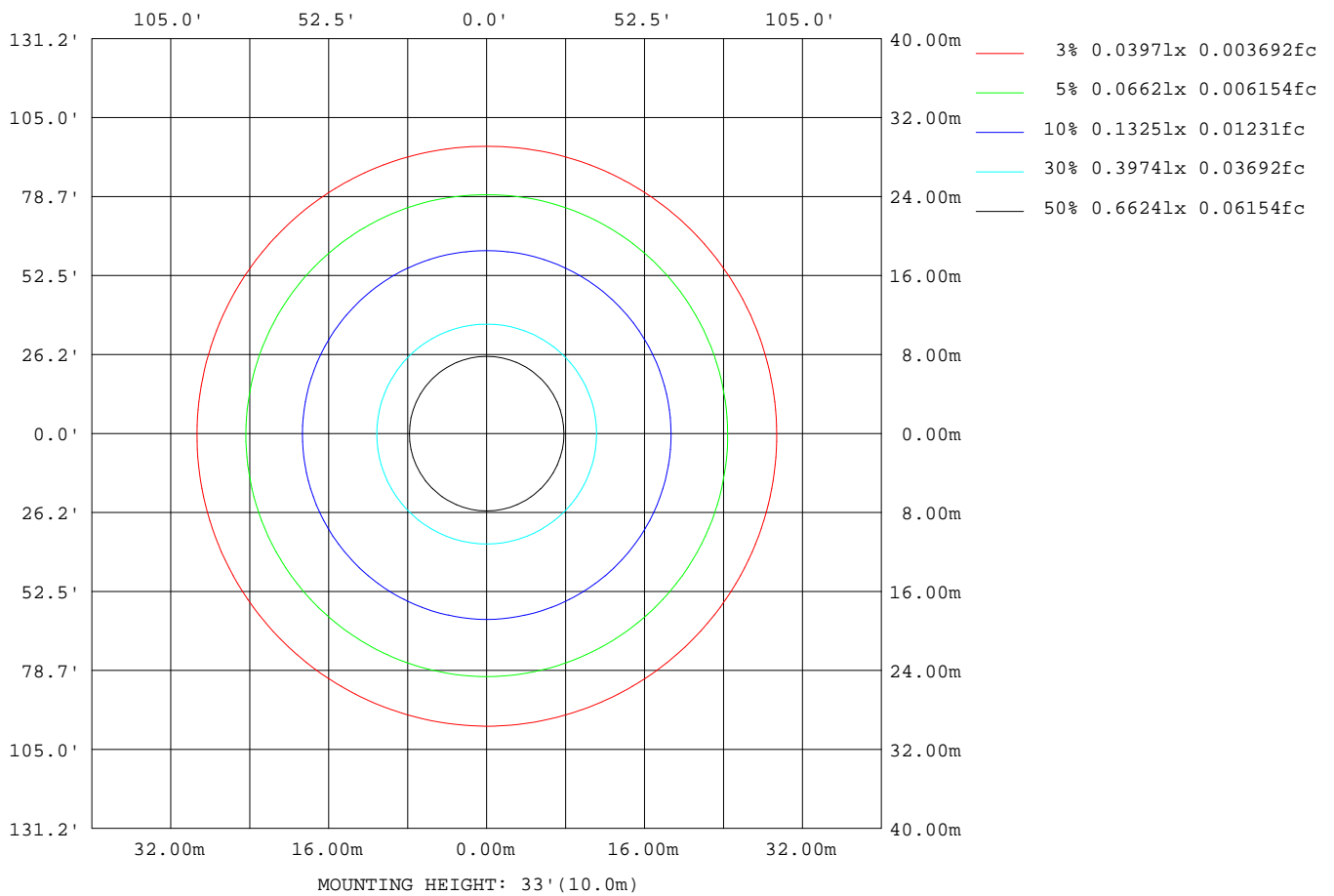
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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ISOLUX DIAGRAM

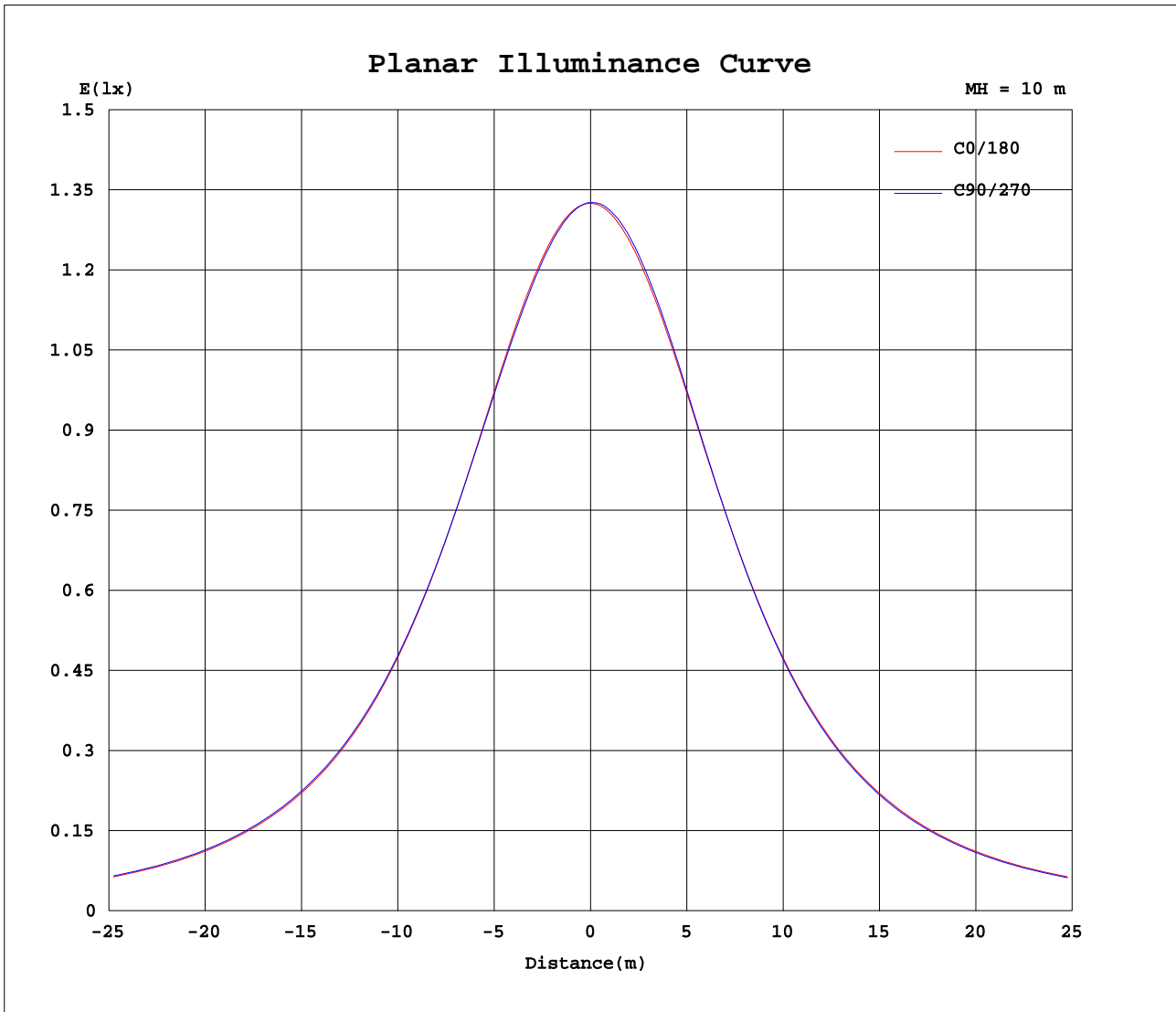
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Planar Illuminance Curve



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 Remarks:

LUMINOUS DISTRIBUTION INTENSITY DATA

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Table--1

UNIT: cd

C(DEG) γ (DEG)	0	90	180	270															
0	132	133	132	133															
5	133	133	133	133															
10	133	133	133	134															
15	134	133	134	135															
20	135	134	135	136															
25	136	135	135	136															
30	136	136	136	136															
35	136	136	136	136															
40	135	136	135	135															
45	134	135	134	133															
50	132	134	132	131															
55	130	132	130	128															
60	127	129	127	125															
65	124	126	123	121															
70	120	123	119	116															
75	115	119	115	112															
80	111	114	110	107															
85	106	109	105	102															
90	100	104	99.7	96.0															
95	94.9	98.9	94.2	90.4															
100	89.1	93.4	88.4	84.5															
105	83.2	87.5	82.5	78.5															
110	77.2	81.6	76.5	72.4															
115	71.1	75.5	70.4	66.2															
120	64.9	69.4	64.2	60.0															
125	58.8	63.2	58.1	53.9															
130	52.6	57.0	52.0	47.9															
135	46.7	50.9	46.0	42.0															
140	40.8	44.8	40.1	36.2															
145	35.2	39.0	34.5	30.8															
150	29.8	33.3	29.2	25.7															
155	24.7	27.8	24.2	21.0															
160	19.7	22.2	19.6	16.4															
165	14.6	16.7	14.8	11.7															
170	8.78	11.0	9.06	6.00															
175	0.24	0.23	0.19	0.20															
180	0.23	0.22	0.22	0.23															

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