

## Spectrum Test Report

Sample : A19-15-E26-850-DIM  
 Specification : 120V/15.5W/1600lm  
 Sample No. :  
 Manufacturer : RAB LIGHTING INC

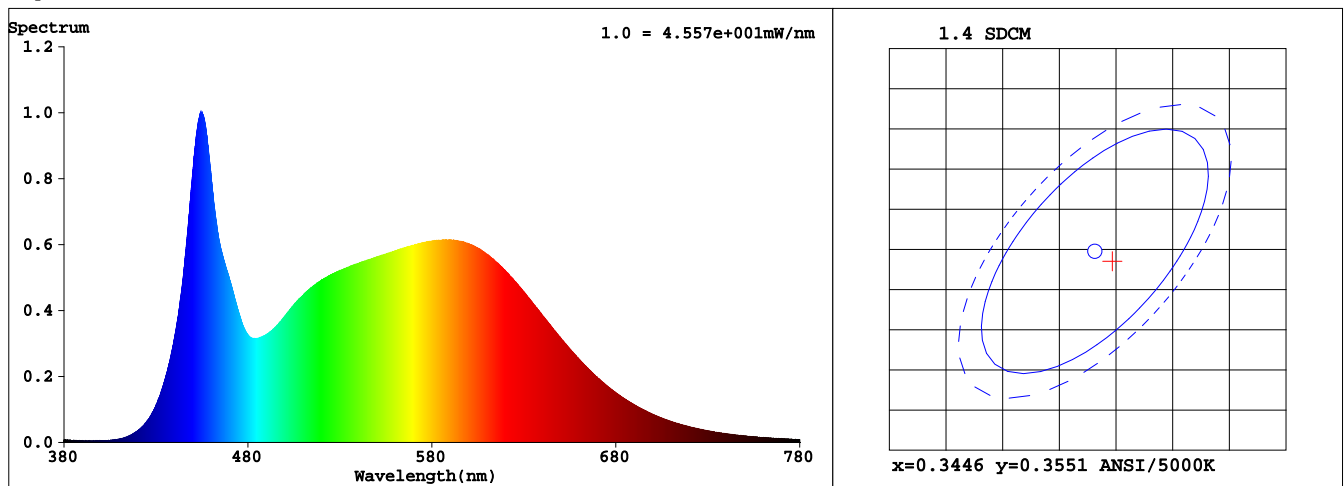
Date : 2017-05-29 14:02:29  
 Sam. Status :  
 Instrument : HaasSuite(EVERFINE)  
 Test by :  
 Assessor : damin

### Test Condition

Temperature : 25.1Deg  
 WL Range : 380nm-780nm  
 Test Mode : Fast Test

RH : 41%  
 IP : 49542 (76%)  
 T : 67 ms  
 Delicacy : High

### Spectrum



Spectral Distribution

CIE1931 Chromaticity Diagram

### Colorimetric Parameters

Chromaticity Coordinate:  $x = 0.3459$   $y = 0.3541$  /  $u' = 0.2110$   $v' = 0.4860$  ( $duv=9.18e-04$ )

CCT= 4976K Prcp WL: Ld=572.1nm Purity=10.0%

Peak WL: Lp=455nm FWHM: =24.9nm Ratio:R=16.3% G=78.5% B=5.2%

Render Index: Ra = 86.1

R1 =85 R2 =93 R3 =96 R4 =83 R5 =84 R6 =88 R7 =88

R8 =71 R9 =24 R10=82 R11=82 R12=61 R13=88 R14=98 R15=81

LEVEL:OUT WHITE:ANSI\_5000K

### Photometric & Radiometric Parameters

Flux = 1779.6 lm Eff. : 124.02 lm/W Fe = 5.6772 W

Flux of emitted photons(umol/s):26.218 Fluo. and blue light ratio:3.305 Fluorescent eff.:300.8

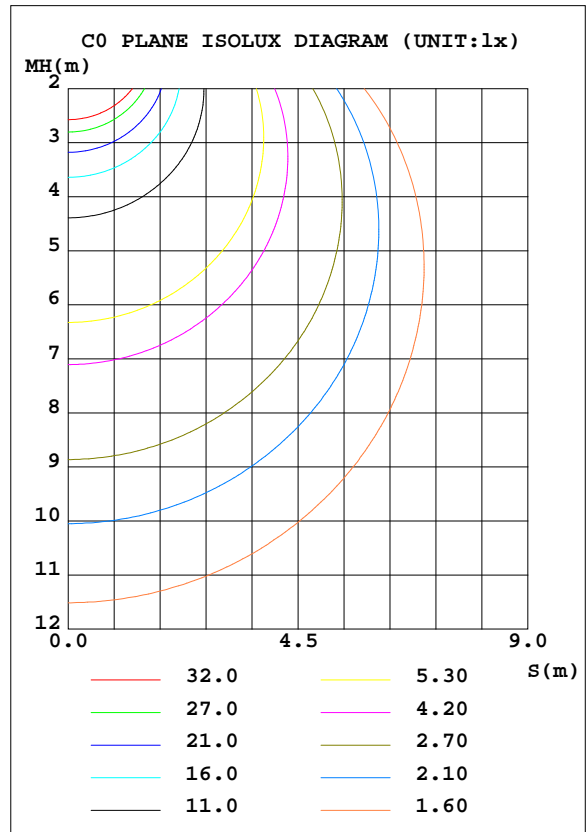
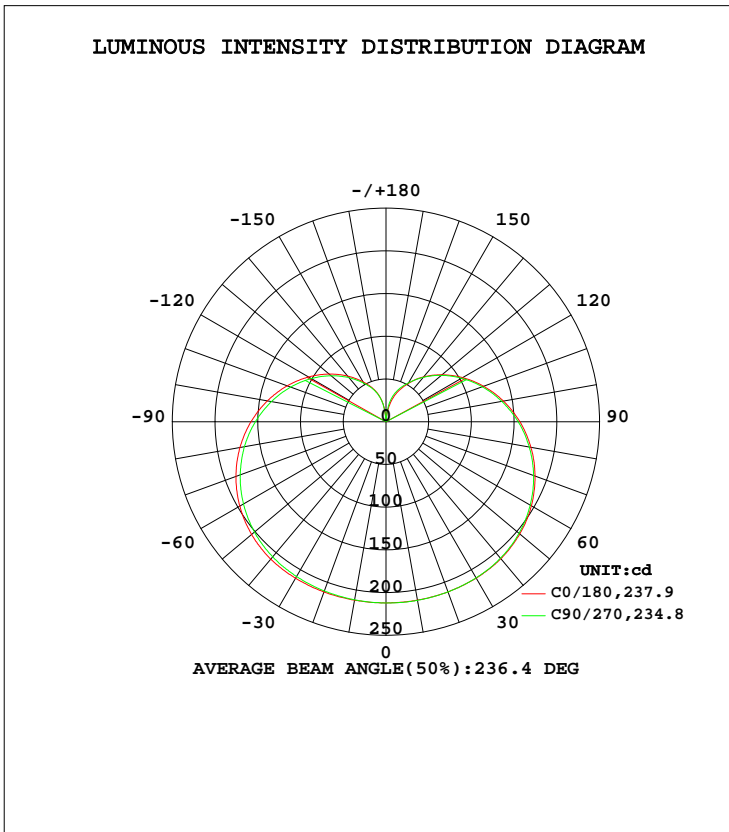
### Electrical parameters

V = 119.9 V I = 0.1208 A P = 14.35 W PF = 0.9902

LUMINAIRE PHOTOMETRIC TEST REPORT

Test:U:120.0V I:0.1216A P:14.47W PF:0.9918 Freq:60.01Hz Lamp Flux:1826.44x1 lm		
NAME: A19-15-E26-850-DIM	TYPE:1	WEIGHT:
SPEC.:120V/15.5W/1600lm	DIM.:	SERIAL No.:A1707452A001
MFR.: RAB LIGHTING INC	SUR.:	Shielding Angle:

DATA OF LAMP		PHOTOMETRIC DATA Eff: 126.24 lm/W			
MODEL		I <sub>max</sub> (cd)	212.8	S/MH(C0/180)	1.52
NOMINAL POWER(W)		LOR(%)	100.0	S/MH(C90/270)	1.51
RATED VOLTAGE(V)		TOTAL FLUX(lm)	1826.4	η UP, DN(C0-180)	17.1,33.0
NOMINAL FLUX(lm)	1826.44	CIE CLASS	SEMI-D.	η UP, DN(C180-360)	17.0,32.9
LAMPS INSIDE	1	η up(%)	34.1	CIBSE SHR NOM	1.75
TEST VOLTAGE(V)		η down(%)	65.9	CIBSE SHR MAX	1.75



C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:GWQ  
 Test Date:2017-05-23

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.363T  
 Humidity:47.2%  
 Test Distance:1.503m [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	212.0	211.9	212.3	212.8	212.1	211.4	211.6	211.8	0- 10	20.23	20.23	1.11,1.11
20	211.9	211.9	212.0	212.6	212.1	210.8	210.7	211.2	10- 20	60.03	80.26	4.39,4.39
30	211.3	211.3	210.9	211.9	211.6	209.7	209.4	210.3	20- 30	97.75	178.0	9.75,9.75
40	209.1	208.6	208.5	209.7	209.8	207.4	206.4	207.9	30- 40	131.7	309.8	17,17
50	204.4	203.2	203.3	204.8	205.3	202.5	200.9	202.9	40- 50	159.6	469.4	25.7,25.7
60	196.5	194.9	194.9	196.9	197.6	194.3	192.6	195.2	50- 60	179.0	648.4	35.5,35.5
70	185.5	183.7	183.8	186.0	186.9	183.4	181.6	184.2	60- 70	188.7	837.1	45.8,45.8
80	172.2	170.3	170.2	172.7	173.5	170.0	168.3	170.8	70- 80	188.1	1025	56.1,56.1
90	156.8	155.0	154.8	157.3	158.0	154.7	152.9	155.3	80- 90	178.3	1204	65.9,65.9
100	139.6	138.2	137.7	140.1	141.0	137.9	136.2	138.4	90-100	160.6	1364	74.7,74.7
110	121.6	120.3	119.9	122.2	123.1	120.4	118.8	120.7	100-110	137.4	1501	82.2,82.2
120	103.5	102.4	102.1	103.9	104.9	102.6	101.2	102.8	110-120	111.2	1613	88.3,88.3
130	85.68	84.77	84.57	86.15	87.03	85.04	83.85	85.19	120-130	84.55	1697	92.9,92.9
140	68.66	68.01	67.91	69.13	69.88	68.42	67.46	68.42	130-140	59.66	1757	96.2,96.2
150	51.47	52.71	52.63	53.51	54.12	53.17	52.29	52.87	140-150	38.27	1795	98.3,98.3
160	35.39	37.98	38.92	39.45	39.81	39.53	38.85	38.99	150-160	21.43	1817	99.5,99.5
170	15.42	19.48	21.16	21.46	22.10	21.90	21.53	18.71	160-170	8.876	1825	99.9,99.9
180	0.3008	0.2923	0.2850	0.2855	0.2990	0.3005	0.2846	0.2844	170-180	0.9779	1826	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

Conical surface Flux(90deg): 386.56 lm

%lum = 21.2%  
 %lamp = 21.2%

Conical surface Flux(120deg): 648.41 lm

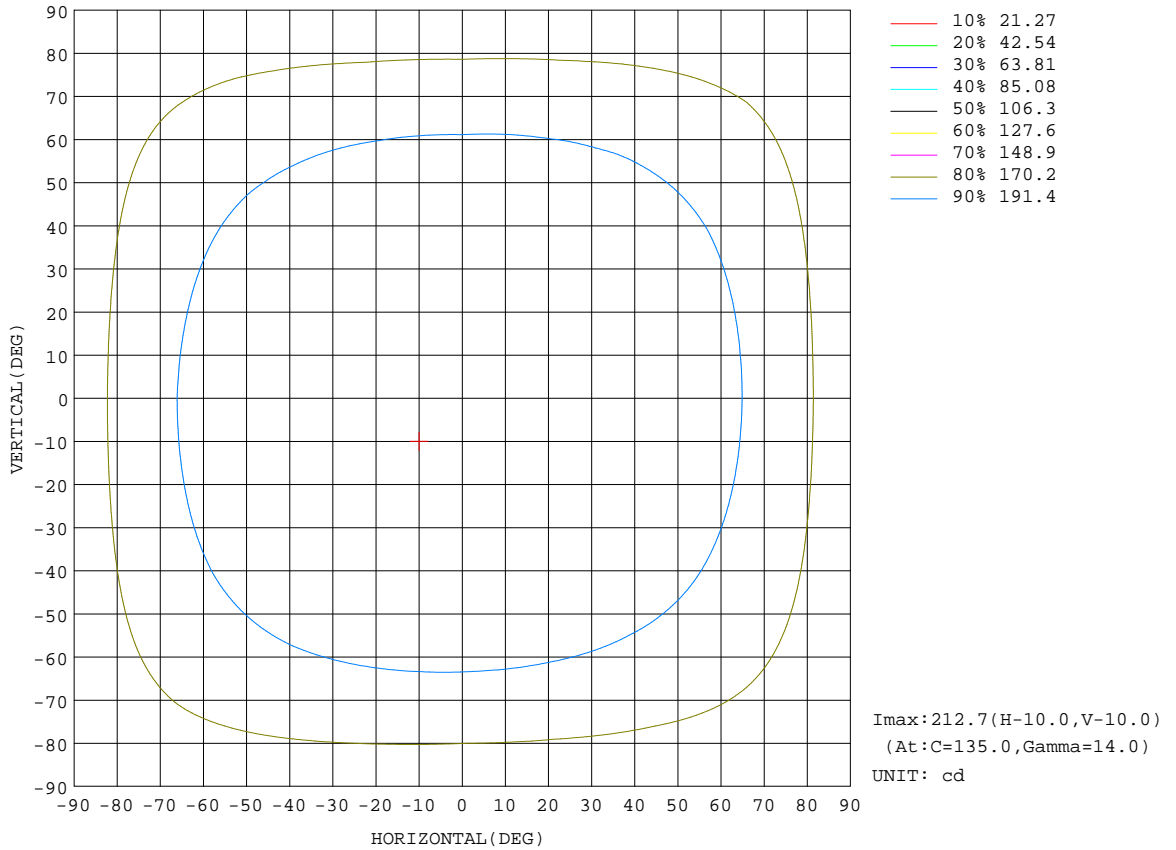
%lum = 35.5%  
 %lamp = 35.5%

C Range: 0 - 360DEG  
 C Interval: 22.5DEG  
 Test Speed: HIGH  
 Temperature:25.1DEG  
 Operators:GWQ  
 Test Date:2017-05-23

γ Range: 0 - 180DEG  
 γ Interval: 0.5DEG  
 Test System:EVERFINE GO-R5000\_V2 SYSTEM V2.0.363T  
 Humidity:47.2%  
 Test Distance:1.503m [K=1.0000]  
 Remarks:

ISOCANDELA DIAGRAM

Test:U:120.0V I:0.1216A P:14.47W PF:0.9918 Freq:60.01Hz Lamp Flux:1826.44x1 lm		
NAME: A19-15-E26-850-DIM	TYPE:1	WEIGHT:
SPEC.:120V/15.5W/1600lm	DIM.:	SERIAL No.:A1707452A001
MFR.: RAB LIGHTING INC	SUR.:	Shielding Angle:

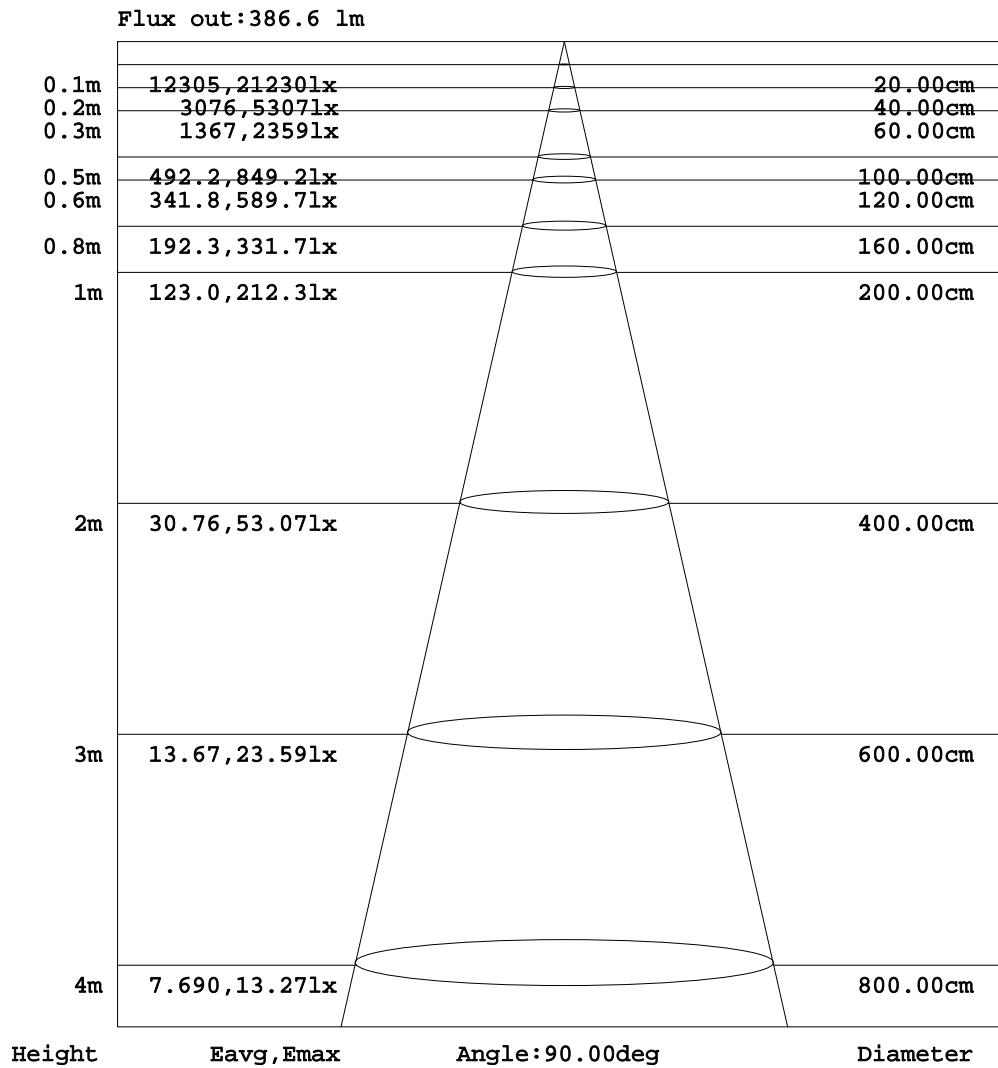


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AAI Figure

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MFR.: RAB LIGHTING INC	SUR.:	Shielding Angle:



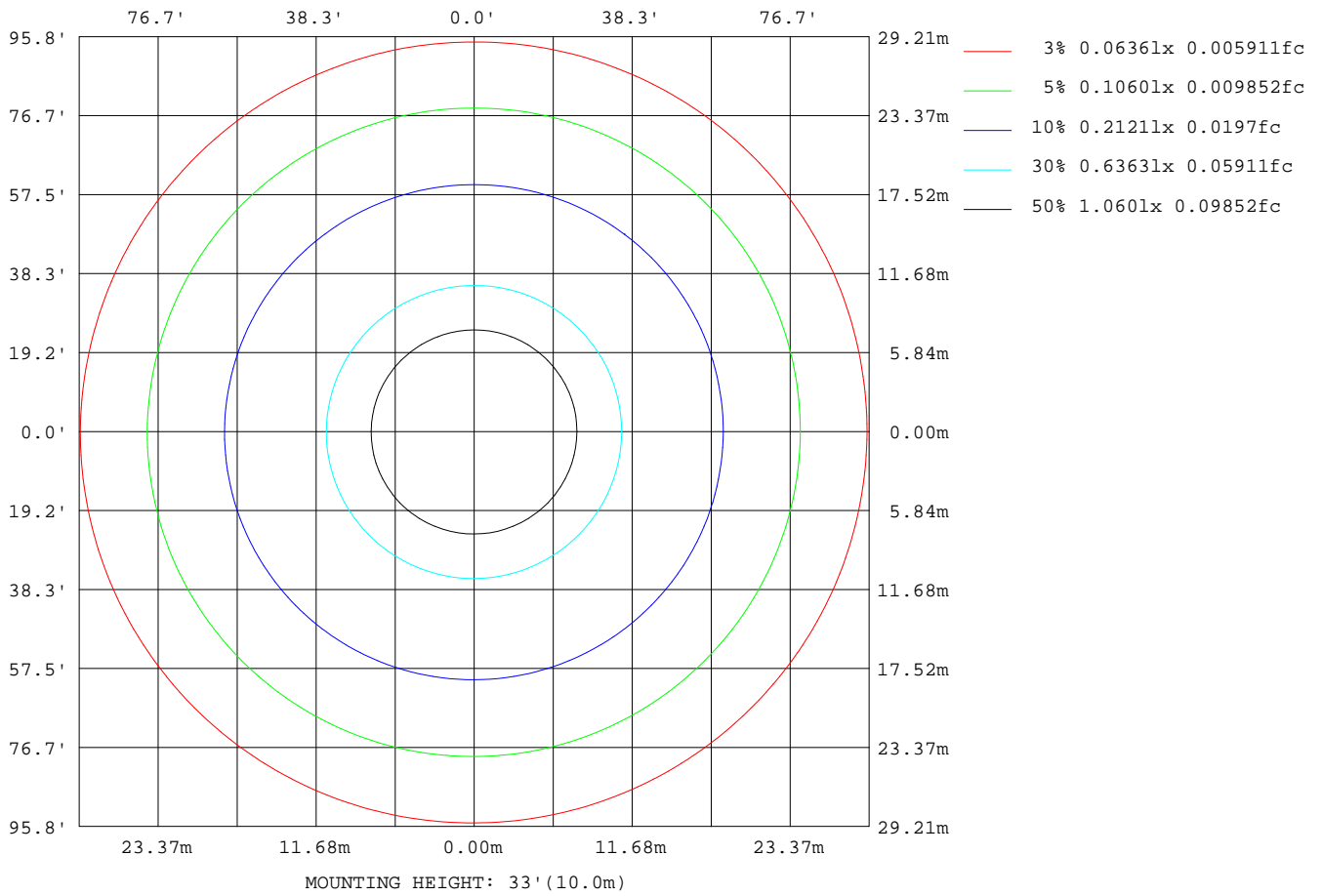
Note:The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

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SPEC.:120V/15.5W/1600lm	DIM.:	SERIAL No.:A1707452A001
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 Humidity:47.2%  
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 Remarks:

LED Avg.L Report

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SPEC.:120V/15.5W/1600lm	DIM.:	SERIAL No.:A1707452A001
MFR.: RAB LIGHTING INC	SUR.:	Shielding Angle:

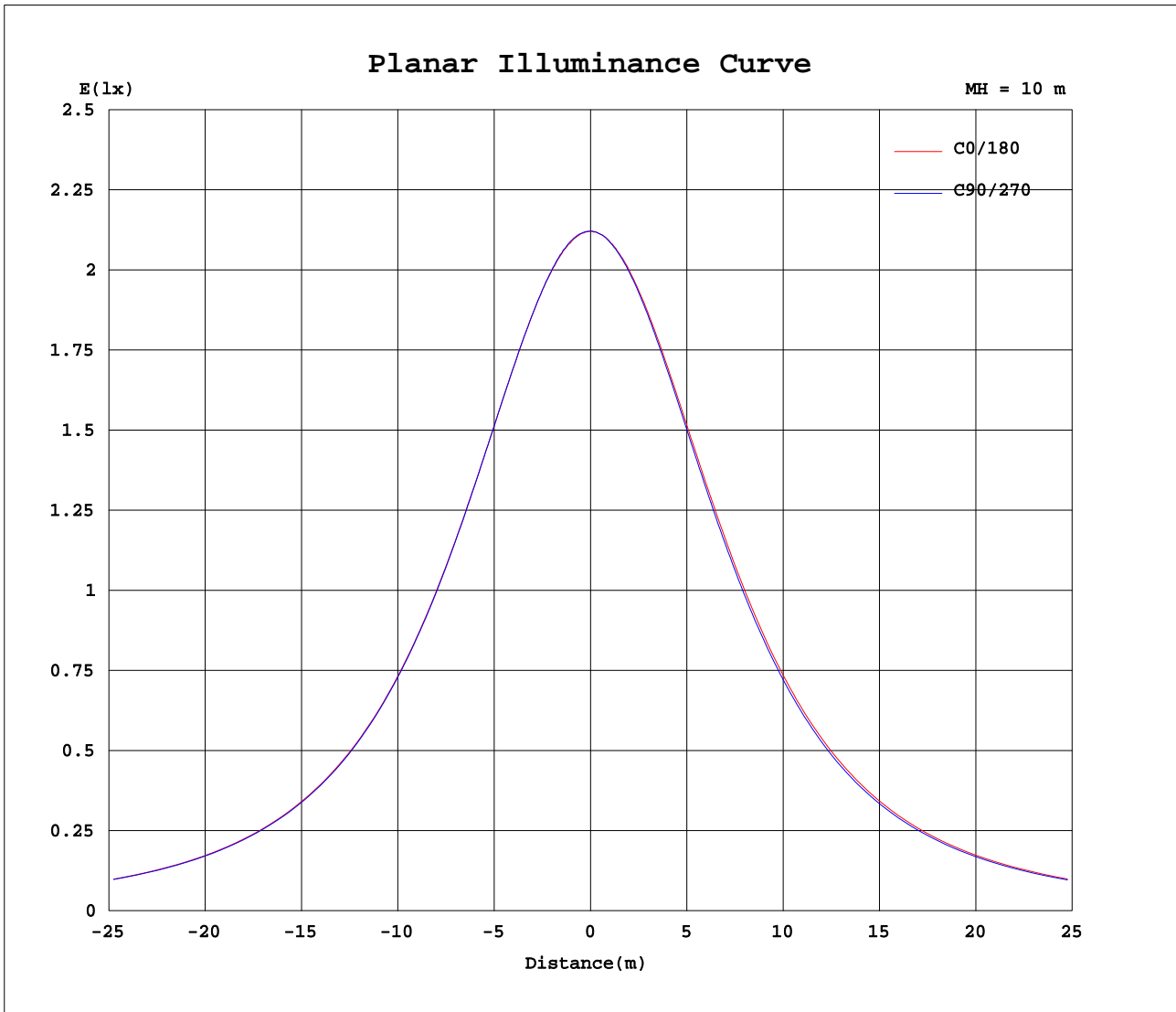
AvgL	cd/m2
L_0~180(65)av	4541
L_0~180(75)av	6949
L_0~180(85)av	18970
L_90~270(65)av	4462
L_90~270(75)av	6808
L_90~270(85)av	18556
L_45(65)av	4500
L_45(75)av	6874
L_45(85)av	18753

Standard: GB/T 29293-2012

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 Remarks:

Planar Illuminance Curve



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$\gamma$  Range: 0 - 180DEG  
 $\gamma$  Interval: 0.5DEG  
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Humidity: 47.2%  
Test Distance: 1.503m [K=1.0000]  
Remarks:



LUMINOUS DISTRIBUTION INTENSITY DATA

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Table--1

UNIT: cd

C(DEG)\ γ (DEG)	0	22.5	45	67.5	90	112.5	135	157.5	180	202.5	225	247.5	270	292.5	315	337.5			
0	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212			
5	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212	212			
10	212	212	212	212	212	212	213	212	212	212	211	211	212	212	212	212			
15	212	212	212	212	212	212	213	212	212	212	211	211	211	211	212	212			
20	212	212	212	212	212	212	213	212	212	212	211	210	211	211	211	212			
25	212	212	212	212	212	212	212	212	212	211	210	210	210	211	211	211			
30	211	211	211	211	211	211	212	212	212	211	210	209	209	210	210	211			
35	210	210	210	210	210	210	211	211	211	210	209	208	208	209	209	210			
40	209	209	209	208	209	209	210	210	210	209	207	206	206	207	208	209			
45	207	207	206	206	206	207	208	208	208	207	205	204	204	205	206	207			
50	204	204	203	203	203	204	205	205	205	204	203	201	201	202	203	204			
55	201	200	199	199	200	200	201	202	202	200	199	198	197	198	199	201			
60	196	196	195	195	195	196	197	198	198	196	194	193	193	194	195	196			
65	191	191	190	189	190	191	192	193	193	191	189	188	187	188	190	191			
70	186	185	184	184	184	185	186	187	187	185	183	182	182	183	184	186			
75	179	178	177	177	177	178	180	181	181	179	177	175	175	176	178	179			
80	172	171	170	170	170	171	173	174	174	172	170	168	168	169	171	172			
85	165	164	163	162	163	164	165	166	166	164	163	161	161	162	163	165			
90	157	156	155	155	155	156	157	158	158	157	155	153	153	154	155	157			
95	148	147	147	146	146	148	149	150	150	148	146	145	145	146	147	148			
100	140	139	138	137	138	139	140	141	141	140	138	136	136	137	138	140			
105	131	130	129	129	129	130	131	132	132	131	129	128	128	128	130	131			
110	122	121	120	120	120	121	122	123	123	122	120	119	119	119	121	122			
115	113	112	111	111	111	112	113	114	114	113	111	110	110	111	112	113			
120	104	103	102	102	102	103	104	105	105	104	103	101	101	102	103	104			
125	94.5	94.2	93.5	93.2	93.2	94.0	94.9	95.7	95.9	95.1	93.7	92.9	92.5	92.9	93.9	94.6			
130	85.7	85.4	84.8	84.5	84.6	85.3	86.1	86.7	87.0	86.3	85.0	84.3	83.9	84.3	85.2	85.7			
135	77.1	76.8	76.3	76.0	76.2	76.7	77.5	78.0	78.3	77.6	76.6	75.9	75.5	75.9	76.6	77.1			
140	68.7	68.4	68.0	67.8	67.9	68.4	69.1	69.6	69.9	69.4	68.4	67.8	67.5	67.8	68.4	68.8			
145	60.4	60.5	60.2	60.0	60.0	60.5	61.1	61.5	61.8	61.3	60.6	60.0	59.7	59.9	60.4	60.8			
150	51.5	52.7	52.7	52.6	52.6	53.0	53.5	53.8	54.1	53.8	53.2	52.7	52.3	52.5	52.9	53.2			
155	43.4	44.6	45.8	45.7	45.8	46.1	46.5	46.7	46.9	46.8	46.3	45.9	45.6	45.6	45.9	46.2			
160	35.4	37.1	38.0	38.9	38.9	39.0	39.4	39.5	39.8	39.8	39.5	39.0	38.8	38.5	39.0	39.3			
165	26.3	28.6	29.6	31.0	31.1	30.8	31.4	31.6	31.8	31.9	31.7	31.0	31.2	30.0	31.2	31.5			
170	15.4	18.9	19.5	20.6	21.2	20.7	21.5	21.4	22.1	22.1	21.9	21.2	21.5	19.7	18.7	21.1			
175	2.39	2.24	2.28	2.29	2.29	2.71	3.06	2.97	2.51	3.40	3.40	3.47	3.53	3.07	1.61	1.28			
180	0.30	0.30	0.29	0.28	0.29	0.29	0.29	0.29	0.30	0.30	0.30	0.29	0.28	0.28	0.28	0.28			

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