

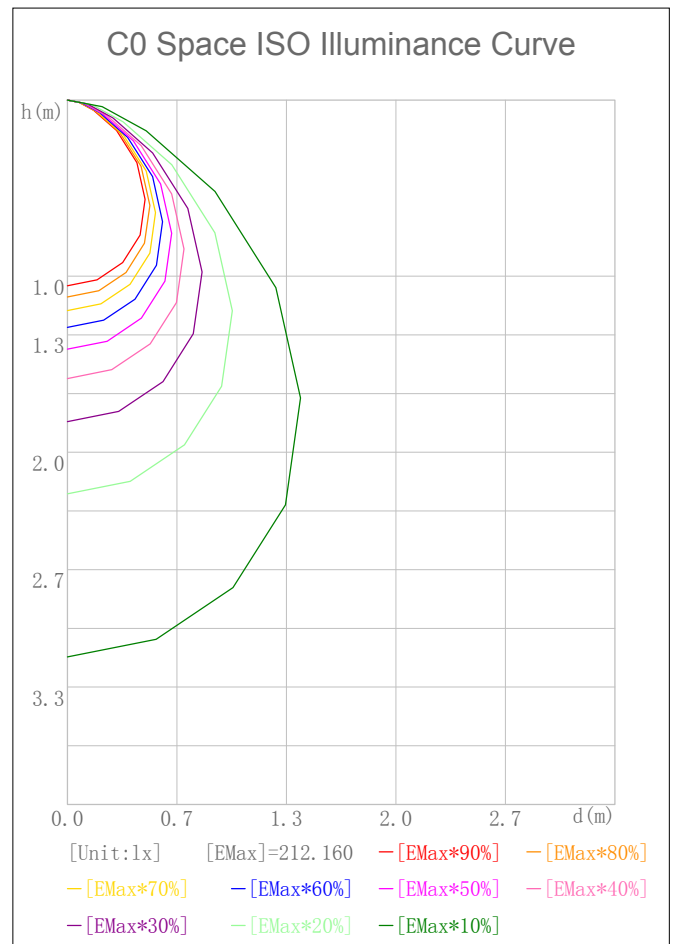
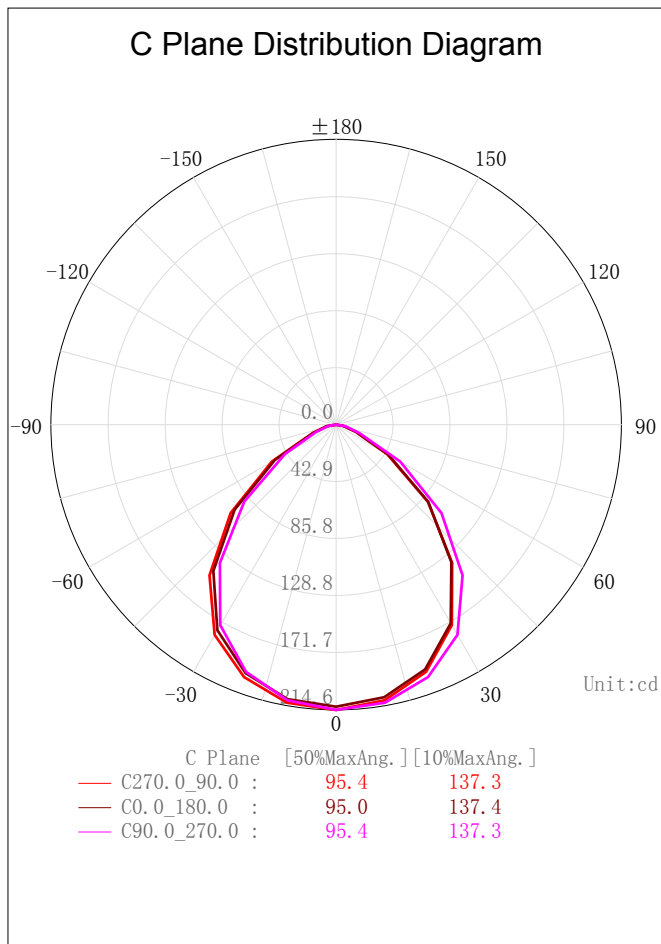
Indoor Luminaire Photometric Data

Description Information

Luminaire Name: LG-8016		Lum. Catalog:	Test ID: 8.955 m
Lamp Name: 2835		Lamp Catalog: LED	Test Date: 2015-03-04 09:50
Manufacture: Light and Green LLC		Shld. Ang(°):	Test Machine:GON-2000
Test Lab:		Frequency (Hz):	Lamp CCT(K): Ra:
Lum. Size (W*L*H):0.100m*0.100m*0.050m		Lum. Area (m2):0.015	Lum. W(kg): 0.000
Test System: C, γ	Test Step: C=15.0 γ=10.0	Temp. (°C): 25	Humidity(%):

Character Parameter

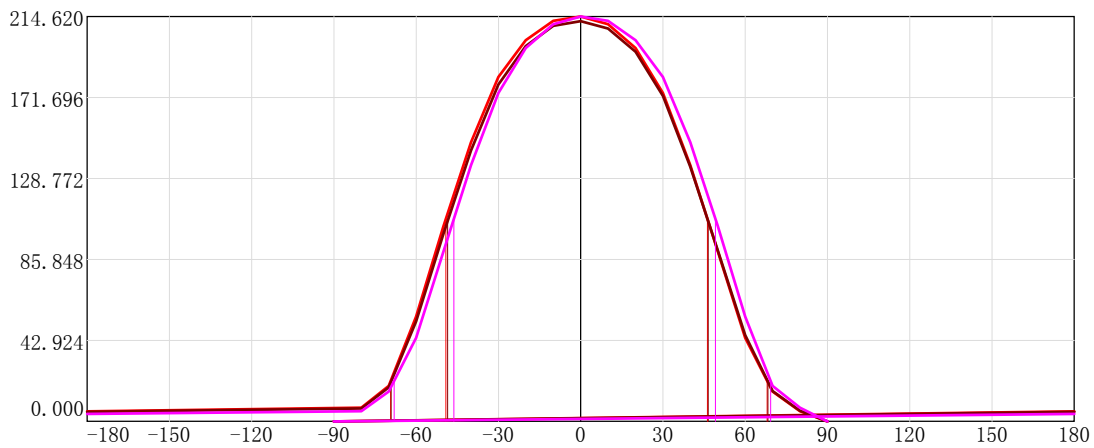
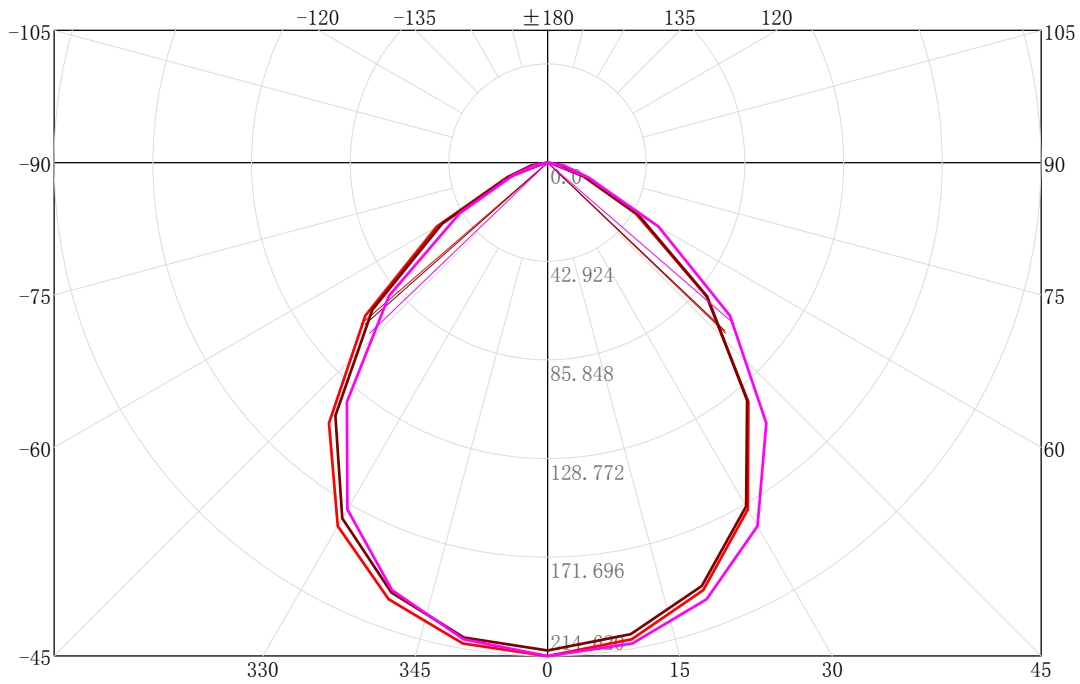
Lamp Speciality Parameter		Luminaire Speciality Parameter	
Rated Flux(lm): 566.300	Luminary Flux(lm): 468.999	Field Angle(10%Imax): 137.3(°)	
Rated Power(W):	Luminary Efficiency: 82.82%	Down Lumens&Percent: 468.999lm 100.00%	
Rated Voltage(V):	Luminary EER(lm/W): 51.425	Up Lumens&Percent: 0.000lm 0.00%	
Tested Power(W): 9.120	Max. Candela(cd): 214.620	S/MH: C0_a180=1.228 C90_270=1.244	
Lamps' Inside: 1	Max Cand@Ang. (°): C=90.0 γ=0.0	CIE Type: Semi-Direct	
Tested Electrics (V, A, pf):240.1, 0.042	Beam Angle(50%Imax): 95.4(°)	ErP φ use(120°): 420.730lm	
Lamp Size (W*L*H):0.100m*0.100m*0.050m	Left=-46.2°, Right=49.1°	IRF(%): 123.876	



2D Plane Light Intensity Distribution Curve

Lum. Name: LG-8016	Lum. Catalog:	Test ID: 8.955 m
Lamp Name: 2835	Lamp Catalog: LED	Test Lab:
Manufacture: Light and Green LLC	Test Machine:GON-2000	Test Date: 2015-03-04 09:50

C Plane Distribution Diagram

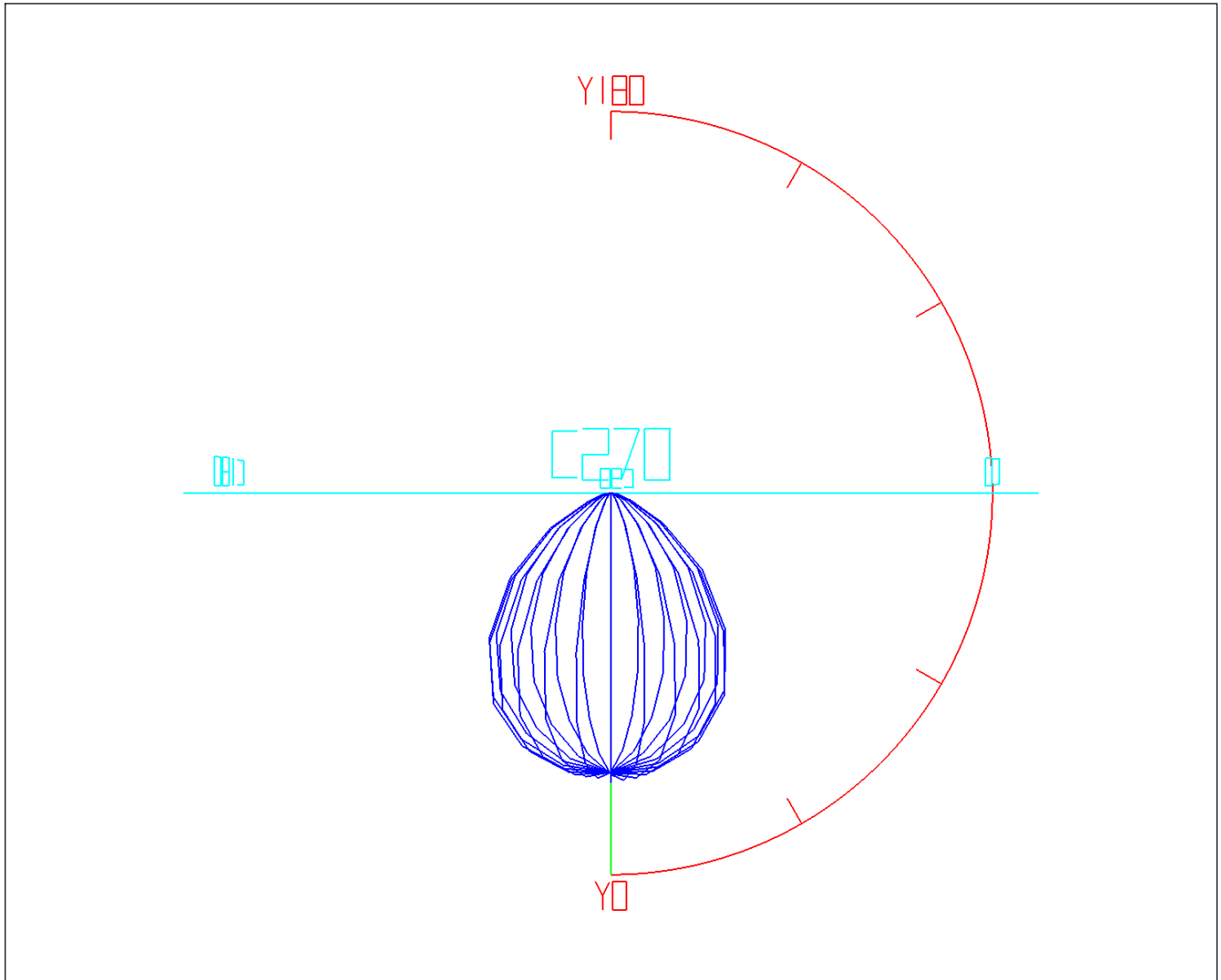


C Plane	[50%MaxAng.]	[10%MaxAng.]	Unit:cd
— C270.0_90.0 :	95.4	137.3	
— C0.0_180.0 :	95.0	137.4	
— C90.0_270.0 :	95.4	137.3	

3D Light Intensity Distribution Modal

Lum. Name: LG-8016	Lum. Catalog:	Test ID: 8.955 m
Lamp Name: 2835	Lamp Catalog: LED	Test Lab:
Manufacture: Light and Green LLC	Test Machine:GON-2000	Test Date: 2015-03-04 09:50

3D Light Intensity Distribution Modal



Curves: 3D Model ——— Fixture ——— Vert. HUD ——— Hori. HUD ———
View Angles: Orient:0 Tilt:0 Roll:0 Spin:0

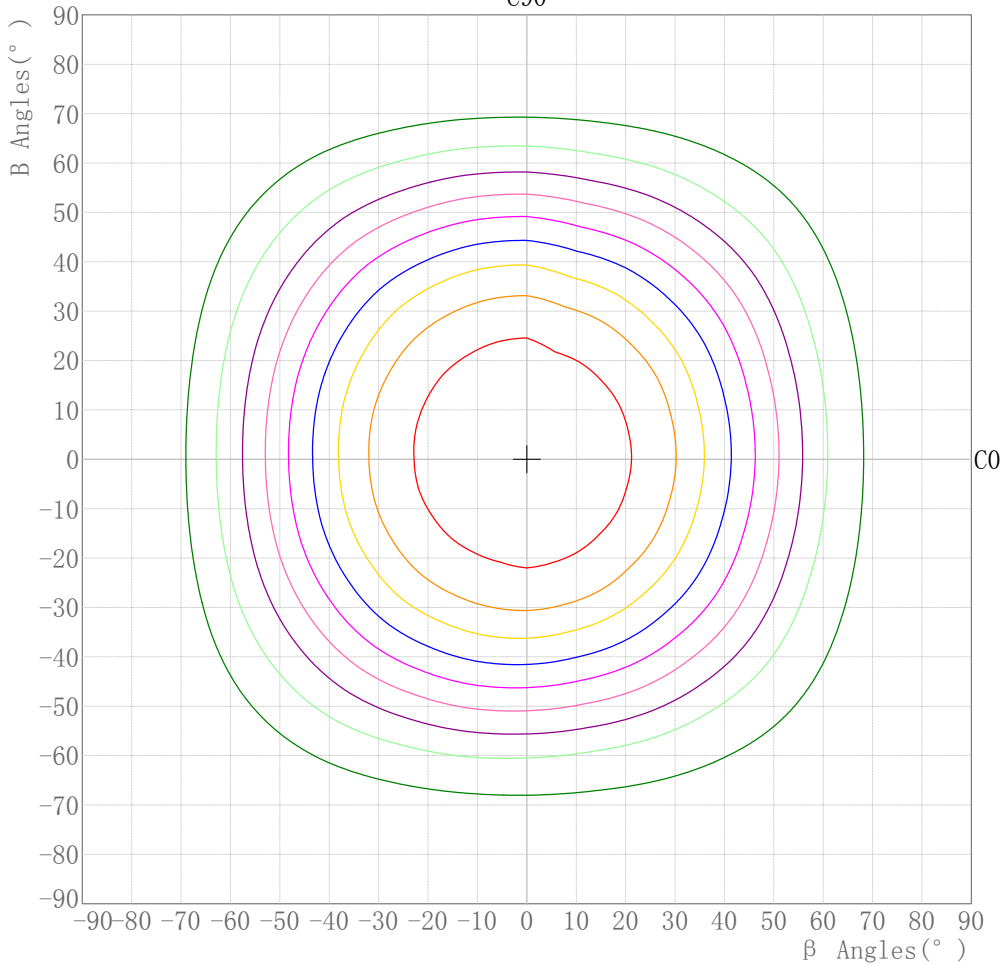
Zonal Flux Tabulation

Zone (γ)	Zone Flux (lm)	Sums Flux (lm)	Zone%Lamp	Sums%Lamp
0.0-10.0	20.14	20.14	3.56	3.56
10.0-20.0	57.73	77.86	10.19	13.75
20.0-30.0	86.61	164.48	15.29	29.04
30.0-40.0	99.37	263.85	17.55	46.59
40.0-50.0	91.22	355.07	16.11	62.70
50.0-60.0	65.03	420.10	11.48	74.18
60.0-70.0	33.06	453.17	5.84	80.02
70.0-80.0	12.41	465.57	2.19	82.21
80.0-90.0	3.43	469.00	0.61	82.82

Rectangle ISO Lighting Intensity Diagram

Lum. Name: LG-8016	Lum. Catalog:	Test ID: 8.955 m
Lamp Name: 2835	Lamp Catalog: LED	Test Lab:
Manufacture: Light and Green LLC	Test Machine:GON-2000	Test Date: 2015-03-04 09:50

ISO Lighting Intensity Curve
C90



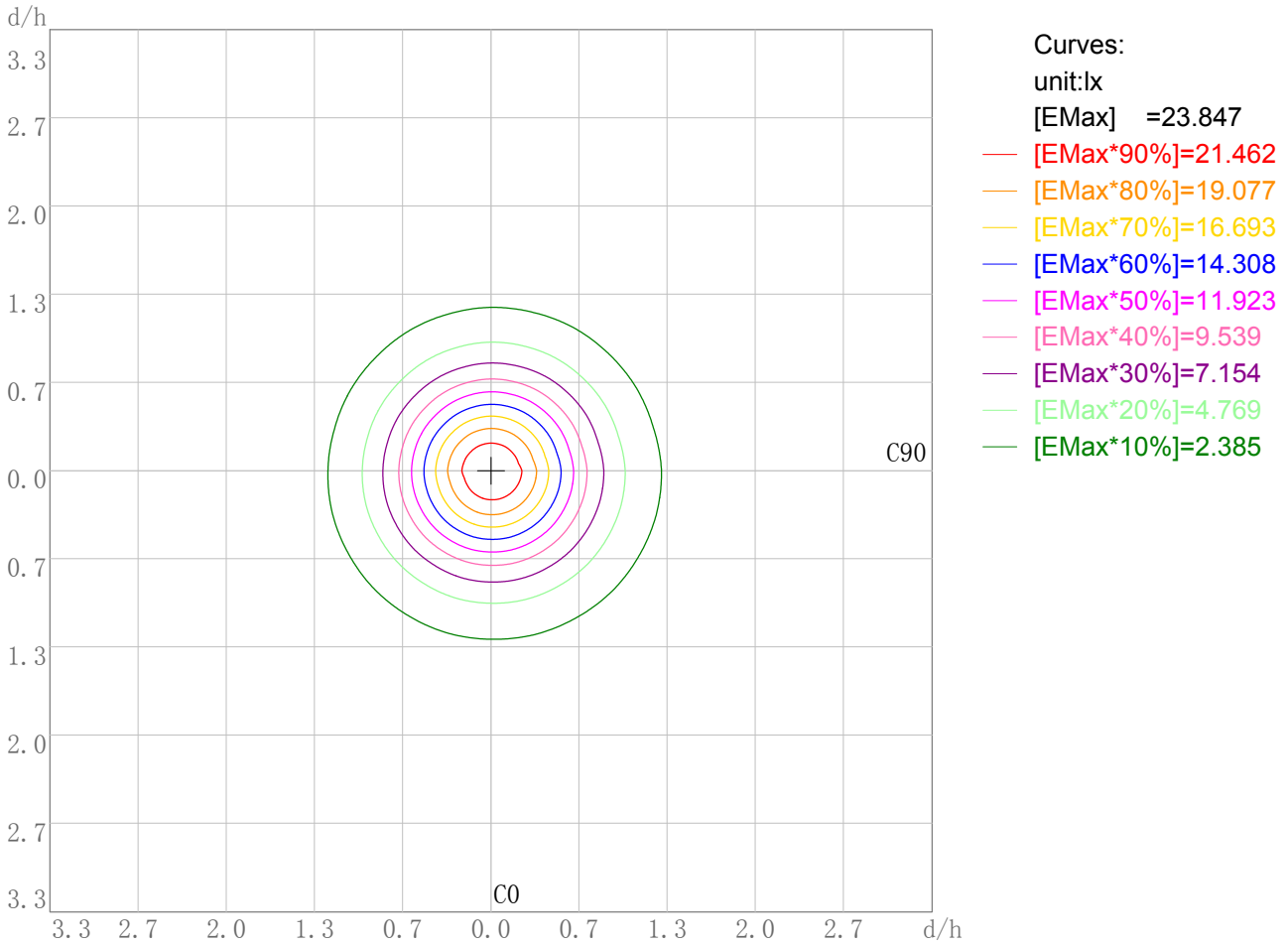
- Curves:**
[Unit: cd]
[I_{Max}] =214.620
- [I_{Max}*90%]=193.158
 - [I_{Max}*80%]=171.696
 - [I_{Max}*70%]=150.234
 - [I_{Max}*60%]=128.772
 - [I_{Max}*50%]=107.310
 - [I_{Max}*40%]=85.848
 - [I_{Max}*30%]=64.386
 - [I_{Max}*20%]=42.924
 - [I_{Max}*10%]=21.462

Maximum Light Intensity(cd): 214.62
Maximum Cand.@Angle: H=0.0°,V=0.0°

Plane ISO-Illuminance Diagram

Lum. Name: LG-8016	Lum. Catalog:	Test ID: 8.955 m
Lamp Name: 2835	Lamp Catalog: LED	Test Lab:
Manufacture: Light and Green LLC	Test Machine:GON-2000	Test Date: 2015-03-04 09:50

Plane ISO-Illuminance Curve

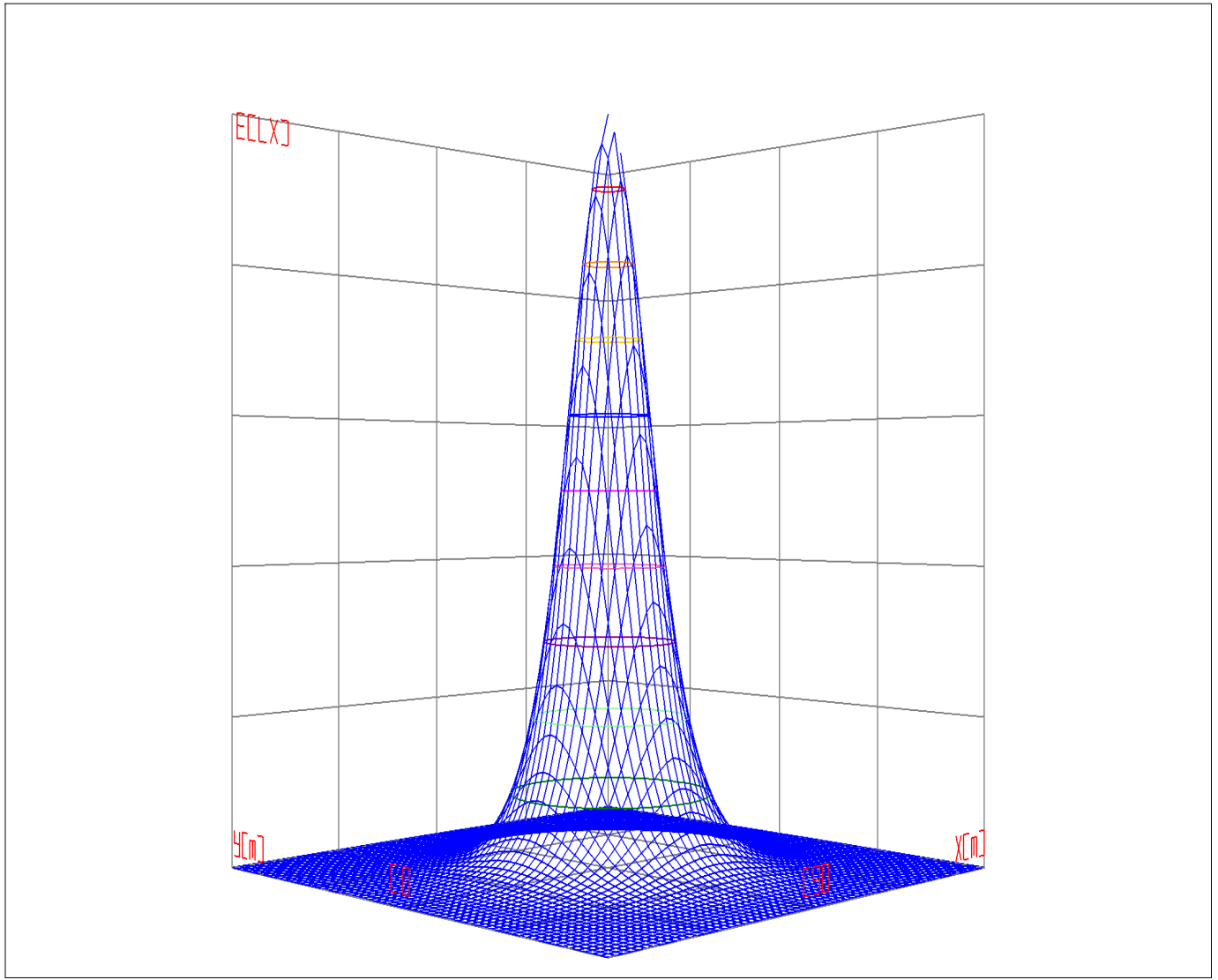


Working Plane Luminaire Mounting Height(m): 3.00
Working Plane Maximum Illuminance(lx): 23.85
Working Plane Maximum Illuminance Position(d/h):H0.0 V0.0

3D Plane ISO Illuminance Diagram

Lum. Name: LG-8016	Lum. Catalog:	Test ID: 8.955 m
Lamp Name: 2835	Lamp Catalog: LED	Test Lab:
Manufacture: Light and Green LLC	Test Machine:GON-2000	Test Date: 2015-03-04 09:50

3D Plane Illuminance Modal

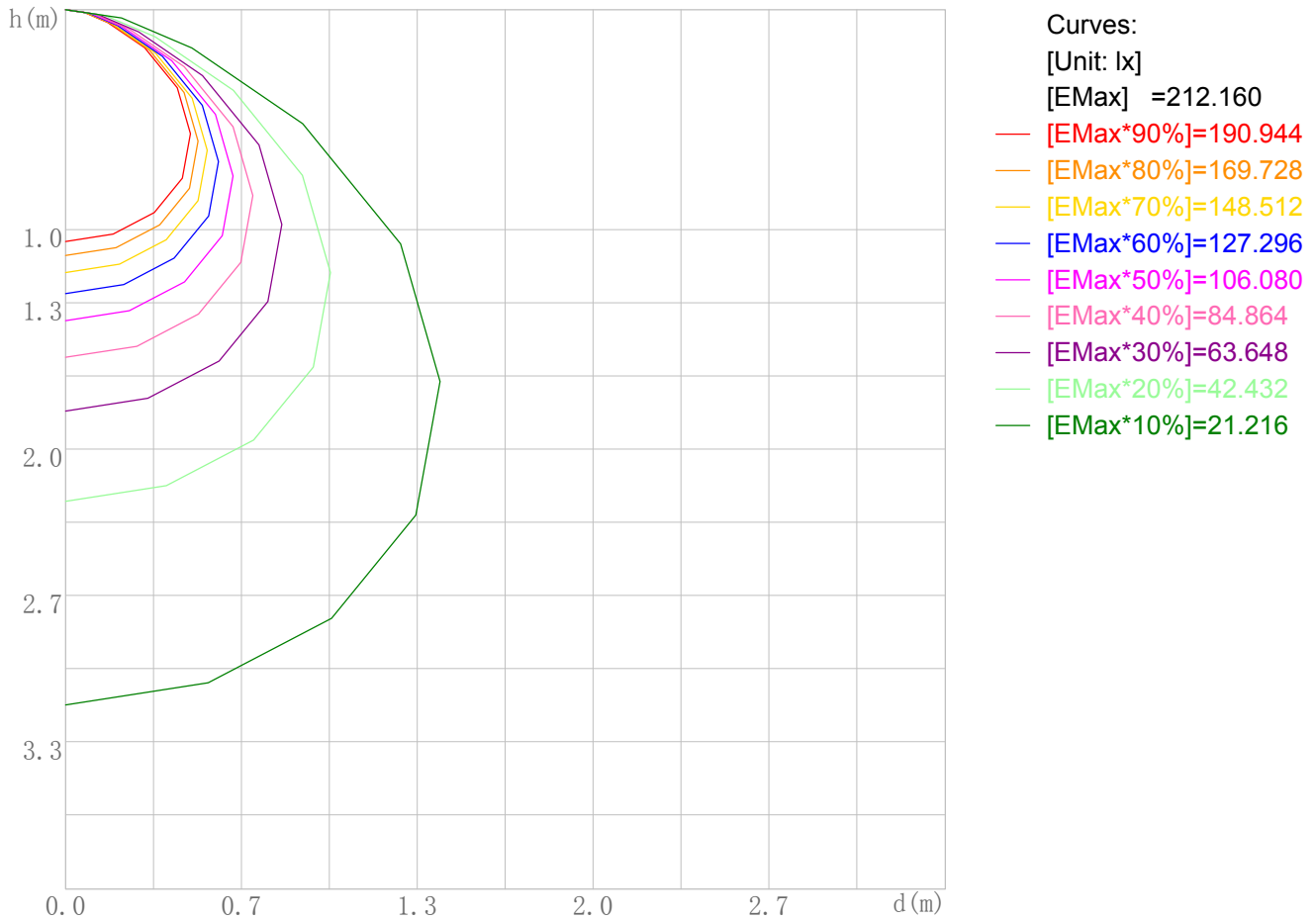


Curves: 3D Model — 90% — 80% — 70% — 60% — 50% — 40% — 30% — 20% — 10% —
View Angles(deg): 0 Height(m): 3.0 Distance(m): 10.0

Space ISO Illuminance Diagram

Lum. Name: LG-8016	Lum. Catalog:	Test ID: 8.955 m
Lamp Name: 2835	Lamp Catalog: LED	Test Lab:
Manufacture: Light and Green LLC	Test Machine:GON-2000	Test Date: 2015-03-04 09:50

Space ISO Illuminance Curve

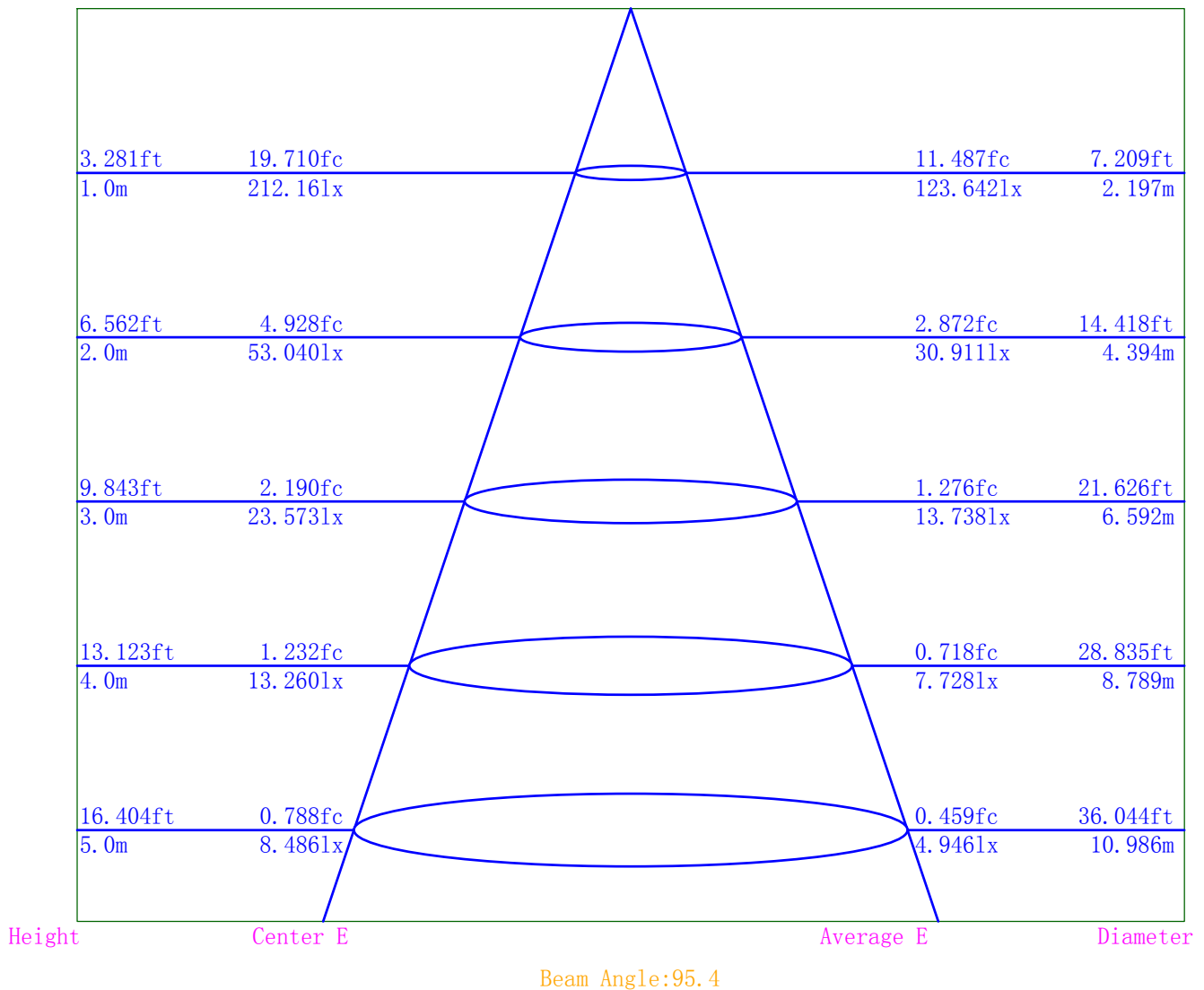


Space Plane Maximum Illuminance and @Angle:212.16lx,0.0deg
 Plane Maximum Lighting Intensity and @Angle:212.160cd,0deg

Illuminance-Distance Diagram

Lum. Name: LG-8016	Lum. Catalog:	Test ID: 8.955 m
Lamp Name: 2835	Lamp Catalog: LED	Test Lab:
Manufacture: Light and Green LLC	Test Machine:GON-2000	Test Date: 2015-03-04 09:50

Illuminance-Distance Curve



Indoor Luminance Limiting Curves

Lum. Name: LG-8016	Lum. Catalog:	Test ID: 8.955 m
Lamp Name: 2835	Lamp Catalog: LED	Test Lab:
Manufacture: Light and Green LLC	Test Machine:GON-2000	Test Date: 2015-03-04 09:50

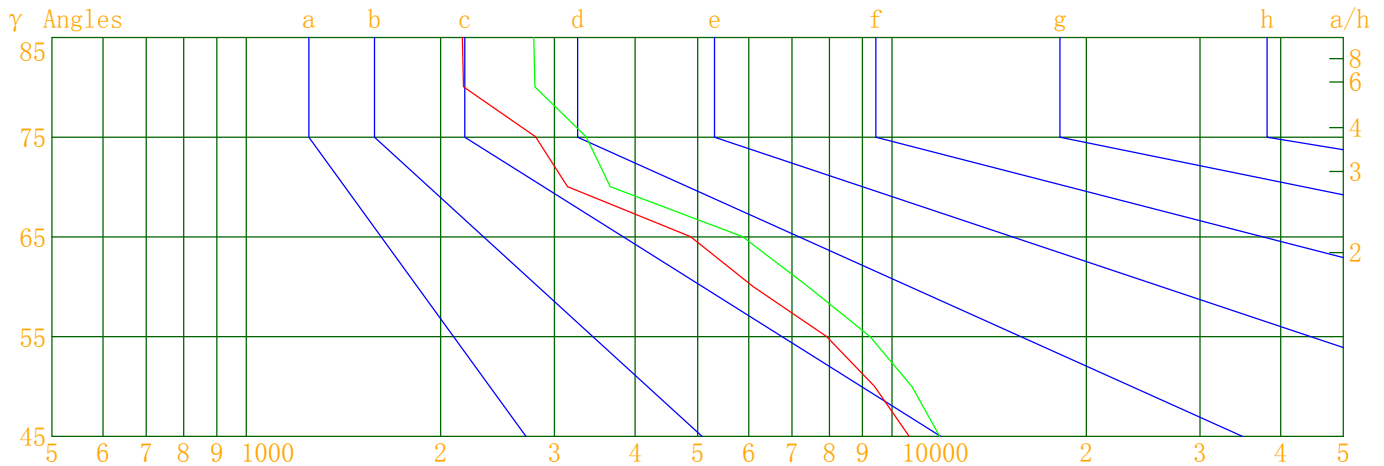
Glare Grade Table

GI	Quality	Using Illuminance							
		a	b	c	d	e	f	g	h
1.15	A	2000	1000	500	<=300				
1.5	B		2000	1000	500	<=300			
1.85	C			2000	1000	500	<=300		
2.2	D				2000	1000	500	<=300	
2.55	E	a				2000	1000	500	<=300
			b	c	d	e	f	g	h

Luminance Table

Gama (deg)	45	50	55	60	65	70	75	80	85
C0	10634	9398	7921	6092	4876	3144	2805	2169	2161
C90	11855	10734	9246	7413	5867	3663	3359	2799	2788

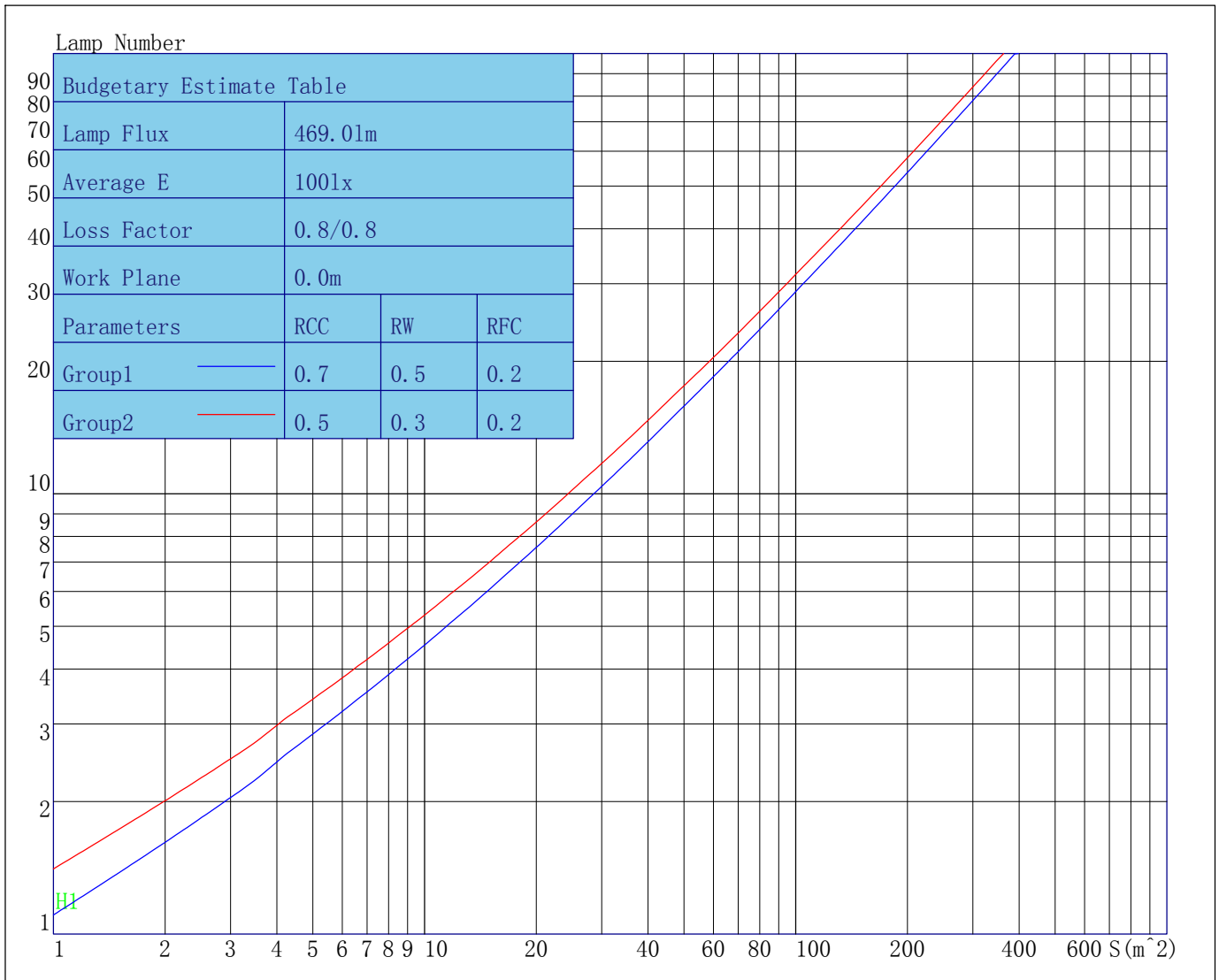
Luminance Limiting Curve



Luminous Size: Length(m)=0.100 Width(m)=0.100 Height(m)=0.050 Area(m²)=0.015000
 Luminous Type: Without Luminous Side
 Luminous Curves: C0-C180 Color: ——— C90-C270 Color: ———

Indoor Budgetary Estimate Table

Lum. Name: LG-8016	Lum. Catalog:	Test ID: 8.955 m
Lamp Name: 2835	Lamp Catalog: LED	Test Lab:
Manufacture: Light and Green LLC	Test Machine:GON-2000	Test Date: 2015-03-04 09:50



Parameters1: Rhocc = 0.7 Rhow = 0.5 Rhofc = 0.2 LLF = 0.8
Parameters2: Rhocc = 0.5 Rhow = 0.3 Rhofc = 0.2 LLF = 0.8
Average Illuminance(lx): 100 Cavity Height: H1(m) = 2

Indoor Coefficient of Utilization Table

Lum. Name: LG-8016	Lum. Catalog:	Test ID: 8.955 m
Lamp Name: 2835	Lamp Catalog: LED	Test Lab:
Manufacture: Light and Green LLC	Test Machine:GON-2000	Test Date: 2015-03-04 09:50

Coefficients of Utilization - Zonal Cavity Method																		
Coef.	Effective Floor Cavity Reflectance RFC=0.20																	
RhoCC (%)	80				70				50			30			10			0
RhoW (%)	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR	Coefficient of Utilization (%)																	
0	99	99	99	99	96	96	96	96	92	92	92	88	88	88	85	85	85	83
1	92	88	85	83	89	86	84	81	83	81	79	80	78	76	77	75	74	73
2	85	79	74	70	82	77	73	69	74	71	67	72	69	66	69	67	64	63
3	78	70	64	60	76	69	64	59	67	62	58	64	60	57	62	59	56	54
4	72	63	57	52	70	62	56	51	60	55	51	58	54	50	56	53	49	48
5	67	57	50	45	65	56	50	45	54	49	44	53	48	44	51	47	44	42
6	62	52	45	40	60	51	44	40	49	44	39	48	43	39	47	42	39	37
7	57	47	40	36	56	46	40	36	45	40	35	44	39	35	43	38	35	33
8	54	43	37	32	52	43	36	32	42	36	32	41	35	32	40	35	31	30
9	50	40	33	29	49	39	33	29	38	33	29	38	32	29	37	32	29	27
10	47	37	31	27	46	36	30	26	36	30	26	35	30	26	34	30	26	25

Unified Glare Rating Table

Lum. Name: LG-8016	Lum. Catalog:	Test ID: 8.955 m
Lamp Name: 2835	Lamp Catalog: LED	Test Lab:
Manufacture: Light and Green LLC	Test Machine:GON-2000	Test Date: 2015-03-04 09:50

Unified Glare Rating Table

Ceiling RCC	0.70	0.70	0.50	0.50	0.30	0.70	0.70	0.50	0.50	0.30
Wall RW	0.50	0.30	0.50	0.30	0.30	0.50	0.30	0.50	0.30	0.30
Floor RFC	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Room Size	Vewed crosswise					Vewed endwise				
X=2H Y=2H	20.0	21.3	20.4	21.6	21.9	20.9	22.1	21.3	22.5	22.8
Y=3H	20.6	21.6	20.9	21.9	22.3	21.5	22.5	21.8	22.8	23.2
Y=4H	20.7	21.6	21.1	22.0	22.4	21.6	22.6	22.0	22.9	23.3
Y=6H	20.8	21.6	21.2	22.0	22.4	21.8	22.6	22.2	23.0	23.4
Y=8H	20.8	21.6	21.2	22.0	22.4	21.8	22.5	22.2	22.9	23.4
Y=12H	20.8	21.5	21.3	21.9	22.3	21.8	22.5	22.2	22.9	23.3
X=4H Y=2H	20.4	21.4	20.8	21.7	22.1	21.3	22.2	21.7	22.6	23.0
Y=3H	21.1	21.7	21.5	22.2	22.6	22.0	22.6	22.4	23.1	23.5
Y=4H	21.3	21.8	21.7	22.3	22.7	22.2	22.8	22.7	23.2	23.6
Y=6H	21.4	21.8	21.9	22.3	22.8	22.4	22.8	22.9	23.3	23.7
Y=8H	21.5	21.8	22.0	22.3	22.7	22.5	22.8	23.0	23.3	23.7
Y=12H	21.5	21.8	22.0	22.2	22.7	22.5	22.8	23.0	23.3	23.7
X=8H Y=4H	21.4	21.7	21.8	22.1	22.6	22.3	22.6	22.8	23.1	23.6
Y=6H	21.6	21.7	22.1	22.3	22.7	22.6	22.7	23.1	23.2	23.7
Y=8H	21.7	21.8	22.2	22.3	22.8	22.7	22.8	23.2	23.3	23.8
Y=12H	21.8	21.8	22.3	22.3	22.9	22.8	22.8	23.3	23.3	23.9
X=12H Y=4H	21.3	21.6	21.8	22.1	22.6	22.3	22.5	22.8	23.0	23.5
Y=6H	21.6	21.7	22.1	22.2	22.7	22.6	22.7	23.1	23.1	23.7
Y=8H	21.7	21.7	22.3	22.2	22.8	22.7	22.7	23.3	23.2	23.8
Variations with the objerver position at spacings										
S=1.0H	0.5/-0.6					0.5/-0.6				
S=1.5H	1.0/-1.1					0.9/-1.0				
S=2.0H	2.1/-1.9					2.1/-1.7				
Reduced UGR Table:										
Nordic Standard Table:	BKO					BKO				
Correction Value	1.1					1.2				

to the CIE Pub.117, data has been corrected, refers to the lamp's lumens 8.2flm.

