

Helion Bollard

Description

Bollard IP54 Helion LED 9W 3000K Urban grey 399lm

	Finish	Material
Structure	Urban grey	Aluminium
Diffuser	Opal	Polycarbonate



TECHNICAL CHARACTERISTICS

Light source

Light source: LED OSRAM
 Light source power (W): 9W
 Luminaire total power (W): 11.4W
 Color temperature: LED warm-white
 3000K
 CRI: 80
 Photobiological risk: RG1
 Real Lumen: 399
 Qty Leds: 8
 Lm/Real W: 35
 Life Time: 50.000h L80B20
 Bin / Grup: 7S o 7T
 MacAdam steps: 3
 UGR: 19.7

GEAR

Gear included: Yes, electronic
 Voltage / Frequency:
 100-240V/50-60Hz
 Power Factor: 0.90
 Dimming protocol: ON-OFF

Luminaire

Double cable exit: No
 Drainage: No
 Seaside: No
 Uv Protection: Yes
 Warranty: 5 Years
 Ta max: 50°C

Logistics

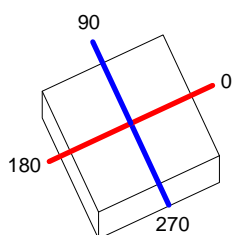
Energy Efficiency: LED A++
 EAN Code: 8435381452940
 Net Weight (Kg): 2.03
 Weight in Kg (packaged): 2.48
 Packing: 140 x 140 x 815
 Masterbox: 4

The photograph may not match the reference exactly. Please read the product description to identify the finish.

Luminaire		Measur.		Lamp		
Code	55-9721	Code	55-9603	Code	55-9603	
Name	Baliza leds difusor opal	Name	Baliza leds difusor opal	Number	1	
Line	Eulumdat	Date	10-11-2011	Position		
Efficiency	100.00%	Coordinate system	CG	Total Flux	153.69 lm	
Maximum value	59.00 cd	Position	C=315.00 G=20.00	Sym. on planes	270-90	
Rectangular Luminaire	Length	123 mm	Width	123 mm	Height	805 mm
Rectangular Luminous Area	Length	90 mm	Width	90 mm	Height	14 mm
Horizontal Luminous Area	0.008100 m2	Emitting area on Plane 180°		0.001350 m2		
Emitting area on Plane 0°	0.001350 m2	Emitting area on Plane 270°		0.001350 m2		
Emitting area on Plane 90°	0.001350 m2	Glare area at 76°		0.003269 m2		
Symmetry Type	Sym. on planes 270-90	Maximum Gamma Angle		180		
Measurement Distance	0.00	Measurement Flux		153.69 lm		
Operator	Asselum T2	Source voltage				
Temperature	25.00 °C	Source current				
Humidity	60.00 %	Photocell				
Notes						

Luminaire Lamps						
Line	Code	Name	Flux [lm]	Pow. [W]	Q.ty	
Eulumdat	55-9603	55-9603 - 6.00 W	153.69	6.00	1	
C.I.E.	38 68 88 94 100	D DIN 5040		A21		
F UTE	0.94 G + 0.06 T	B NBN		BZ 6		

123mm x 123mm



C Halfplanes

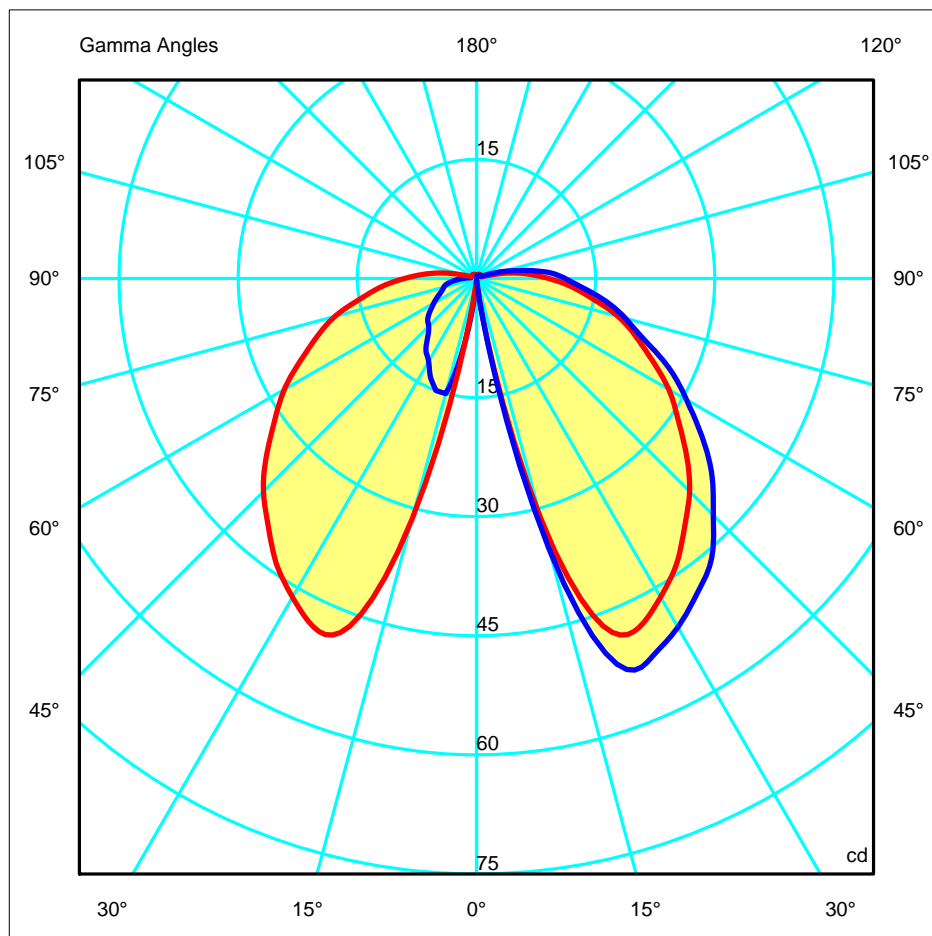
270.0 ——— 0.0

180.0 ——— 90.0

ULOR 6.32 %

DLOR 93.68 %

RN 6.32 %



Luminaire

Code 55-9721
 Name Baliza leds difusor opal
 Line Eulumdat

Measuram.

Code 55-9603
 Name Baliza leds difusor opal
 Date 10-11-2011

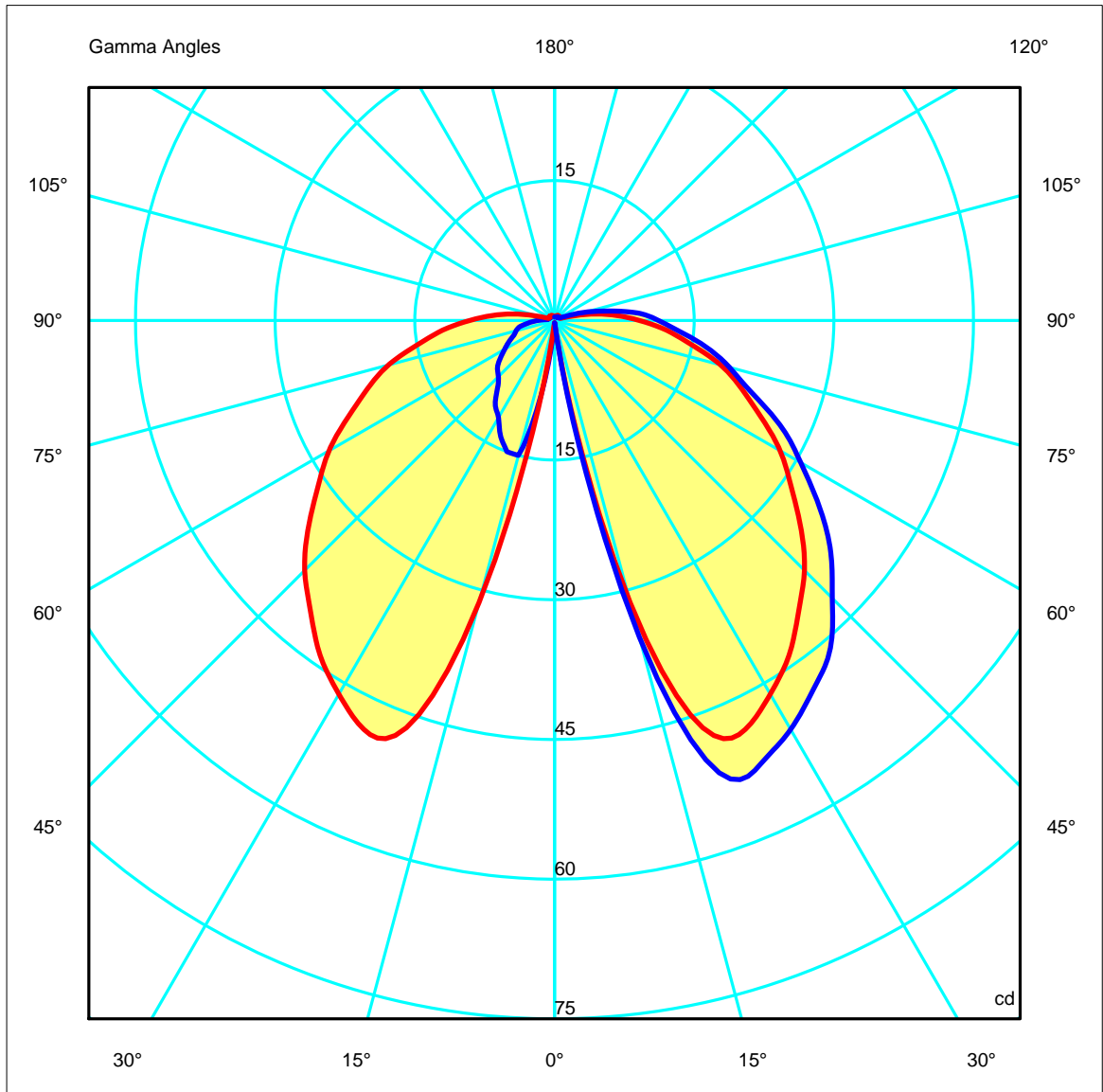
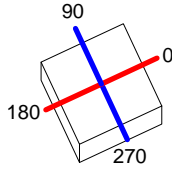
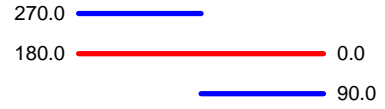
Lamp

Code 55-9603
 Number 1
 Position

Efficiency	100.00%	Coordinate system	CG	Total Flux	153.69 lm
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123mm x 123mm

C Halfplanes



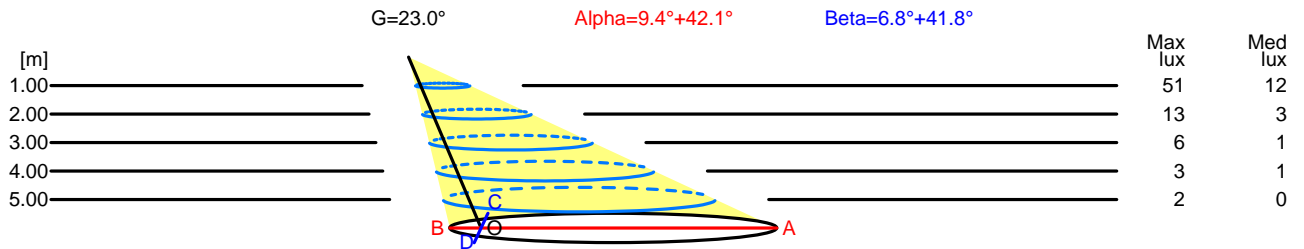
Luminaire		Measur.		Lamp	
Code	55-9721	Code	55-9603	Code	55-9603
Name	Baliza leds difusor opal	Name	Baliza leds difusor opal	Number	1
Line	Eulumdat	Date	10-11-2011	Position	
Efficiency	100.00%	Coordinate system	CG	Total Flux	153.69 lm

Width at 50.00 % of Max Intensity

H[m]	1.00	2.00	3.00	4.00	5.00	H[m]	1.00	2.00	3.00	4.00	5.00
OA	1.73	3.46	5.19	6.92	8.65	OC	0.13	0.26	0.39	0.52	0.65
OB	0.18	0.37	0.55	0.73	0.92	OD	0.97	1.94	2.91	3.88	4.86

Luminous Intensities [cd]

	0	5	15	25	35	45	55	65	75	85
OA	0.26	0.28	31.38	48.46	43.90	37.95	30.99	24.43	18.45	12.07
OB	0.26	0.28	31.38	48.46	43.90	37.95	30.99	24.43	18.45	12.07
OC	0.26	0.26	35.22	52.49	48.42	42.18	34.66	26.80	19.42	13.45
OD	0.26	1.24	15.01	13.71	11.10	8.52	7.12	5.40	4.27	2.68



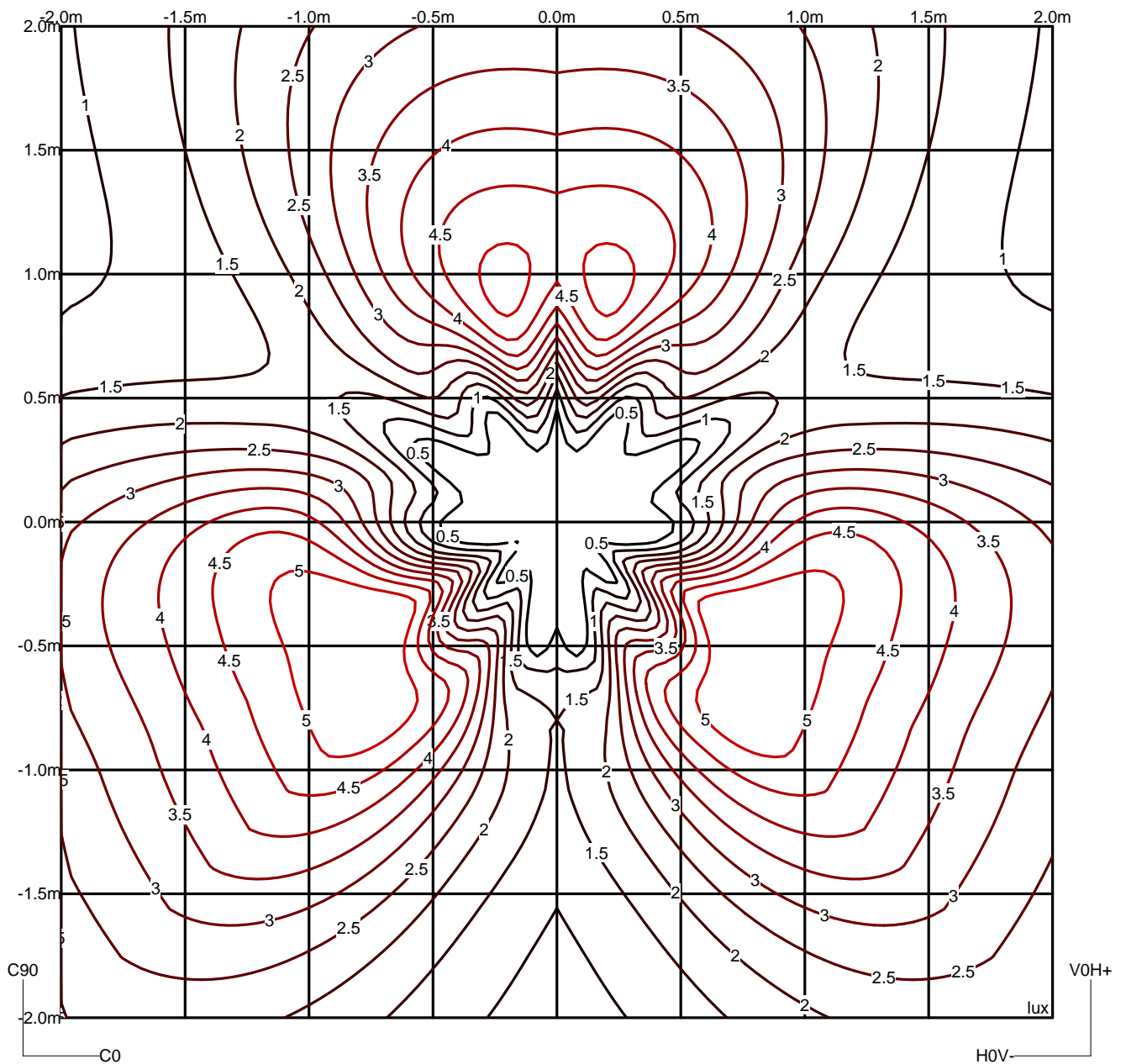
H[m]	D[m]	Max lux	Med lux	Alpha=9.4°+42.1°	G=23.0
1.00	1.91	51	12		
2.00	3.83	13	3		
3.00	5.74	6	1		
4.00	7.65	3	1		
5.00	9.57	2	0		

H[m]	D[m]	Max lux	Med lux	Beta=41.8°+6.8°	G=0.0
1.00	1.10	51	12		
2.00	2.20	13	3		
3.00	3.30	6	1		
4.00	4.40	3	1		
5.00	5.50	2	0		

Luminaire		Measur.		Lamp	
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Line	Eulumdat	Date	10-11-2011	Position	
Efficiency	100.00%	Coordinate system	CG	Total Flux	153.69 lm

Isolux (Floor)

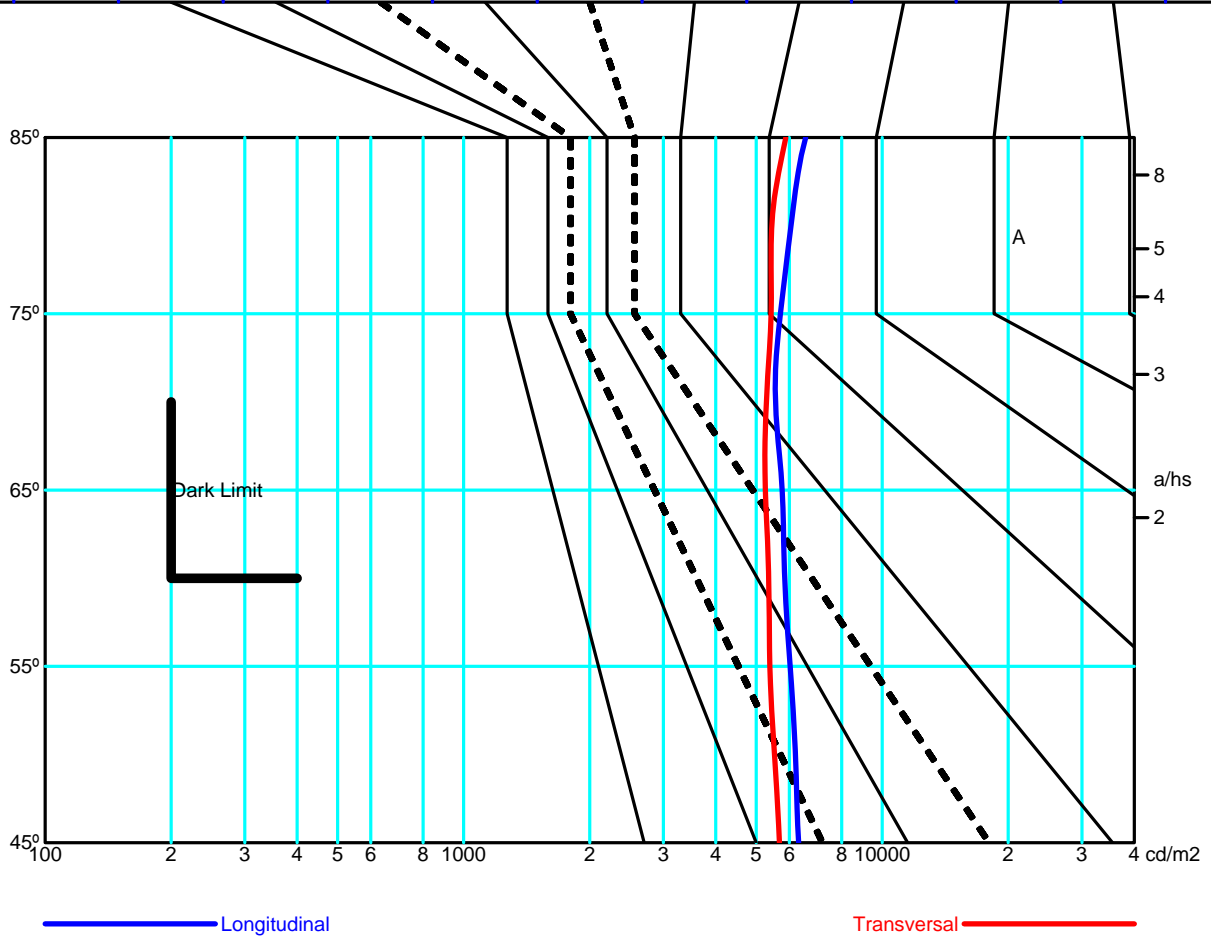
Luminaire position X=0.00m Y=0.00m Z=3.00m



Luminaire		Measur.		Lamp	
Code	55-9721	Code	55-9603	Code	55-9603
Name	Baliza leds difusor opal	Name	Baliza leds difusor opal	Number	1
Line	Eulumdat	Date	10-11-2011	Position	
Efficiency	100.00%	Coordinate system	CG	Total Flux	153.69 lm

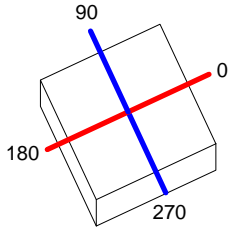
	Average Luminance [cd/m ²]										
	0.0°	45°	50°	55°	60°	65°	70°	75°	80°	85°	
90.0°	5679	5528	5388	5356	5257	5287	5426	5447	5886	---	
	6312	6204	6026	5847	5768	5556	5712	6054	6560	---	

Flush mounted or longitudinal view												
		Illumination(lx)										
A	A	2000	1000	750	500		<300					1.15
B	1		2000	1500	1000	750	500	<300				1.5
C					2000		1000	500	<300			1.85
D	2						2000	1000	500	<300		2.2
E	3							2000	1000	500	<300	2.55



Luminaire		Measur.		Lamp	
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Line	Eulumdat	Date	10-11-2011	Position	
Efficiency	100.00%	Coordinate system	CG	Total Flux	153.69 lm

123mm x 123mm



C Halfplanes
 270.0 ————
 180.0 ———— 0.0
 ———— 90.0



Luminaire		Measur.		Lamp	
Code	55-9721	Code	55-9603	Code	55-9603
Name	Baliza leds difusor opal	Name	Baliza leds difusor opal	Number	1
Line	Eulumdat	Date	10-11-2011	Position	
Efficiency	100.00%	Coordinate system	CG	Total Flux	153.69 lm

UGR
S = 0.250

Reflectancies										
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
WorkingPlane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
RoomDimensions	ViewedCrosswise					ViewedEndwise				
x=2H y=2H	17.6	19.0	18.0	19.3	17.5	15.4	16.7	15.7	17.1	17.5
x=2H y=3H	19.7	20.9	20.1	21.3	18.5	16.4	17.7	16.8	18.1	18.5
x=2H y=4H	20.7	21.9	21.2	22.3	18.9	16.9	18.1	17.4	18.5	18.9
x=2H y=6H	21.8	22.9	22.3	23.3	19.4	17.4	18.5	17.8	18.9	19.4
x=2H y=8H	22.3	23.4	22.8	23.8	19.6	17.6	18.7	18.1	19.1	19.6
x=2H y=12H	22.8	23.8	23.3	24.3	19.7	17.7	18.8	18.2	19.2	19.7
x=4H y=2H	18.3	19.5	18.8	19.9	19.5	17.5	18.7	17.9	19.1	19.5
x=4H y=3H	20.5	21.5	20.9	21.9	20.9	18.9	20.0	19.4	20.4	20.9
x=4H y=4H	21.6	22.5	22.1	23.0	21.5	19.6	20.5	20.1	21.0	21.5
x=4H y=6H	22.8	23.6	23.3	24.1	22.0	20.2	21.0	20.7	21.5	22.0
x=4H y=8H	23.4	24.1	23.9	24.7	22.2	20.4	21.2	20.9	21.7	22.2
x=4H y=12H	24.0	24.7	24.5	25.2	22.4	20.6	21.3	21.1	21.8	22.4
x=8H y=4H	22.0	22.8	22.6	23.3	22.6	20.8	21.5	21.3	22.0	22.6
x=8H y=6H	23.3	24.0	23.9	24.5	23.4	21.7	22.3	22.2	22.8	23.4
x=8H y=8H	24.0	24.6	24.6	25.1	23.8	22.0	22.6	22.6	23.2	23.8
x=8H y=12H	24.7	25.2	25.3	25.8	24.1	22.4	22.9	23.0	23.4	24.1
x=12H y=4H	22.1	22.8	22.7	23.4	22.7	20.9	21.6	21.5	22.2	22.7
x=12H y=6H	23.5	24.1	24.1	24.6	23.8	22.0	22.6	22.6	23.2	23.8
x=12H y=8H	24.2	24.7	24.8	25.3	24.3	22.6	23.1	23.2	23.6	24.3

Luminaire

Code 55-9721
 Name Baliza leds difusor opal
 Line Eulumdat

Measur.

Code 55-9603
 Name Baliza leds difusor opal
 Date 10-11-2011

Lamp

Code 55-9603
 Number 1
 Position

Efficiency 100.00% Coordinate system CG Total Flux 153.69 lm

Total Flux=153.69 Luminaire Flux=153.69

RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.24	0.32	0.39	0.46	0.51	0.60	0.66	0.70	0.76	0.79	0.88	0.93
RC	7	7	7	7	7	7	7	7	7	7	7	7

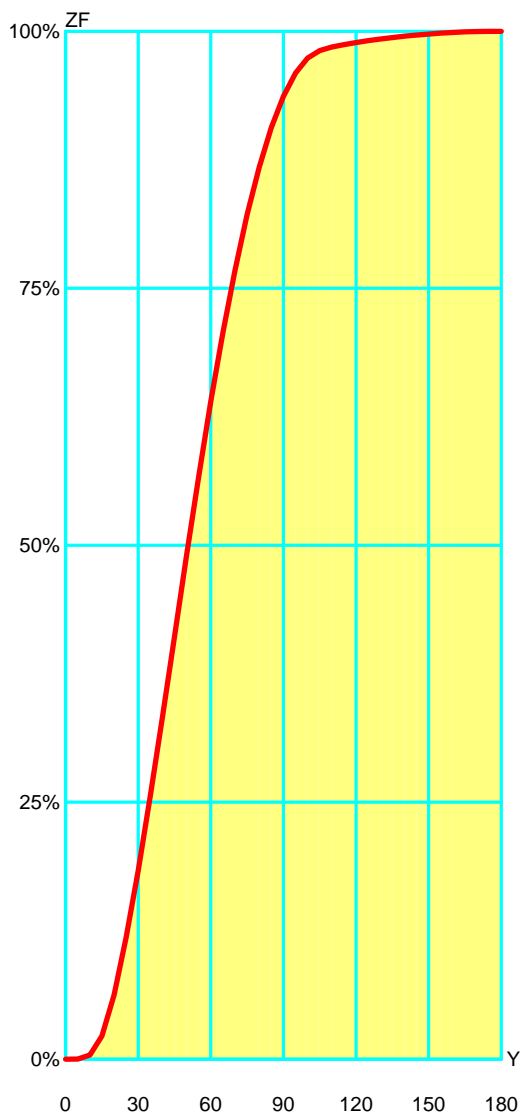
Zonal Flux per 1000 Lumen

Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	4	62	184	333	490	640	768	868	937	974	985	989	992	995	997	999	1000	1000

CIE Flux Codes

38 68 88 94 100

C.I.E.	7	LOR	100.00000 %
D DIN 5040	A21	ULOR	6.32221 %
F UTE	0.94 G + 0.06 T	DLOR	93.67778 %
B NBN	BZ 6	UFF	6.32221 %
RN	6.32221 %	DFF	93.67779 %
BLF	1.0	FFR	6.74889 %



Zonal Flux				
Gamma °	Flux	Sum lm	Flux [%]	Sum [%]
0°	0.00	0.00	0.00%	0.00%
5°	0.18	0.18	0.02%	0.02%
10°	3.85	4.04	0.39%	0.40%
15°	18.49	22.52	1.85%	2.25%
20°	39.95	62.47	4.00%	6.25%
25°	55.77	118.24	5.58%	11.82%
30°	65.42	183.66	6.54%	18.37%
35°	72.22	255.88	7.22%	25.59%
40°	76.77	332.65	7.68%	33.26%
45°	78.94	411.59	7.89%	41.16%
50°	78.80	490.39	7.88%	49.04%
55°	76.68	567.06	7.67%	56.71%
60°	72.67	639.74	7.27%	63.97%
65°	67.23	706.96	6.72%	70.70%
70°	60.85	767.81	6.08%	76.78%
75°	53.80	821.61	5.38%	82.16%
80°	46.27	867.88	4.63%	86.79%
85°	38.36	906.24	3.84%	90.62%
90°	30.54	936.78	3.05%	93.68%
95°	22.68	959.46	2.27%	95.95%
100°	14.42	973.88	1.44%	97.39%
105°	7.34	981.23	0.73%	98.12%
110°	3.49	984.71	0.35%	98.47%
115°	2.35	987.06	0.23%	98.71%
120°	2.04	989.10	0.20%	98.91%
125°	1.79	990.89	0.18%	99.09%
130°	1.60	992.50	0.16%	99.25%
135°	1.44	993.94	0.14%	99.39%
140°	1.29	995.23	0.13%	99.52%
145°	1.15	996.37	0.11%	99.64%
150°	1.00	997.37	0.10%	99.74%
155°	0.85	998.22	0.08%	99.82%
160°	0.68	998.90	0.07%	99.89%
165°	0.51	999.41	0.05%	99.94%
170°	0.34	999.75	0.03%	99.97%
175°	0.19	999.94	0.02%	99.99%
180°	0.06	1000.00	0.01%	100.00%

