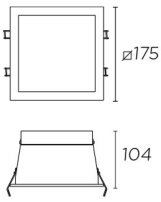


## EQUAL S

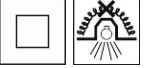
## 90-2029-N3-OE

Downlight EQUAL S 29.6W 4000K CRI 80 Grey IP54 2746lm

### TECHNICAL FEATURES



IP54



Power (W) : 29.6W

Total power consumption of light (W) : 31.5W

Raw lumens : 2746

Raw lm/W : 87

Colour temperature : LED neutral-white 4000K

Structure material : Aluminium

Structure finish : Grey

Diffuser material : Methacrylate

Diffuser finish : Tinted

Useful life : 50.000h L80B20

Equipment included : Yes, electronic

Brand : TRIDONIC

Voltage / frequency : 220-240VAC/50-60Hz

Warranty : 2 Years

Max. temperature : 25°C

### LUMINOTECHNIC FEATURES

Light source: LED CREE

CRI: 80

MacAdam steps: 2

Photobiological risk: RG1

### EMERGENCY MODULE FEATURES

Emergency equipment: 3H

### LOGISTICS

Net weight (kg): 2.12

Packaged weight (kg): 2.48

Packaging: 360mm x 250mm x 185mm

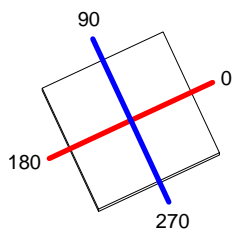


1 Un

<b>Luminaire</b>		<b>Measur.</b>		<b>Lamp</b>		
Code	90-2029	Code	90-2027	Code	L2029 29.6W 80 4000K	
Name	EQUAL S 29.6W 840 175x175mm	Name	EQUAL S 29.6W 840 175x175mm	Number	1	
Line	Eulumdat	Date	01-12-2014	Position		
Efficiency	100.00%	Coordinate system	CG	Total Flux	2745.57 lm	
Maximum value	1295.38 cd	Position	C=0.00 G=0.00	Double Symmetrical		
Rectangular Luminaire	Length	175 mm	Width	175 mm	Height	3 mm
Rectangular Luminous Area	Length	142 mm	Width	142 mm	Height	0 mm
Horizontal Luminous Area	0.020164 m2	Emitting area on Plane 180°		0.000000 m2		
Emitting area on Plane 0°	0.000000 m2	Emitting area on Plane 270°		0.000000 m2		
Emitting area on Plane 90°	0.000000 m2	Glare area at 76°		0.004878 m2		
Symmetry Type	Double Symmetrical	Maximum Gamma Angle	90			
Measurement Distance	0.00	Measurement Flux	2745.57 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	L2029 29.6W 80 4000K	L2029 29.6W 80 4000K - 30.00 W	2745.57	30.00	1
C.I.E.	62 89 98 100 100	D DIN 5040	A50		
F UTE	1.00 C	B NBN	BZ 3		

175mm x 175mm



**C Halfplanes**

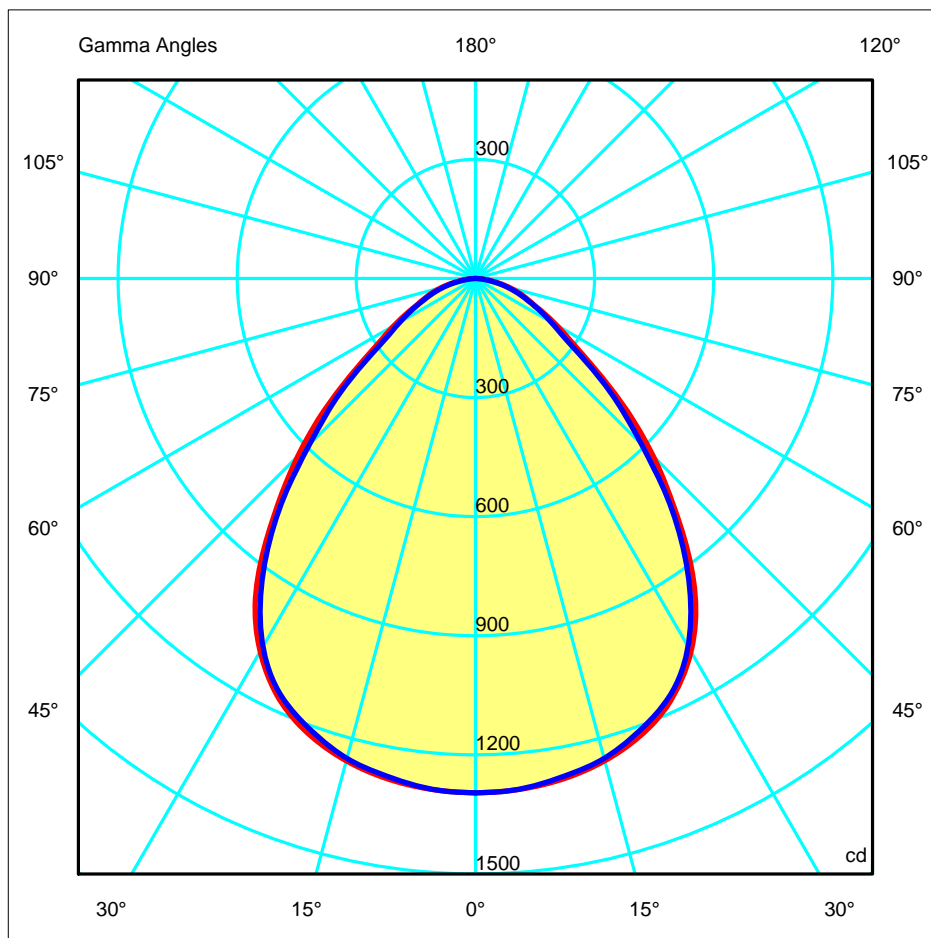
180.0 — 0.0

270.0 — 90.0

ULOR 0.00 %

DLOR 100.00 %

RN 0.00 %

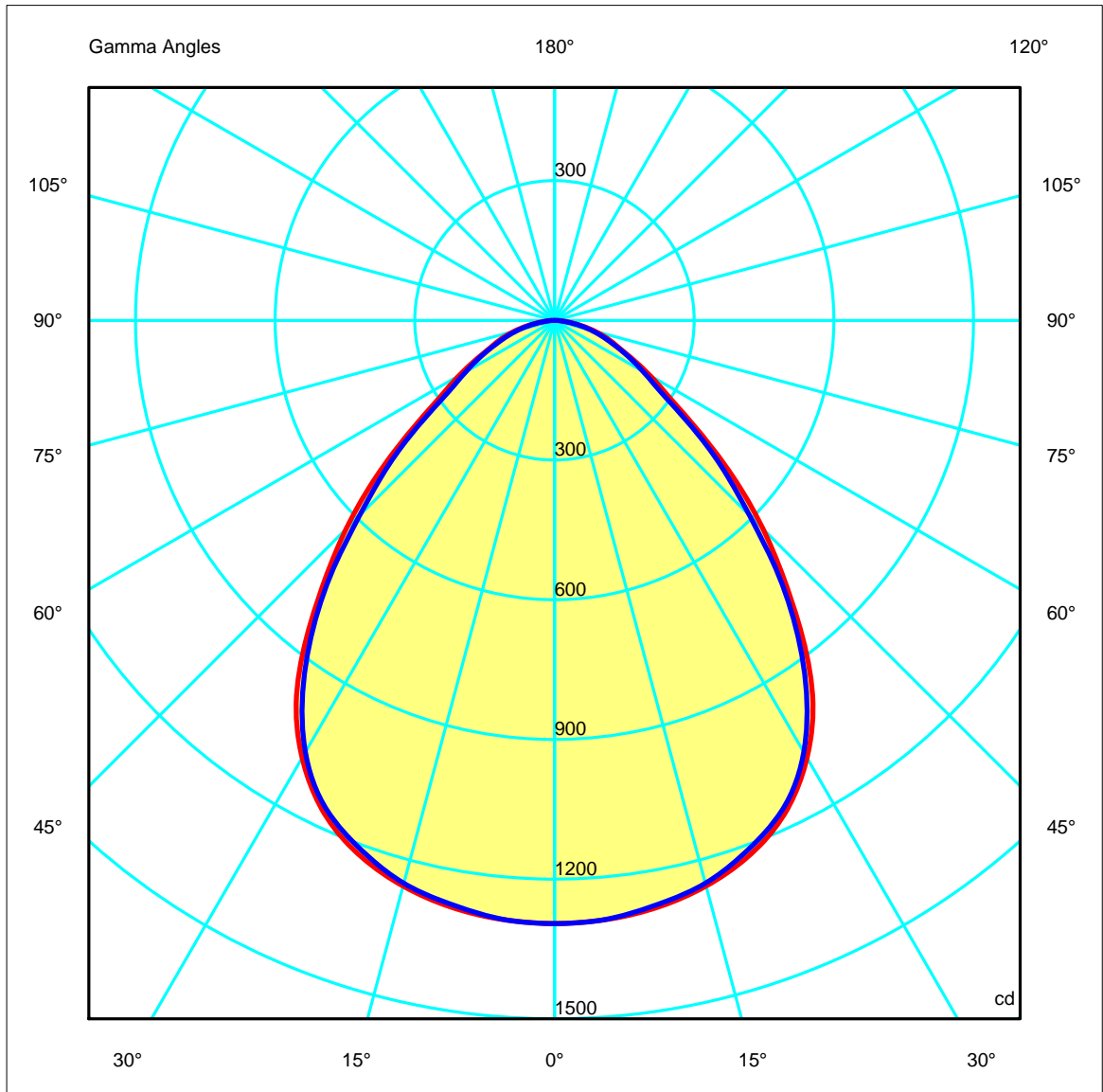
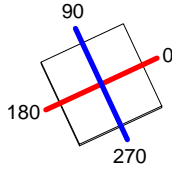


<b>Luminaire</b>		<b>Measur.</b>		<b>Lamp</b>	
Code	90-2029	Code	90-2027	Code	L2029 29.6W 80 4000K
Name	EQUAL S 29.6W 840 175x175mm	Name	EQUAL S 29.6W 840 175x175mm	Number	1
Line	Eulmdat	Date	01-12-2014	Position	
Efficiency	100.00%	Coordinate system	CG	Total Flux	2745.57 lm

175mm x 175mm

C Halfplanes

180.0 ——— 0.0  
 270.0 ——— 90.0



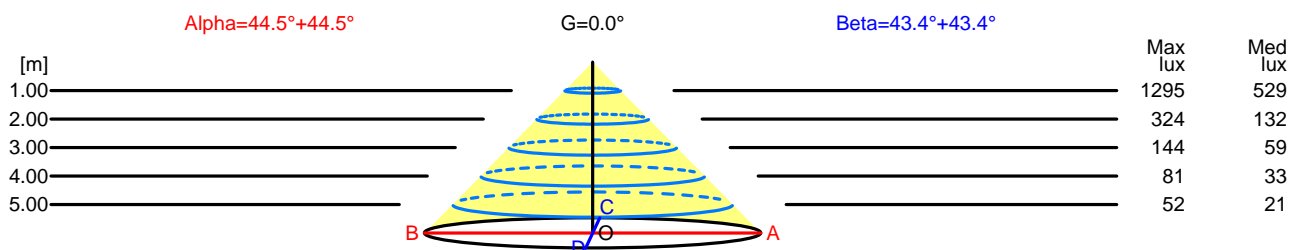
<b>Luminaire</b>	<b>Measur.</b>	<b>Lamp</b>
Code 90-2029	Code 90-2027	Code L2029 29.6W 80 4000K
Name EQUAL S 29.6W 840 175x175mm	Name EQUAL S 29.6W 840 175x175mm	Number 1
Line Eulumdat	Date 01-12-2014	Position

Efficiency 100.00%	Coordinate system CG	Total Flux 2745.57 lm
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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	0.98	1.97	2.95	3.94	4.92		OC	0.95	1.89	2.84	3.79	4.73
	OB	0.98	1.97	2.95	3.94	4.92		OD	0.95	1.89	2.84	3.79	4.73

		Luminous Intensities [ cd ]									
		0	5	15	25	35	45	55	65	75	85
OA		1295.38	1291.41	1257.54	1169.20	964.28	632.80	321.75	170.04	89.89	23.18
OB		1295.38	1291.41	1257.54	1169.20	964.28	632.80	321.75	170.04	89.89	23.18
OC		1295.38	1290.74	1251.25	1158.74	937.66	591.79	296.48	164.45	82.50	18.36
OD		1295.38	1290.74	1251.25	1158.74	937.66	591.79	296.48	164.45	82.50	18.36



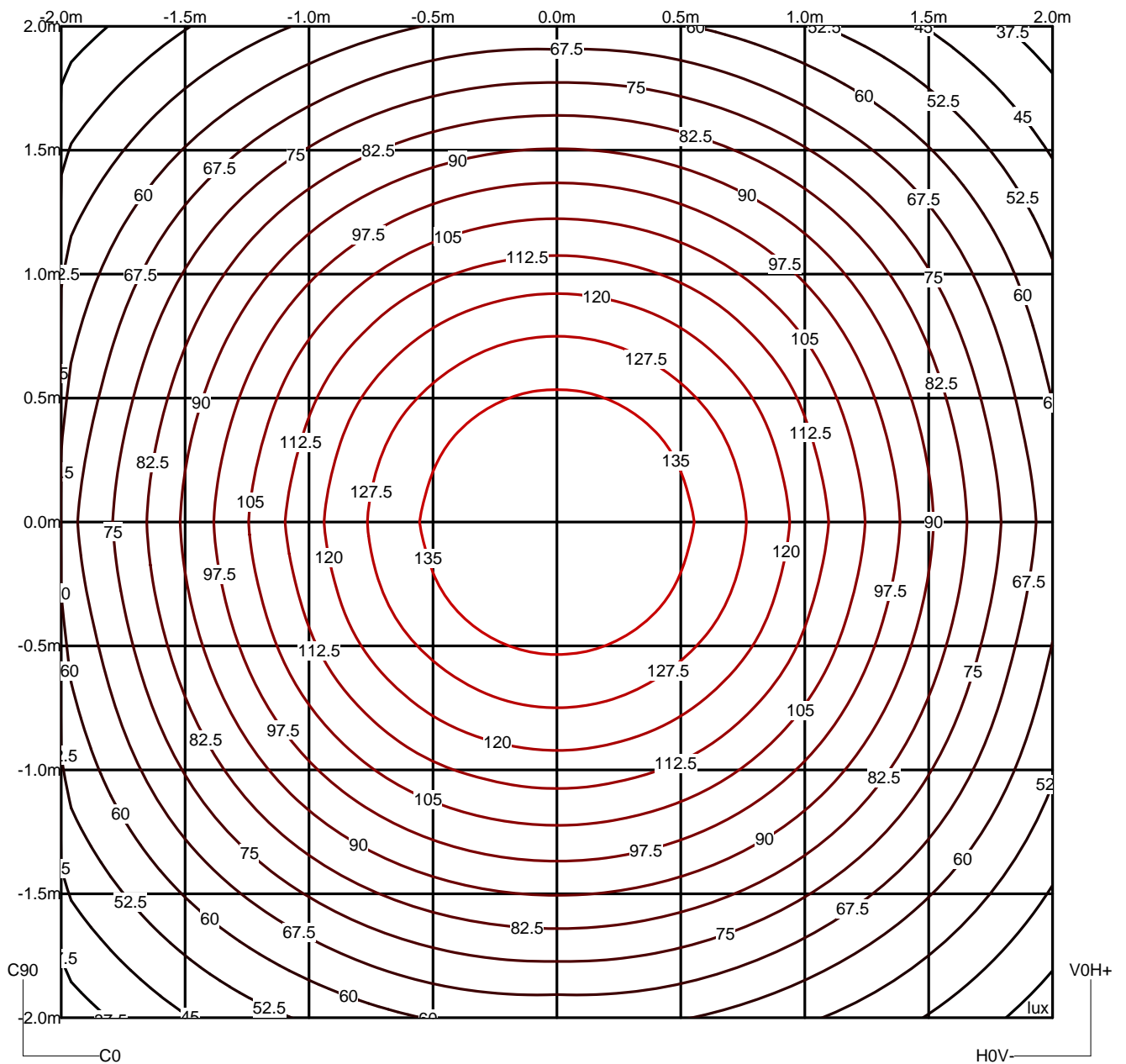
H[m]	D[m]	Max lux	Med lux	Alpha=44.5°+44.5°	G=0.0	
1.00	1.97	1295	529		G=0.0	
2.00	3.94	324	132			
3.00	5.90	144	59			
4.00	7.87	81	33			
5.00	9.84	52	21			

H[m]	D[m]	Max lux	Med lux	Beta=43.4°+43.4°	G=0.0	
1.00	1.89	1295	529		G=0.0	
2.00	3.79	324	132			
3.00	5.68	144	59			
4.00	7.58	81	33			
5.00	9.47	52	21			

<b>Luminaire</b>		<b>Measur.</b>		<b>Lamp</b>	
Code	90-2029	Code	90-2027	Code	L2029 29.6W 80 4000K
Name	EQUAL S 29.6W 840 175x175mm	Name	EQUAL S 29.6W 840 175x175mm	Number	1
Line	Eulumdat	Date	01-12-2014	Position	
Efficiency	100.00%	Coordinate system	CG	Total Flux	2745.57 lm

Isolux (Floor)

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



**Luminaire**

Code 90-2029  
 Name EQUAL S 29.6W 840 175x175mm  
 Line Eulumdat

**Measur.**

Code 90-2027  
 Name EQUAL S 29.6W 840 175x175mm  
 Date 01-12-2014

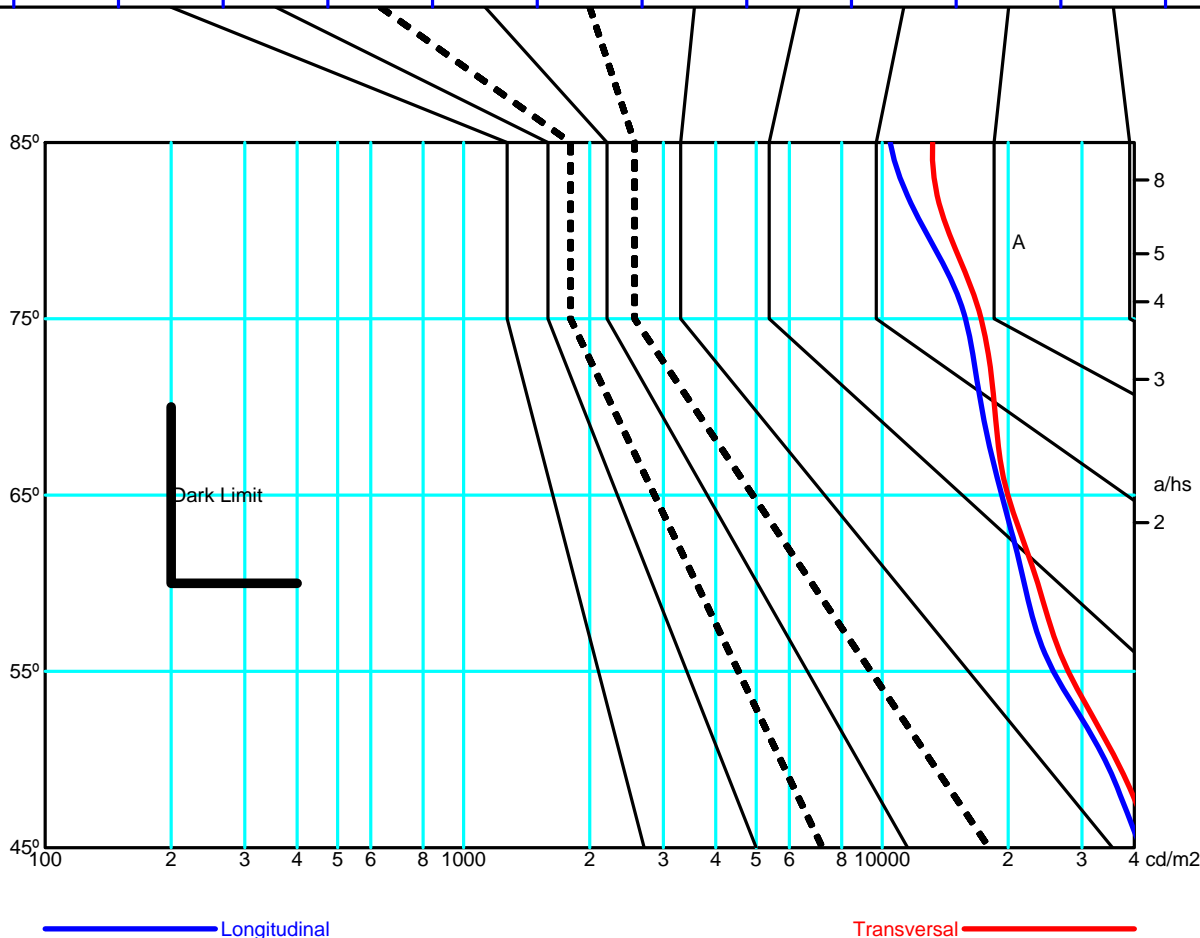
**Lamp**

Code L2029 29.6W 80 4000K  
 Number 1  
 Position

Efficiency 100.00%      Coordinate system CG      Total Flux 2745.57 lm

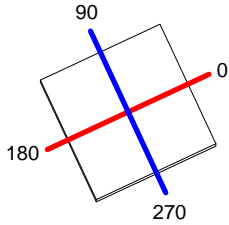
		Average Luminance [cd/m <sup>2</sup> ]									
		45°	50°	55°	60°	65°	70°	75°	80°	85°	
0.0°		44382	36206	27820	23527	19954	18553	17224	14356	13193	---
90.0°		41506	33996	25635	21856	19298	17258	15808	12653	10446	---

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



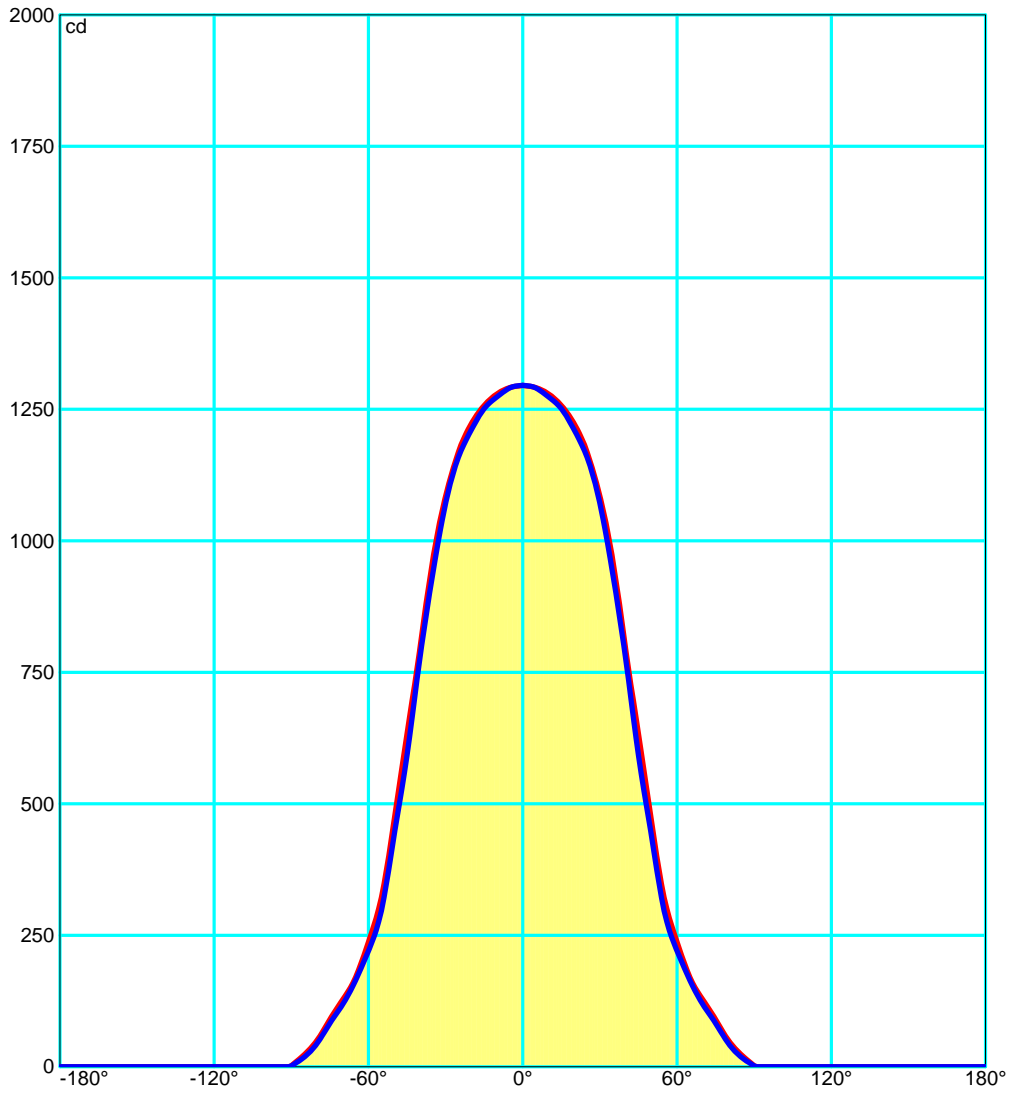
Luminaire		Measur.		Lamp	
Code	90-2029	Code	90-2027	Code	L2029 29.6W 80 4000K
Name	EQUAL S 29.6W 840 175x175mm	Name	EQUAL S 29.6W 840 175x175mm	Number	1
Line	Eulumat	Date	01-12-2014	Position	
Efficiency	100.00%	Coordinate system	CG	Total Flux	2745.57 lm

175mm x 175mm



C Halfplanes

180.0 ——— 0.0  
270.0 ——— 90.0



<b>Luminaire</b>	<b>Measur.</b>	<b>Lamp</b>
Code 90-2029	Code 90-2027	Code L2029 29.6W 80 4000K
Name EQUAL S 29.6W 840 175x175mm	Name EQUAL S 29.6W 840 175x175mm	Number 1
Line Eulumdat	Date 01-12-2014	Position
Efficiency 100.00%	Coordinate system CG	Total Flux 2745.57 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	23.6	24.7	23.9	25.0	25.2	23.6	24.7	23.9	25.0	25.2
x=2H y=3H	24.3	25.3	24.6	25.5	25.8	24.3	25.3	24.6	25.5	25.8
x=2H y=4H	24.6	25.6	24.9	25.8	26.1	24.6	25.5	24.9	25.8	26.1
x=2H y=6H	24.8	25.7	25.2	26.0	26.3	24.8	25.7	25.1	25.9	26.3
x=2H y=8H	24.9	25.7	25.3	26.0	26.3	24.8	25.7	25.2	26.0	26.3
x=2H y=12H	24.9	25.7	25.3	26.1	26.3	24.8	25.6	25.2	26.0	26.3
x=4H y=2H	24.1	25.1	24.5	25.4	25.6	24.1	25.1	24.5	25.4	25.6
x=4H y=3H	25.0	25.8	25.4	26.1	26.4	25.0	25.8	25.3	26.1	26.4
x=4H y=4H	25.4	26.1	25.8	26.4	26.8	25.4	26.1	25.8	26.4	26.8
x=4H y=6H	25.7	26.3	26.1	26.7	27.0	25.7	26.3	26.1	26.6	27.0
x=4H y=8H	25.8	26.3	26.2	26.7	27.1	25.7	26.3	26.2	26.7	27.1
x=4H y=12H	25.9	26.4	26.3	26.8	27.1	25.8	26.3	26.2	26.7	27.1
x=8H y=4H	25.6	26.1	26.0	26.5	26.9	25.6	26.1	26.0	26.5	26.9
x=8H y=6H	26.0	26.4	26.4	26.8	27.2	25.9	26.4	26.4	26.8	27.2
x=8H y=8H	26.1	26.5	26.6	26.9	27.4	26.1	26.5	26.5	26.9	27.4
x=8H y=12H	26.2	26.5	26.7	27.0	27.5	26.2	26.5	26.7	27.0	27.5
x=12H y=4H	25.6	26.1	26.0	26.5	26.9	25.6	26.1	26.0	26.5	26.9
x=12H y=6H	26.0	26.4	26.5	26.8	27.3	26.0	26.4	26.4	26.8	27.3
x=12H y=8H	26.1	26.5	26.6	26.9	27.4	26.1	26.4	26.6	26.9	27.4



<b>Luminaire</b>	<b>Measur.</b>	<b>Lamp</b>
Code 90-2029	Code 90-2027	Code L2029 29.6W 80 4000K
Name EQUAL S 29.6W 840 175x175mm	Name EQUAL S 29.6W 840 175x175mm	Number 1
Line Eulumdat	Date 01-12-2014	Position

Efficiency	100.00%	Coordinate system	CG	Total Flux	2745.57 lm
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Total Flux=2745.57 Luminaire Flux=2745.57

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	0.41	0.50	0.57	0.64	0.69	0.76	0.81	0.85	0.88	0.90	0.95	0.97
RC	3	3	3	3	3	3	3	3	3	3	2	2

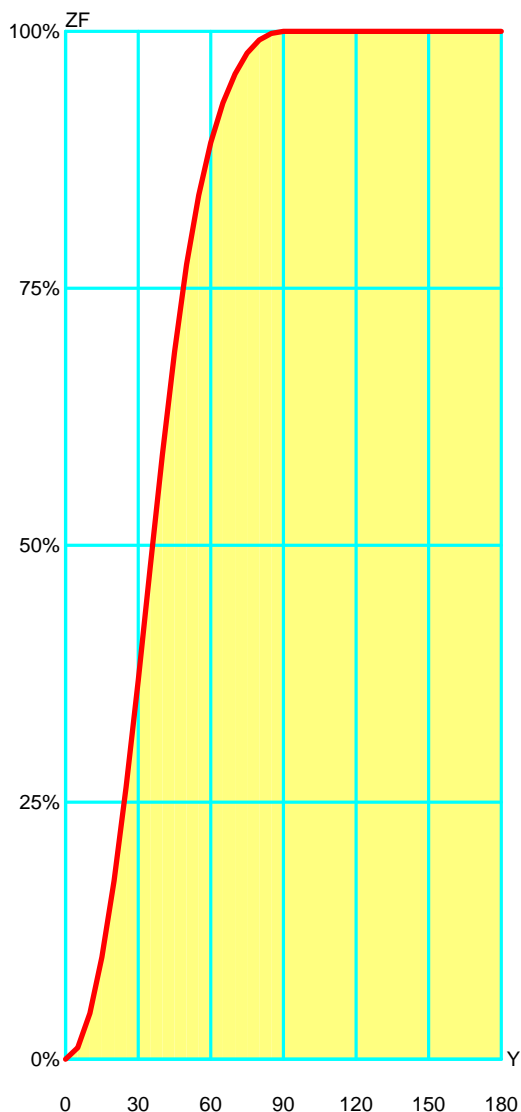
Zonal Flux per 1000 Lumen

Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	45	173	368	588	773	892	959	991	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

CIE Flux Codes

62 89 98 100 100

C.I.E.	3/3/3/3/3/3/3/3/2/2	LOR	99.99987 %
D DIN 5040	A50	ULOR	0.00000 %
F UTE	1.00 C	DLOR	99.99987 %
B NBN	BZ 3	UFF	0.00000 %
RN	0.00000 %	DFF	100.00000 %
BLF	1.0	FFR	0.00000 %



Zonal Flux				
Gamma °	Flux	Sum lm	Flux [%]	Sum [%]
0°	0.00	0.00	0.00%	0.00 %
5°	11.26	11.26	1.13 %	1.13 %
10°	33.43	44.69	3.34 %	4.47 %
15°	54.62	99.31	5.46 %	9.93 %
20°	74.15	173.46	7.42 %	17.35 %
25°	91.06	264.52	9.11 %	26.45 %
30°	103.93	368.45	10.39 %	36.84 %
35°	110.54	478.98	11.05 %	47.90 %
40°	109.30	588.28	10.93 %	58.83 %
45°	99.98	688.26	10.00 %	68.83 %
50°	85.03	773.29	8.50 %	77.33 %
55°	67.40	840.69	6.74 %	84.07 %
60°	51.12	891.81	5.11 %	89.18 %
65°	38.52	930.32	3.85 %	93.03 %
70°	28.25	958.58	2.83 %	95.86 %
75°	20.14	978.72	2.01 %	97.87 %
80°	12.74	991.46	1.27 %	99.15 %
85°	6.42	997.88	0.64 %	99.79 %
90°	2.11	1000.00	0.21 %	100.00 %
95°	0.00	1000.00	0.00 %	100.00 %
100°	0.00	1000.00	0.00 %	100.00 %
105°	0.00	1000.00	0.00 %	100.00 %
110°	0.00	1000.00	0.00 %	100.00 %
115°	0.00	1000.00	0.00 %	100.00 %
120°	0.00	1000.00	0.00 %	100.00 %
125°	0.00	1000.00	0.00 %	100.00 %
130°	0.00	1000.00	0.00 %	100.00 %
135°	0.00	1000.00	0.00 %	100.00 %
140°	0.00	1000.00	0.00 %	100.00 %
145°	0.00	1000.00	0.00 %	100.00 %
150°	0.00	1000.00	0.00 %	100.00 %
155°	0.00	1000.00	0.00 %	100.00 %
160°	0.00	1000.00	0.00 %	100.00 %
165°	0.00	1000.00	0.00 %	100.00 %
170°	0.00	1000.00	0.00 %	100.00 %
175°	0.00	1000.00	0.00 %	100.00 %
180°	0.00	1000.00	0.00 %	100.00 %

