

Luminaire		Measur.		Lamp	
Code	SOHO 57 LED	Code	SOHO 57 LED	Code	SOHO 57 LED
Name	SOHO 57 LED 38.4W 3000K opal	Name	SOHO 57 LED 38.4W 3000K opal	Number	1
Line	- MARSET	Date	29-04-2015	Position	Universal
Efficiency	100.00%	Coordinate system	CG	Total Flux	3240.81 lm
Maximum value	381.98 cd/klm	Position	C=0.00 G=0.00	Double Symmetrical	
Round Luminaire	Diam.	570 mm	Height	300 mm	
Round Luminous Area	Diam.	530 mm	Height	0 mm	
Horizontal Luminous Area	0.220618 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°	0.053372 m2	
Symmetry Type	Double Symmetrical	Maximum Gamma Angle	90		
Measurement Distance	6.44	Measurement Flux	3240.81 lm		
Operator	Asselum T2	Source voltage	230.00 V		
Temperature	20.00 °C	Source current			
Humidity	56.00 %	Photocell	Prc		
Notes					

Luminaire Lamps					
Line	Code	Name	Flux [lm]	Pow. [W]	Q.ty
- MARSET	SOHO 57 LED	Lámpara led 38.4W 3000K	3240.81	38.00	1
C.I.E.	50 81 97 100 100	D DIN 5040			
F UTE	1.00 E	B NBN		A30	
				BZ 4	

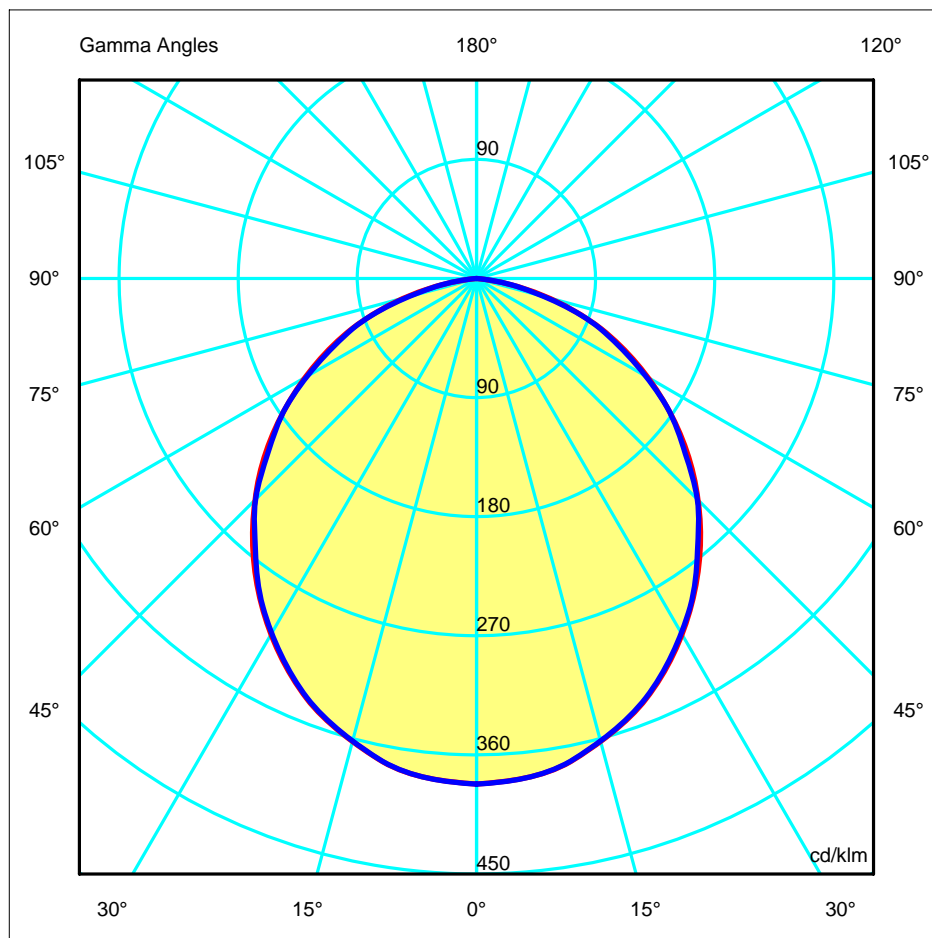
Diam=570mm



C Halfplanes

180.0 — 0.0
270.0 — 90.0

ULOR 0.00 %
DLOR 100.00 %
RN 0.00 %



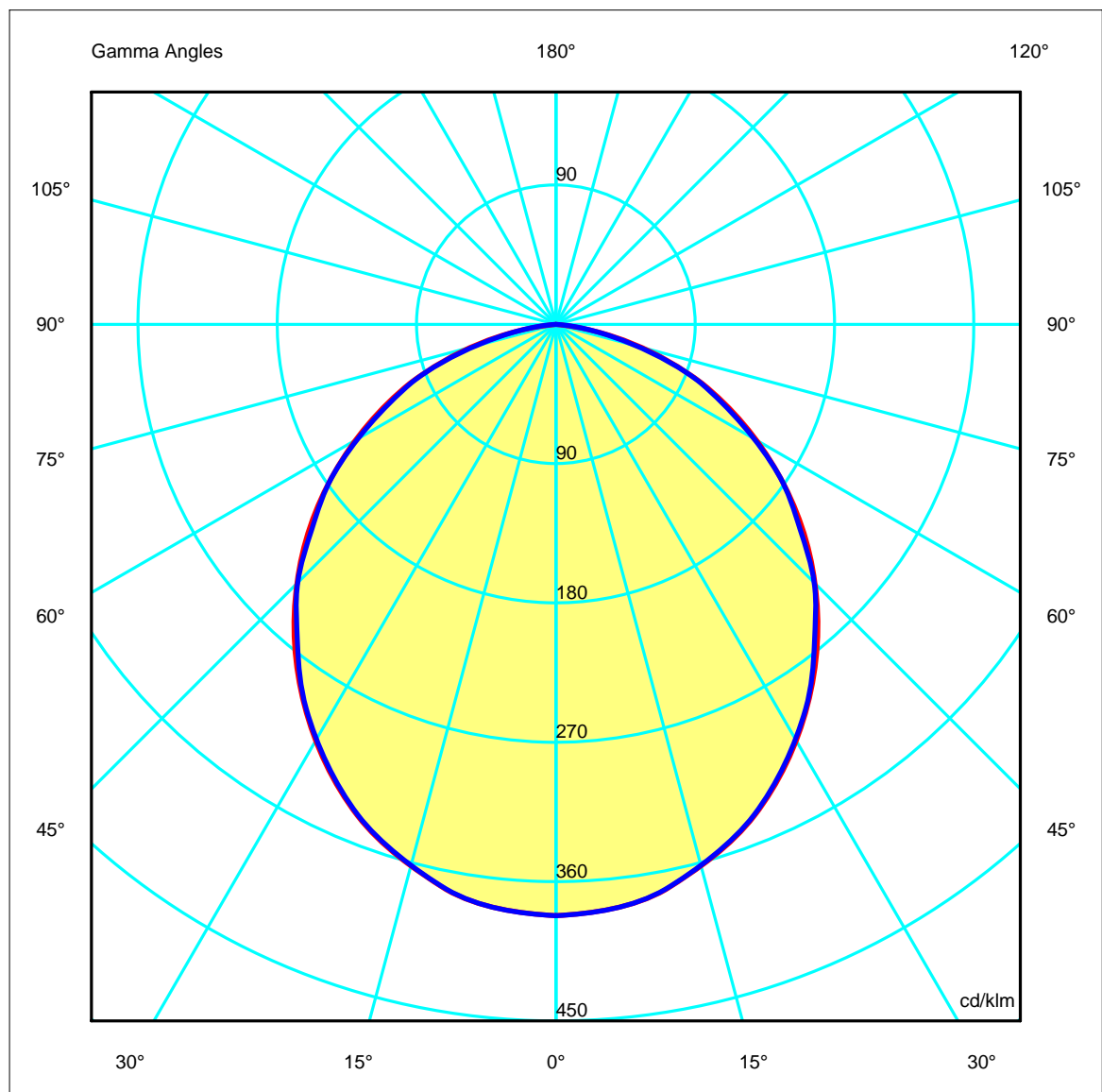
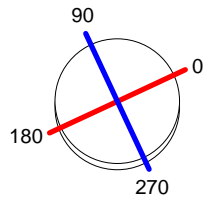
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Maximum value	381.98 cd/klm	Position	C=0.00 G=0.00	Double Symmetrical			
Luminous Intensity Table cd/klm Table 1/1							
	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	381.98	381.98	381.98	381.98	381.98	381.98	381.98
G 5.0	379.59	379.67	379.93	379.65	379.56	379.57	379.64
G 10.0	373.89	373.76	374.38	373.45	373.68	373.61	373.68
G 15.0	362.05	362.29	363.06	361.75	361.83	361.65	361.67
G 20.0	348.90	348.88	349.94	348.67	348.31	348.34	348.24
G 25.0	331.24	331.47	331.17	330.77	330.14	329.88	330.39
G 30.0	310.54	310.48	311.98	309.65	309.64	309.31	309.42
G 35.0	287.45	287.13	290.38	287.87	287.44	287.25	286.54
G 40.0	263.27	261.19	263.59	260.56	260.99	260.15	260.22
G 45.0	236.51	237.25	239.62	236.47	235.71	236.26	235.93
G 50.0	209.18	209.09	210.80	207.99	207.03	206.10	205.94
G 55.0	179.51	180.67	183.57	179.85	179.00	179.52	179.31
G 60.0	149.29	149.96	151.75	149.51	146.89	147.43	147.73
G 65.0	120.03	118.67	122.01	118.01	118.60	117.49	117.14
G 70.0	89.17	89.94	93.18	88.50	88.15	88.92	88.50
G 75.0	56.20	54.84	57.59	54.06	54.29	53.34	52.94
G 80.0	25.74	26.12	29.56	26.04	25.48	25.69	25.78
G 85.0	3.51	3.53	4.78	3.80	3.97	3.46	4.04
G 90.0	0.65	0.65	0.65	0.65	0.65	0.64	0.64

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Diam=570mm

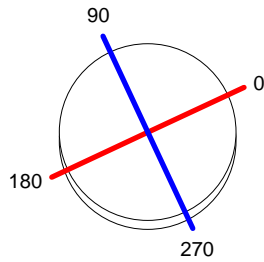
C Halfplanes

180.0 — 0.0
270.0 — 90.0

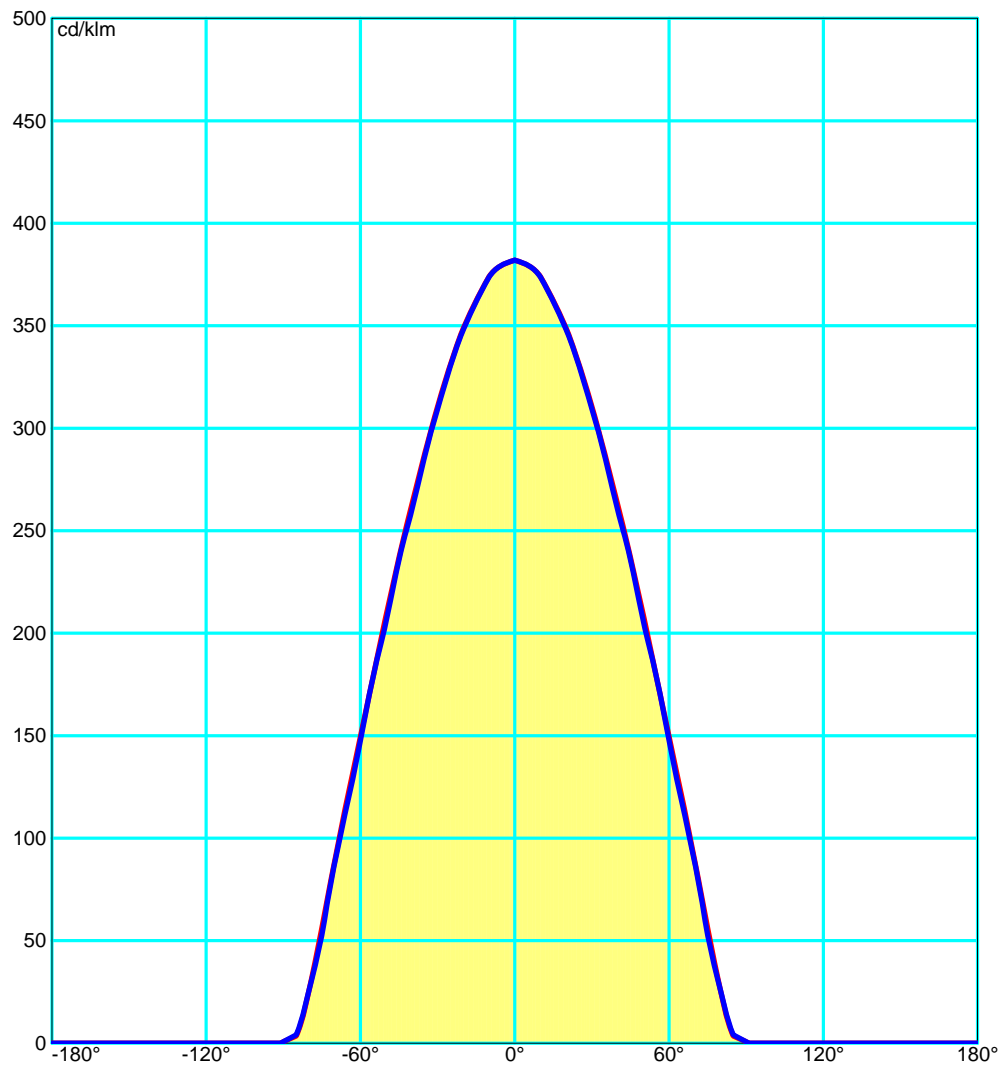


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C Halfplanes



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Efficiency	100.00%	Coordinate system	CG	Total Flux	3240.81 lm
Maximum value	381.98 cd/klm	Position	C=0.00 G=0.00	Double Symmetrical	

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										
RoomDimensions	ViewedCrosswise					ViewedEndwise				
x=2H y=2H	17.8	19.0	18.1	19.3	19.4	17.7	18.9	18.0	19.2	19.4
x=2H y=3H	19.3	20.4	19.6	20.7	20.9	19.2	20.3	19.5	20.6	20.9
x=2H y=4H	19.8	20.9	20.1	21.1	21.3	19.7	20.8	20.0	21.0	21.3
x=2H y=6H	20.0	21.0	20.4	21.3	21.5	19.9	20.9	20.3	21.2	21.5
x=2H y=8H	20.0	21.0	20.4	21.3	21.6	19.9	20.9	20.3	21.2	21.6
x=2H y=12H	20.0	21.0	20.4	21.3	21.5	19.9	20.9	20.3	21.2	21.5
x=4H y=2H	18.5	19.6	18.8	19.9	20.1	18.4	19.5	18.8	19.8	20.1
x=4H y=3H	20.2	21.1	20.6	21.5	21.7	20.1	21.0	20.5	21.3	21.7
x=4H y=4H	20.8	21.6	21.2	22.0	22.2	20.7	21.5	21.1	21.8	22.2
x=4H y=6H	21.1	21.8	21.5	22.2	22.5	21.0	21.7	21.4	22.1	22.5
x=4H y=8H	21.2	21.8	21.6	22.2	22.5	21.0	21.7	21.5	22.1	22.5
x=4H y=12H	21.2	21.8	21.6	22.2	22.5	21.0	21.6	21.5	22.0	22.5
x=8H y=4H	21.0	21.7	21.5	22.1	22.4	20.9	21.6	21.4	22.0	22.4
x=8H y=6H	21.5	22.0	21.9	22.4	22.7	21.3	21.8	21.8	22.3	22.7
x=8H y=8H	21.6	22.0	22.0	22.5	22.8	21.4	21.9	21.9	22.3	22.8
x=8H y=12H	21.6	22.0	22.0	22.4	22.8	21.4	21.8	21.9	22.3	22.8
x=12H y=4H	21.0	21.6	21.5	22.0	22.4	20.9	21.5	21.4	21.9	22.4
x=12H y=6H	21.5	21.9	22.0	22.4	22.7	21.3	21.8	21.8	22.2	22.7
x=12H y=8H	21.6	22.0	22.1	22.4	22.8	21.4	21.8	21.9	22.3	22.8

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Total Flux=3240.81 Luminaire Flux=3240.80

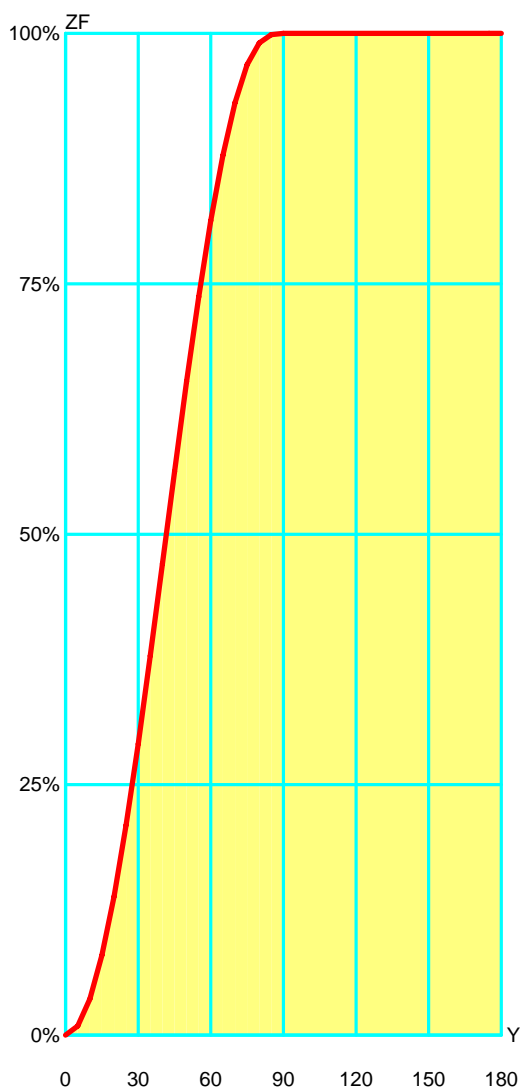
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.32	0.41	0.48	0.56	0.61	0.70	0.76	0.80	0.85	0.87	0.94	0.97
RC	5	5	5	5	4	4	4	4	4	4	4	3

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)	36	138	291	470	653	813	931	991	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

CIE Flux Codes
50 81 97 100 100

C.I.E. 5/5/5/5/4/4/4/4/4/3
D DIN 5040 A30
F UTE 1.00 E
B NBN BZ 4
RN 0.00000 %
BLF 1.0

LOR 99.99978 %
ULOR 0.00000 %
DLOR 99.99978 %
UFF 0.00000 %
DFF 100.00000 %
FFR 0.00000 %



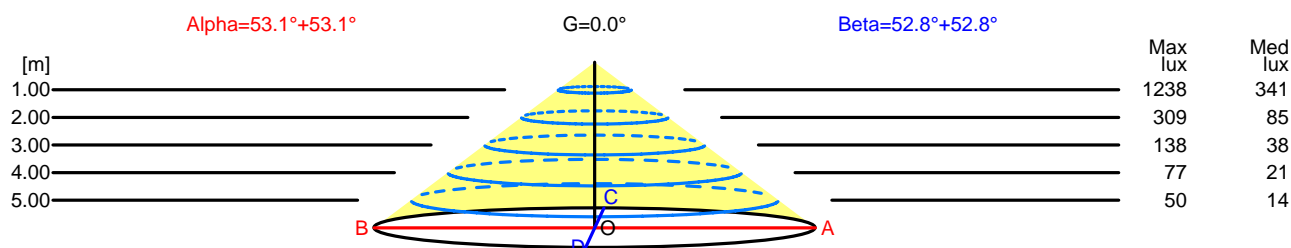
Zonal Flux				
Gamma °	Flux	Sum lm	Flux [%]	Sum [%]
0°	0.00	0.00	0.00%	0.00 %
5°	9.11	9.11	0.91 %	0.91 %
10°	26.95	36.06	2.70 %	3.61 %
15°	43.65	79.71	4.37 %	7.97 %
20°	58.58	138.29	5.86 %	13.83 %
25°	71.27	209.56	7.13 %	20.96 %
30°	81.10	290.66	8.11 %	29.07 %
35°	88.06	378.73	8.81 %	37.87 %
40°	91.63	470.36	9.16 %	47.04 %
45°	92.26	562.62	9.23 %	56.26 %
50°	89.92	652.54	8.99 %	65.25 %
55°	84.46	737.00	8.45 %	73.70 %
60°	76.13	813.13	7.61 %	81.31 %
65°	65.13	878.26	6.51 %	87.83 %
70°	52.79	931.04	5.28 %	93.10 %
75°	37.74	968.78	3.77 %	96.88 %
80°	21.73	990.51	2.17 %	99.05 %
85°	8.24	998.76	0.82 %	99.88 %
90°	1.24	1000.00	0.12 %	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 %

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Line	- MARSET	Date	29-04-2015	Position	Universal
Efficiency	100.00%	Coordinate system	CG	Total Flux	3240.81 lm
Maximum value	381.98 cd/klm	Position	C=0.00 G=0.00	Double Symmetrical	

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	1.33	2.66	4.00	5.33	6.66	OC	1.32	2.64	3.95	5.27	6.59
OB	1.33	2.66	4.00	5.33	6.66	OD	1.32	2.64	3.95	5.27	6.59

	Luminous Intensities [cd/klm]									
	0	5	15	25	35	45	55	65	75	85
OA	1237.92	1230.19	1173.32	1073.49	931.57	766.47	581.77	388.99	182.13	11.38
OB	1237.92	1230.19	1173.32	1073.49	931.57	766.47	581.77	388.99	182.13	11.38
OC	1237.92	1230.33	1172.11	1070.75	928.62	764.61	581.10	379.62	171.56	13.10
OD	1237.92	1230.33	1172.11	1070.75	928.62	764.61	581.10	379.62	171.56	13.10



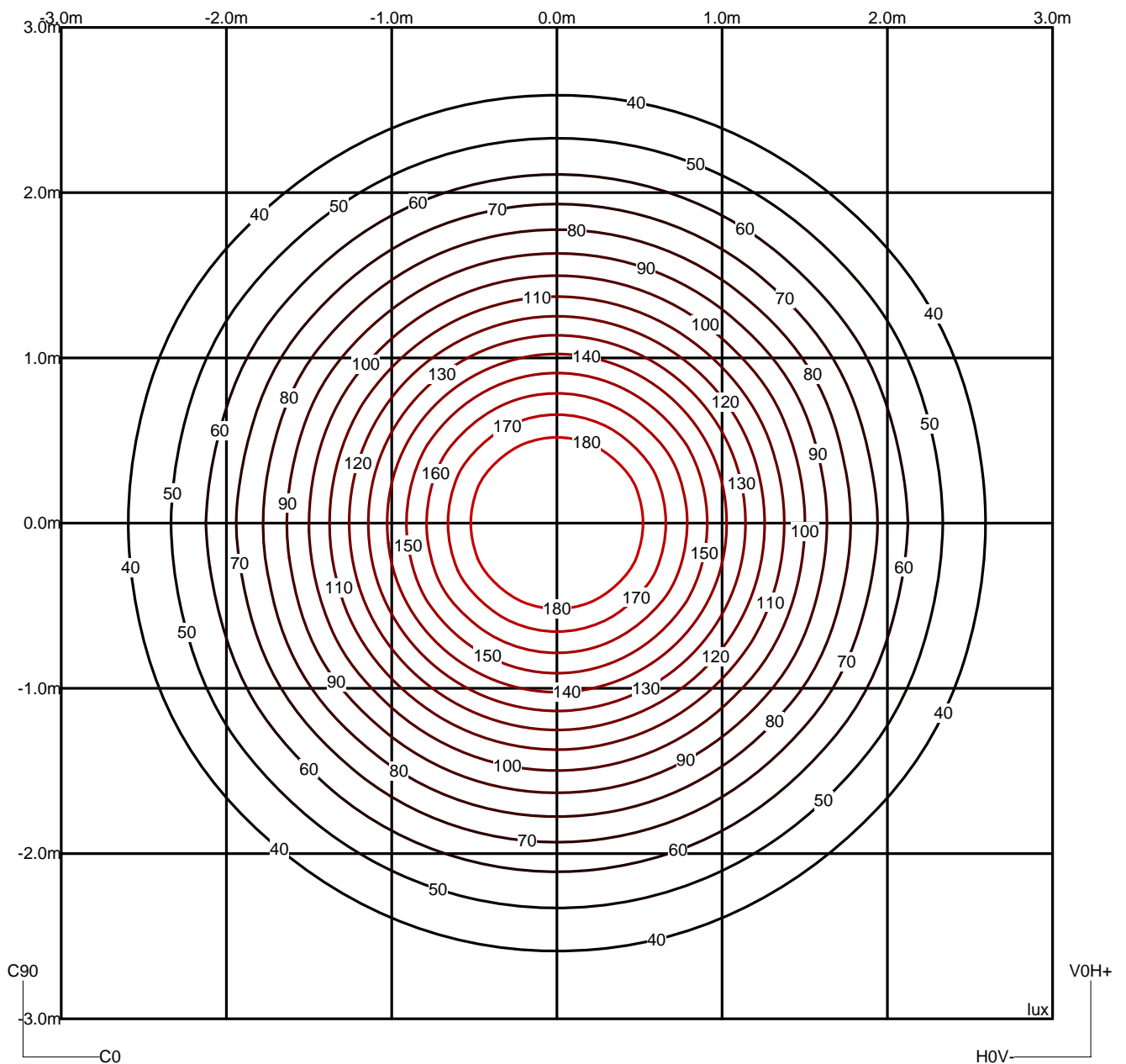
H[m]	D[m]	Max lux	Med lux	Alpha=53.1°+53.1°	G=0.0	
1.00	2.66	1238	341			
2.00	5.33	309	85			
3.00	7.99	138	38			
4.00	10.66	77	21			
5.00	13.32	50	14			

H[m]	D[m]	Max lux	Med lux	Beta=52.8°+52.8°	G=0.0	
1.00	2.64	1238	341			
2.00	5.27	309	85			
3.00	7.91	138	38			
4.00	10.54	77	21			
5.00	13.18	50	14			

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Isolux (Floor)

Luminaire position X=0.00m Y=0.00m Z=2.50m



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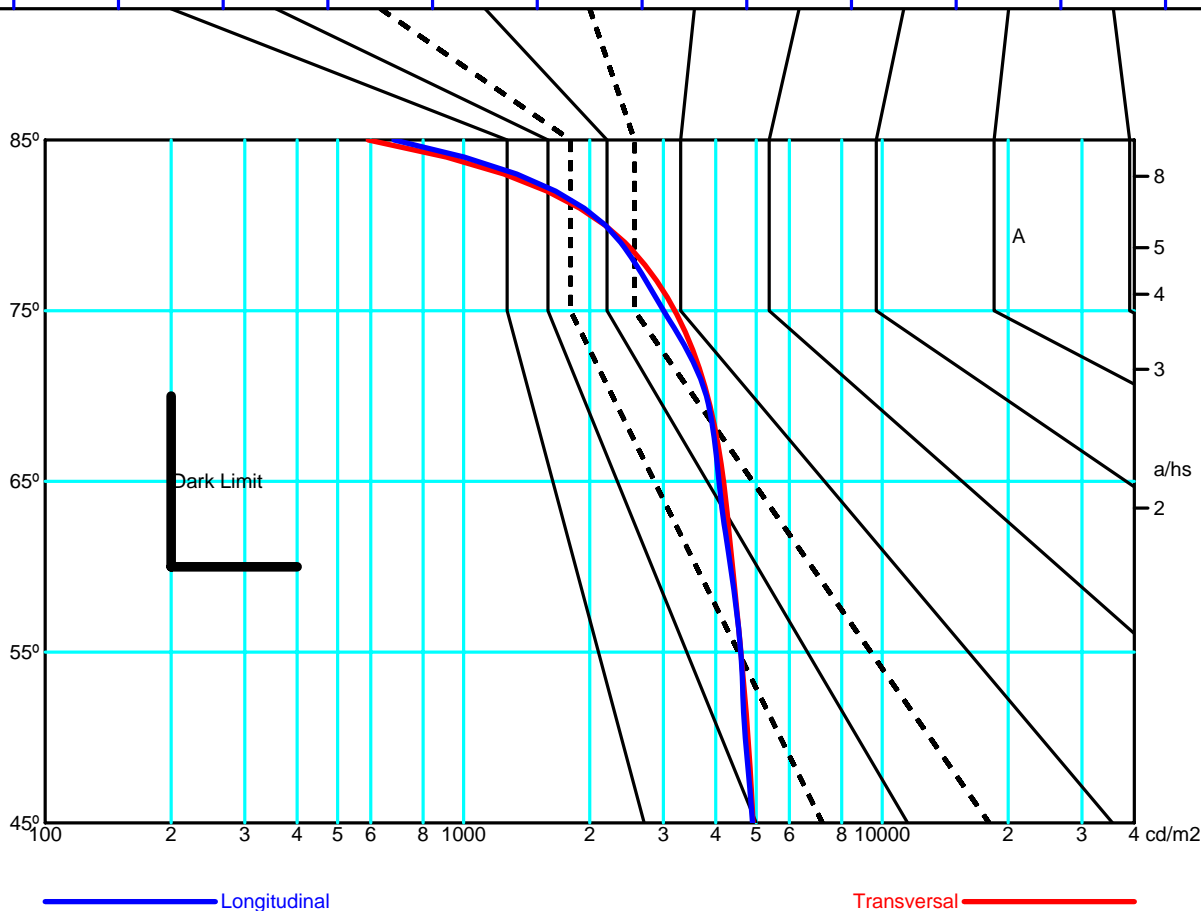
Utilizations CIE

Mounting	Direct				Normalization				Normalised				Suspension Ratio				Standard CIE Settings			

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Average Luminance [cd/m²]										
0.0°	45°	50°	55°	60°	65°	70°	75°	80°	85°	
90.0°	4913	4780	4597	4386	4172	3830	3190	2178	592	---
	4901	4706	4592	4340	4072	3801	3005	2181	681	---

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



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Luminance



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Maximum value	381.98 cd/klm			Position	C=0.00 G=0.00			Double Symmetrical					
Luminance cd/m2 Table 1/3													
	C 0.00	C 10.00	C 20.00	C 30.00	C 40.00	C 50.00	C 60.00	C 70.00	C 80.00	C 90.00	C 100.00	C 110.00	C 120.00
G 0.0	5611.16	5611.16	5611.16	5611.16	5611.16	5611.16	5611.16	5611.16	5611.16	5611.16	5611.16	5611.16	5611.16
G 5.0	5597.39	5598.13	5600.07	5602.35	5599.94	5597.33	5596.89	5596.93	5597.32	5598.04	5597.32	5596.93	5596.89
G 10.0	5577.12	5573.91	5578.99	5584.42	5575.01	5571.61	5573.91	5573.20	5572.71	5573.97	5572.71	5573.20	5573.91
G 15.0	5505.95	5508.46	5515.16	5521.32	5508.08	5501.82	5502.61	5500.79	5499.39	5500.26	5499.39	5500.79	5502.61
G 20.0	5454.23	5451.29	5460.40	5470.37	5458.37	5446.15	5444.91	5445.47	5445.13	5443.91	5445.13	5445.47	5444.91
G 25.0	5368.85	5372.16	5371.64	5367.72	5363.73	5357.92	5350.93	5346.84	5348.58	5355.12	5348.58	5346.84	5350.93
G 30.0	5267.44	5262.18	5274.98	5291.93	5266.15	5252.29	5252.10	5249.02	5245.87	5248.47	5245.87	5249.02	5252.10
G 35.0	5154.79	5141.54	5170.01	5207.32	5181.14	5159.76	5154.54	5152.32	5147.52	5138.48	5147.52	5152.32	5154.54
G 40.0	5048.40	5010.06	5024.52	5054.62	5016.69	4999.21	5004.79	4994.01	4985.97	4989.99	4985.97	4994.01	5004.79
G 45.0	4913.25	4923.59	4949.88	4977.92	4937.75	4898.47	4896.77	4905.54	4907.88	4901.34	4907.88	4905.54	4896.77
G 50.0	4780.46	4772.02	4791.43	4817.38	4777.47	4740.12	4731.30	4716.88	4708.81	4706.26	4708.81	4716.88	4731.30
G 55.0	4597.49	4607.80	4659.25	4701.36	4642.70	4586.24	4584.30	4594.56	4597.79	4592.18	4597.79	4594.56	4584.30
G 60.0	4385.94	4393.02	4427.10	4458.31	4424.55	4359.54	4315.61	4321.53	4337.25	4340.30	4337.25	4321.53	4315.61
G 65.0	4172.03	4116.18	4168.37	4240.92	4150.17	4108.81	4122.48	4101.76	4079.64	4071.50	4079.64	4101.76	4122.48
G 70.0	3829.63	3851.80	3923.60	4002.15	3874.66	3796.19	3786.21	3813.64	3817.24	3801.01	3817.24	3813.64	3786.21
G 75.0	3189.75	3104.03	3171.00	3268.76	3138.97	3072.71	3081.54	3052.19	3012.76	3004.53	3012.76	3052.19	3081.54
G 80.0	2177.76	2199.06	2324.68	2500.93	2319.76	2187.30	2155.88	2171.24	2175.62	2180.95	2175.62	2171.24	2155.88
G 85.0	591.67	594.01	674.87	805.79	700.46	633.40	668.37	608.74	592.64	681.34	592.64	608.74	668.37
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Luminaire				Measur.				Lamp					
Code	SOHO 57 LED			Code	SOHO 57 LED			Code	SOHO 57 LED				
Name	SOHO 57 LED 38.4W 3000K opal			Name	SOHO 57 LED 38.4W 3000K opal			Number	1				
Line	- MARSET			Date	29-04-2015			Position	Universal				
Efficiency	100.00%			Coordinate system	CG			Total Flux	3240.81 lm				
Maximum value	381.98 cd/klm			Position	C=0.00 G=0.00			Double Symmetrical					
Luminance cd/m2 Table 2/3													
	C 130.00	C 140.00	C 150.00	C 160.00	C 170.00	C 180.00	C 190.00	C 200.00	C 210.00	C 220.00	C 230.00	C 240.00	C 250.00
G 0.0	5611.16	5611.16	5611.16	5611.16	5611.16	5611.16	5611.16	5611.16	5611.16	5611.16	5611.16	5611.16	5611.16
G 5.0	5597.33	5599.94	5602.35	5600.07	5598.13	5597.39	5598.13	5600.07	5602.35	5599.94	5597.33	5596.89	5596.93
G 10.0	5571.61	5575.01	5584.42	5578.99	5573.91	5577.12	5573.91	5578.99	5584.42	5575.01	5571.61	5573.91	5573.20
G 15.0	5501.82	5508.08	5521.32	5515.16	5508.46	5505.95	5508.46	5515.16	5521.32	5508.08	5501.82	5502.61	5500.79
G 20.0	5446.15	5458.37	5470.37	5460.40	5451.29	5454.23	5451.29	5460.40	5470.37	5458.37	5446.15	5444.91	5445.47
G 25.0	5357.92	5363.73	5367.72	5371.64	5372.16	5368.85	5372.16	5371.64	5367.72	5363.73	5357.92	5350.93	5346.84
G 30.0	5252.29	5266.15	5291.93	5274.98	5262.18	5267.44	5262.18	5274.98	5291.93	5266.15	5252.29	5252.10	5249.02
G 35.0	5159.76	5181.14	5207.32	5170.01	5141.54	5154.79	5141.54	5170.01	5207.32	5181.14	5159.76	5154.54	5152.32
G 40.0	4999.21	5016.69	5054.62	5024.52	5010.06	5048.40	5010.06	5024.52	5054.62	5016.69	4999.21	5004.79	4994.01
G 45.0	4898.47	4937.75	4977.92	4949.88	4923.59	4913.25	4923.59	4949.88	4977.92	4937.75	4898.47	4896.77	4905.54
G 50.0	4740.12	4777.47	4817.38	4791.43	4772.02	4780.46	4772.02	4791.43	4817.38	4777.47	4740.12	4731.30	4716.88
G 55.0	4586.24	4642.70	4701.36	4659.25	4607.80	4597.49	4607.80	4659.25	4701.36	4642.70	4586.24	4584.30	4594.56
G 60.0	4359.54	4424.55	4458.31	4427.10	4393.02	4385.94	4393.02	4427.10	4458.31	4424.55	4359.54	4315.61	4321.53
G 65.0	4108.81	4150.17	4240.92	4168.37	4116.18	4172.03	4116.18	4168.37	4240.92	4150.17	4108.81	4122.48	4101.76
G 70.0	3796.19	3874.66	4002.15	3923.60	3851.80	3829.63	3851.80	3923.60	4002.15	3874.66	3796.19	3786.21	3813.64
G 75.0	3072.71	3138.97	3268.76	3171.00	3104.03	3189.75	3104.03	3171.00	3268.76	3138.97	3072.71	3081.54	3052.19
G 80.0	2187.30	2319.76	2500.93	2324.68	2199.06	2177.76	2199.06	2324.68	2500.93	2319.76	2187.30	2155.88	2171.24
G 85.0	633.40	700.46	805.79	674.87	594.01	591.67	594.01	674.87	805.79	700.46	633.40	668.37	608.74
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Luminaire			Measur.			Lamp				
Code	SOHO 57 LED		Code	SOHO 57 LED		Code	SOHO 57 LED			
Name	SOHO 57 LED 38.4W 3000K opal		Name	SOHO 57 LED 38.4W 3000K opal		Number	1			
Line	- MARSET		Date	29-04-2015		Position	Universal			
Efficiency	100.00%		Coordinate system	CG		Total Flux	3240.81 lm			
Maximum value	381.98 cd/klm		Position	C=0.00 G=0.00		Double Symmetrical				
Luminance cd/m2 Table 3/3										
	C 260.00	C 270.00	C 280.00	C 290.00	C 300.00	C 310.00	C 320.00	C 330.00	C 340.00	C 350.00
G 0.0	5611.16	5611.16	5611.16	5611.16	5611.16	5611.16	5611.16	5611.16	5611.16	5611.16
G 5.0	5597.32	5598.04	5597.32	5596.93	5596.89	5597.33	5599.94	5602.35	5600.07	5598.13
G 10.0	5572.71	5573.97	5572.71	5573.20	5573.91	5571.61	5575.01	5584.42	5578.99	5573.91
G 15.0	5499.39	5500.26	5499.39	5500.79	5502.61	5501.82	5508.08	5521.32	5515.16	5508.46
G 20.0	5445.13	5443.91	5445.13	5445.47	5444.91	5446.15	5458.37	5470.37	5460.40	5451.29
G 25.0	5348.58	5355.12	5348.58	5346.84	5350.93	5357.92	5363.73	5367.72	5371.64	5372.16
G 30.0	5245.87	5248.47	5245.87	5249.02	5252.10	5252.29	5266.15	5291.93	5274.98	5262.18
G 35.0	5147.52	5138.48	5147.52	5152.32	5154.54	5159.76	5181.14	5207.32	5170.01	5141.54
G 40.0	4985.97	4989.99	4985.97	4994.01	5004.79	4999.21	5016.69	5054.62	5024.52	5010.06
G 45.0	4907.88	4901.34	4907.88	4905.54	4896.77	4898.47	4937.75	4977.92	4949.88	4923.59
G 50.0	4708.81	4706.26	4708.81	4716.88	4731.30	4740.12	4777.47	4817.38	4791.43	4772.02
G 55.0	4597.79	4592.18	4597.79	4594.56	4584.30	4586.24	4642.70	4701.36	4659.25	4607.80
G 60.0	4337.25	4340.30	4337.25	4321.53	4315.61	4359.54	4424.55	4458.31	4427.10	4393.02
G 65.0	4079.64	4071.50	4079.64	4101.76	4122.48	4108.81	4150.17	4240.92	4168.37	4116.18
G 70.0	3817.24	3801.01	3817.24	3813.64	3786.21	3796.19	3874.66	4002.15	3923.60	3851.80
G 75.0	3012.76	3004.53	3012.76	3052.19	3081.54	3072.71	3138.97	3268.76	3171.00	3104.03
G 80.0	2175.62	2180.95	2175.62	2171.24	2155.88	2187.30	2319.76	2500.93	2324.68	2199.06
G 85.0	592.64	681.34	592.64	608.74	668.37	633.40	700.46	805.79	674.87	594.01
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00