

Luminaire

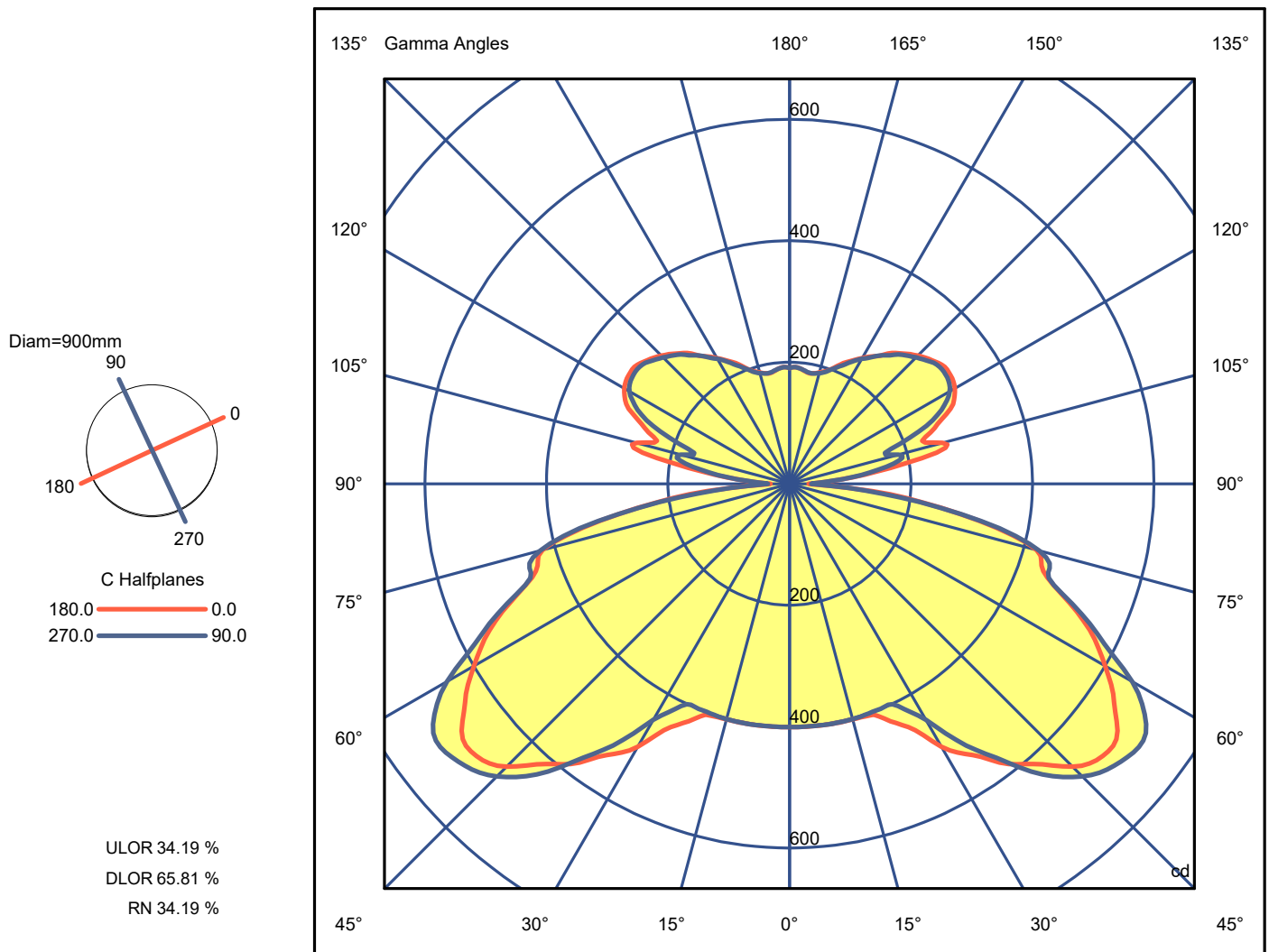
Code 5930
Name Flat ceiling

Measurem.

Code CL252A20F048G
Name Flat ceiling

Luminaire Flux	4505.54 lm	Luminaire Power	80.38 W	Efficacy	56.05 lm/W	Efficiency	100.00%
Sources Flux	4505.54 lm	Maximum value	720.02 cd	Position	C=75.00 G=52.50	CG	Asymmetrical
Round Luminaire		Diam.	900 mm	Height	15 mm		
Round Luminous Area		Diam.	200 mm	Height	0 mm		
Horizontal Luminous Area	0.031416 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°		0.007600 m2	
Coordinate system	CG			Symmetry Type		Asymmetrical	
Date	21-12-2020			Maximum Gamma Angle		180	
Measurement Distance	6.44			Measurement Flux		4505.54 lm	
Operator	ASSELUM			Rated Voltage		230.10 V	
Temperature	25.20 °C			Rated Current		0.37 A	
Humidity	35.70 %			Photocell		Prc	
Notes							

Line		Code	Luminaire Sources		Flux [lm]	Pow. [W]	Q.ty
		LED	Name	LED	4505.54	80.38	1
C.I.E.	26 62 89 66 100		D DIN 5040		B11		
F UTE	0.66 I + 0.34 T		B NBN		BZ 8 / 0.8 / BZ 7 / 1.5 / BZ 6		



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Sources Flux	4505.54 lm		Maximum value		720.02 cd		Position		C=75.00 G=52.50		CG Asymmetrical			
Luminous Intensity Table cd Table 2/2														
	C 195.00	C 210.00	C 225.00	C 240.00	C 255.00	C 270.00	C 285.00	C 300.00	C 315.00	C 330.00	C 345.00			
G 0.0	400.66	400.66	400.66	400.66	400.66	400.66	400.66	400.66	400.66	400.66	400.66	400.66	400.66	400.66
G 2.5	400.65	400.83	400.76	400.72	400.69	400.64	400.69	400.72	400.76	400.83	400.65	400.65	400.65	400.65
G 5.0	400.78	400.93	400.98	400.88	400.80	400.79	400.80	400.88	400.98	400.93	400.78	400.78	400.78	400.78
G 7.5	401.06	401.13	401.16	401.03	400.98	400.92	400.98	401.03	401.16	401.13	401.06	401.06	401.06	401.06
G 10.0	401.32	401.44	401.46	401.34	401.25	401.21	401.25	401.34	401.46	401.44	401.32	401.32	401.32	401.32
G 12.5	401.52	401.58	401.62	401.42	401.46	401.30	401.46	401.42	401.62	401.58	401.52	401.52	401.52	401.52
G 15.0	401.41	401.38	401.45	401.14	401.22	401.18	401.22	401.14	401.45	401.38	401.41	401.41	401.41	401.41
G 17.5	401.69	401.38	400.96	400.58	400.61	400.59	400.61	400.58	400.96	401.38	401.69	401.69	401.69	401.69
G 20.0	404.00	402.93	401.72	400.64	400.03	399.48	400.03	400.64	401.72	402.93	404.00	404.00	404.00	404.00
G 22.5	418.95	414.35	408.55	404.86	401.45	399.28	401.45	404.86	408.55	414.35	418.95	418.95	418.95	418.95
G 25.0	435.20	427.83	418.76	412.36	405.69	400.72	405.69	412.36	418.76	427.83	435.20	435.20	435.20	435.20
G 27.5	458.75	449.29	437.47	430.74	424.12	421.21	424.12	430.74	437.47	449.29	458.75	458.75	458.75	458.75
G 30.0	497.09	483.03	466.07	458.55	452.32	448.83	452.32	458.55	466.07	483.03	497.09	497.09	497.09	497.09
G 32.5	525.25	511.11	494.11	493.23	493.21	493.78	493.21	493.23	494.11	511.11	525.25	525.25	525.25	525.25
G 35.0	556.23	553.33	547.11	540.87	536.80	535.04	536.80	540.87	547.11	553.33	556.23	556.23	556.23	556.23
G 37.5	589.81	590.25	585.46	579.42	574.94	572.88	574.94	579.42	585.46	590.25	589.81	589.81	589.81	589.81
G 40.0	618.02	625.32	625.99	623.26	620.13	618.44	620.13	623.26	625.99	625.32	618.02	618.02	618.02	618.02
G 42.5	643.14	651.22	654.63	654.83	655.02	654.08	655.02	654.83	654.63	651.22	643.14	643.14	643.14	643.14
G 45.0	672.69	677.64	678.67	679.41	680.01	681.19	680.01	679.41	678.67	677.64	672.69	672.69	672.69	672.69
G 47.5	689.90	695.04	696.70	697.65	699.94	700.66	699.94	697.65	696.70	695.04	689.90	689.90	689.90	689.90
G 50.0	698.79	707.07	711.06	711.98	712.23	711.80	712.23	711.98	711.06	707.07	698.79	698.79	698.79	698.79
G 52.5	692.29	703.50	713.16	716.65	720.02	719.42	720.02	716.65	713.16	703.50	692.29	692.29	692.29	692.29
G 55.0	672.77	688.26	698.56	707.62	713.46	716.05	713.46	707.62	698.56	688.26	672.77	672.77	672.77	672.77
G 57.5	646.00	661.87	676.68	685.11	690.15	690.76	690.15	685.11	676.68	661.87	646.00	646.00	646.00	646.00
G 60.0	613.18	629.27	643.05	649.47	652.58	651.53	652.58	649.47	643.05	629.27	613.18	613.18	613.18	613.18
G 62.5	577.83	587.92	598.16	597.81	596.22	592.47	596.22	597.81	598.16	587.92	577.83	577.83	577.83	577.83
G 65.0	538.72	544.99	549.50	548.13	547.51	545.32	547.51	548.13	549.50	544.99	538.72	538.72	538.72	538.72
G 67.5	491.15	492.26	495.50	496.42	495.43	494.88	495.43	496.42	495.50	492.26	491.15	491.15	491.15	491.15
G 70.0	457.23	465.09	469.60	465.15	458.60	454.11	458.60	465.15	469.60	465.09	457.23	457.23	457.23	457.23
G 72.5	446.24	459.25	467.30	462.75	454.42	449.48	454.42	462.75	467.30	459.25	446.24	446.24	446.24	446.24
G 75.0	432.36	452.39	462.90	453.30	437.44	425.73	437.44	453.30	462.90	452.39	432.36	432.36	432.36	432.36
G 77.5	380.19	400.92	407.12	396.32	376.81	368.25	376.81	396.32	407.12	400.92	380.19	380.19	380.19	380.19
G 80.0	294.48	307.23	312.93	305.19	292.82	286.65	292.82	305.19	312.93	307.23	294.48	294.48	294.48	294.48
G 82.5	207.38	211.23	212.95	207.71	200.10	199.75	200.10	207.71	212.95	211.23	207.38	207.38	207.38	207.38
G 85.0	133.19	133.82	136.13	131.86	128.92	124.39	128.92	131.86	136.13	133.82	133.19	133.19	133.19	133.19
G 87.5	63.43	68.50	69.20	67.52	63.31	62.61	63.31	67.52	69.20	68.50	63.43	63.43	63.43	63.43
G 90.0	36.19	40.04	38.04	38.84	33.38	35.55	33.38	38.84	38.04	40.04	36.19	36.19	36.19	36.19
G 92.5	54.19	58.28	56.57	56.04	49.30	50.16	49.30	56.04	56.57	58.28	54.19	54.19	54.19	54.19
G 95.0	95.59	101.10	98.25	96.59	87.64	87.45	87.64	96.59	98.25	101.10	95.59	95.59	95.59	95.59
G 97.5	148.83	159.02	159.86	149.47	131.46	125.65	131.46	149.47	159.86	159.02	148.83	148.83	148.83	148.83
G100.0	208.63	221.86	218.95	198.99	172.69	161.64	172.69	198.99	218.95	221.86	208.63	208.63	208.63	208.63
G102.5	267.15	274.20	273.62	237.89	212.89	187.87	212.89	237.89	273.62	274.20	267.15	267.15	267.15	267.15
G105.0	270.18	279.59	282.08	244.57	210.62	185.49	210.62	244.57	282.08	279.59	270.18	270.18	270.18	270.18
G107.5	259.03	275.39	276.70	235.55	187.36	163.38	187.36	235.55	276.70	275.39	259.03	259.03	259.03	259.03
G110.0	273.28	296.85	297.11	262.12	216.45	193.77	216.45	262.12	297.11	296.85	273.28	273.28	273.28	273.28
G112.5	291.33	314.20	317.70	291.43	255.40	237.28	255.40	291.43	317.70	314.20	291.33	291.33	291.33	291.33
G115.0	312.09	330.92	334.06	312.81	283.54	268.79	283.54	312.81	334.06	330.92	312.09	312.09	312.09	312.09
G117.5	324.02	341.67	345.54	327.77	302.66	289.89	302.66	327.77	345.54	341.67	324.02	324.02	324.02	324.02
G120.0	330.64	347.31	351.88	337.11	315.51	304.44	315.51	337.11	351.88	347.31	330.64	330.64	330.64	330.64
G122.5	333.51	348.58	352.91	339.95	320.78	310.93	320.78	339.95	352.91	348.58	333.51	333.51	333.51	333.51
G125.0	332.50	345.32	349.08	338.21	322.06	313.75	322.06	338.21	349.08	345.32	332.50	332.50	332.50	332.50
G127.5	329.14	339.48	342.59	333.62	320.33	313.47	320.33	333.62	342.59	339.48	329.14	329.14	329.14	329.14
G130.0	321.30	330.78	334.04	326.76	315.49	309.69	315.49	326.76	334.04	330.78	321.30	321.30	321.30	321.30
G132.5	314.64	322.14	324.29	317.49	307.22	301.93	307.22	317.49	324.29	322.14	314.64	314.64	314.64	314.64
G135.0	303.75	309.85	311.69	306.05	298.37	294.29	298.37	306.05	311.69	309.85	303.75	303.75	303.75	303.75
G137.5	293.79	298.05	299.29	295.26	289.44	286.37	289.44	295.26	299.29	298.05	293.79	293.79	293.79	293.79
G140.0	281.60	283.37	285.20	282.96	279.74	278.00	279.74	282.96	285.20	283.37	281.60	281.60	281.60	281.60
G142.5	272.25	273.81	274.06	271.63	268.36	266.66	268.36	271.63	274.06	273.81	272.25	272.25	272.25	272.25
G145.0	258.97	261.50	262.94	261.66	259.25	257.95	259.25	261.66	262.94	261.50	258.97	258.97	258.97	258.97
G147.5	249.31	251.14	251.95	250.33	247.75	246.44	247.75	250.33	251.95	251.14	249.31	249.31	249.31	249.31
G150.0	238.65	238.34	238.17	237.93	237.69	237.57	237.69	237.93	238.17	238.34	238.65	238.65	238.65	238.65
G152.5	228.27	227.18	227.21	227.41	227.87	228.12	227.87	227.41	227.21	227.18	228.27	228.27	228.27	228.27
G155.0	218.46	216.37	215.49	215.76	216.74	217.29	216.74	215.76	215.49	216.37	218.46	218.46	218.46	218.46
G157.5	209.17	206.98	206.07	206.50	207.71	208.37	207.71	206.50	206.07	206.98	209.17	209.17	209.17	209.17
G160.0	199.37	198.18	197.75	198.44	199.60	200.21	199.60	198.44	197.75	198.18	199.37	199.37	199.37	199.37
G162.5	192.87	191.29	190.50	191.11	192.29	192.92	192.29	191.11	190.50	191.29	192.87	192.87	192.87	192.87
G165.0	187.53	185.44	184.73	185.76	187.71	188.75	187.71	185.76	184.73	185.44	187.53	187.53	187.53	187.53
G167.5	184.56	182.67	181.97	183.13	185.03	186.13	185.03	183.13	181.97	182.67	184.56	184.56	184.56	184.56
G170.0	184.23	182.82	182.19	183.47	185.01	185.71	185.01	183.47	182.19	182.82	184.23	184.23	184.23	184.23
G172.5	186.18	183.88	182.85	184.46	187.08	188.39	187.08	184.46	182.85	183.88	186.18	186.18	186.18	186.18
G175.0	188.62	185.58	184.24	186.14	189.27	190.95	189.27	186.14	184.24	185.58	188.62	188.62		

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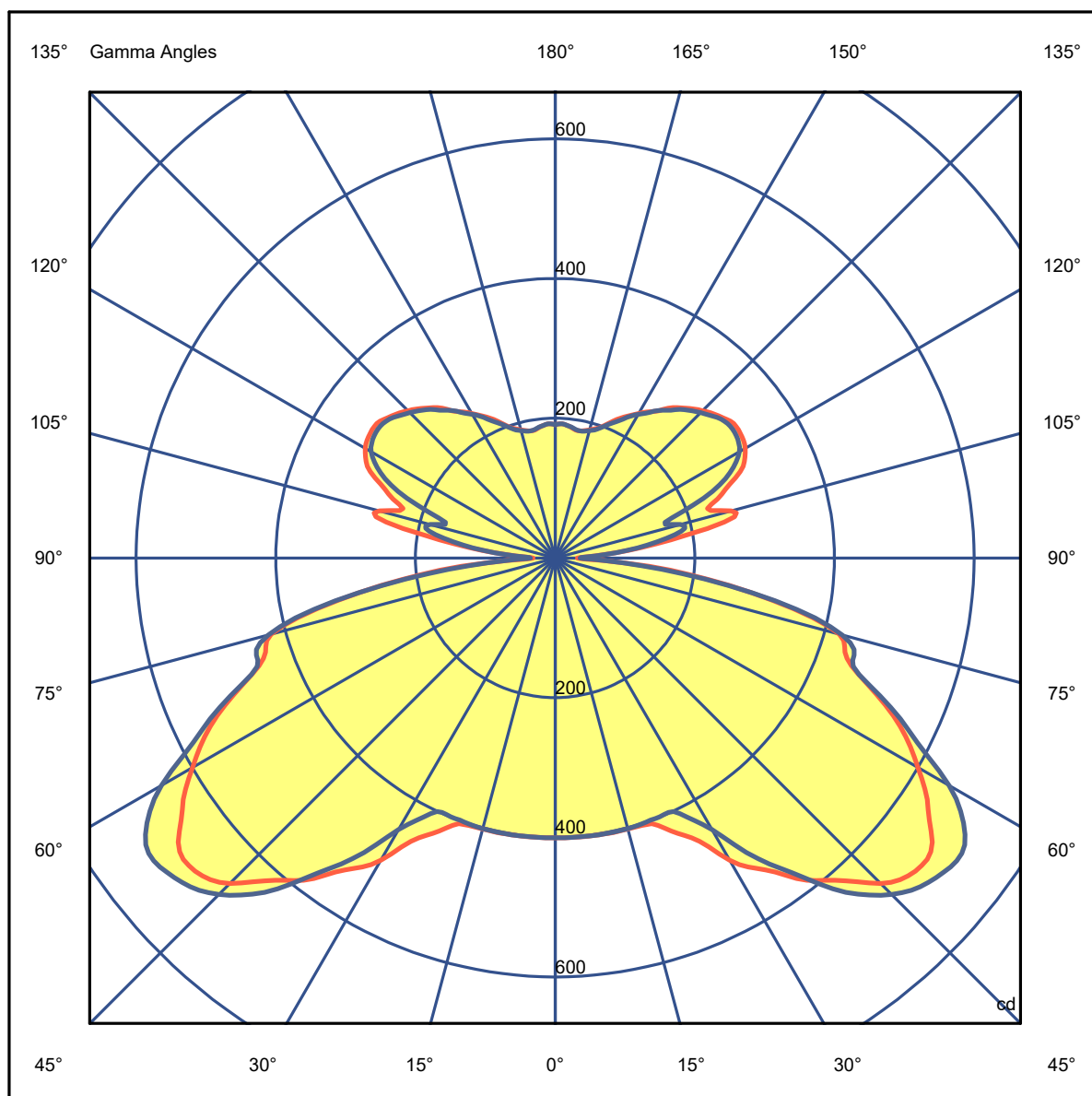
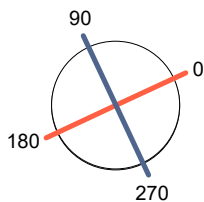
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Diam=900mm

C Halfplanes

180.0 ————— 0.0
270.0 ————— 90.0



Luminaire

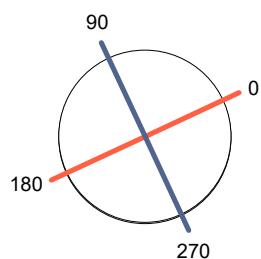
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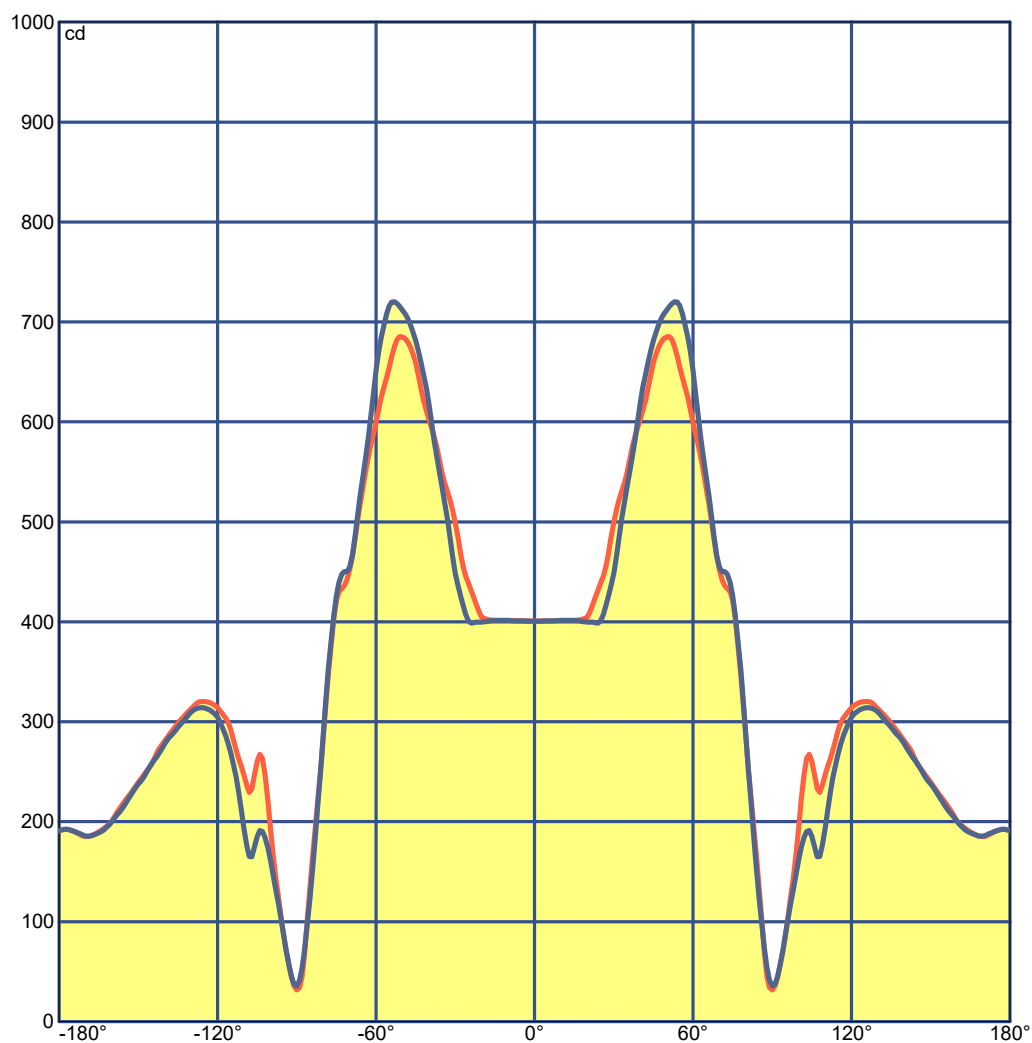
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UGR
S = 0.250

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
Working Plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room Dimensions										
	Lateral View					Viewed Endwise				
x=2H y=2H	23.8	24.9	24.5	25.6	26.5	24.0	25.1	24.8	25.9	26.8
x=2H y=3H	25.9	26.9	26.7	27.7	28.6	26.1	27.1	26.9	27.9	28.8
x=2H y=4H	27.2	28.1	28.0	28.9	29.9	27.3	28.3	28.1	29.1	30.0
x=2H y=6H	28.2	29.1	29.0	29.9	30.9	28.3	29.2	29.1	30.0	31.0
x=2H y=8H	28.6	29.4	29.3	30.2	31.2	28.7	29.5	29.4	30.3	31.3
x=2H y=12H	28.8	29.6	29.6	30.4	31.4	28.8	29.6	29.6	30.4	31.4
x=4H y=2H	24.6	25.5	25.4	26.3	27.3	24.8	25.7	25.6	26.5	27.5
x=4H y=3H	27.0	27.8	27.8	28.6	29.6	27.1	27.9	27.9	28.7	29.7
x=4H y=4H	28.4	29.1	29.2	30.0	31.0	28.5	29.2	29.4	30.1	31.1
x=4H y=6H	29.6	30.2	30.5	31.1	32.1	29.7	30.3	30.5	31.1	32.2
x=4H y=8H	30.0	30.5	30.8	31.4	32.5	30.0	30.6	30.9	31.5	32.5
x=4H y=12H	30.3	30.8	31.1	31.6	32.7	30.3	30.8	31.1	31.6	32.7
x=8H y=4H	29.0	29.6	29.9	30.4	31.5	29.1	29.7	29.9	30.5	31.6
x=8H y=6H	30.4	30.8	31.2	31.7	32.8	30.4	30.9	31.3	31.8	32.9
x=8H y=8H	30.8	31.2	31.7	32.1	33.3	30.9	31.3	31.7	32.1	33.3
x=8H y=12H	31.2	31.5	32.1	32.4	33.6	31.2	31.5	32.1	32.4	33.6
x=12H y=4H	29.8	30.3	30.7	31.2	32.3	29.9	30.4	30.8	31.3	32.4
x=12H y=6H	31.0	31.4	31.9	32.3	33.4	31.0	31.4	31.9	32.3	33.5
x=12H y=8H	31.4	31.8	32.3	32.7	33.8	31.5	31.8	32.4	32.7	33.9

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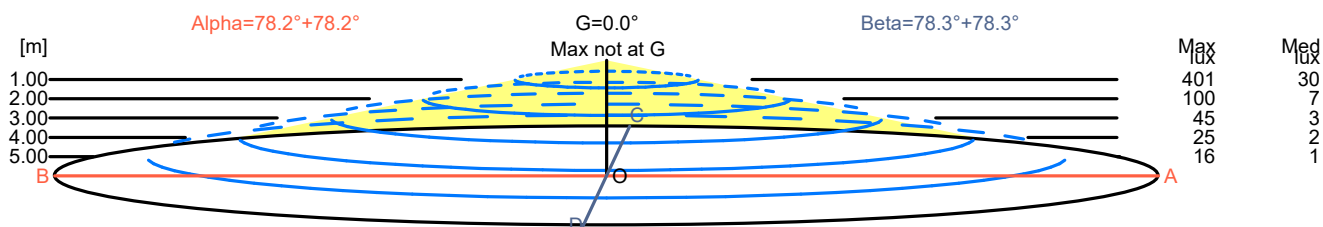
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Width at 50.00 % of Max Intensity

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	4.78	9.55	14.33	19.11	23.89	OC	4.84	9.68	14.53	19.37	24.21
OB	4.78	9.55	14.33	19.11	23.89	OD	4.84	9.68	14.53	19.37	24.21

Luminous Intensities [cd]

	0	5	15	25	35	45	55	65	75	85
OA	400.66	400.86	401.43	438.21	549.05	658.93	654.17	534.22	421.02	135.46
OB	400.66	400.86	401.43	438.21	549.05	658.93	654.17	534.22	421.02	135.46
OC	400.66	400.79	401.18	400.72	535.04	681.19	716.05	545.32	425.73	124.39
OD	400.66	400.79	401.18	400.72	535.04	681.19	716.05	545.32	425.73	124.39



H[m]	D[m]	Max lux	Med lux	Alpha=78.2°+78.2°	G=0.0 Max not at G	
1.00	9.55	401	30			
2.00	19.11	100	7			
3.00	28.66	45	3			
4.00	38.22	25	2			
5.00	47.77	16	1			

H[m]	D[m]	Max lux	Med lux	Beta=78.3°+78.3°	G=0.0 Max not at G	
1.00	9.68	401	30			
2.00	19.37	100	7			
3.00	29.05	45	3			
4.00	38.74	25	2			
5.00	48.42	16	1			

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Sources Flux	4505.54 lm	Maximum value	720.02 cd	Position	C=75.00 G=52.50	CG Asymmetrical	

Total Flux=4505.54 Luminaire Flux=4505.54

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	0.15	0.23	0.30	0.38	0.44	0.54	0.61	0.66	0.73	0.78	0.88	0.94
RC	9	9	8	8	8	8	7	7	7	7	7	7

Zonal Flux per 1000 Lumen

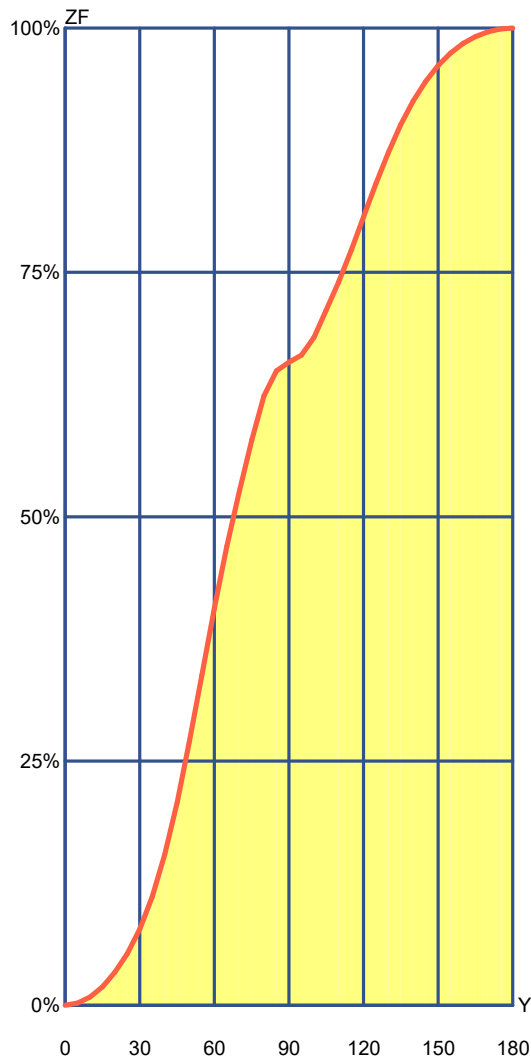
Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	8	34	78	154	270	406	526	624	658	683	740	807	873	925	962	984	996	1000

CIE Flux Codes

26 62 89 66 100

C.I.E. 9/9/8/8/8/7/7/7/7/7
D DIN 5040 B11
F UTE 0.66 I + 0.34 T
B NBN BZ 8 / 0.8 / BZ 7 / 1.5 / BZ 6
RN 34.18571 %
BLF 1.0

LOR 100.00000 %
ULOR 34.18571 %
DLOR 65.81429 %
UFF 34.18571 %
DFF 65.81429 %
FFR 51.94269 %



Zonal Flux				
Gamma °	Flux	Sum lm	Flux [%]	Sum [%]
0°	0.00	0.00	0.00%	0.00 %
5°	2.13	2.13	0.21 %	0.21 %
10°	6.37	8.50	0.64 %	0.85 %
15°	10.57	19.07	1.06 %	1.91 %
20°	14.68	33.75	1.47 %	3.37 %
25°	19.11	52.86	1.91 %	5.29 %
30°	24.92	77.78	2.49 %	7.78 %
35°	33.16	110.95	3.32 %	11.09 %
40°	43.22	154.17	4.32 %	15.42 %
45°	53.39	207.55	5.34 %	20.76 %
50°	62.18	269.74	6.22 %	26.97 %
55°	67.94	337.68	6.79 %	33.77 %
60°	68.46	406.15	6.85 %	40.61 %
65°	63.64	469.79	6.36 %	46.98 %
70°	56.01	525.80	5.60 %	52.58 %
75°	52.66	578.46	5.27 %	57.85 %
80°	45.09	623.55	4.51 %	62.35 %
85°	25.51	649.05	2.55 %	64.91 %
90°	9.09	658.14	0.91 %	65.81 %
95°	7.27	665.41	0.73 %	66.54 %
100°	17.70	683.11	1.77 %	68.31 %
105°	28.13	711.24	2.81 %	71.12 %
110°	28.70	739.94	2.87 %	73.99 %
115°	32.14	772.07	3.21 %	77.21 %
120°	34.73	806.80	3.47 %	80.68 %
125°	34.27	841.07	3.43 %	84.11 %
130°	31.80	872.88	3.18 %	87.29 %
135°	28.21	901.08	2.82 %	90.11 %
140°	24.14	925.23	2.41 %	92.52 %
145°	20.11	945.33	2.01 %	94.53 %
150°	16.32	961.65	1.63 %	96.17 %
155°	12.80	974.46	1.28 %	97.45 %
160°	9.69	984.14	0.97 %	98.41 %
165°	7.05	991.19	0.70 %	99.12 %
170°	4.86	996.05	0.49 %	99.61 %
175°	2.94	999.00	0.29 %	99.90 %
180°	1.00	1000.00	0.10 %	100.00 %

Luminaire

Code 5930
Name Flat ceiling

Measurement

Code CL252A20F048G
Name Flat ceiling

Luminaire Flux	4505.54 lm	Luminaire Power	80.38 W	Efficacy	56.05 lm/W	Efficiency	100.00%
Sources Flux	4505.54 lm	Maximum value	720.02 cd	Position	C=75.00 G=52.50	CG	Asymmetrical

Isolux (Floor)

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

