

# LEDS C4<sup>®</sup>

## Luminaire

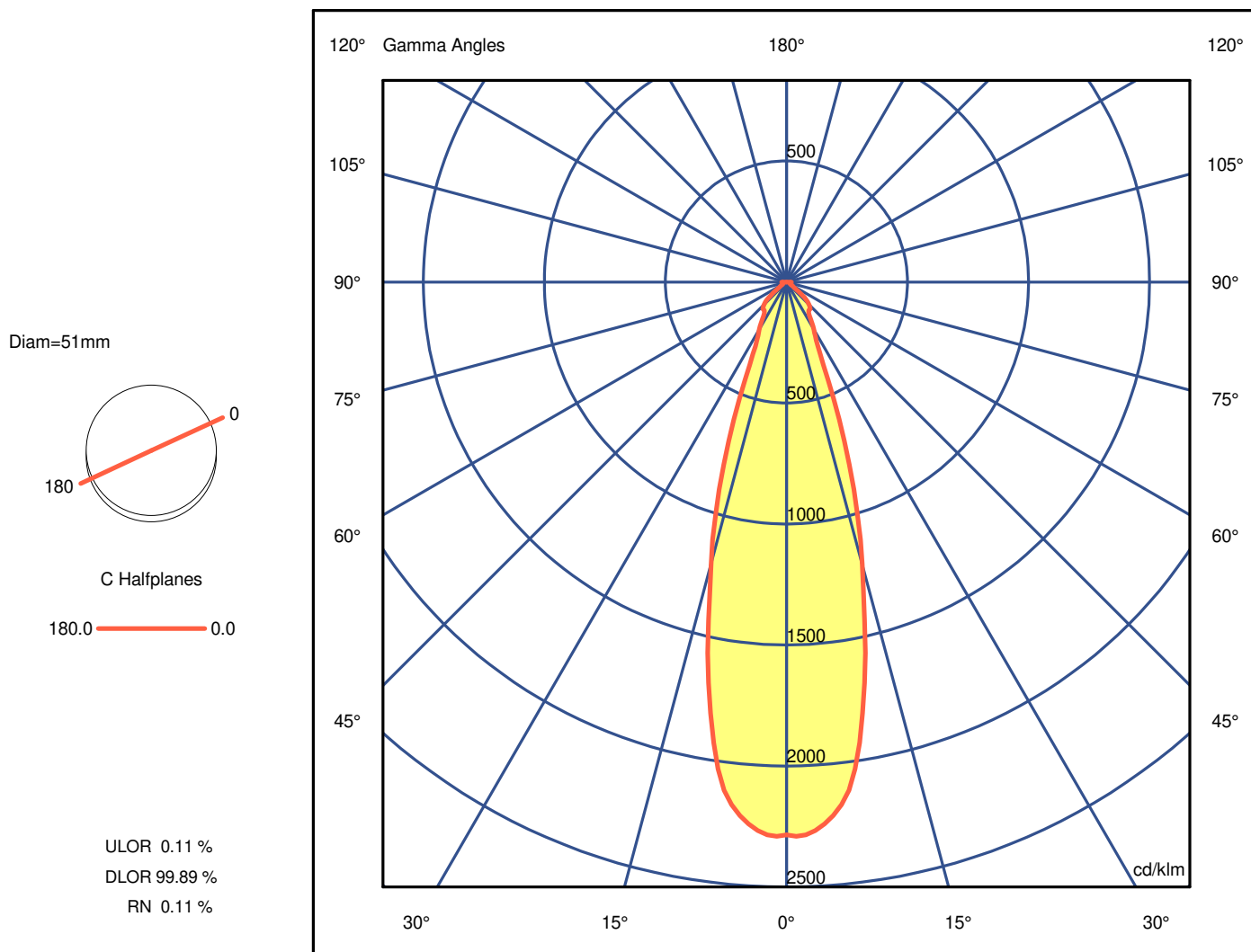
Code 05-9722-05-37  
Name HALOPAR 16 50W Aluminium-Reflektor

## Measurement

Code 05-9722-05-37  
Name HALOPAR 16 50W Aluminium-Reflektor

Luminaire Flux	525.00 lm	Luminaire Power	50.00 W	Efficacy	10.50 lm/W	Efficiency	100.00%
Sources Flux	525.00 lm	Maximum value	2290.11 cd/klm	Position	C=0.00 G=1.00	CG	Rotosymmetrical
Round Luminaire		Diam.	51 mm	Height	53 mm		
Round Luminous Area		Diam.	51 mm	Height	0 mm		
Horizontal Luminous Area			0.002043 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°			0.000494 m2
Coordinate system		CG		Symmetry Type			Rotosymmetrical
Date		27-01-2014		Maximum Gamma Angle			180
Measurement Distance		0.00		Measurement Flux			525.00 lm
Operator				Rated Voltage			
Temperature		25.00 °C		Rated Current			
Humidity		60.00 %		Photocell			
Notes							

Line		Code	Luminaire Lamps	Flux [lm]	Pow. [W]	Q.ty
		05-9722-05-37	Name HALOPAR 16 50W	525.00	50.00	1
C.I.E.	82 94 97 100 100		D DIN 5040	A60		
F UTE	1.00 B		B NBN	BZ 1		



# LEDS C4<sup>2</sup>

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Luminous Intensity Table cd/klm Table 1/1

C 0.00		C 0.00		C 0.00		C 0.00	
G 0.0	2284.21	G 46.0	125.85	G 92.0	0.00	G 138.0	0.00
G 1.0	2290.11	G 47.0	118.85	G 93.0	0.00	G 139.0	0.00
G 2.0	2286.01	G 48.0	109.06	G 94.0	0.00	G 140.0	0.00
G 3.0	2269.71	G 49.0	98.46	G 95.0	0.00	G 141.0	0.00
G 4.0	2244.22	G 50.0	86.27	G 96.0	0.00	G 142.0	0.00
G 5.0	2212.44	G 51.0	73.57	G 97.0	0.00	G 143.0	0.00
G 6.0	2171.15	G 52.0	63.18	G 98.0	0.00	G 144.0	0.00
G 7.0	2115.17	G 53.0	54.18	G 99.0	0.00	G 145.0	0.00
G 8.0	2032.01	G 54.0	46.08	G 100.0	0.00	G 146.0	0.00
G 9.0	1927.35	G 55.0	38.29	G 101.0	0.00	G 147.0	0.00
G 10.0	1808.79	G 56.0	32.19	G 102.0	0.00	G 148.0	0.00
G 11.0	1687.64	G 57.0	27.99	G 103.0	0.00	G 149.0	0.00
G 12.0	1566.49	G 58.0	24.69	G 104.0	0.00	G 150.0	0.00
G 13.0	1433.84	G 59.0	21.89	G 105.0	0.00	G 151.0	0.00
G 14.0	1310.19	G 60.0	19.59	G 106.0	0.00	G 152.0	0.00
G 15.0	1206.23	G 61.0	17.99	G 107.0	0.00	G 153.0	0.00
G 16.0	1107.07	G 62.0	16.99	G 108.0	0.00	G 154.0	0.00
G 17.0	1001.81	G 63.0	16.09	G 109.0	0.00	G 155.0	0.00
G 18.0	899.95	G 64.0	15.69	G 110.0	0.00	G 156.0	0.00
G 19.0	797.59	G 65.0	17.79	G 111.0	0.00	G 157.0	0.00
G 20.0	700.13	G 66.0	18.99	G 112.0	0.00	G 158.0	0.00
G 21.0	607.06	G 67.0	18.89	G 113.0	0.00	G 159.0	0.00
G 22.0	516.10	G 68.0	19.09	G 114.0	0.00	G 160.0	0.00
G 23.0	438.13	G 69.0	19.89	G 115.0	0.00	G 161.0	0.00
G 24.0	374.85	G 70.0	19.79	G 116.0	0.00	G 162.0	0.00
G 25.0	328.07	G 71.0	19.49	G 117.0	0.00	G 163.0	0.00
G 26.0	294.39	G 72.0	19.49	G 118.0	0.00	G 164.0	0.00
G 27.0	268.99	G 73.0	19.49	G 119.0	0.00	G 165.0	0.00
G 28.0	252.00	G 74.0	18.99	G 120.0	0.00	G 166.0	0.00
G 29.0	238.81	G 75.0	18.59	G 121.0	0.00	G 167.0	0.00
G 30.0	226.41	G 76.0	18.09	G 122.0	0.00	G 168.0	0.00
G 31.0	212.52	G 77.0	17.79	G 123.0	0.00	G 169.0	0.00
G 32.0	197.52	G 78.0	17.19	G 124.0	0.00	G 170.0	0.00
G 33.0	182.63	G 79.0	16.89	G 125.0	0.00	G 171.0	0.00
G 34.0	169.63	G 80.0	16.89	G 126.0	0.00	G 172.0	0.00
G 35.0	161.04	G 81.0	17.09	G 127.0	0.00	G 173.0	0.00
G 36.0	155.34	G 82.0	17.19	G 128.0	0.00	G 174.0	0.00
G 37.0	151.84	G 83.0	17.49	G 129.0	0.00	G 175.0	0.00
G 38.0	149.44	G 84.0	17.59	G 130.0	0.00	G 176.0	0.00
G 39.0	148.04	G 85.0	17.89	G 131.0	0.00	G 177.0	0.00
G 40.0	147.74	G 86.0	18.19	G 132.0	0.00	G 178.0	0.00
G 41.0	147.94	G 87.0	18.69	G 133.0	0.00	G 179.0	0.00
G 42.0	146.44	G 88.0	19.19	G 134.0	0.00	G 180.0	0.00
G 43.0	141.94	G 89.0	19.79	G 135.0	0.00		
G 44.0	136.45	G 90.0	20.29	G 136.0	0.00		
G 45.0	131.25	G 91.0	0.00	G 137.0	0.00		

# LEDS C4<sup>2</sup>

## Luminaire

Code 05-9722-05-37  
 Name HALOPAR 16 50W Aluminium-Reflektor

## Measurem.

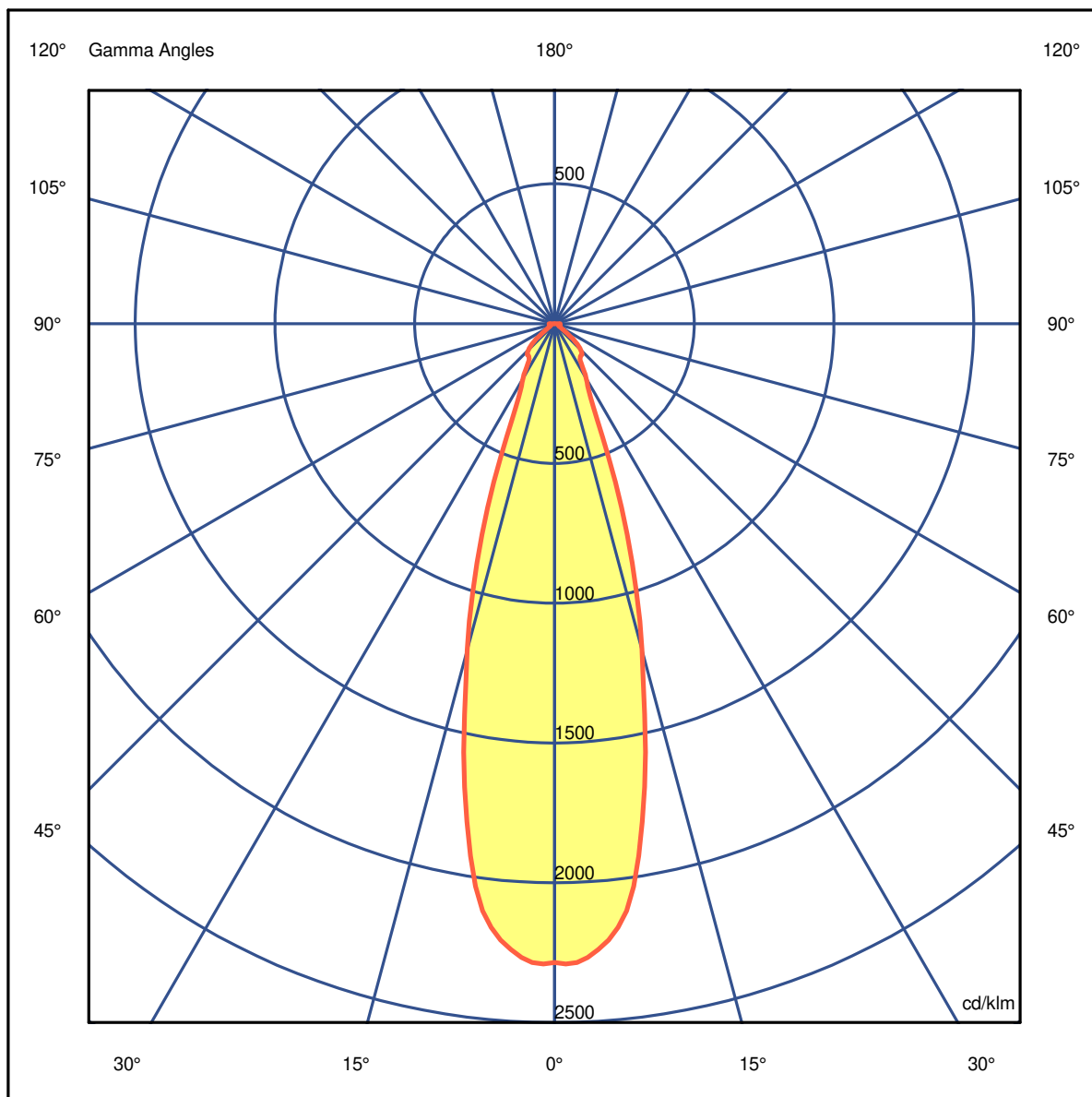
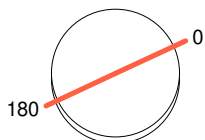
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Sources Flux	525.00 lm	Maximum value	2290.11 cd/klm	Position	C=0.00 G=1.00	CG	Rotosymmetrical

Diam=51mm

C Halfplanes

180.0  0.0



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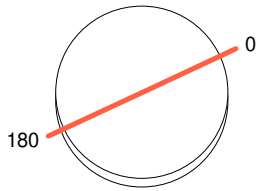
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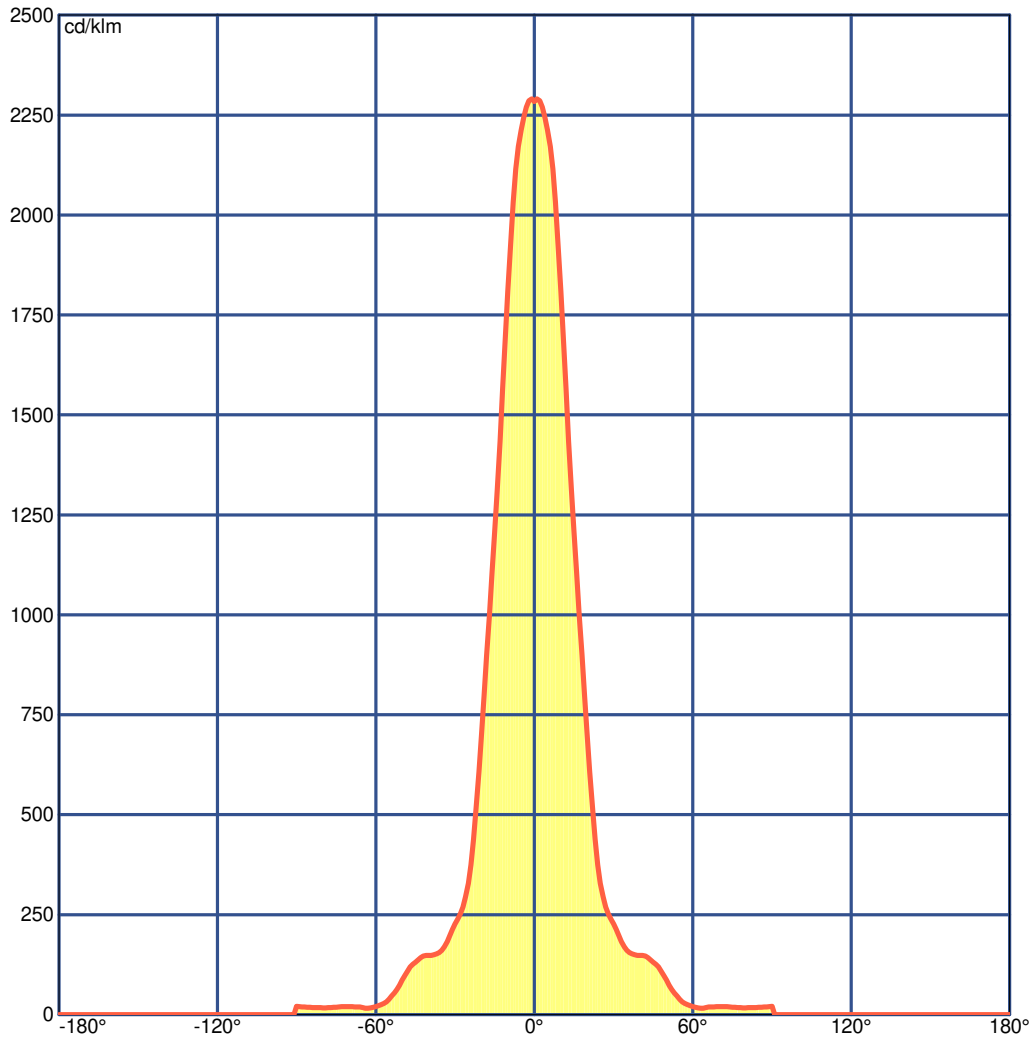
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C Halfplanes



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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
WorkingPlane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
RoomDimensions	Viewed Crosswise					Viewed Endwise				
x=2H y=2H	19.9	20.7	20.1	20.9	21.1	19.9	20.7	20.1	20.9	21.1
x=2H y=3H	20.4	21.2	20.7	21.5	21.7	20.4	21.2	20.7	21.5	21.7
x=2H y=4H	21.1	21.8	21.4	22.1	22.3	21.1	21.8	21.4	22.1	22.3
x=2H y=6H	21.9	22.6	22.3	22.9	23.2	21.9	22.6	22.3	22.9	23.2
x=2H y=8H	22.6	23.3	23.0	23.6	23.9	22.6	23.3	23.0	23.6	23.9
x=2H y=12H	23.5	24.2	23.9	24.5	24.8	23.5	24.2	23.9	24.5	24.8
x=4H y=2H	19.9	20.6	20.2	20.9	21.2	19.9	20.6	20.2	20.9	21.2
x=4H y=3H	20.9	21.5	21.2	21.8	22.1	20.9	21.5	21.2	21.8	22.1
x=4H y=4H	21.8	22.3	22.1	22.6	23.0	21.8	22.3	22.1	22.6	23.0
x=4H y=6H	23.0	23.4	23.4	23.8	24.2	23.0	23.4	23.4	23.8	24.2
x=4H y=8H	23.8	24.3	24.2	24.6	25.0	23.8	24.3	24.2	24.6	25.0
x=4H y=12H	25.0	25.4	25.4	25.8	26.2	25.0	25.4	25.4	25.8	26.2
x=8H y=4H	22.2	22.7	22.6	23.0	23.4	22.2	22.7	22.6	23.0	23.4
x=8H y=6H	23.7	24.1	24.2	24.5	24.9	23.7	24.1	24.2	24.5	24.9
x=8H y=8H	24.8	25.1	25.3	25.6	26.0	24.8	25.1	25.3	25.6	26.0
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	22.3	22.7	22.8	23.1	23.5	22.3	22.7	22.8	23.1	23.5
x=12H y=6H	24.0	24.3	24.5	24.7	25.2	24.0	24.3	24.5	24.7	25.2
x=12H y=8H	25.2	25.5	25.7	25.9	26.4	25.2	25.5	25.7	25.9	26.4

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## Measurum.

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Luminaire Flux	525.00 lm	Luminaire Power	50.00 W	Efficacy	10.50 lm/W	Efficiency	100.00%
Sources Flux	525.00 lm	Maximum value	2290.11 cd/klm	Position	C=0.00 G=1.00	CG	Rotosymmetrical

Total Flux=525.00 Luminaire Flux=525.00

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	0.59	0.65	0.71	0.75	0.79	0.84	0.88	0.90	0.93	0.94	0.97	0.99
RC	-	-	-	-	1	1	1	1	1	1	-	-

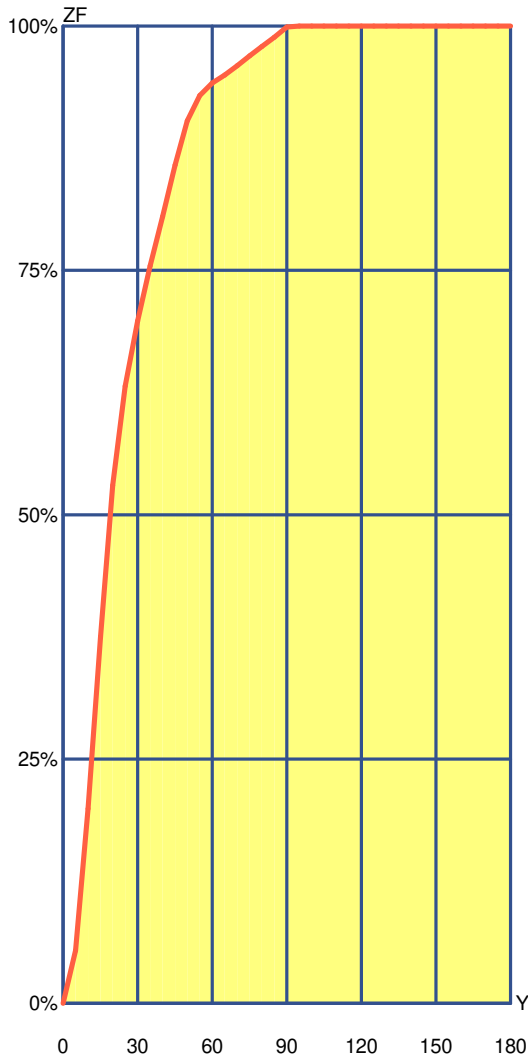
Zonal Flux per 1000 Lumen

Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	199	530	699	805	903	942	960	979	999	1000	1000	1000	1000	1000	1000	1000	1000	1000

CIE Flux Codes

82 94 97 100 100

C.I.E.	-/-/-/1/1/1/1/1/1/1/1/-/-	LOR	100.00000 %
D DIN 5040	A60	ULOR	0.11126 %
F UTE	1.00 B	DLOR	99.88874 %
B NBN	BZ 1	UFF	0.11126 %
RN	0.11126 %	DFF	99.88874 %
BLF	1.0	FFR	0.11138 %



Gamma °	Zonal Flux			
	Flux	Sum lm	Flux [%]	Sum [%]
0°	0.00	0.00	0.00%	0.00%
5°	53.93	53.93	5.39%	5.39%
10°	145.22	199.16	14.52%	19.92%
15°	175.79	374.94	17.58%	37.49%
20°	155.04	529.98	15.50%	53.00%
25°	101.45	631.43	10.15%	63.14%
30°	67.07	698.50	6.71%	69.85%
35°	56.09	754.59	5.61%	75.46%
40°	50.62	805.21	5.06%	80.52%
45°	52.70	857.91	5.27%	85.79%
50°	45.22	903.14	4.52%	90.31%
55°	25.92	929.06	2.59%	92.91%
60°	12.51	941.57	1.25%	94.16%
65°	8.31	949.87	0.83%	94.99%
70°	9.69	959.56	0.97%	95.96%
75°	10.11	969.67	1.01%	96.97%
80°	9.39	979.06	0.94%	97.91%
85°	9.43	988.49	0.94%	98.85%
90°	10.40	998.89	1.04%	99.89%
95°	1.11	1000.00	0.11%	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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## Utilizations CIE

Mounting	Direct	Normalization										Normalised										Suspension Ratid/3										Standard CIE Settings																																																																																																																																																																																																																																																																																							
Ceiling																																																																																																																																																																																																																																																																																																																							
K	8873	8773	8871	8771	7773	7771	7753	7553	7751	7551	7731	7331	7711	7111	5551	5531	5331	5511	5111	3331	3311	1111	0000	0.60	181	162	118	107	154	102	100	85	63	54	37	28	18	12	50	30	26	15	12	25	13	11	0	0.80	214	196	127	117	186	112	129	113	74	65	46	37	26	19	60	38	35	21	18	33	19	16	0	1.00	237	220	128	120	209	115	153	137	79	71	53	43	32	25	67	45	41	28	24	39	24	22	1	1.25	259	243	128	121	232	116	178	161	84	77	59	51	40	32	73	52	48	35	30	46	31	28	1	1.50	275	261	127	122	249	117	198	182	88	82	65	56	46	38	77	57	54	41	36	51	37	33	1	2.00	297	286	123	118	272	115	228	213	91	86	72	65	56	48	82	65	62	51	46	59	46	43	1	2.50	312	302	119	116	288	112	250	236	93	89	77	71	63	56	85	71	68	58	54	65	54	50	1	3.00	323	314	116	114	300	110	266	254	95	91	81	75	69	62	87	75	72	64	60	69	60	56	1	4.00	338	331	114	113	317	110	289	279	98	95	87	82	77	71	91	81	79	72	69	76	68	64	1	5.00	349	343	114	112	328	110	305	296	100	97	90	86	82	77	94	85	83	78	74	81	74	70	1	10.00	370	367	111	110	352	108	339	334	103	102	99	96	94	91	99	95	94	91	89	91	87	84	1	20.00	382	380	109	109	365	107	359	356	105	105	103	102	101	99	102	100	99	98	97	97	95	93	1

## Wall

K	8873	8773	8871	8771	7773	7771	7753	7553	7751	7551	7731	7331	7711	7111	5551	5531	5331	5511	5111	3331	3311	1111	0000	0.60	342	332	263	257	327	254	257	251	205	201	172	168	148	146	199	169	168	147	146	167	146	145	124	0.80	381	370	281	276	362	272	295	287	227	222	195	190	170	167	219	190	189	168	167	187	167	166	140	1.00	402	391	285	280	381	275	318	308	235	231	205	200	182	178	226	200	198	179	177	196	177	176	147	1.25	423	412	288	284	400	279	341	331	243	239	216	211	194	190	234	210	208	191	188	205	188	186	154	1.50	438	428	290	286	414	280	359	349	249	245	224	219	204	199	239	217	215	199	197	212	196	193	158	2.00	448	439	279	276	422	270	376	365	245	242	225	220	208	203	235	217	215	202	199	211	197	194	155	2.50	452	444	268	266	424	260	385	374	240	237	223	218	208	203	229	214	212	201	198	207	196	191	150	3.00	451	443	257	255	423	249	388	378	232	229	217	213	204	199	221	208	207	197	195	201	191	186	143	4.00	460	454	252	251	431	245	402	394	232	229	220	216	209	205	220	210	209	201	199	202	194	187	142	5.00	466	461	250	249	436	243	412	404	232	230	222	219	213	209	220	212	210	204	202	203	196	189	142	10.00	469	466	234	233	438	227	424	419	221	220	216	214	211	208	209	204	204	200	198	194	190	181	131	20.00	437	435	191	191	405	184	398	396	182	181	179	178	177	175	170	168	167	166	165	157	155	145	92
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## Working Pl.

K	8873	8773	8871	8771	7773	7771	7753	7553	7751	7551	7731	7331	7711	7111	5551	5531	5331	5511	5111	3331	3311	1111	0000	0.60	802	792	749	742	785	738	701	694	675	671	632	629	601	599	668	629	628	600	599	626	599	598	587	0.80	883	871	813	806	860	801	777	767	741	736	698	693	666	663	731	693	691	664	662	689	662	660	649	1.00	949	936	865	858	922	851	843	832	797	792	757	751	726	721	786	750	748	722	720	745	719	717	706	1.25	1000	993	906	901	976	893	901	889	844	839	807	800	777	771	831	798	796	771	769	791	767	764	753	1.50	1000	1000	935	930	1000	921	945	932	878	872	843	836	814	808	863	833	830	808	804	825	802	798	788	2.00	1000	1000	977	973	1000	964	1000	1000	929	924	900	893	876	869	913	888	885	867	863	878	860	853	843	2.50	1000	1000	1000	999	1000	989	1000	1000	961	956	937	930	916	908	943	923	920	905	901	911	896	888	879	3.00	1000	1000	1000	1000	1000	1000	1000	1000	983	979	962	956	944	937	965	948	945	932	928	935	922	913	903	4.00	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	990	984	975	968	987	973	971	960	957	959	948	937	928	5.00	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	993	987	988	986	978	974	973	964	951	942	10.00	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	998	982	973	20.00	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	999	990
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LM53 SHR C0-C180: 0.508 SHR C90-C270: 0.508 SHR Square: 0.526

# LEDS C4<sup>®</sup>

## Luminaire

Code 05-9722-05-37  
Name HALOPAR 16 50W Aluminium-Reflektor

## Measurem.

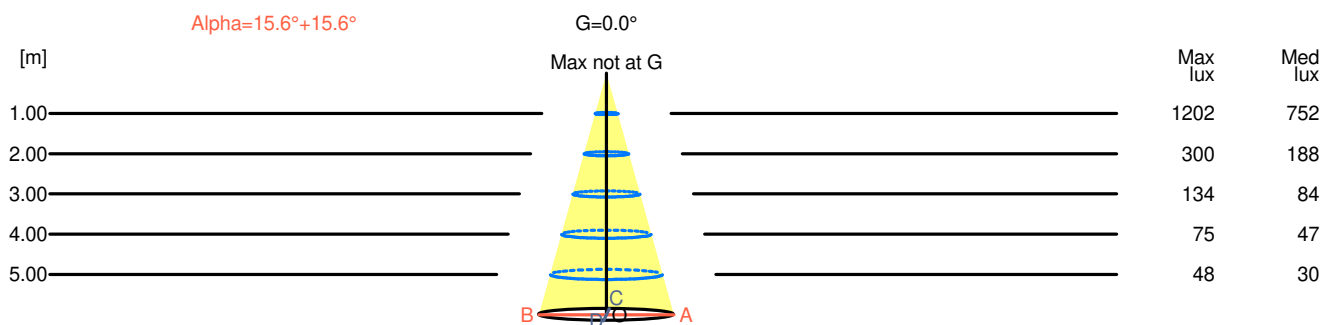
Code 05-9722-05-37  
Name HALOPAR 16 50W Aluminium-Reflektor

Luminaire Flux	525.00 lm	Luminaire Power	50.00 W	Efficacy	10.50 lm/W	Efficiency	100.00%
Sources Flux	525.00 lm	Maximum value	2290.11 cd/klm	Position	C=0.00 G=1.00	CG	Rotosymmetrical

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	0.28	0.56	0.84	1.12	1.40	OC	0.28	0.56	0.84	1.12	1.40
OB	0.28	0.56	0.84	1.12	1.40	OD	0.28	0.56	0.84	1.12	1.40

	Luminous Intensities [ cd/klm]									
	0	5	15	25	35	45	55	65	75	85
OA	1199.21	1161.53	633.27	172.24	84.54	68.91	20.10	9.34	9.76	9.39
OB	1199.21	1161.53	633.27	172.24	84.54	68.91	20.10	9.34	9.76	9.39
OC	1199.21	1161.53	633.27	172.24	84.54	68.91	20.10	9.34	9.76	9.39
OD	1199.21	1161.53	633.27	172.24	84.54	68.91	20.10	9.34	9.76	9.39



H[m]	D[m]	Max lux	Med lux	Alpha=15.6°+15.6°	G=0.0 Max not at G	
1.00	0.56	1202	752			
2.00	1.12	300	188			
3.00	1.68	134	84			
4.00	2.24	75	47			
5.00	2.80	48	30			



# LEDS C4<sup>®</sup>

**Luminaire**

Code 05-9722-05-37  
 Name HALOPAR 16 50W Aluminium-Reflektor

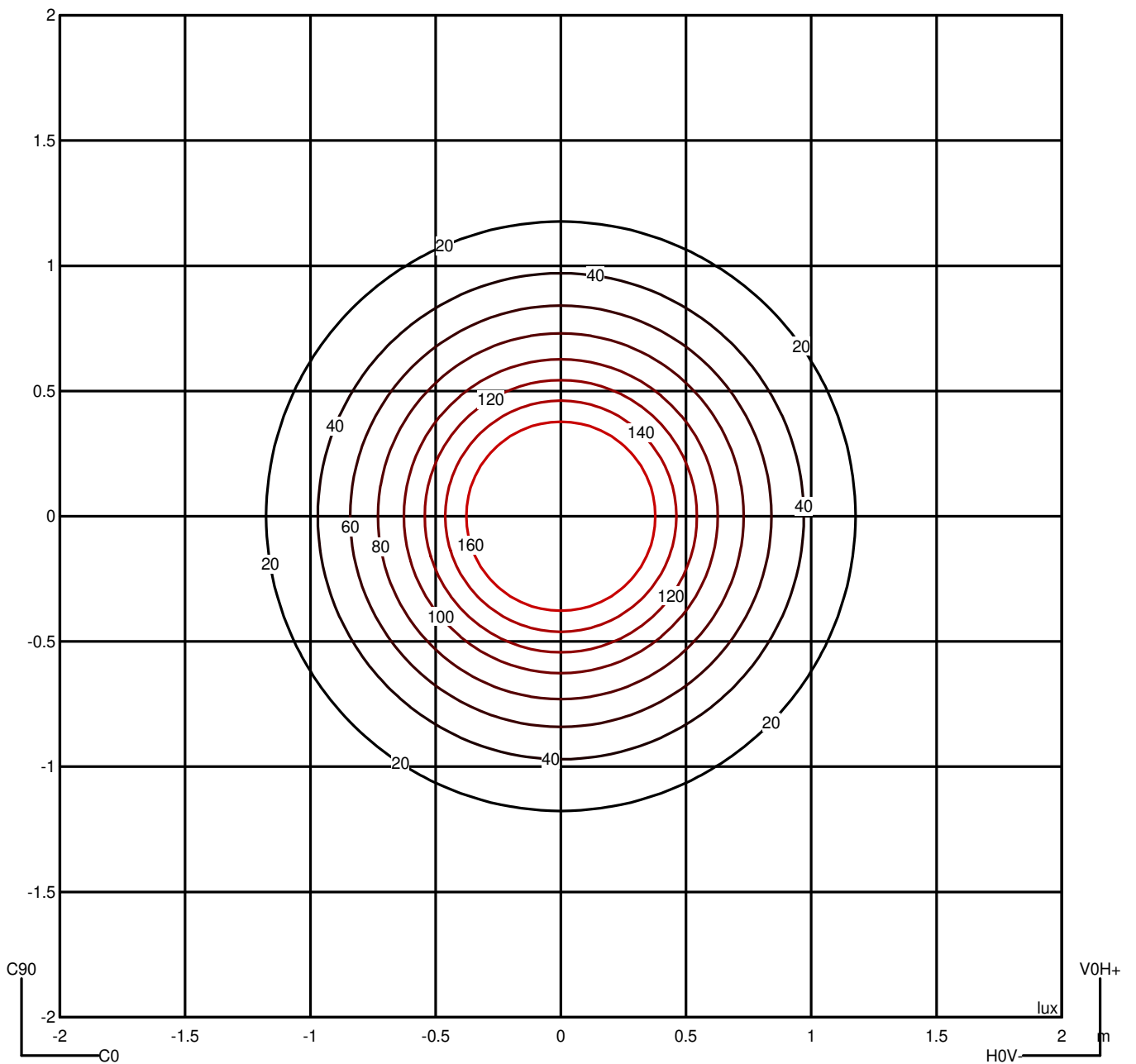
**Measur.**

Code 05-9722-05-37  
 Name HALOPAR 16 50W Aluminium-Reflektor

Luminaire Flux	525.00 lm	Luminaire Power	50.00 W	Efficacy	10.50 lm/W	Efficiency	100.00%
Sources Flux	525.00 lm	Maximum value	2290.11 cd/klm	Position	C=0.00 G=1.00	CG	Rotosymmetrical

Isolux (Floor)

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



# LEDS C4<sup>®</sup>

**Luminaire**

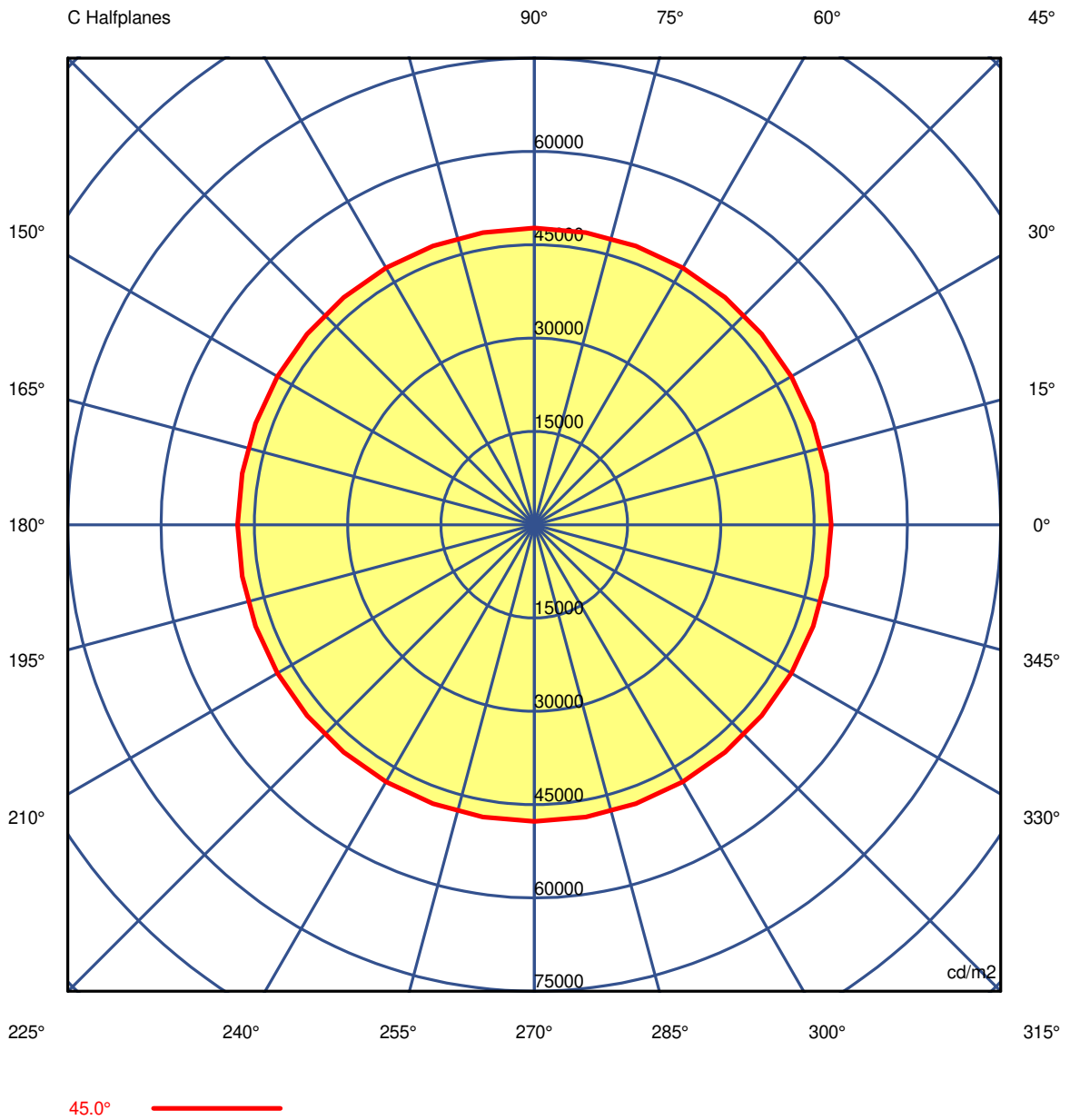
Code 05-9722-05-37  
 Name HALOPAR 16 50W Aluminium-Reflektor

**Measurem.**

Code 05-9722-05-37  
 Name HALOPAR 16 50W Aluminium-Reflektor

Luminaire Flux	525.00 lm	Luminaire Power	50.00 W	Efficacy	10.50 lm/W	Efficiency	100.00%
Sources Flux	525.00 lm	Maximum value	2290.11 cd/klm	Position	C=0.00 G=1.00	CG	Rotosymmetrical

Luminance



# LEDS C4<sup>+</sup>

## Luminaire

Code 05-9722-05-37  
Name HALOPAR 16 50W Aluminium-Reflektor

## Measurement

Code 05-9722-05-37  
Name HALOPAR 16 50W Aluminium-Reflektor

Luminaire Flux	525.00 lm	Luminaire Power	50.00 W	Efficacy	10.50 lm/W	Efficiency	100.00%						
Sources Flux	525.00 lm	Maximum value	2290.11 cd/klm	Position	C=0.00 G=1.00	CG	Rotosymmetrical						
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	587035.97	587035.97	587035.97	587035.97	587035.97	587035.97	587035.97	587035.97	587035.97	587035.97	587035.97	587035.97	587035.97
G 5.0	570762.66	570762.66	570762.66	570762.66	570762.66	570762.66	570762.66	570762.66	570762.66	570762.66	570762.66	570762.66	570762.66
G 10.0	472026.77	472026.77	472026.77	472026.77	472026.77	472026.77	472026.77	472026.77	472026.77	472026.77	472026.77	472026.77	472026.77
G 15.0	320933.49	320933.49	320933.49	320933.49	320933.49	320933.49	320933.49	320933.49	320933.49	320933.49	320933.49	320933.49	320933.49
G 20.0	191478.41	191478.41	191478.41	191478.41	191478.41	191478.41	191478.41	191478.41	191478.41	191478.41	191478.41	191478.41	191478.41
G 25.0	93029.86	93029.86	93029.86	93029.86	93029.86	93029.86	93029.86	93029.86	93029.86	93029.86	93029.86	93029.86	93029.86
G 30.0	67188.83	67188.83	67188.83	67188.83	67188.83	67188.83	67188.83	67188.83	67188.83	67188.83	67188.83	67188.83	67188.83
G 35.0	50523.16	50523.16	50523.16	50523.16	50523.16	50523.16	50523.16	50523.16	50523.16	50523.16	50523.16	50523.16	50523.16
G 40.0	49565.56	49565.56	49565.56	49565.56	49565.56	49565.56	49565.56	49565.56	49565.56	49565.56	49565.56	49565.56	49565.56
G 45.0	47702.29	47702.29	47702.29	47702.29	47702.29	47702.29	47702.29	47702.29	47702.29	47702.29	47702.29	47702.29	47702.29
G 50.0	34490.76	34490.76	34490.76	34490.76	34490.76	34490.76	34490.76	34490.76	34490.76	34490.76	34490.76	34490.76	34490.76
G 55.0	17154.06	17154.06	17154.06	17154.06	17154.06	17154.06	17154.06	17154.06	17154.06	17154.06	17154.06	17154.06	17154.06
G 60.0	10070.38	10070.38	10070.38	10070.38	10070.38	10070.38	10070.38	10070.38	10070.38	10070.38	10070.38	10070.38	10070.38
G 65.0	10820.10	10820.10	10820.10	10820.10	10820.10	10820.10	10820.10	10820.10	10820.10	10820.10	10820.10	10820.10	10820.10
G 70.0	14872.12	14872.12	14872.12	14872.12	14872.12	14872.12	14872.12	14872.12	14872.12	14872.12	14872.12	14872.12	14872.12
G 75.0	18461.90	18461.90	18461.90	18461.90	18461.90	18461.90	18461.90	18461.90	18461.90	18461.90	18461.90	18461.90	18461.90
G 80.0	25002.06	25002.06	25002.06	25002.06	25002.06	25002.06	25002.06	25002.06	25002.06	25002.06	25002.06	25002.06	25002.06
G 85.0	52761.42	52761.42	52761.42	52761.42	52761.42	52761.42	52761.42	52761.42	52761.42	52761.42	52761.42	52761.42	52761.42
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

# LEDS C4<sup>®</sup>

## Luminaire

Code 05-9722-05-37  
Name HALOPAR 16 50W Aluminium-Reflektor

## Measurement

Code 05-9722-05-37  
Name HALOPAR 16 50W Aluminium-Reflektor

Luminaire Flux	525.00 lm	Luminaire Power	50.00 W	Efficacy	10.50 lm/W	Efficiency	100.00%
Sources Flux	525.00 lm	Maximum value	2290.11 cd/klm	Position	C=0.00 G=1.00	CG	Rotosymmetrical

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	587035.97	587035.97	587035.97	587035.97	587035.97	587035.97	587035.97	587035.97	587035.97	587035.97	587035.97	587035.97	587035.97
G 5.0	570762.66	570762.66	570762.66	570762.66	570762.66	570762.66	570762.66	570762.66	570762.66	570762.66	570762.66	570762.66	570762.66
G 10.0	472026.77	472026.77	472026.77	472026.77	472026.77	472026.77	472026.77	472026.77	472026.77	472026.77	472026.77	472026.77	472026.77
G 15.0	320933.49	320933.49	320933.49	320933.49	320933.49	320933.49	320933.49	320933.49	320933.49	320933.49	320933.49	320933.49	320933.49
G 20.0	191478.41	191478.41	191478.41	191478.41	191478.41	191478.41	191478.41	191478.41	191478.41	191478.41	191478.41	191478.41	191478.41
G 25.0	93029.86	93029.86	93029.86	93029.86	93029.86	93029.86	93029.86	93029.86	93029.86	93029.86	93029.86	93029.86	93029.86
G 30.0	67188.83	67188.83	67188.83	67188.83	67188.83	67188.83	67188.83	67188.83	67188.83	67188.83	67188.83	67188.83	67188.83
G 35.0	50523.16	50523.16	50523.16	50523.16	50523.16	50523.16	50523.16	50523.16	50523.16	50523.16	50523.16	50523.16	50523.16
G 40.0	49565.56	49565.56	49565.56	49565.56	49565.56	49565.56	49565.56	49565.56	49565.56	49565.56	49565.56	49565.56	49565.56
G 45.0	47702.29	47702.29	47702.29	47702.29	47702.29	47702.29	47702.29	47702.29	47702.29	47702.29	47702.29	47702.29	47702.29
G 50.0	34490.76	34490.76	34490.76	34490.76	34490.76	34490.76	34490.76	34490.76	34490.76	34490.76	34490.76	34490.76	34490.76
G 55.0	17154.06	17154.06	17154.06	17154.06	17154.06	17154.06	17154.06	17154.06	17154.06	17154.06	17154.06	17154.06	17154.06
G 60.0	10070.38	10070.38	10070.38	10070.38	10070.38	10070.38	10070.38	10070.38	10070.38	10070.38	10070.38	10070.38	10070.38
G 65.0	10820.10	10820.10	10820.10	10820.10	10820.10	10820.10	10820.10	10820.10	10820.10	10820.10	10820.10	10820.10	10820.10
G 70.0	14872.12	14872.12	14872.12	14872.12	14872.12	14872.12	14872.12	14872.12	14872.12	14872.12	14872.12	14872.12	14872.12
G 75.0	18461.90	18461.90	18461.90	18461.90	18461.90	18461.90	18461.90	18461.90	18461.90	18461.90	18461.90	18461.90	18461.90
G 80.0	25002.06	25002.06	25002.06	25002.06	25002.06	25002.06	25002.06	25002.06	25002.06	25002.06	25002.06	25002.06	25002.06
G 85.0	52761.42	52761.42	52761.42	52761.42	52761.42	52761.42	52761.42	52761.42	52761.42	52761.42	52761.42	52761.42	52761.42
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

# LEDS C4<sup>2</sup>

## Luminaire

Code 05-9722-05-37  
Name HALOPAR 16 50W Aluminium-Reflektor

## Measur.

Code 05-9722-05-37  
Name HALOPAR 16 50W Aluminium-Reflektor

Luminaire Flux	525.00 lm	Luminaire Power	50.00 W	Efficacy	10.50 lm/W	Efficiency	100.00%
Sources Flux	525.00 lm	Maximum value	2290.11 cd/klm	Position	C=0.00 G=1.00	CG	Rotosymmetrical

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	587035.97	587035.97	587035.97	587035.97	587035.97	587035.97	587035.97	587035.97	587035.97	587035.97
G 5.0	570762.66	570762.66	570762.66	570762.66	570762.66	570762.66	570762.66	570762.66	570762.66	570762.66
G 10.0	472026.77	472026.77	472026.77	472026.77	472026.77	472026.77	472026.77	472026.77	472026.77	472026.77
G 15.0	320933.49	320933.49	320933.49	320933.49	320933.49	320933.49	320933.49	320933.49	320933.49	320933.49
G 20.0	191478.41	191478.41	191478.41	191478.41	191478.41	191478.41	191478.41	191478.41	191478.41	191478.41
G 25.0	93029.86	93029.86	93029.86	93029.86	93029.86	93029.86	93029.86	93029.86	93029.86	93029.86
G 30.0	67188.83	67188.83	67188.83	67188.83	67188.83	67188.83	67188.83	67188.83	67188.83	67188.83
G 35.0	50523.16	50523.16	50523.16	50523.16	50523.16	50523.16	50523.16	50523.16	50523.16	50523.16
G 40.0	49565.56	49565.56	49565.56	49565.56	49565.56	49565.56	49565.56	49565.56	49565.56	49565.56
G 45.0	47702.29	47702.29	47702.29	47702.29	47702.29	47702.29	47702.29	47702.29	47702.29	47702.29
G 50.0	34490.76	34490.76	34490.76	34490.76	34490.76	34490.76	34490.76	34490.76	34490.76	34490.76
G 55.0	17154.06	17154.06	17154.06	17154.06	17154.06	17154.06	17154.06	17154.06	17154.06	17154.06
G 60.0	10070.38	10070.38	10070.38	10070.38	10070.38	10070.38	10070.38	10070.38	10070.38	10070.38
G 65.0	10820.10	10820.10	10820.10	10820.10	10820.10	10820.10	10820.10	10820.10	10820.10	10820.10
G 70.0	14872.12	14872.12	14872.12	14872.12	14872.12	14872.12	14872.12	14872.12	14872.12	14872.12
G 75.0	18461.90	18461.90	18461.90	18461.90	18461.90	18461.90	18461.90	18461.90	18461.90	18461.90
G 80.0	25002.06	25002.06	25002.06	25002.06	25002.06	25002.06	25002.06	25002.06	25002.06	25002.06
G 85.0	52761.42	52761.42	52761.42	52761.42	52761.42	52761.42	52761.42	52761.42	52761.42	52761.42
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00