Luminaire

Code	35759006056U
Name	KYBELL PLUS A/02 NEGRO EBANO
Line	

Measurem.

Code	CL092A20F021GE2
Name	KYBELL PLUS A/02 NEGRO EBANO

Source Data

Code	LED	Correlated Color Temperature (CCT)	2697K	Q.ty	1
Name	LED	Color rendering index (CRI)	91		
Line					

Measurement data

Coordinate system	CG	Symmetry Type	Double Symmetrical
Date	04-06-2025	Maximum Gamma Angle	90°
Measurement Distance	6.44m	Measurement Flux	225.5 lm
Maximum	2354.27 cd/klm	Position	C=0.0° G=0.0°
Remarks	RM20111801		

Electrical Parameters

Channel 1		Channel 2	
Voltage	0.00 V	Voltage	0.00 V
Current	0.00 A	Current	0.00 A
Power	4.77 W	Power	0.00 W
Frequency	0 Hz	Frequency	50 Hz
Power Factor	0.00	Power Factor	1.00

Environmental Parameters

Temperature	25.6 °C	Air Speed	0.0 m/s
Humidity	41.5 %		

Luminaire Dimensions

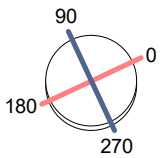
Round Luminaire	Diam.	60 mm	Height	120 mm	
Round Luminous Area	Diam.	25 mm	Height	0 mm	
Horizontal Luminous Area	0.000491 m2		Emitting area on Plane 180°	0.000000 m2	
Emitting area on Plane 0°	0.000000 m2		Emitting area on Plane 270°	0.000000 m2	
Emitting area on Plane 90°	0.000000 m2		Glare area at 76°	0.000119 m2	

Photometric Assessment

Luminaire Flux	225.5 lm	Source Flux	225.5 lm
Efficacy	47.279 lm/W	Efficiency	100.0 %
CIE Flux Codes	99 100 100 100 100	D DIN 5040	A60
F UTE	--	B NBN	BZ 1

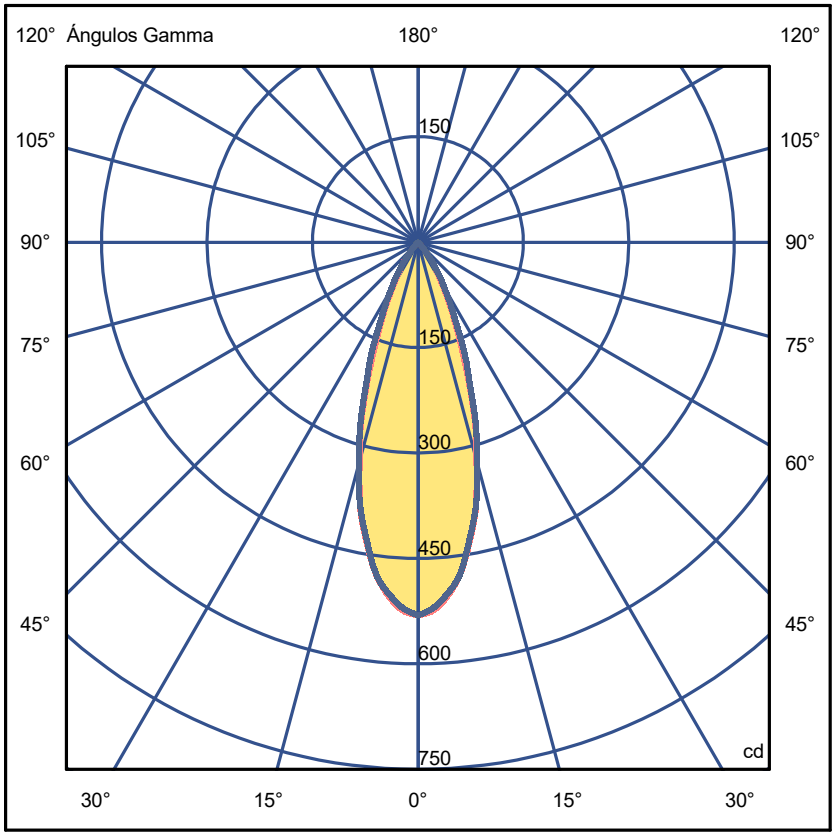


Diam=60mm





ULOR 0.00 %
DLOR100.00 %
RN 0.00 %



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Luminaire Flux	226 lm	Luminaire Power	4.8 W	Efficacy	47.279 lm/W	Efficiency	100.00%
Source Flux	226 lm	Maximum value	530.94 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

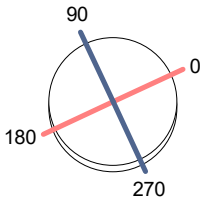
Luminous Intensity Table cd **Table 1/1**

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	531	531	531	531	531	531	531
G 2.5	524	521	524	523	522	522	520
G 5.0	503	503	503	501	501	500	500
G 7.5	472	473	473	469	469	471	472
G 10.0	428	435	429	430	432	429	426
G 12.5	382	373	384	387	380	380	382
G 15.0	321	324	324	332	331	330	326
G 17.5	271	273	271	272	270	280	274
G 20.0	211	222	211	221	219	230	216
G 22.5	162	161	165	179	170	188	176
G 25.0	122	125	123	139	130	146	131
G 27.5	94	96	92	101	95	114	101
G 30.0	69	74	67	74	72	86	75
G 32.5	52	52	49	56	52	64	57
G 35.0	39	37	37	40	36	40	39
G 37.5	28	25	25	24	24	24	25
G 40.0	10	15	11	15	11	18	13
G 42.5	4	7	5	7	5	9	5
G 45.0	3	3	3	3	3	4	3
G 47.5	2	2	2	2	2	2	2
G 50.0	1	1	1	1	1	1	1
G 52.5	1	1	1	1	1	1	1
G 55.0	0	0	0	0	0	0	0
G 57.5	0	0	0	0	0	0	0
G 60.0	0	0	0	0	0	0	0
G 62.5	0	0	0	0	0	0	0
G 65.0	0	0	0	0	0	0	0
G 67.5	0	0	0	0	0	0	0
G 70.0	0	0	0	0	0	0	0
G 72.5	0	0	0	0	0	0	0
G 75.0	0	0	0	0	0	0	0
G 77.5	0	0	0	0	0	0	0
G 80.0	0	0	0	0	0	0	0
G 82.5	0	0	0	0	0	0	0
G 85.0	0	0	0	0	0	0	0
G 87.5	0	0	0	0	0	0	0
G 90.0	0	0	0	0	0	0	0

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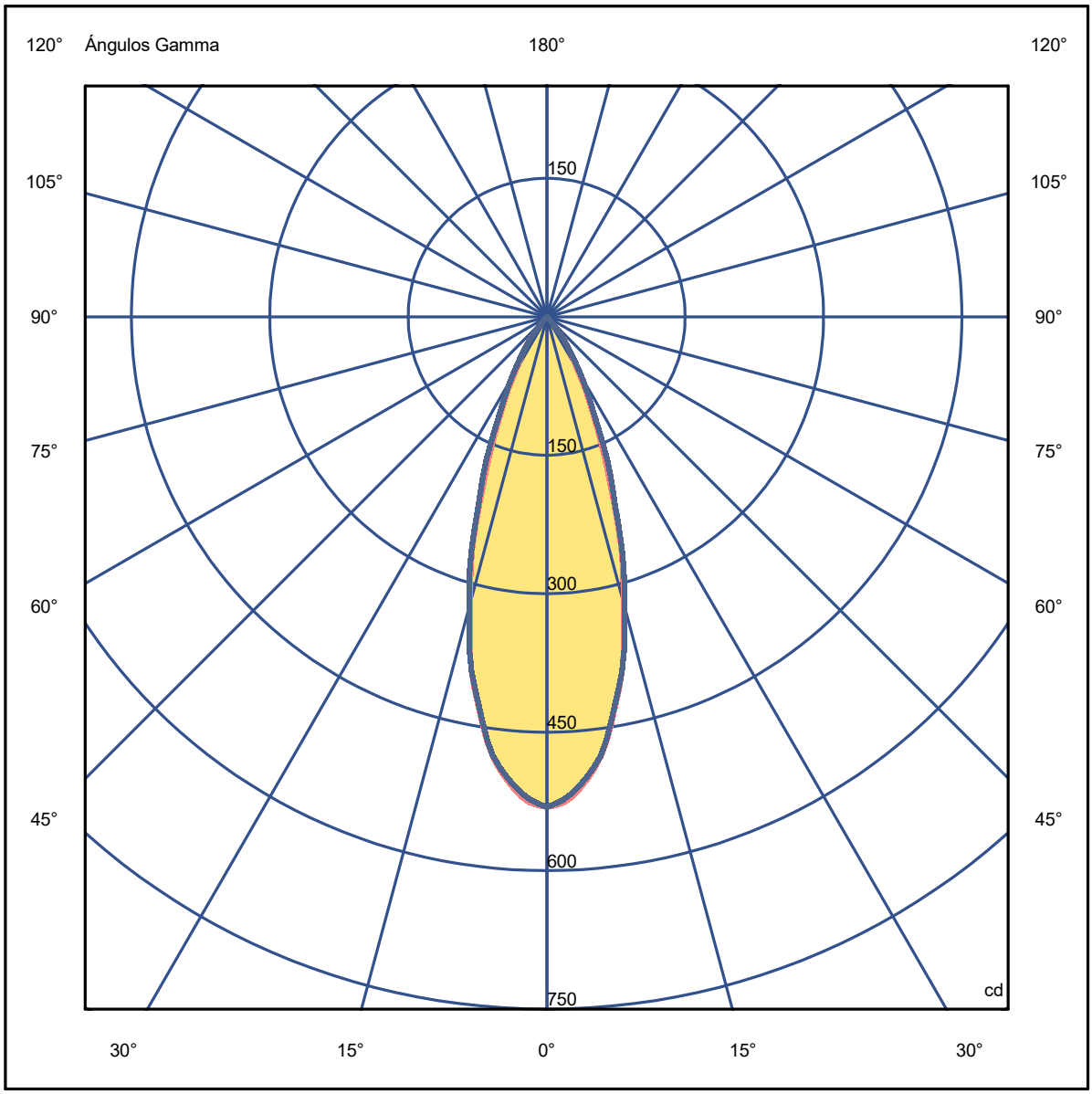
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Source Flux	226 lm	Maximum value	530.94 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Diam=60mm



Semiplanos C

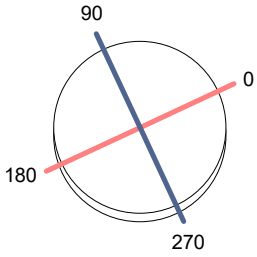




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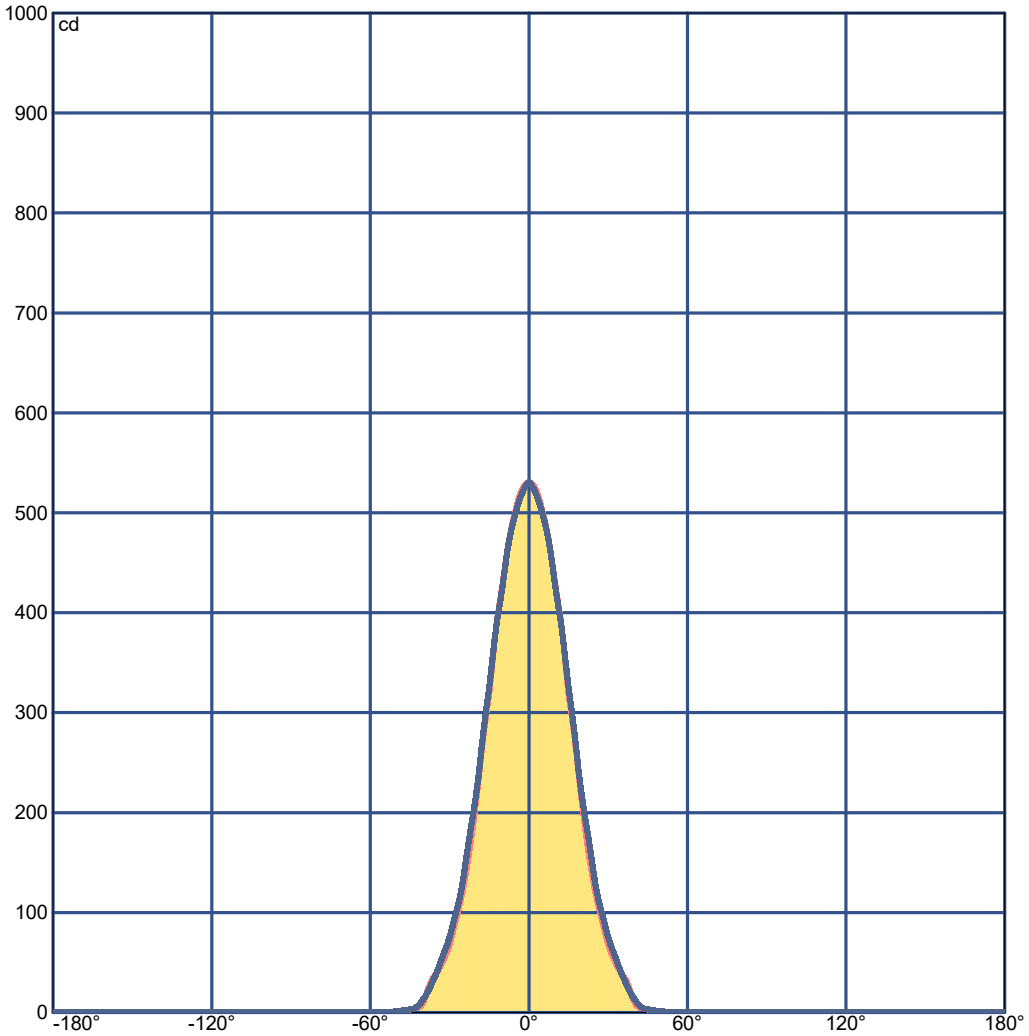
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Diam=60mm



Semiplanos C





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Flujo Total=225.52 Flujo Luminaria=225.52

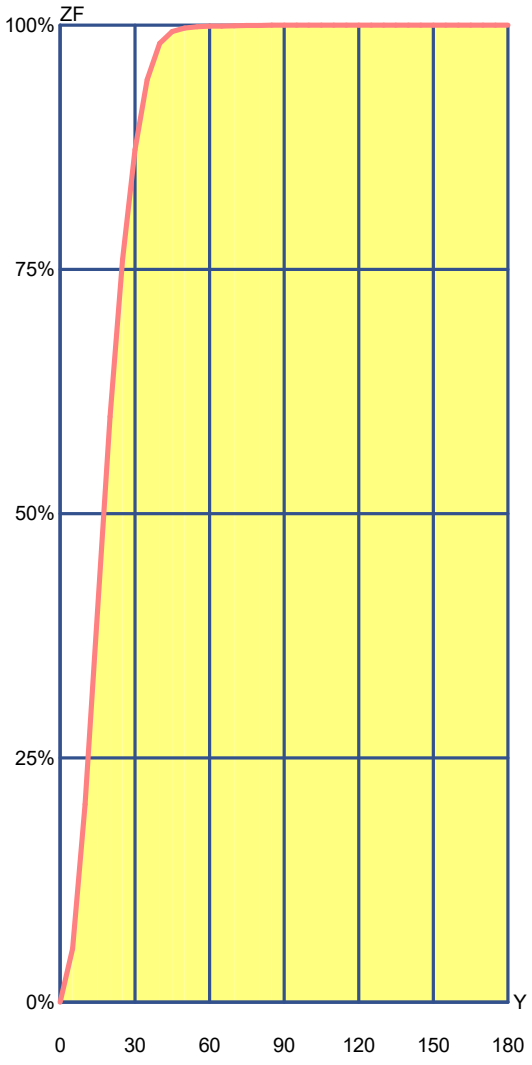
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.73	0.78	0.82	0.86	0.88	0.93	0.95	0.97	0.99	1.00	1.02	1.02
RC	-	-	-	-	-	-	-	-	-	-	-	-

Flujo Zonal por 1000 Lúmenes

Y°	10	20	30	40	50	60	70	80	90	100	110	120	130	140	150	160	170	180
ZF(Y)	202	599	872	981	997	999	999	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000

Códigos de Flujo C.I.E.
99 100 100 100 100

C.I.E.	-/-/-/-/-/-/-/-/-/-/-	LOR	100.00000 %
D DIN 5040	A60	ULOR	0.00000 %
F UTE	--	DLOR	100.00000 %
B NBN	BZ 1	UFF	0.00000 %
RN	0.00000 %	DFF	100.00000 %
BLF	1.0	FFR	0.00000 %



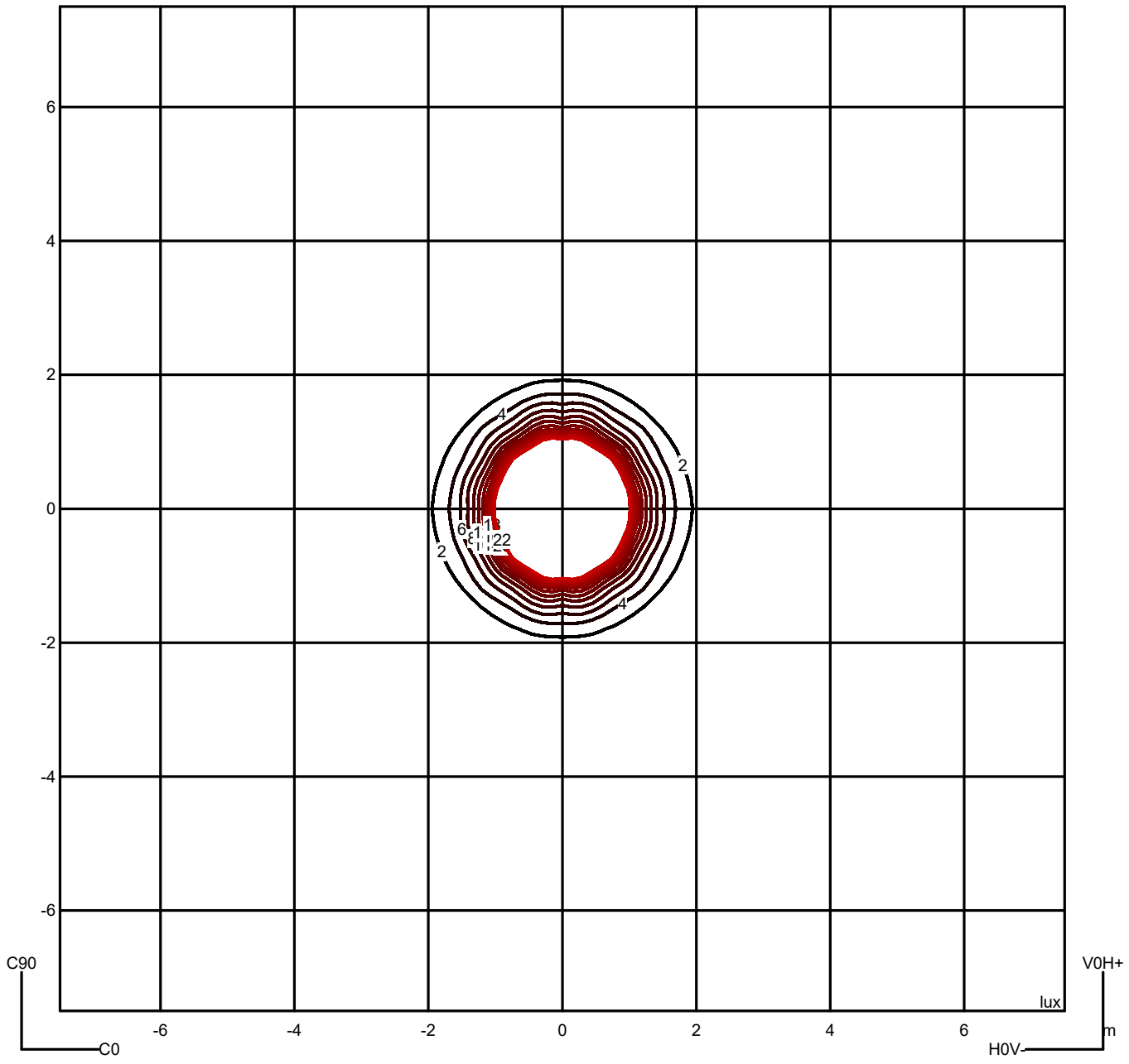
Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	54.67	54.67	5.47 %	5.47 %
10°	147.72	202.38	14.77 %	20.24 %
15°	198.53	400.91	19.85 %	40.09 %
20°	198.23	599.14	19.82 %	59.91 %
25°	160.48	759.63	16.05 %	75.96 %
30°	112.79	872.42	11.28 %	87.24 %
35°	71.91	944.33	7.19 %	94.43 %
40°	37.07	981.40	3.71 %	98.14 %
45°	11.81	993.21	1.18 %	99.32 %
50°	3.80	997.01	0.38 %	99.70 %
55°	1.43	998.43	0.14 %	99.84 %
60°	0.40	998.83	0.04 %	99.88 %
65°	0.23	999.06	0.02 %	99.91 %
70°	0.21	999.27	0.02 %	99.93 %
75°	0.20	999.47	0.02 %	99.95 %
80°	0.18	999.65	0.02 %	99.96 %
85°	0.18	999.83	0.02 %	99.98 %
90°	0.17	1000.00	0.02 %	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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Source Flux	226 lm	Maximum value	530.94 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Isolux (Floor)

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



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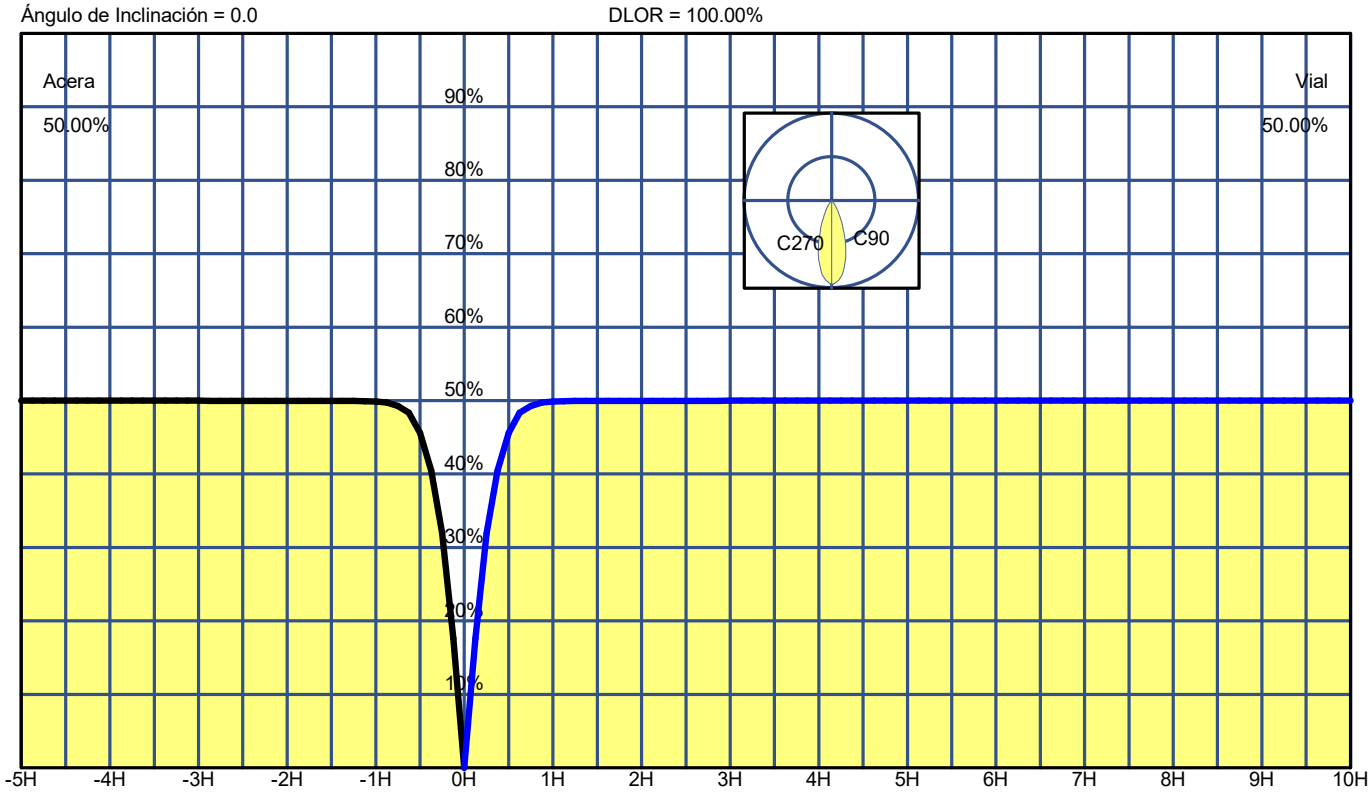
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Pavement

Angle	0	0.00%
Angle	-5	12.80%
Angle	-10	24.34%
Angle	-15	33.64%
Angle	-20	40.44%
Angle	-25	44.92%
Angle	-30	47.63%
Angle	-35	49.08%
Angle	-40	49.67%
Angle	-45	49.87%
Angle	-50	49.93%
Angle	-55	49.95%
Angle	-60	49.96%
Angle	-65	49.97%
Angle	-70	49.98%
Angle	-75	49.98%
Angle	-80	49.99%
Angle	-85	49.99%
Angle	-90	50.00%

Road

Angle	0	0.00%
Angle	5	12.80%
Angle	10	24.34%
Angle	15	33.64%
Angle	20	40.44%
Angle	25	44.92%
Angle	30	47.63%
Angle	35	49.08%
Angle	40	49.67%
Angle	45	49.87%
Angle	50	49.93%
Angle	55	49.95%
Angle	60	49.96%
Angle	65	49.97%
Angle	70	49.98%
Angle	75	49.98%
Angle	80	49.99%
Angle	85	49.99%
Angle	90	50.00%



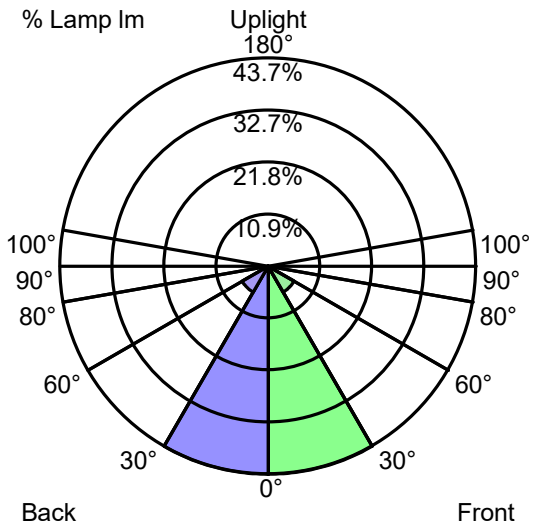
Spread	7.0° Estrecho	DLOR	100.00000 %
Throw	3.6° Corto	ULOR	0.00000 %
SLI	12.9 Concentrado	Eficiencia	100.00000 %
Cutoff CIE	Cutoff - Max: C=0.0° Gamma=0.0°	RN	0.00000 %
Cutoff Iesna	Cutoff	Clase de Intensidad Luminosa	G*6
DIN5044	KB1	Índice de Deslumbramiento	D6

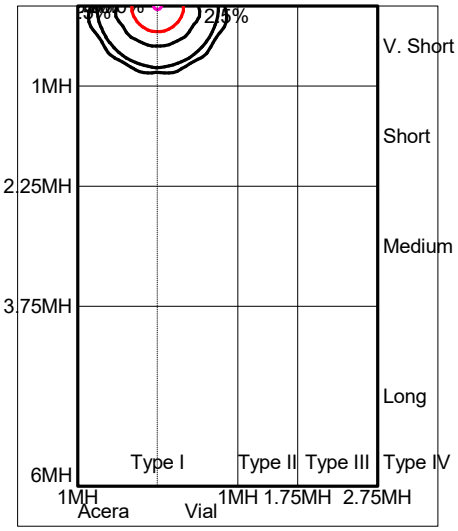
IESNA Type V Very Short Quadrilateral Symmetry

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US ROAD STANDARDS





Luminaire Classification System (LCS)				
LCS Zone		Lumens	%Lamp	%Lum
FL	0° -- 30°	98.4 lm	43.7 %	43.7 %
FM	30° -- 60°	14.2 lm	6.3 %	6.3 %
FH	60° -- 80°	0.1 lm	0.0 %	0.0 %
FVH	80° -- 90°	0.0 lm	0.0 %	0.0 %
BL	0° -- 30°	98.4 lm	43.7 %	43.7 %
BM	30° -- 60°	14.2 lm	6.3 %	6.3 %
BH	60° -- 80°	0.1 lm	0.0 %	0.0 %
BVH	80° -- 90°	0.0 lm	0.0 %	0.0 %
UL	90° -- 100°	0.0 lm	0.0 %	0.0 %
UH	100° -- 180°	0.0 lm	0.0 %	0.0 %
TOTALS		225.5 lm	100.0 %	100.0 %
BUG B0 U0 G0		Type V Very Short		Quadrilateral Symmetry

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Spectral Data

Std.: No import standard

CIE1931	x =0.458209	y =0.407243
CIE1960	u =0.262942	v =0.350543
CIE1976	u'=0.262942	v'=0.525814
D(u,v)	0.00111	

Color rendering index (CRI)
Color Rendering Components

CCT = [2697 K]*

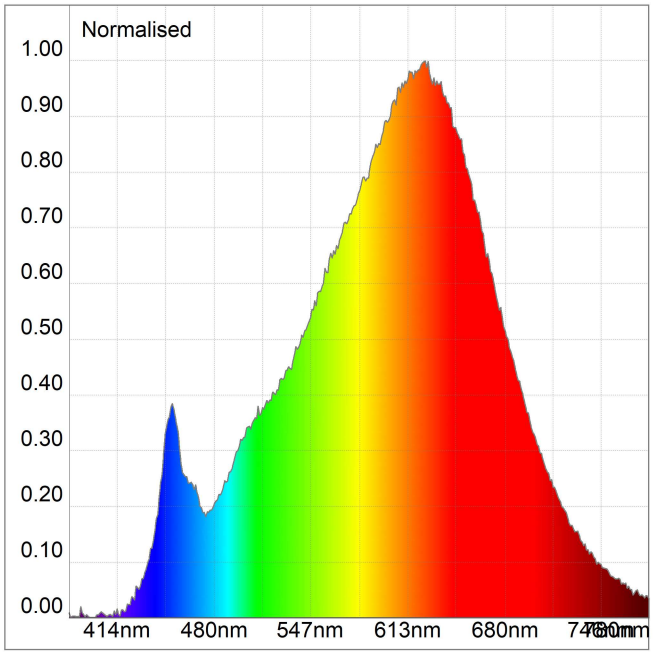
CRI8(Ra) [91.0]* CRI15(Rav) [88.4]*

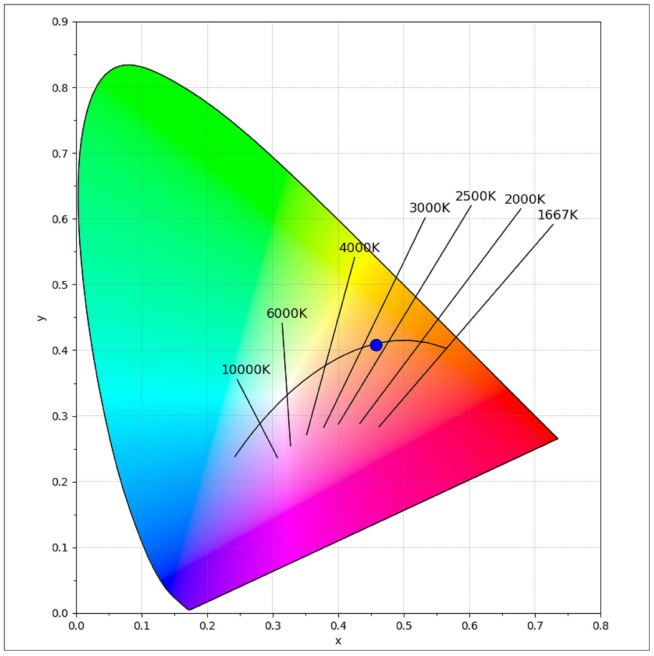
R 1: 90.6	R 2: 96.2	R 3: 98.1	R 4: 89.5	R 5: 90.7
R 6: 95.5	R 7: 89.7	R 8: 78.0	R 9: 53.8	R10: 90.7
R11: 89.4	R12: 85.1	R13: 91.9	R14: 99.5	R15: 87.0

Spectral Distribution

l(nm)	Normalised	l(nm)	Normalised	l(nm)	Normalised
381.0	0.008649	387.0	0.002057	393.0	0.005224
399.0	0.000330	405.0	0.006514	411.0	0.002879
417.0	0.014389	423.0	0.023423	429.0	0.051213
435.0	0.098648	441.0	0.178598	447.0	0.328940
453.0	0.375151	459.0	0.260634	465.0	0.243202
471.0	0.199860	477.0	0.189040	483.0	0.211669
489.0	0.243551	495.0	0.288143	501.0	0.323474
507.0	0.349681	513.0	0.366320	519.0	0.390507
525.0	0.408548	531.0	0.444520	537.0	0.487030
543.0	0.514963	549.0	0.552343	555.0	0.594731
561.0	0.654811	567.0	0.677652	573.0	0.713134
579.0	0.749695	585.0	0.784251	591.0	0.835434
597.0	0.872418	603.0	0.920932	609.0	0.942897
615.0	0.981592	621.0	0.983492	627.0	0.988203
633.0	0.955574	639.0	0.935769	645.0	0.882201
651.0	0.859610	657.0	0.787498	663.0	0.728357
669.0	0.653689	675.0	0.576207	681.0	0.515490
687.0	0.460648	693.0	0.403206	699.0	0.341244
705.0	0.295624	711.0	0.258931	717.0	0.219669
723.0	0.189259	729.0	0.154303	735.0	0.129526
741.0	0.115798	747.0	0.095650	753.0	0.077919
759.0	0.070812	765.0	0.052922	771.0	0.048438
777.0	0.035568				

Spectrum Graph

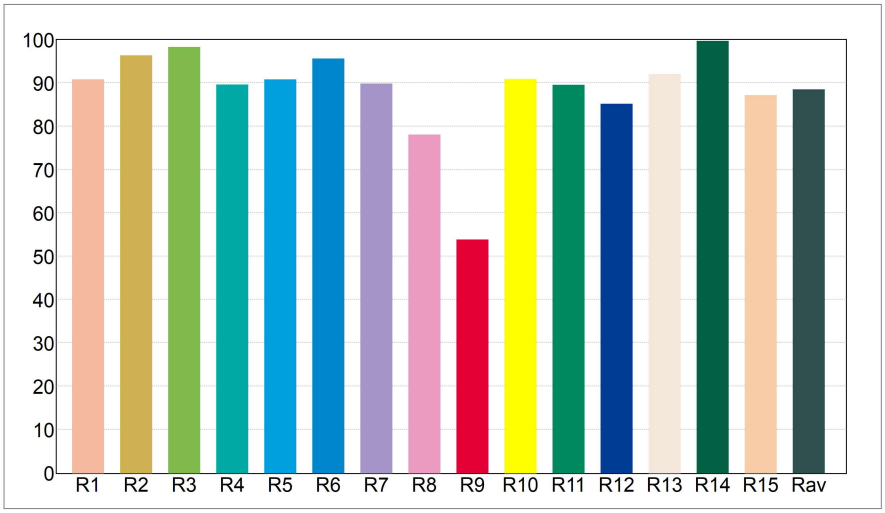


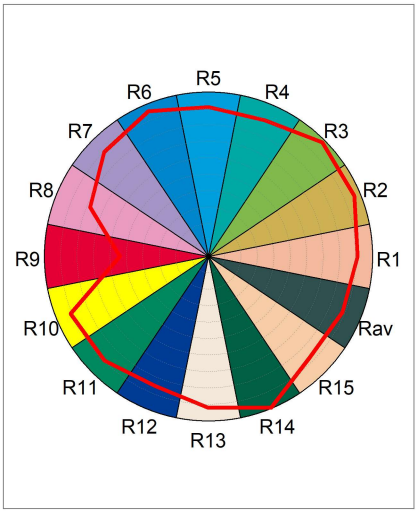


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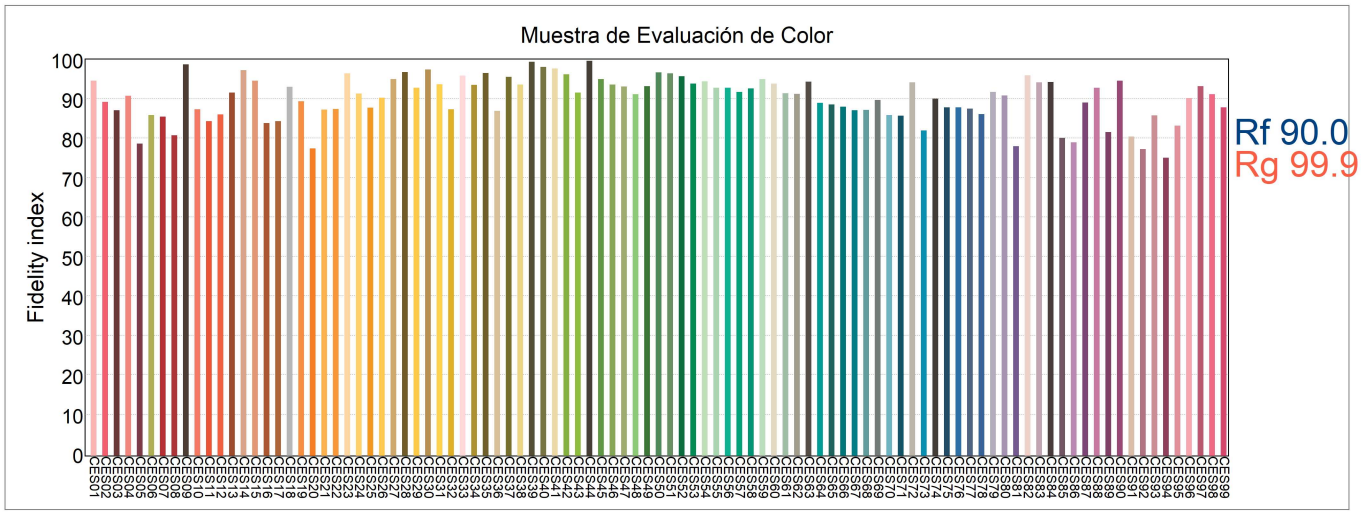
CRI Graphs



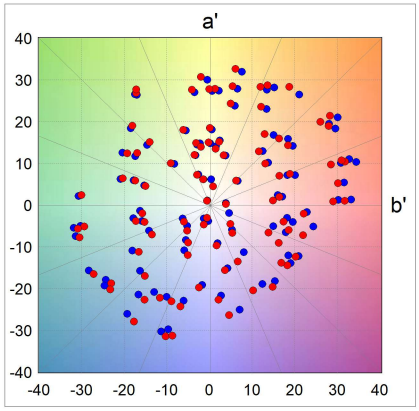


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Code CL092A20F021GE2
Name KYBELL PLUS A/02 NEGRO EBANO

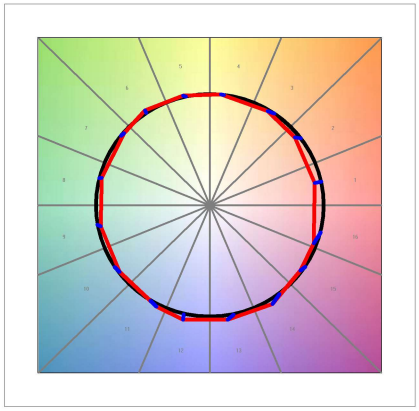
Luminaire Flux	226 lm	Luminaire Power	4.8 W	Efficacy	47.279 lm/W	Efficiency	100.00%
Source Flux	226 lm	Maximum value	530.94 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical



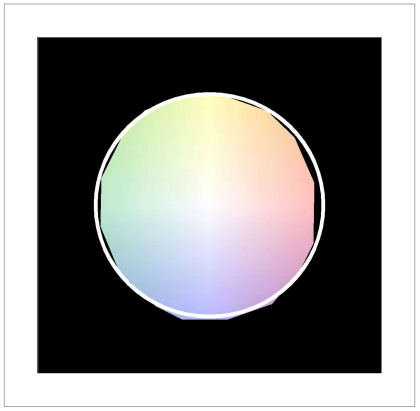
Chromatic Coordinates (a', b') 99 CES



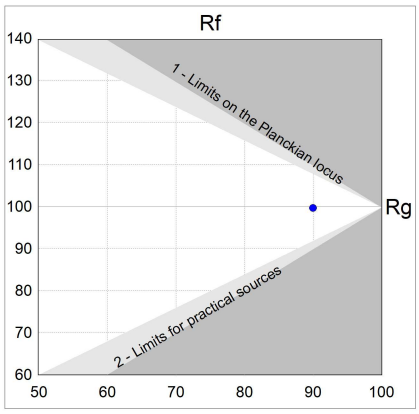
Color Vector Graphic



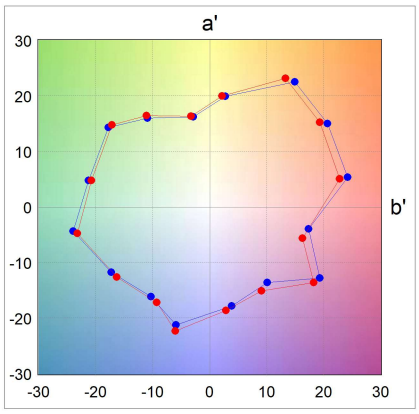
Color Distorsion Graphic



Rg vs Rf Plot



Gamut Polygon



Bin Deviation

