Luminaire

Code	25902208360
Name	DREP S/01 BLACK EBONY-OPAL WHITE GLASS
Line	

Measurem.

Code	CL092A25D013GP
Name	DREP S/01 BLACK EBONY-OPAL WHITE GLASS

Source Data

Code	CMA1306-0000-000C0U0A27G	Correlated Color Temperature (CCT)	2673K	Q.ty	1
Name	CREE	Color rendering index (CRI)	93		
Line					

Measurement data

Coordinate system	CG	Symmetry Type	Double Symmetrical
Date	02-07-2025	Maximum Gamma Angle	180°
Measurement Distance	6.49m	Measurement Flux	223.0 lm
Maximum	1582.07 cd/klm	Position	C=0.0° G=0.0°
Remarks	RM25062502.2		

Electrical Parameters

Channel 1		Channel 2	
Voltage	230.00 V	Voltage	0.00 V
Current	0.04 A	Current	0.00 A
Power	4.30 W	Power	0.00 W
Frequency	0 Hz	Frequency	0 Hz
Power Factor	0.53	Power Factor	0.00

Environmental Parameters

Temperature	24.5 °C	Air Speed	0.0 m/s
Humidity	45.8 %		

Luminaire Dimensions

Round Luminaire	Diam.	160 mm	Height	110 mm
Round Luminous Area	Diam.	160 mm	Height	110 mm

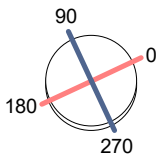
Horizontal Luminous Area	0.020106 m2	Emitting area on Plane 180°	0.017600 m2
Emitting area on Plane 0°	0.017600 m2	Emitting area on Plane 270°	0.017600 m2
Emitting area on Plane 90°	0.017600 m2	Glare area at 76°	0.021941 m2

Photometric Assessment

Luminaire Flux	223.0 lm	Source Flux	223.0 lm
Efficacy	51.864 lm/W	Efficiency	100.0 %
CIE Flux Codes	67 81 92 79 100	D DIN 5040	B51
F UTE	0.79 C + 0.21 T	B NBN	BZ 1 / 1 / BZ 2 / 1.5 / BZ 3 / 4 / BZ 4

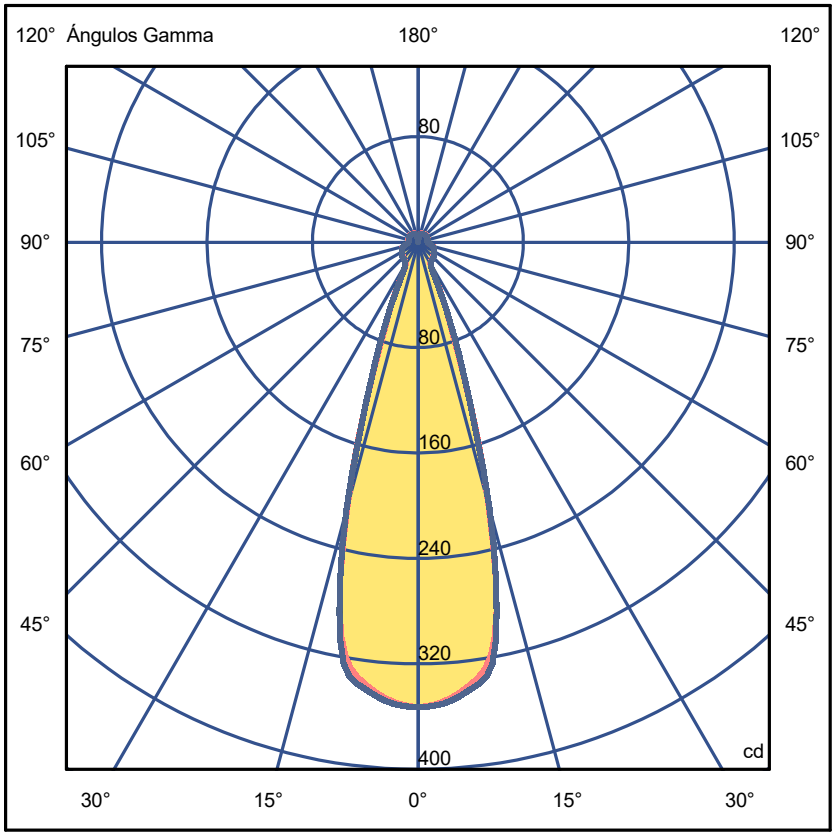


Diam=160mm





ULOR 20.71 %
DLOR 79.29 %
RN 20.71 %



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Luminaire Flux	223 lm	Luminaire Power	4.3 W	Efficacy	51.864 lm/W	Efficiency	100.00%
Source Flux	223 lm	Maximum value	352.82 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

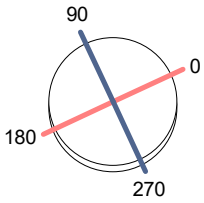
Luminous Intensity Table cd **Table 1/1**

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	353	353	353	353	353	353	353
G 2.5	350	350	351	351	351	351	351
G 5.0	344	345	345	346	346	347	347
G 7.5	335	336	337	338	338	339	339
G 10.0	319	318	316	315	318	322	325
G 12.5	276	273	271	268	270	273	275
G 15.0	207	207	204	203	205	208	210
G 17.5	141	140	138	137	137	138	138
G 20.0	85	87	89	90	91	92	91
G 22.5	57	58	58	58	58	58	58
G 25.0	36	36	36	36	35	35	35
G 27.5	23	23	24	24	24	23	22
G 30.0	19	20	20	20	20	20	19
G 32.5	18	18	19	19	19	19	18
G 35.0	17	18	18	18	18	18	18
G 37.5	17	17	17	18	18	17	17
G 40.0	16	17	17	17	17	17	17
G 42.5	16	16	17	17	17	17	17
G 45.0	16	16	16	16	16	16	16
G 47.5	16	16	16	16	16	16	16
G 50.0	15	15	16	16	16	16	16
G 52.5	15	15	15	15	15	16	16
G 55.0	15	15	15	15	15	15	15
G 57.5	15	15	15	15	15	15	15
G 60.0	14	14	14	14	14	14	14
G 62.5	14	14	14	14	14	14	14
G 65.0	13	13	13	13	13	13	14
G 67.5	13	13	13	13	13	13	13
G 70.0	13	13	13	13	13	13	13
G 72.5	12	12	12	12	12	12	12
G 75.0	11	11	11	11	11	11	11
G 77.5	10	10	10	10	10	10	10
G 80.0	9	9	9	9	9	9	9
G 82.5	9	9	9	9	9	9	9
G 85.0	8	8	8	8	8	8	8
G 87.5	8	8	7	7	7	7	7
G 90.0	7	7	7	7	7	7	7
G 92.5	7	7	7	7	7	7	7
G 95.0	7	7	7	7	7	7	7
G 97.5	7	7	7	7	7	7	7
G100.0	7	7	7	7	7	7	7
G102.5	7	7	7	7	7	7	7
G105.0	8	7	7	7	7	7	7
G107.5	8	8	7	7	7	7	7
G110.0	8	8	8	8	7	8	8
G112.5	8	8	8	8	8	8	8
G115.0	8	8	8	8	8	8	8
G117.5	8	8	8	8	8	8	8
G120.0	8	8	8	8	8	8	8
G122.5	8	8	8	8	8	8	8
G125.0	8	8	8	8	8	8	8
G127.5	8	8	8	8	8	8	8
G130.0	8	8	8	8	8	8	8
G132.5	8	8	8	8	8	8	8
G135.0	8	8	8	8	8	8	8
G137.5	8	8	8	8	8	8	8
G140.0	8	8	8	8	8	8	8
G142.5	8	8	8	8	7	7	7
G145.0	8	8	8	7	7	7	7
G147.5	8	8	7	7	7	7	7
G150.0	8	7	7	7	7	7	7
G152.5	7	7	7	7	7	7	7
G155.0	7	7	7	7	7	7	7
G157.5	7	7	7	7	7	7	7
G160.0	7	7	7	7	7	7	7
G162.5	7	7	7	7	6	6	6
G165.0	6	6	6	6	6	6	6
G167.5	6	6	6	6	6	5	5
G170.0	4	5	5	5	5	5	5
G172.5	3	3	3	3	3	3	3
G175.0	1	1	1	1	2	2	2
G177.5	0	0	1	1	1	1	1
G180.0	0	0	0	0	0	0	0

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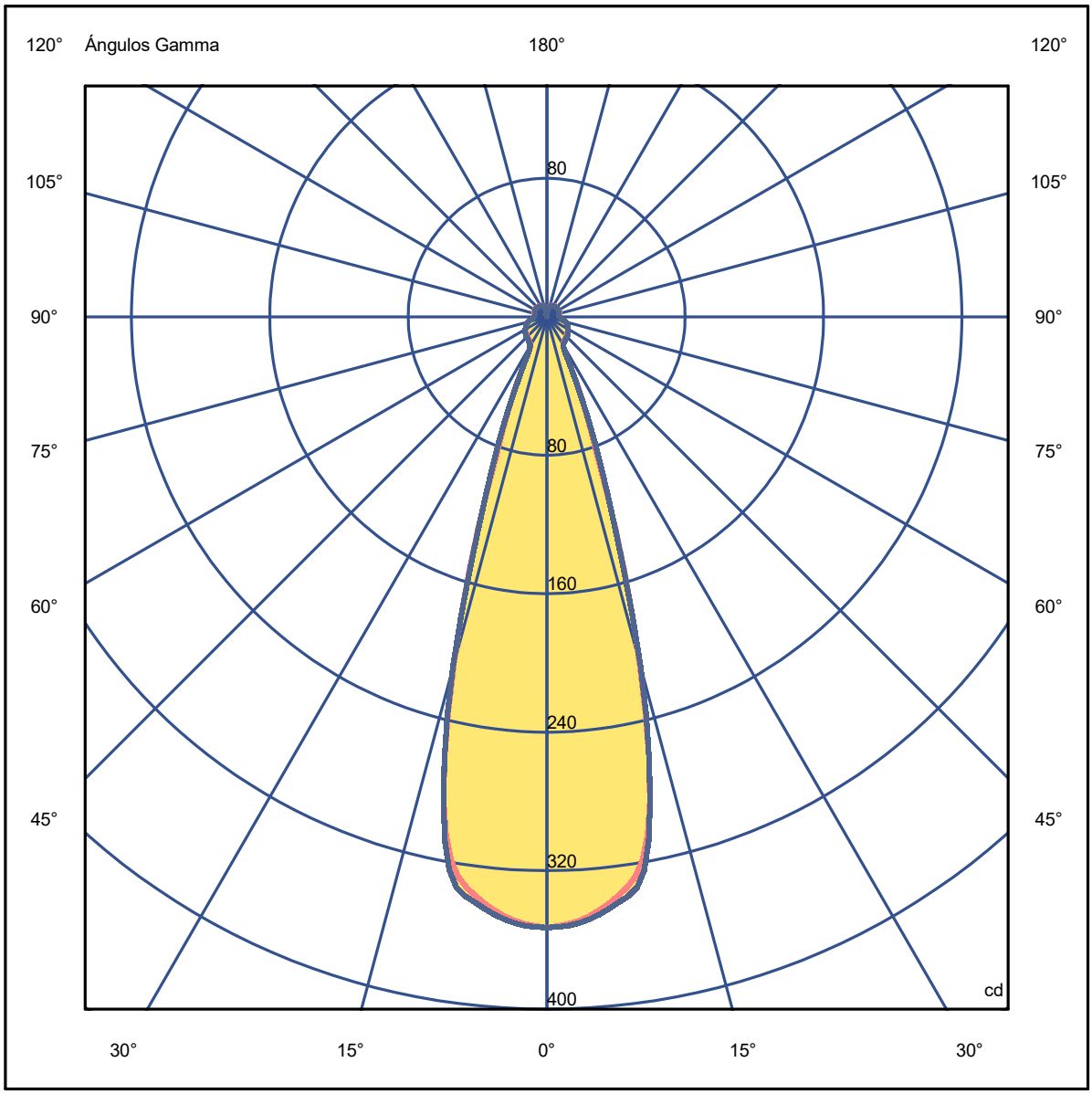
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Source Flux	223 lm	Maximum value	352.82 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Diam=160mm



Semiplanos C





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Source Flux	223 lm	Maximum value	352.82 cd	Position	C=0.00 G=0.00	CG	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
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	7.0	7.9	7.6	8.4	9.0	7.1	8.0	7.6	8.5	9.1
x=2H y=3H	9.2	10.0	9.8	10.6	11.2	9.2	10.0	9.8	10.6	11.2
x=2H y=4H	10.2	11.0	10.8	11.6	12.2	10.2	11.0	10.8	11.6	12.2
x=2H y=6H	11.0	11.7	11.7	12.4	13.1	11.0	11.7	11.6	12.3	13.0
x=2H y=8H	11.4	12.1	12.0	12.7	13.4	11.4	12.1	12.0	12.7	13.4
x=2H y=12H	11.7	12.4	12.4	13.0	13.8	11.7	12.4	12.3	13.0	13.7
x=4H y=2H	7.8	8.6	8.4	9.2	9.8	7.8	8.6	8.5	9.2	9.9
x=4H y=3H	10.2	10.8	10.8	11.5	12.2	10.2	10.8	10.8	11.5	12.2
x=4H y=4H	11.3	11.9	12.0	12.5	13.3	11.3	11.9	12.0	12.5	13.3
x=4H y=6H	12.3	12.8	13.0	13.5	14.3	12.2	12.7	12.9	13.4	14.2
x=4H y=8H	12.7	13.2	13.4	13.9	14.7	12.7	13.1	13.4	13.8	14.6
x=4H y=12H	13.1	13.5	13.8	14.3	15.1	13.1	13.5	13.8	14.2	15.1
x=8H y=4H	11.7	12.2	12.4	12.9	13.7	11.7	12.1	12.4	12.8	13.7
x=8H y=6H	12.9	13.2	13.6	14.0	14.8	12.8	13.2	13.6	13.9	14.8
x=8H y=8H	13.4	13.8	14.2	14.5	15.4	13.4	13.7	14.1	14.5	15.3
x=8H y=12H	14.0	14.3	14.8	15.0	15.9	13.9	14.2	14.7	15.0	15.9
x=12H y=4H	11.7	12.2	12.5	12.9	13.7	11.7	12.1	12.4	12.9	13.7
x=12H y=6H	13.0	13.3	13.7	14.1	14.9	12.9	13.3	13.7	14.0	14.9
x=12H y=8H	13.6	13.9	14.4	14.6	15.6	13.6	13.9	14.3	14.6	15.5

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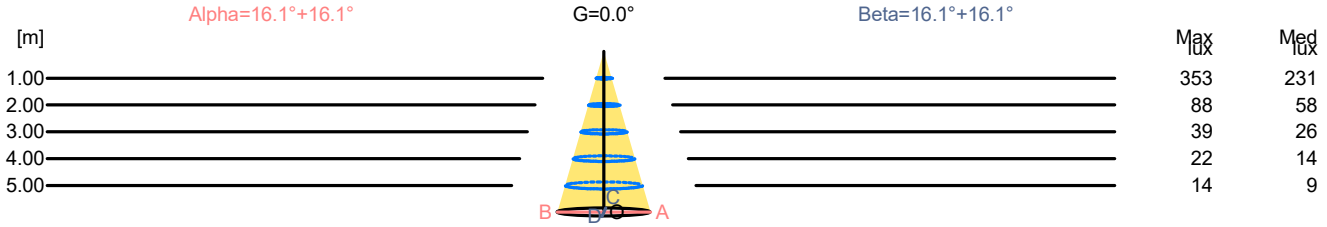
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Source Flux	223 lm	Maximum value	352.82 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

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	0.29	0.58	0.87	1.16	1.45	OC	0.29	0.58	0.87	1.16	1.45
OB	0.29	0.58	0.87	1.16	1.45	OD	0.29	0.58	0.87	1.16	1.45

Luminous Intensities [cd]

	0	5	15	25	35	45	55	65	75	85
OA	352.82	344.33	207.35	35.87	17.27	15.82	14.85	13.50	11.30	8.04
OB	352.82	344.33	207.35	35.87	17.27	15.82	14.85	13.50	11.30	8.04
OC	352.82	346.63	209.58	34.82	17.75	16.39	15.19	13.51	11.11	7.90
OD	352.82	346.63	209.58	34.82	17.75	16.39	15.19	13.51	11.11	7.90



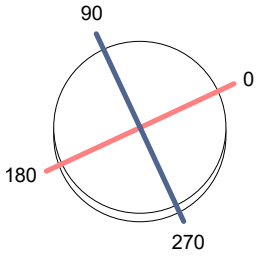
H[m]	D[m]	Max lux	Med lux	Alpha=16.1°+16.1° G=0.0
1.00	0.58	353	231	
2.00	1.16	88	58	
3.00	1.74	39	26	
4.00	2.31	22	14	
5.00	2.89	14	9	

H[m]	D[m]	Max lux	Med lux	Beta=16.1°+16.1° G=0.0
1.00	0.58	353	231	
2.00	1.16	88	58	
3.00	1.73	39	26	
4.00	2.31	22	14	
5.00	2.89	14	9	

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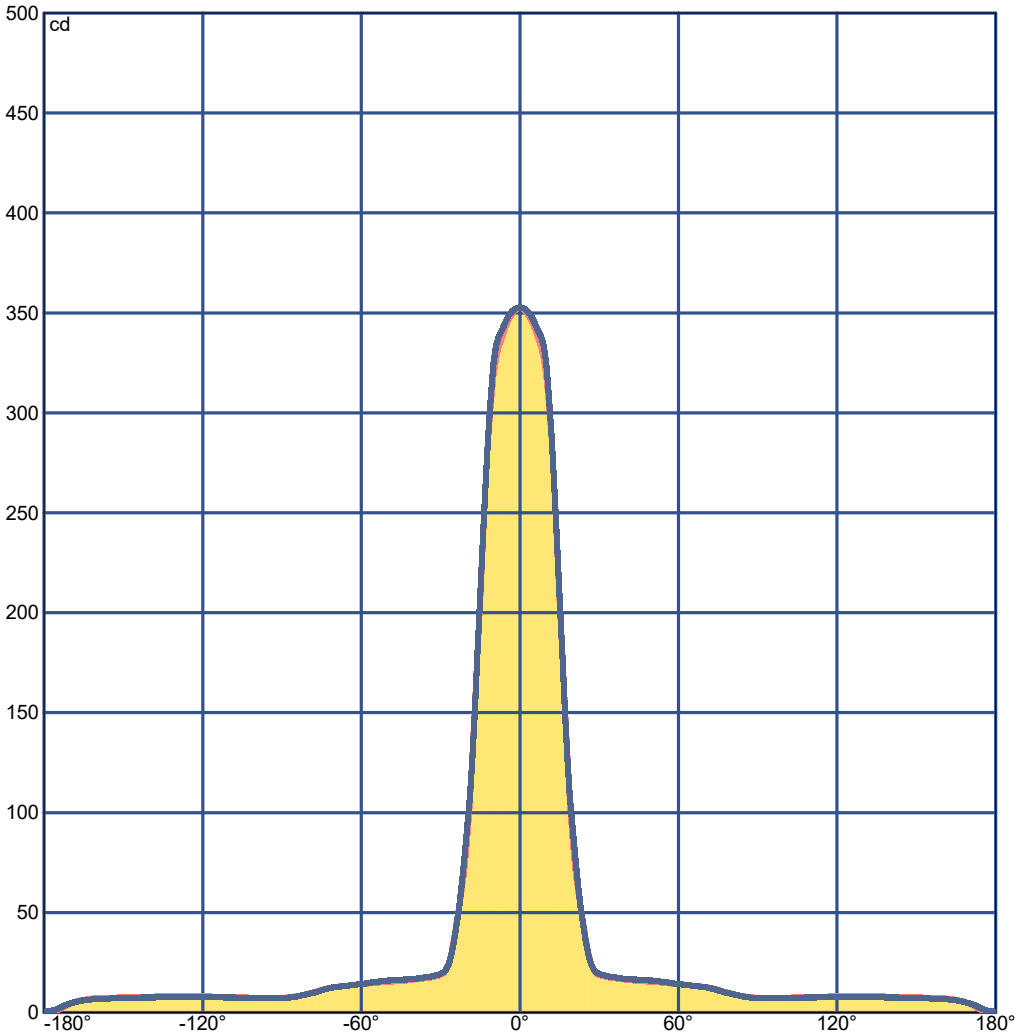
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Source Flux	223 lm	Maximum value	352.82 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Diam=160mm



Semiplanos C





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Source Flux	223 lm	Maximum value	352.82 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Flujo Total=223.01 Flujo Luminaria=223.01

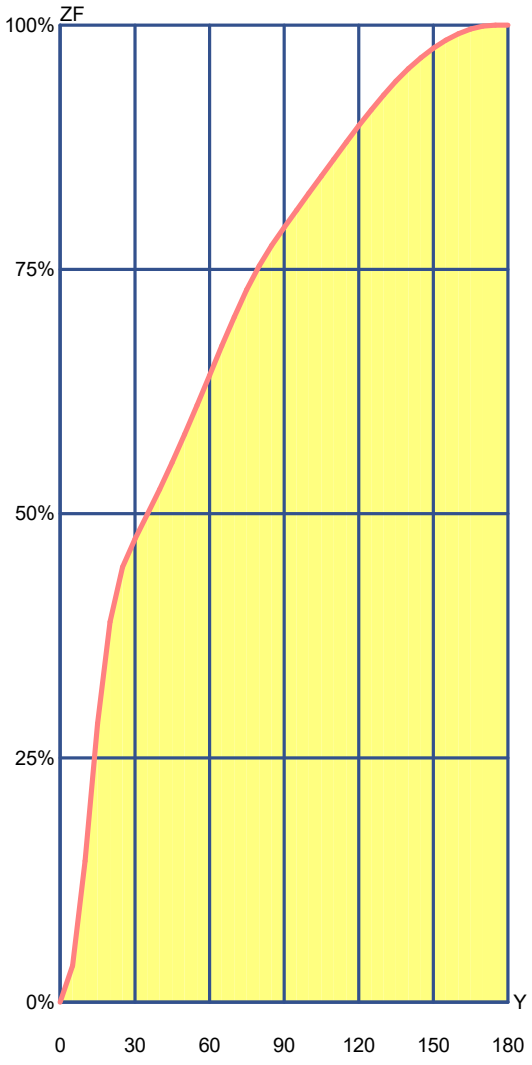
RI	0.60	0.80	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00	10.00	20.00
DRR	0.48	0.54	0.59	0.64	0.68	0.74	0.79	0.82	0.86	0.88	0.94	0.97
RC	2	2	3	3	3	3	3	3	4	4	3	3

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)	144	389	474	525	581	641	701	754	793	828	863	897	928	955	976	991	999	1000

Códigos de Flujo C.I.E.
67 81 92 79 100

C.I.E.	2/2/3/3/3/3/3/3/4/4/3/3	LOR	100.00000 %
D DIN 5040	B51	ULOR	20.70874 %
F UTE	0.79 C + 0.21 T	DLOR	79.29126 %
B NBN	BZ 1 / 1 / BZ 2 / 1.5 / BZ 3 / 4 / BZ 4	UFF	20.70874 %
RN	20.70874 %	DFF	79.29126 %
BLF	1.0	FFR	26.11731 %



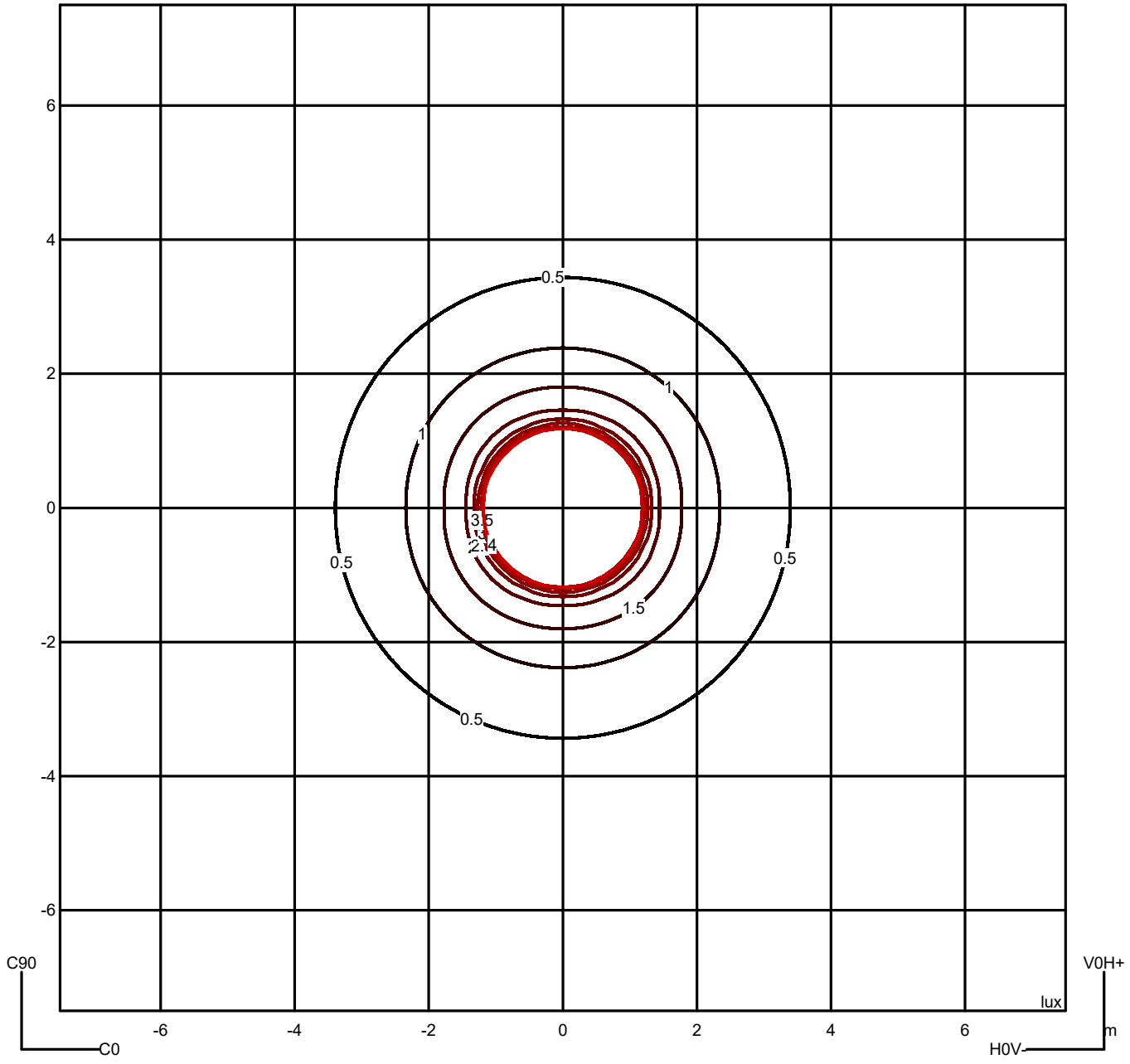
Flujo Zonal				
Gamma °	Flujo	Suma lm	Flujo [%]	Suma [%]
0°	0.00	0.00	0.00%	0.00 %
5°	37.43	37.43	3.74 %	3.74 %
10°	107.04	144.48	10.70 %	14.45 %
15°	140.54	285.02	14.05 %	28.50 %
20°	104.19	389.20	10.42 %	38.92 %
25°	56.09	445.29	5.61 %	44.53 %
30°	28.83	474.12	2.88 %	47.41 %
35°	24.76	498.88	2.48 %	49.89 %
40°	26.00	524.88	2.60 %	52.49 %
45°	27.49	552.38	2.75 %	55.24 %
50°	28.89	581.27	2.89 %	58.13 %
55°	29.91	611.18	2.99 %	61.12 %
60°	30.27	641.45	3.03 %	64.14 %
65°	30.15	671.60	3.02 %	67.16 %
70°	29.64	701.24	2.96 %	70.12 %
75°	28.01	729.25	2.80 %	72.93 %
80°	24.35	753.60	2.43 %	75.36 %
85°	20.92	774.52	2.09 %	77.45 %
90°	18.39	792.91	1.84 %	79.29 %
95°	17.48	810.39	1.75 %	81.04 %
100°	17.38	827.76	1.74 %	82.78 %
105°	17.45	845.21	1.75 %	84.52 %
110°	17.52	862.73	1.75 %	86.27 %
115°	17.34	880.07	1.73 %	88.01 %
120°	16.90	896.97	1.69 %	89.70 %
125°	16.20	913.17	1.62 %	91.32 %
130°	15.26	928.43	1.53 %	92.84 %
135°	14.11	942.54	1.41 %	94.25 %
140°	12.79	955.33	1.28 %	95.53 %
145°	11.33	966.65	1.13 %	96.67 %
150°	9.77	976.42	0.98 %	97.64 %
155°	8.16	984.58	0.82 %	98.46 %
160°	6.53	991.11	0.65 %	99.11 %
165°	4.83	995.94	0.48 %	99.59 %
170°	2.93	998.87	0.29 %	99.89 %
175°	1.04	999.90	0.10 %	99.99 %
180°	0.10	1000.00	0.01 %	100.00 %

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Source Flux	223 lm	Maximum value	352.82 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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Source Flux	223 lm	Maximum value	352.82 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

Spectral Data

Std.: No import standard

CIE1931	x =0.463260	y =0.413113
CIE1960	u =0.263559	v =0.352544
CIE1976	u'=0.263559	v'=0.528816
D(u,v)	0.00065	

Color rendering index (CRI)
Color Rendering Components

CCT = [2673 K]*

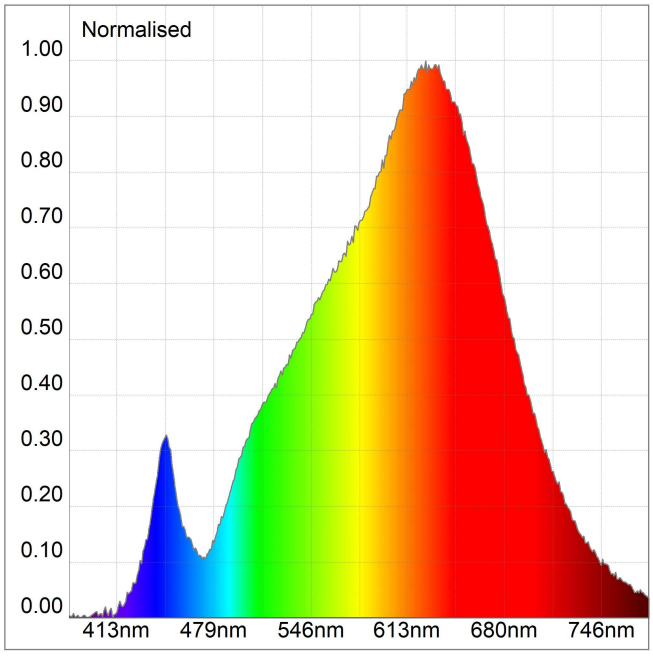
CRI8(Ra) [93.0]* CRI15(Rav) [90.7]*

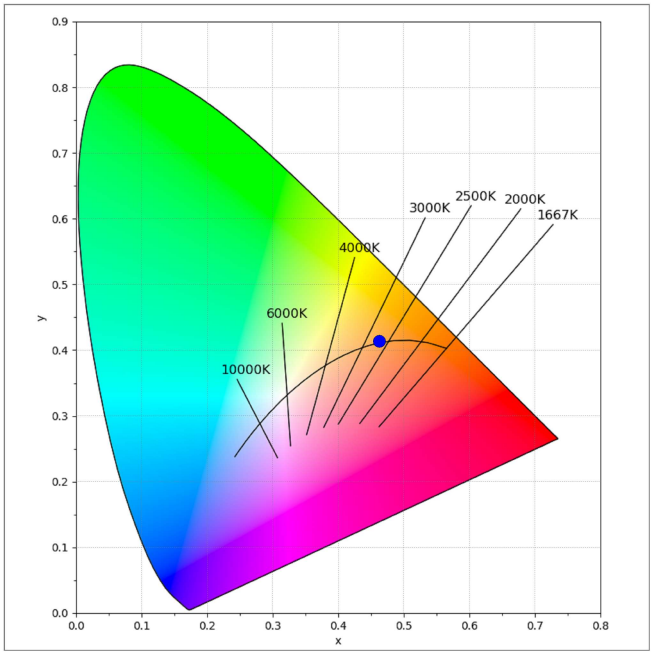
R 1: 93.4	R 2: 95.1	R 3: 95.4	R 4: 94.2	R 5: 92.9
R 6: 94.4	R 7: 93.7	R 8: 85.2	R 9: 66.0	R10: 87.9
R11: 95.5	R12: 86.4	R13: 93.6	R14: 96.6	R15: 90.1

Spectral Distribution

l(nm)	Normalised	l(nm)	Normalised	l(nm)	Normalised
380.0	0.002763	386.0	0.004200	392.0	0.000075
398.0	0.009437	404.0	0.012815	410.0	0.000496
416.0	0.021407	422.0	0.046148	428.0	0.085185
434.0	0.140741	440.0	0.242963	446.0	0.322963
452.0	0.257037	458.0	0.162963	464.0	0.140000
470.0	0.111852	476.0	0.116296	482.0	0.153333
488.0	0.200741	494.0	0.249630	500.0	0.306667
506.0	0.348889	512.0	0.373333	518.0	0.401481
524.0	0.429630	530.0	0.454815	536.0	0.483704
542.0	0.511852	548.0	0.544444	554.0	0.579259
560.0	0.605185	566.0	0.640741	572.0	0.676296
578.0	0.702222	584.0	0.729630	590.0	0.770370
596.0	0.822222	602.0	0.859259	608.0	0.911111
614.0	0.948148	620.0	0.977778	626.0	1.000000
632.0	0.992593	638.0	0.962963	644.0	0.925926
650.0	0.903704	656.0	0.844444	662.0	0.777778
668.0	0.706667	674.0	0.643704	680.0	0.577037
686.0	0.503704	692.0	0.446667	698.0	0.391852
704.0	0.337778	710.0	0.288889	716.0	0.244444
722.0	0.204444	728.0	0.174074	734.0	0.143704
740.0	0.122222	746.0	0.100000	752.0	0.093333
758.0	0.068667	764.0	0.063481	770.0	0.045407
776.0	0.045037				

Spectrum Graph

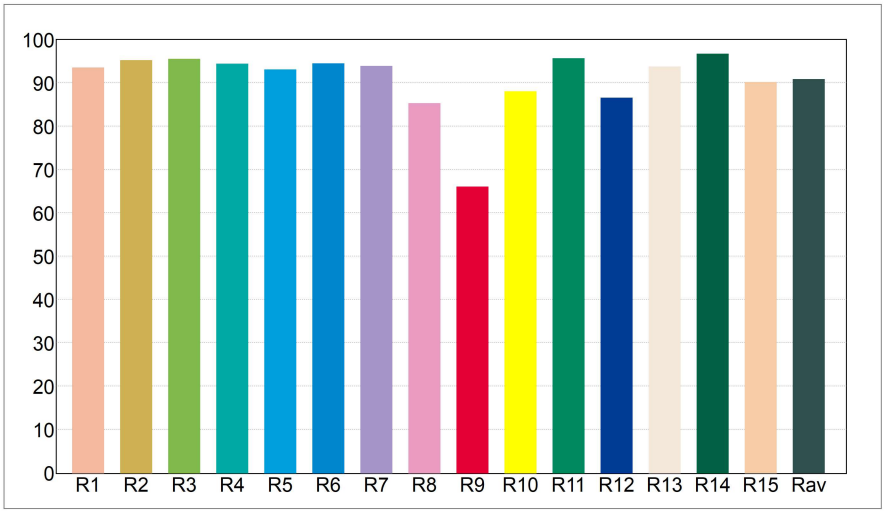


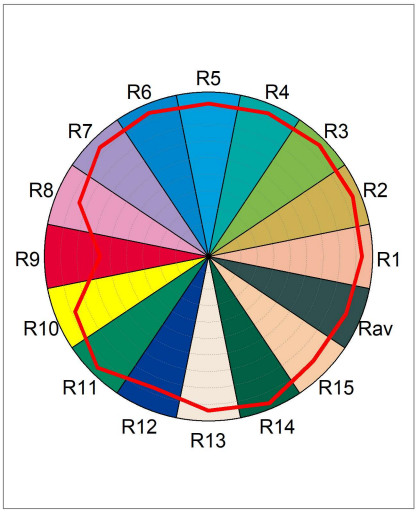


Luminaire
Code 25902208360
Name DREP S/01 BLACK EBONY-OPAL WHITE GLASS
Measurem.
Code CL092A25D013GP
Name DREP S/01 BLACK EBONY-OPAL WHITE GLASS

Luminaire Flux	223 lm	Luminaire Power	4.3 W	Efficacy	51.864 lm/W	Efficiency	100.00%
Source Flux	223 lm	Maximum value	352.82 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical

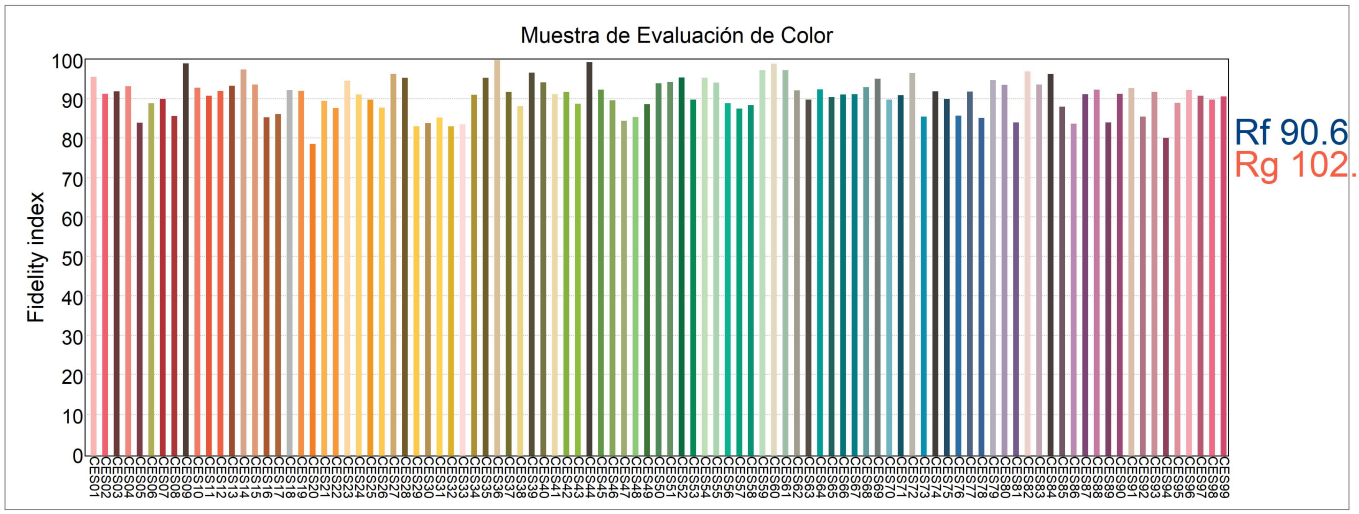
CRI Graphs



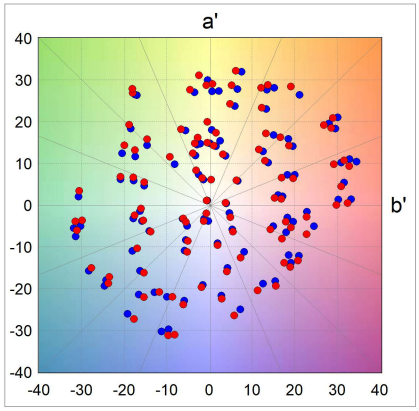


Luminaire
Code 25902208360
Name DREP S/01 BLACK EBONY-OPAL WHITE GLASS
Measurem.
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Name DREP S/01 BLACK EBONY-OPAL WHITE GLASS

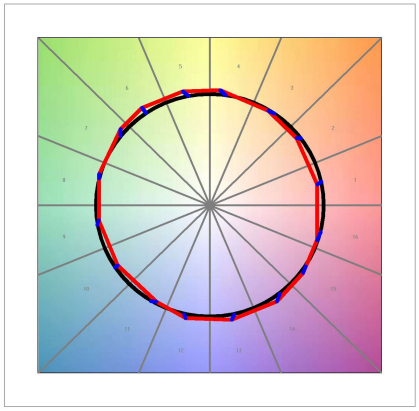
Luminaire Flux	223 lm	Luminaire Power	4.3 W	Efficacy	51.864 lm/W	Efficiency	100.00%
Source Flux	223 lm	Maximum value	352.82 cd	Position	C=0.00 G=0.00	CG	Double Symmetrical



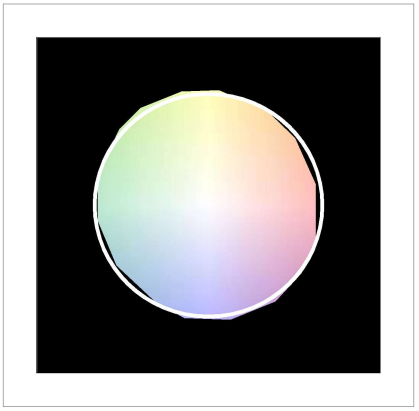
Chromatic Coordinates (a', b') 99 CES



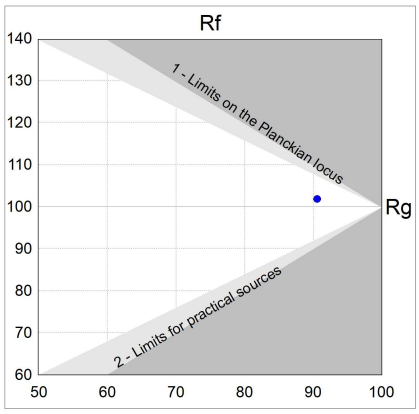
Color Vector Graphic



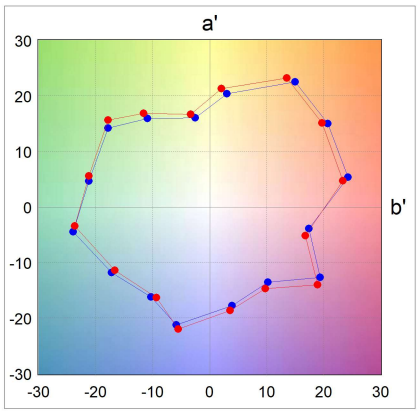
Color Distorsion Graphic



Rg vs Rf Plot



Gamut Polygon



Bin Deviation

