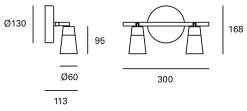
Vitro Double

DE-0195-CRO

Spotlights series Vitro Double LED 12W 3000K ON-OFF Chrome 897lm





TECHNICAL FEATURES

IP20 RF 960ºC 355º ±90º F A↑G

Luminaire total power : 12W

Real lumens : 897

Nominal lumens : 1400

Real lm/W : 75

Lens / reflector angle : MEDIUM 28º

UGR : <=19

Structure material : Steel

Structure finish : Chrome

Voltage / frequency : 100-240V ~ 50/60Hz

Dimming protocol : ON-OFF

Power Factor : 0.90

Useful life : 36.000h L70B30

Warranty : 3 Years

Easily recyclable luminaire

LUMINOTECHNIC FEATURES

CRI: 80

MacAdam steps: 3

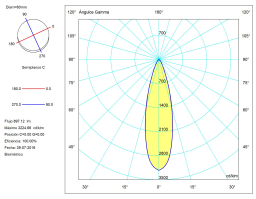
Photobiological risk: RG1

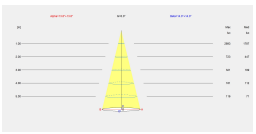
UGR

UGR crosswise: 16.2

UGR lengthwise: 16.1

Lampholder	Quantity	Light source power (W)	Correlated Colour Temperature (CCT)
LED	1	10W	3000K





LOGISTICS

Net weight (kg): 0.79

Packaged weight (kg): 1.02

Packaging: 140mm x 130mm x 320mm

12 Un

Image may not match reference. LEDS C4 reserves the right to amend any of the product's components. The data related to flux, power and colour temperature are subject to a tolerance of ±10%.

Luminaire
Code DE-0195-CRO
Name Aplique FORLIGHT led 10W 3000K
Measurem.
Code DE-0194-CRO
Name Aplique FORLIGHT led 5W 3000K

Luminaire Flux	897.12 lm	Luminaire Power	6.00 W	Efficacy	149.52 lm/W	Efficiency	100.00%
Lamps Flux	897.12 lm	Maximum value	3224.66 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

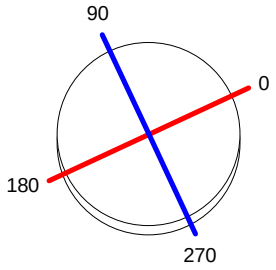
Round Luminaire	Diam. 60 mm	Height	170 mm
Round Luminous Area	Diam. 50 mm	Height	0 mm
Horizontal Luminous Area	0.001963 m2	Emitting area on Plane 180°	0.000000 m2
Emitting area on Plane 0°	0.000000 m2	Emitting area on Plane 270°	0.000000 m2
Emitting area on Plane 90°	0.000000 m2	Glare area at 76°	0.000475 m2
Coordinate system	CG	Symmetry Type	Double Symmetrical
Date	29-07-2016	Maximum Gamma Angle	90
Measurement Distance	0.00	Measurement Flux	897.12 lm
Operator	Asselum T3	Source Voltage [V]	
Temperature	25.00 °C	Source current [A]	
Humidity	60.00 %	Photocell	
Notes			

Luminaire Lamps

Line	Code	Name	Flux [lm]	Pow. [W]	Q.ty
	DE-0195-CRO	DE-0195-CRO - 10 W	897.12	10.00	1

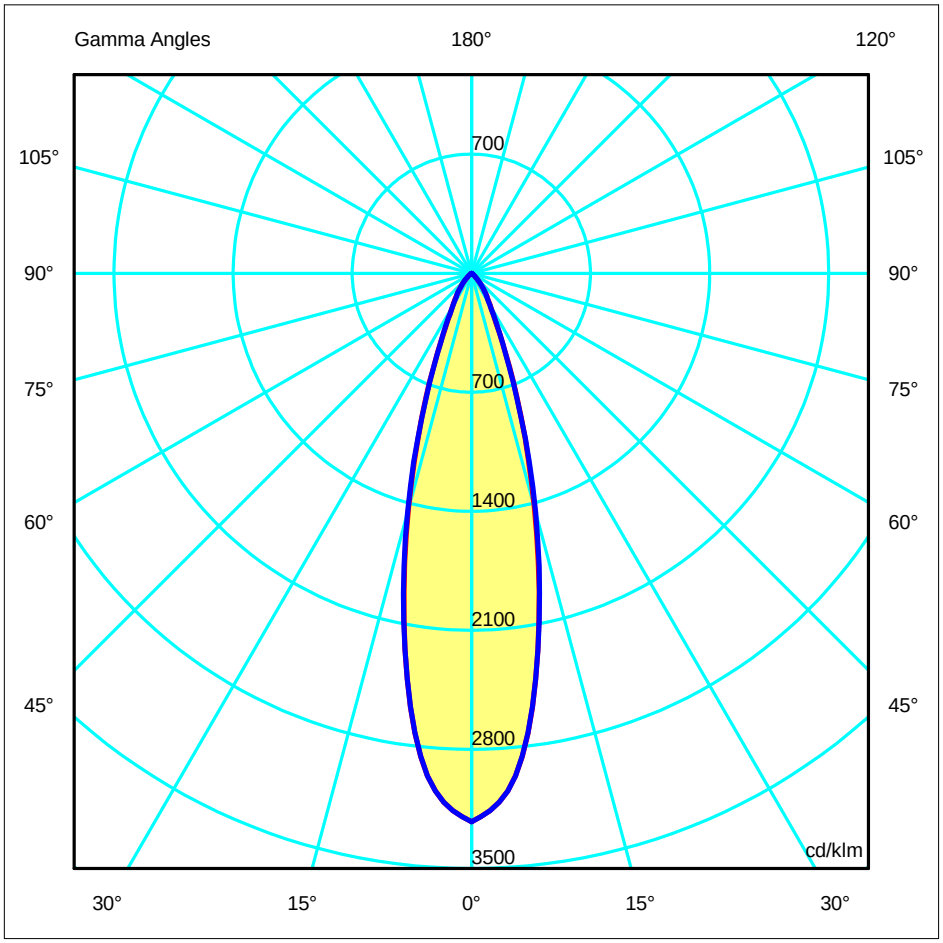
C.I.E.	96 100 100 100 100	D DIN 5040	A60
F UTE	1.00 A	B NBN	BZ 1

Diam=60mm



C Halfplanes

180.0 — 0.0
270.0 — 90.0



ULOR	0.00 %
DLOR	100.00 %
RN	0.00 %

Luminaire
Code DE-0195-CRO
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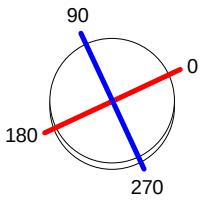
Luminous Intensity Table cd/klm **Table 1/1**

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	3224.66	3224.66	3224.66	3224.66	3224.66	3224.66	3224.66
G 5.0	2967.55	2964.17	2958.69	2963.19	2953.01	2950.26	2966.53
G 10.0	2248.77	2240.37	2244.64	2252.79	2251.60	2255.87	2248.16
G 15.0	1427.14	1423.90	1417.90	1437.84	1435.09	1443.11	1455.15
G 20.0	789.11	780.97	775.18	788.31	783.82	797.71	780.00
G 25.0	386.96	384.02	381.18	390.87	385.42	392.51	392.80
G 30.0	221.82	223.55	221.63	220.52	218.78	218.98	215.45
G 35.0	144.79	144.99	143.88	143.42	140.92	143.33	141.86
G 40.0	86.59	86.97	87.94	86.89	84.18	85.84	85.49
G 45.0	42.28	43.06	44.20	44.92	43.24	43.97	44.29
G 50.0	19.15	19.37	21.10	21.02	20.58	20.50	20.85
G 55.0	4.31	4.83	4.92	5.53	4.96	5.38	5.21
G 60.0	0.42	0.41	0.41	0.43	0.47	0.49	0.49
G 65.0	0.46	0.45	0.46	0.46	0.46	0.47	0.48
G 70.0	0.62	0.60	0.61	0.61	0.63	0.64	0.66
G 75.0	0.85	0.83	0.83	0.85	0.87	0.91	0.93
G 80.0	1.08	1.06	1.07	1.09	1.14	1.19	1.23
G 85.0	1.32	1.30	1.31	1.34	1.40	1.47	1.52
G 90.0	1.55	1.53	1.54	1.59	1.65	1.75	1.81

Luminaire
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Measurem.
Code DE-0194-CRO
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Lamps Flux	897.12 lm	Maximum value	3224.66 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

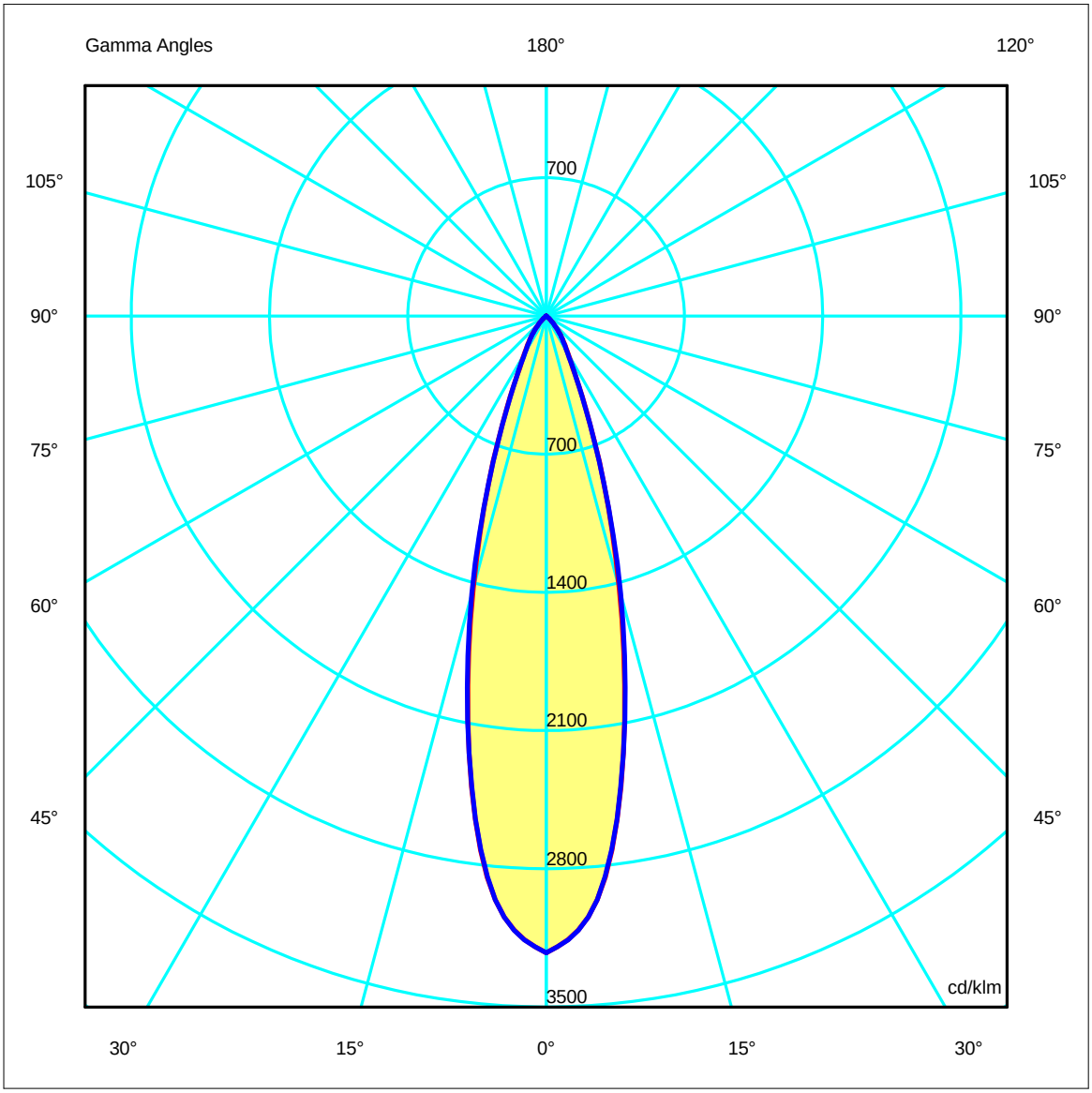
Diam=60mm



C Halfplanes

180.0 0.0

270.0 90.0



Luminaire
Code DE-0195-CRO
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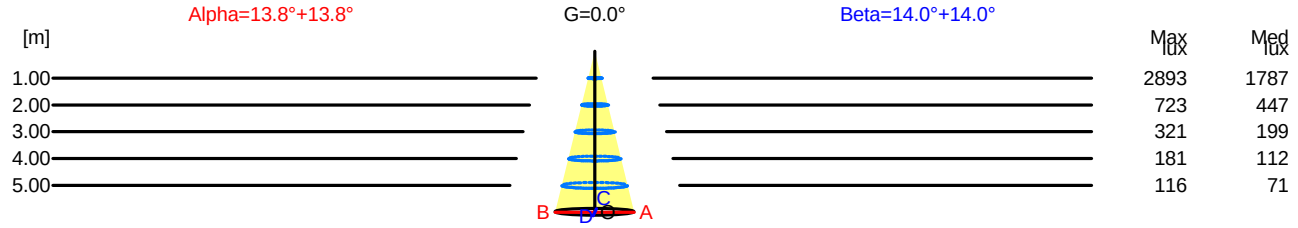
Luminaire Flux	897.12 lm	Luminaire Power	6.00 W	Efficacy	149.52 lm/W	Efficiency	100.00%
Lamps Flux	897.12 lm	Maximum value	3224.66 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

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	0.25	0.49	0.74	0.98	1.23	OC	0.25	0.50	0.75	1.00	1.24
OB	0.25	0.49	0.74	0.98	1.23	OD	0.25	0.50	0.75	1.00	1.24

Luminous Intensities [cd/klm]

	0	5	15	25	35	45	55	65	75	85
OA	2892.91	2662.25	1280.32	347.15	129.89	37.93	3.87	0.42	0.76	1.19
OB	2892.91	2662.25	1280.32	347.15	129.89	37.93	3.87	0.42	0.76	1.19
OC	2892.91	2661.33	1305.44	352.39	127.27	39.73	4.67	0.43	0.84	1.36
OD	2892.91	2661.33	1305.44	352.39	127.27	39.73	4.67	0.43	0.84	1.36



H[m]	D[m]	Max lux	Med lux	Alpha=13.8°+13.8° G=0.0
1.00	0.49	2893	1787	
2.00	0.98	723	447	
3.00	1.47	321	199	
4.00	1.97	181	112	
5.00	2.46	116	71	

H[m]	D[m]	Max lux	Med lux	Beta=14.0°+14.0° G=0.0
1.00	0.50	2893	1787	
2.00	1.00	723	447	
3.00	1.49	321	199	
4.00	1.99	181	112	
5.00	2.49	116	71	

Luminaire
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Code DE-0194-CRO
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Lamps Flux	897.12 lm	Maximum value	3224.66 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

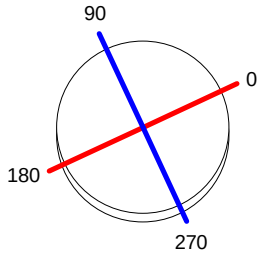
UGR
S = 0.250

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
WorkingPlane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
RoomDimensions	ViewedCrosswise					ViewedEndwise				
x=2H y=2H	16.4	17.0	16.6	17.2	17.3	16.3	16.9	16.5	17.1	17.3
x=2H y=3H	16.2	16.8	16.5	17.1	17.2	16.1	16.7	16.4	17.0	17.2
x=2H y=4H	16.2	16.7	16.5	17.0	17.1	16.1	16.6	16.4	16.9	17.1
x=2H y=6H	16.1	16.6	16.4	16.9	17.1	16.0	16.6	16.4	16.8	17.1
x=2H y=8H	16.1	16.6	16.5	16.9	17.1	16.1	16.6	16.4	16.9	17.1
x=2H y=12H	16.1	16.6	16.5	16.9	17.2	16.1	16.6	16.4	16.9	17.2
x=4H y=2H	16.2	16.7	16.5	17.0	17.1	16.1	16.6	16.4	16.9	17.1
x=4H y=3H	16.0	16.5	16.4	16.8	17.0	15.9	16.4	16.3	16.7	17.0
x=4H y=4H	16.0	16.4	16.3	16.7	17.0	15.9	16.3	16.3	16.6	17.0
x=4H y=6H	15.9	16.3	16.3	16.6	17.0	15.9	16.2	16.3	16.6	17.0
x=4H y=8H	16.0	16.3	16.4	16.7	17.0	15.9	16.2	16.3	16.6	17.0
x=4H y=12H	16.1	16.3	16.5	16.7	17.1	16.0	16.3	16.5	16.7	17.1
x=8H y=4H	15.9	16.2	16.3	16.6	16.9	15.8	16.1	16.2	16.5	16.9
x=8H y=6H	15.9	16.1	16.3	16.5	16.9	15.8	16.0	16.2	16.5	16.9
x=8H y=8H	15.9	16.1	16.4	16.6	17.0	15.9	16.1	16.4	16.5	17.0
x=8H y=12H	16.1	16.2	16.6	16.7	17.2	16.1	16.3	16.6	16.7	17.2
x=12H y=4H	15.8	16.1	16.3	16.5	16.8	15.7	16.0	16.2	16.4	16.8
x=12H y=6H	15.8	16.0	16.3	16.5	16.9	15.8	16.0	16.2	16.4	16.9
x=12H y=8H	15.9	16.1	16.4	16.5	17.0	15.9	16.0	16.4	16.5	17.0

Luminaire
Code DE-0195-CRO
Name Aplique FORLIGHT led 10W 3000K
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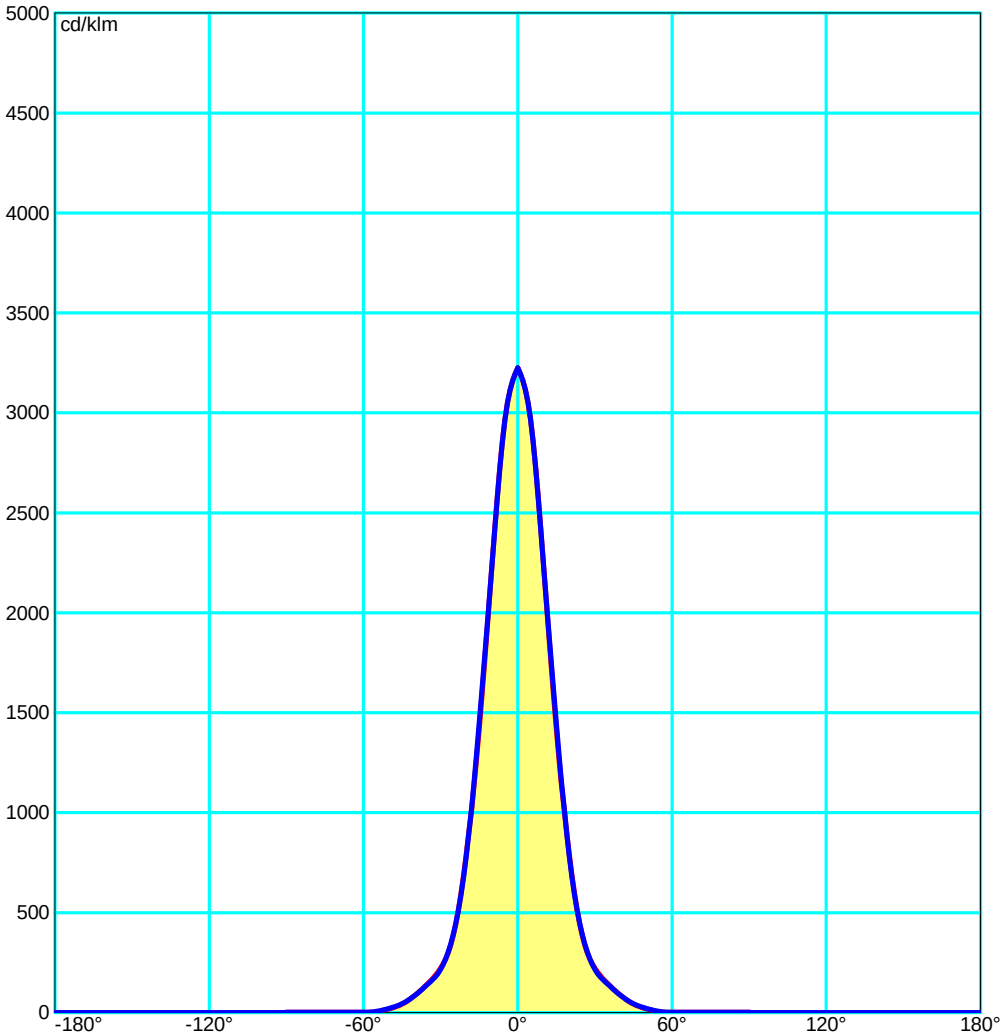
Luminaire Flux	897.12 lm	Luminaire Power	6.00 W	Efficacy	149.52 lm/W	Efficiency	100.00%
Lamps Flux	897.12 lm	Maximum value	3224.66 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

Diam=60mm



C Halfplanes

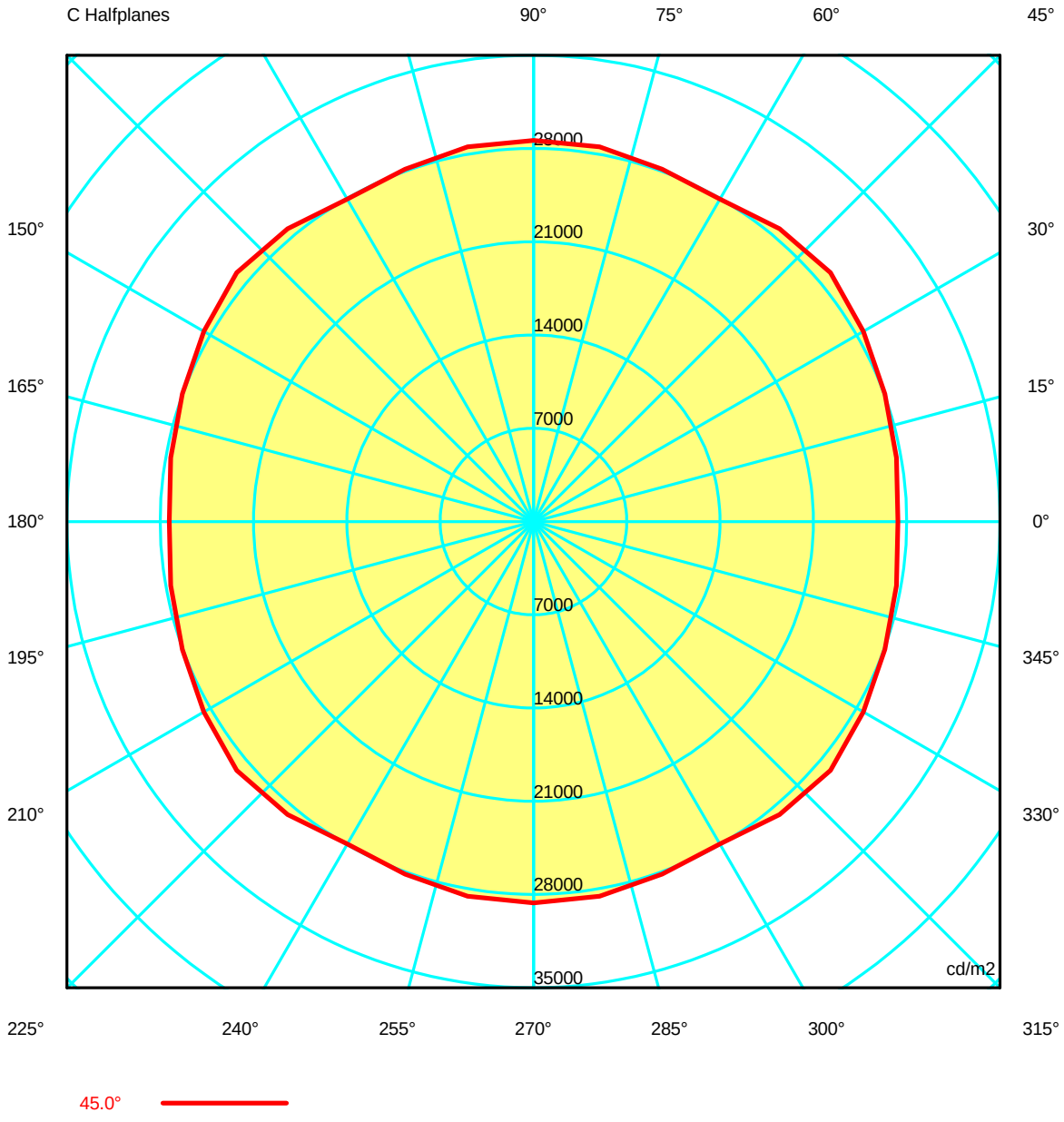
180.0 0.0
270.0 90.0



Luminaire
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Lamps Flux	897.12 lm	Maximum value	3224.66 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

Luminance



Luminaire
Code DE-0195-CRO
Name Aplique FORLIGHT led 10W 3000K
Measurem.
Code DE-0194-CRO
Name Aplique FORLIGHT led 5W 3000K

Luminaire Flux	897.12 lm	Luminaire Power	6.00 W	Efficacy	149.52 lm/W	Efficiency	100.00%
Lamps Flux	897.12 lm	Maximum value	3224.66 cd/klm	Position	C=0.00 G=0.00	CG	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	1473719.45	1473719.45	1473719.45	1473719.45	1473719.45	1473719.45	1473719.45	1473719.45	1473719.45	1473719.45	1473719.45	1473719.45	1473719.45
G 5.0	1361396.41	1360631.15	1358703.86	1357329.05	1359026.75	1358443.64	1354725.68	1352876.86	1355230.01	1360924.66	1355230.01	1352876.86	1354725.68
G 10.0	1043573.79	1040477.71	1039687.97	1041657.71	1044614.85	1045408.78	1044890.08	1046425.51	1046328.19	1043294.40	1046328.19	1046425.51	1044890.08
G 15.0	675234.01	674753.65	671949.68	670858.13	677440.61	680783.83	678994.26	680856.26	684733.67	688483.97	684733.67	680856.26	678994.26
G 20.0	383780.23	381355.83	378066.64	377006.61	381766.07	382860.87	381207.89	386214.14	386931.20	379348.24	386931.20	386214.14	381207.89
G 25.0	195130.65	194372.11	192647.04	192215.92	195915.73	196558.63	194352.99	196488.94	197976.49	198071.85	197976.49	196488.94	194352.99
G 30.0	117059.02	117876.02	117748.15	116958.24	116578.17	116029.07	115454.27	115608.94	115165.65	113698.23	115165.65	115608.94	115454.27
G 35.0	80777.40	80949.60	80688.52	80271.97	80241.13	79473.58	78618.94	79505.28	79989.90	79145.35	79989.90	79505.28	78618.94
G 40.0	51656.65	51755.89	52095.30	52465.55	52269.41	51190.50	50223.41	50813.28	51335.21	51003.91	51335.21	50813.28	50223.41
G 45.0	27328.48	27643.79	28041.43	28570.21	29065.14	28702.78	27947.41	28165.71	28562.48	28624.61	28562.48	28165.71	27947.41
G 50.0	13615.36	13717.73	14166.46	15000.95	15074.35	14815.22	14634.64	14560.60	14634.50	14823.68	14634.50	14560.60	14634.64
G 55.0	3433.27	3763.49	3856.88	3920.90	4314.19	4291.56	3950.46	4148.41	4317.16	4151.78	4317.16	4148.41	3950.46
G 60.0	382.78	377.03	375.06	377.86	385.69	406.02	431.44	443.44	445.31	445.32	445.31	443.44	431.44
G 65.0	502.63	492.90	491.72	496.75	497.48	498.72	500.47	506.39	512.65	517.77	512.65	506.39	500.47
G 70.0	827.32	809.67	808.32	817.69	819.08	827.14	844.09	855.81	866.58	879.76	866.58	855.81	844.09
G 75.0	1495.55	1468.70	1459.40	1469.00	1485.43	1507.05	1537.99	1580.63	1619.30	1648.50	1619.30	1580.63	1537.99
G 80.0	2854.21	2798.01	2790.05	2822.10	2849.48	2903.19	2992.77	3088.91	3171.48	3239.17	3171.48	3088.91	2992.77
G 85.0	6931.54	6843.06	6815.55	6865.10	6968.33	7121.87	7336.71	7606.91	7827.73	7972.09	7827.73	7606.91	7336.71
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
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Measurem.
Code DE-0194-CRO
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Lamps Flux	897.12 lm	Maximum value	3224.66 cd/klm	Position	C=0.00 G=0.00	CG	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	1473719.45	1473719.45	1473719.45	1473719.45	1473719.45	1473719.45	1473719.45	1473719.45	1473719.45	1473719.45	1473719.45	1473719.45	1473719.45
G 5.0	1358443.64	1359026.75	1357329.05	1358703.86	1360631.15	1361396.41	1360631.15	1358703.86	1357329.05	1359026.75	1358443.64	1354725.68	1352876.86
G 10.0	1045408.78	1044614.85	1041657.71	1039687.97	1040477.71	1043573.79	1040477.71	1039687.97	1041657.71	1044614.85	1045408.78	1044890.08	1046425.51
G 15.0	680783.83	677440.61	670858.13	671949.68	674753.65	675234.01	674753.65	671949.68	670858.13	677440.61	680783.83	678994.26	680856.26
G 20.0	382860.87	381766.07	377006.61	378066.64	381355.83	383780.23	381355.83	378066.64	377006.61	381766.07	382860.87	381207.89	386214.14
G 25.0	196558.63	195915.73	192215.92	192647.04	194372.11	195130.65	194372.11	192647.04	192215.92	195915.73	196558.63	194352.99	196488.94
G 30.0	116029.07	116578.17	116958.24	117748.15	117876.02	117059.02	117876.02	117748.15	116958.24	116578.17	116029.07	115454.27	115608.94
G 35.0	79473.58	80241.13	80271.97	80688.52	80949.60	80777.40	80949.60	80688.52	80271.97	80241.13	79473.58	78618.94	79505.28
G 40.0	51190.50	52269.41	52465.55	52095.30	51755.89	51656.65	51755.89	52095.30	52465.55	52269.41	51190.50	50223.41	50813.28
G 45.0	28702.78	29065.14	28570.21	28041.43	27643.79	27328.48	27643.79	28041.43	28570.21	29065.14	28702.78	27947.41	28165.71
G 50.0	14815.22	15074.35	15000.95	14166.46	13717.73	13615.36	13717.73	14166.46	15000.95	15074.35	14815.22	14634.64	14560.60
G 55.0	4291.56	4314.19	3920.90	3856.88	3763.49	3433.27	3763.49	3856.88	3920.90	4314.19	4291.56	3950.46	4148.41
G 60.0	406.02	385.69	377.86	375.06	377.03	382.78	377.03	375.06	377.86	385.69	406.02	431.44	443.44
G 65.0	498.72	497.48	496.75	491.72	492.90	502.63	492.90	491.72	496.75	497.48	498.72	500.47	506.39
G 70.0	827.14	819.08	817.69	808.32	809.67	827.32	809.67	808.32	817.69	819.08	827.14	844.09	855.81
G 75.0	1507.05	1485.43	1469.00	1459.40	1468.70	1495.55	1468.70	1459.40	1469.00	1485.43	1507.05	1537.99	1580.63
G 80.0	2903.19	2849.48	2822.10	2790.05	2798.01	2854.21	2798.01	2790.05	2822.10	2849.48	2903.19	2992.77	3088.91
G 85.0	7121.87	6968.33	6865.10	6815.55	6843.06	6931.54	6843.06	6815.55	6865.10	6968.33	7121.87	7336.71	7606.91
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
Code DE-0195-CRO
Name Aplique FORLIGHT led 10W 3000K
Measurem.
Code DE-0194-CRO
Name Aplique FORLIGHT led 5W 3000K

Luminaire Flux	897.12 lm	Luminaire Power	6.00 W	Efficacy	149.52 lm/W	Efficiency	100.00%
Lamps Flux	897.12 lm	Maximum value	3224.66 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

Luminance cd/m2 **Table 3/3**

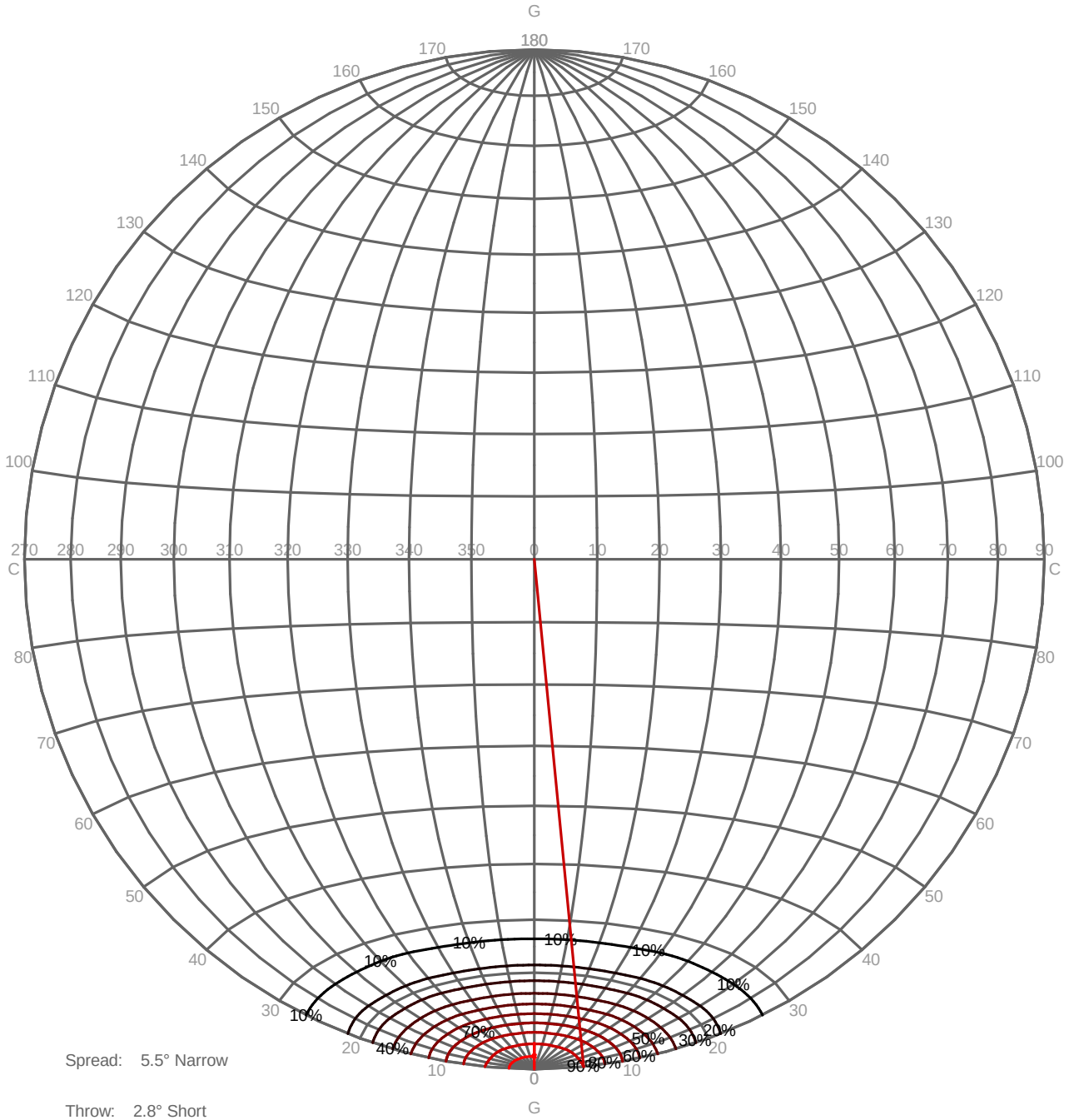
	C 260.00	C 270.00	C 280.00	C 290.00	C 300.00	C 310.00	C 320.00	C 330.00	C 340.00	C 350.00
G 0.0	1473719.45	1473719.45	1473719.45	1473719.45	1473719.45	1473719.45	1473719.45	1473719.45	1473719.45	1473719.45
G 5.0	1355230.01	1360924.66	1355230.01	1352876.86	1354725.68	1358443.64	1359026.75	1357329.05	1358703.86	1360631.15
G 10.0	1046328.19	1043294.40	1046328.19	1046425.51	1044890.08	1045408.78	1044614.85	1041657.71	1039687.97	1040477.71
G 15.0	684733.67	688483.97	684733.67	680856.26	678994.26	680783.83	677440.61	670858.13	671949.68	674753.65
G 20.0	386931.20	379348.24	386931.20	386214.14	381207.89	382860.87	381766.07	377006.61	378066.64	381355.83
G 25.0	197976.49	198071.85	197976.49	196488.94	194352.99	196558.63	195915.73	192215.92	192647.04	194372.11
G 30.0	115165.65	113698.23	115165.65	115608.94	115454.27	116029.07	116578.17	116958.24	117748.15	117876.02
G 35.0	79989.90	79145.35	79989.90	79505.28	78618.94	79473.58	80241.13	80271.97	80688.52	80949.60
G 40.0	51335.21	51003.91	51335.21	50813.28	50223.41	51190.50	52269.41	52465.55	52095.30	51755.89
G 45.0	28562.48	28624.61	28562.48	28165.71	27947.41	28702.78	29065.14	28570.21	28041.43	27643.79
G 50.0	14634.50	14823.68	14634.50	14560.60	14634.64	14815.22	15074.35	15000.95	14166.46	13717.73
G 55.0	4317.16	4151.78	4317.16	4148.41	3950.46	4291.56	4314.19	3920.90	3856.88	3763.49
G 60.0	445.31	445.32	445.31	443.44	431.44	406.02	385.69	377.86	375.06	377.03
G 65.0	512.65	517.77	512.65	506.39	500.47	498.72	497.48	496.75	491.72	492.90
G 70.0	866.58	879.76	866.58	855.81	844.09	827.14	819.08	817.69	808.32	809.67
G 75.0	1619.30	1648.50	1619.30	1580.63	1537.99	1507.05	1485.43	1469.00	1459.40	1468.70
G 80.0	3171.48	3239.17	3171.48	3088.91	2992.77	2903.19	2849.48	2822.10	2790.05	2798.01
G 85.0	7827.73	7972.09	7827.73	7606.91	7336.71	7121.87	6968.33	6865.10	6815.55	6843.06
G 90.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

Luminaire
Code DE-0195-CRO
Name Aplique FORLIGHT led 10W 3000K
Measurem.
Code DE-0194-CRO
Name Aplique FORLIGHT led 5W 3000K

Luminaire Flux	897.12 lm	Luminaire Power	6.00 W	Efficacy	149.52 lm/W	Efficiency	100.00%
Lamps Flux	897.12 lm	Maximum value	3224.66 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

PERCENTAGE ISOCANDLES

Projection: Equal Area Tilting Angle:0°



Spread: 5.5° Narrow

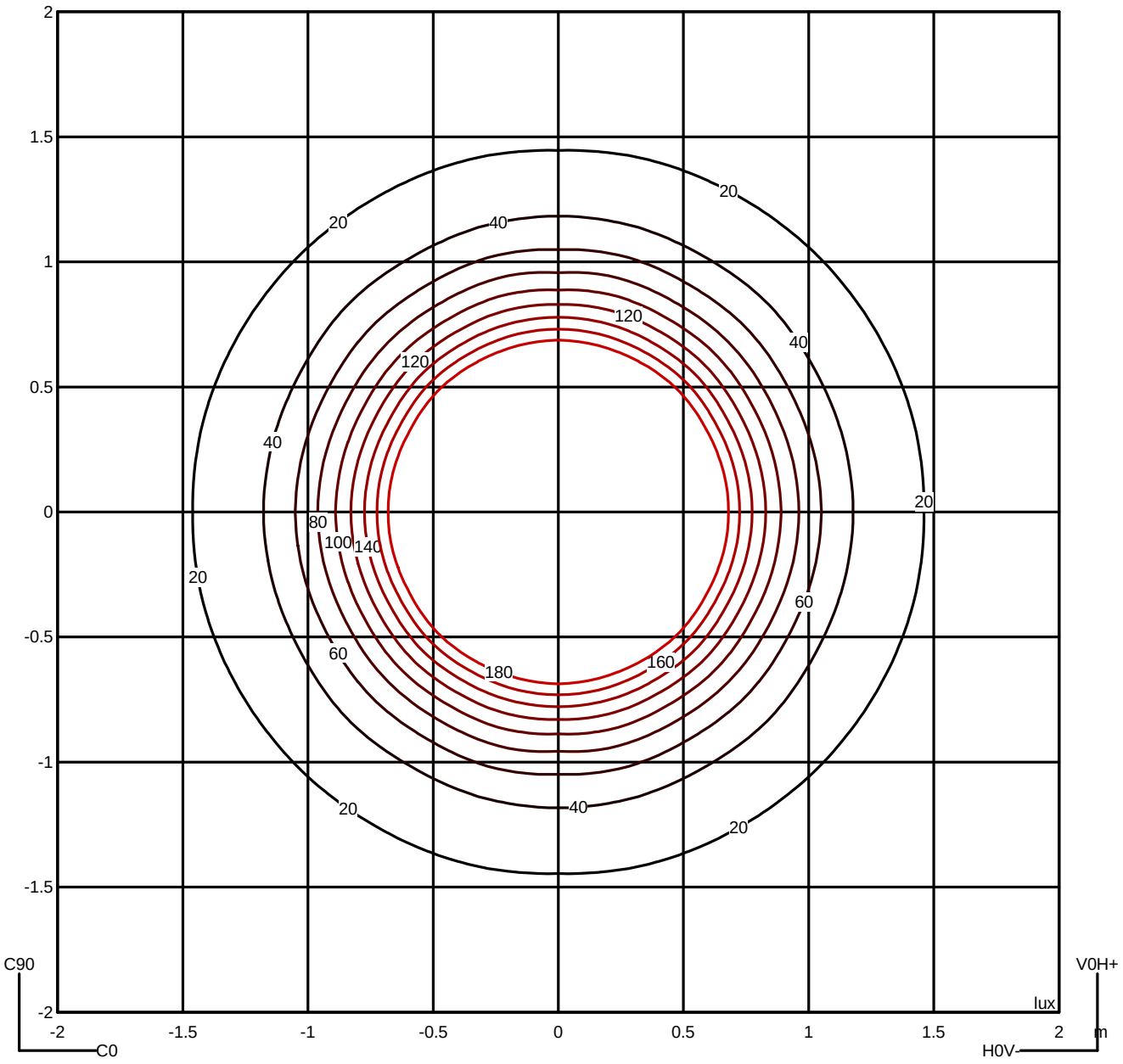
Throw: 2.8° Short

Luminaire
Code DE-0195-CRO
Name Aplique FORLIGHT led 10W 3000K
Measurem.
Code DE-0194-CRO
Name Aplique FORLIGHT led 5W 3000K

Luminaire Flux	897.12 lm	Luminaire Power	6.00 W	Efficacy	149.52 lm/W	Efficiency	100.00%
Lamps Flux	897.12 lm	Maximum value	3224.66 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

Isolux (Floor)

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



Luminaire
Code DE-0195-CRO
Name Aplique FORLIGHT led 10W 3000K
Measurem.
Code DE-0194-CRO
Name Aplique FORLIGHT led 5W 3000K

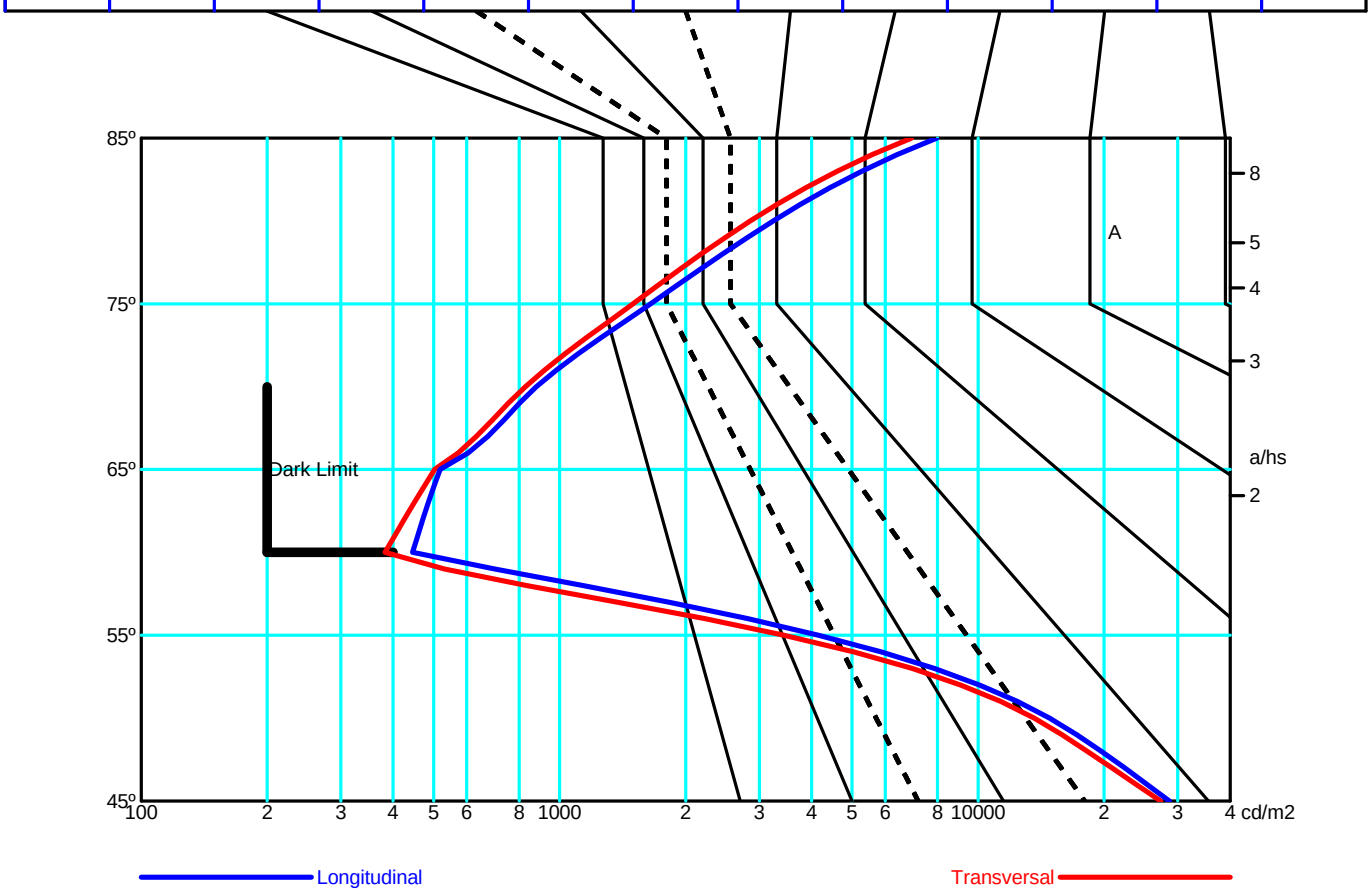
Luminaire Flux	897.12 lm	Luminaire Power	6.00 W	Efficacy	149.52 lm/W	Efficiency	100.00%
Lamps Flux	897.12 lm	Maximum value	3224.66 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

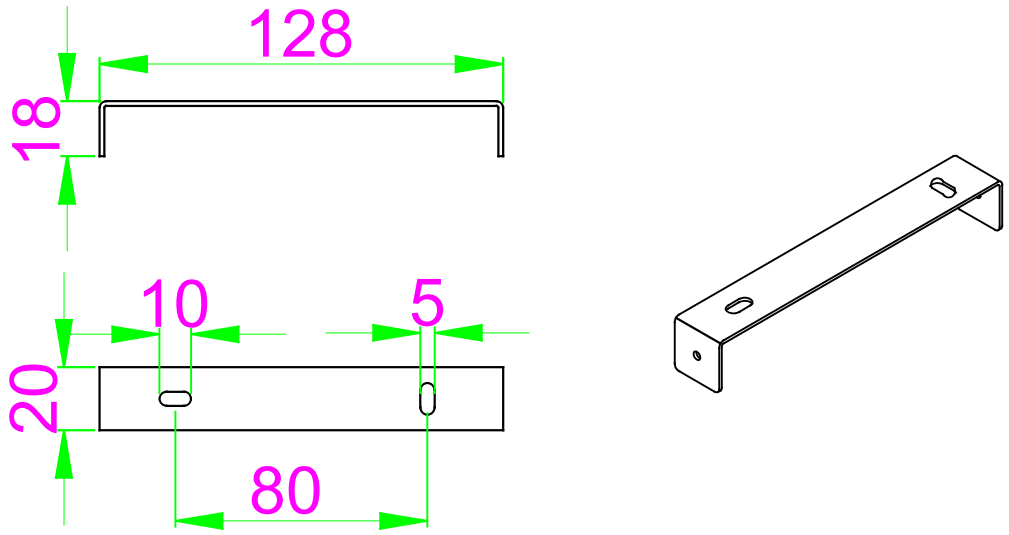
Average Luminance [cd/m²]

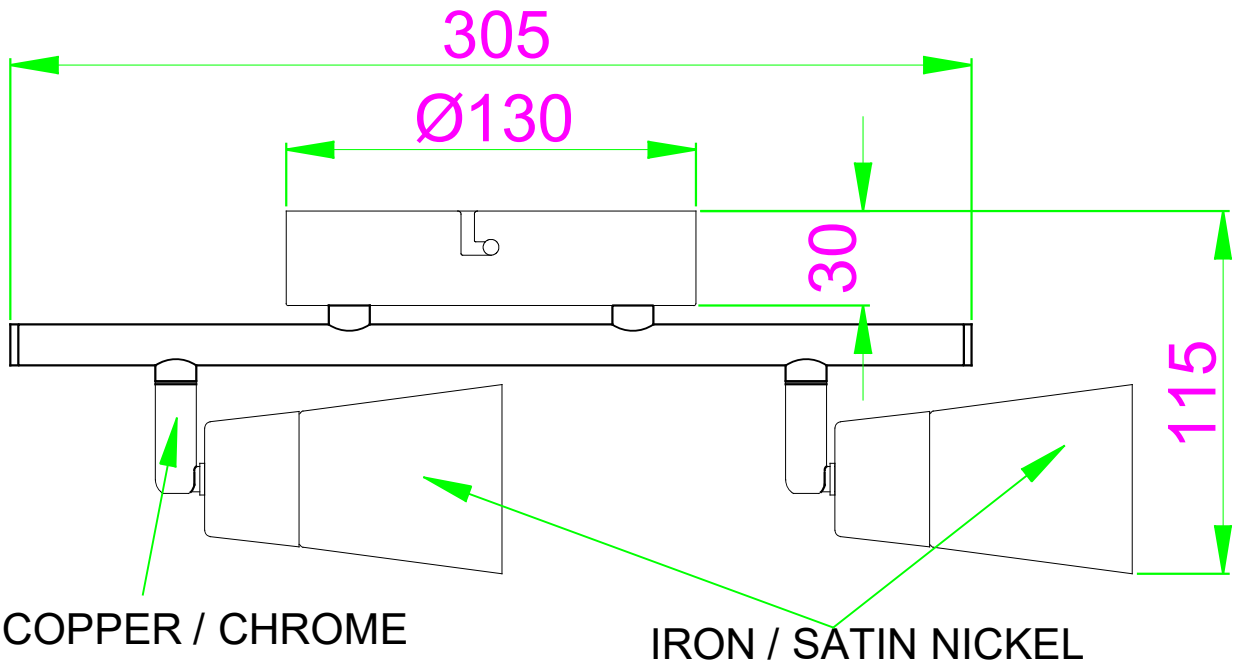
	45°	50°	55°	60°	65°	70°	75°	80°	85°	
0.0°	27328	13615	3433	383	503	827	1496	2854	6932	---
90.0°	28625	14824	4152	445	518	880	1649	3239	7972	---

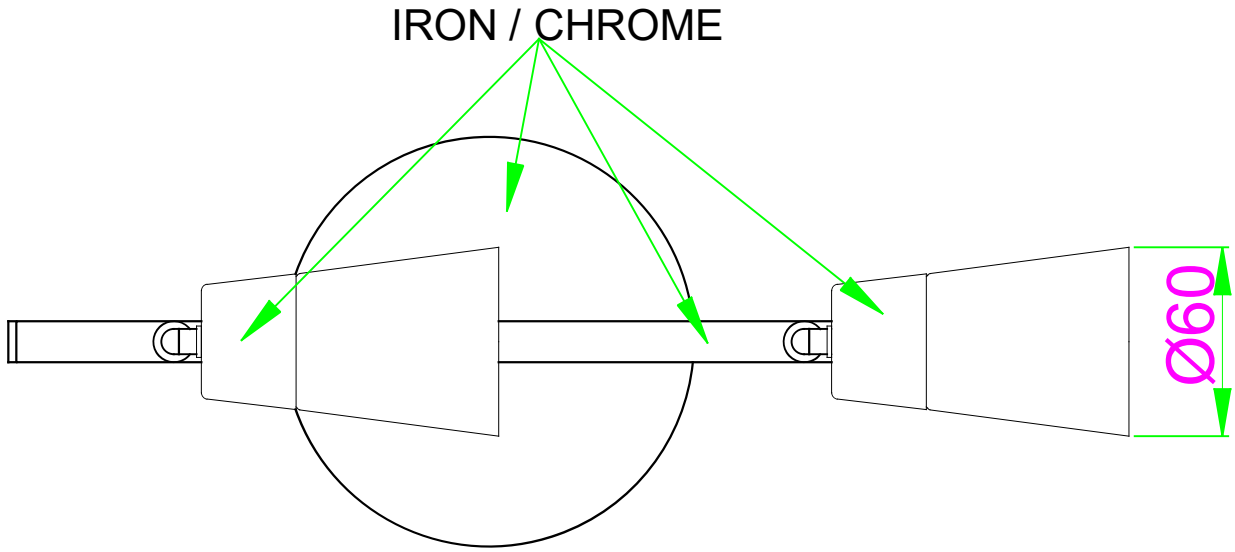
Flush mounted or longitudinal view

		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



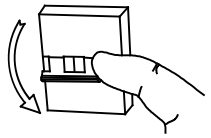

128
18
10
5
20
80


305
Ø130
30
115
COPPER / CHROME
IRON / SATIN NICKEL

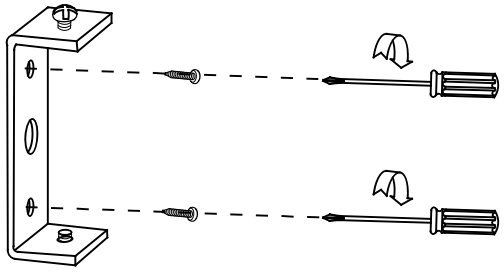

IRON / CHROME
Ø60

DE-0195

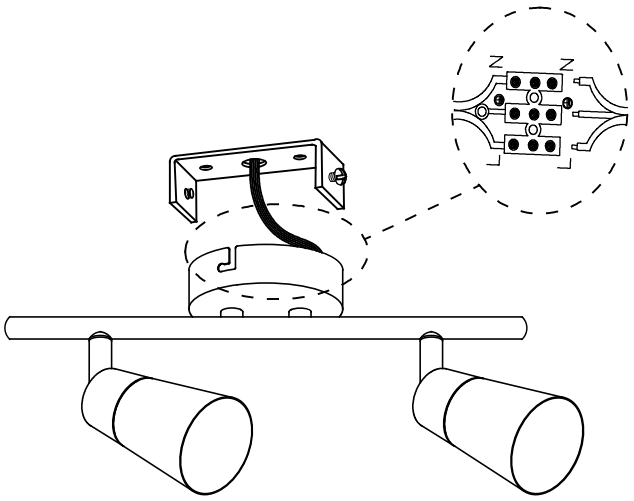
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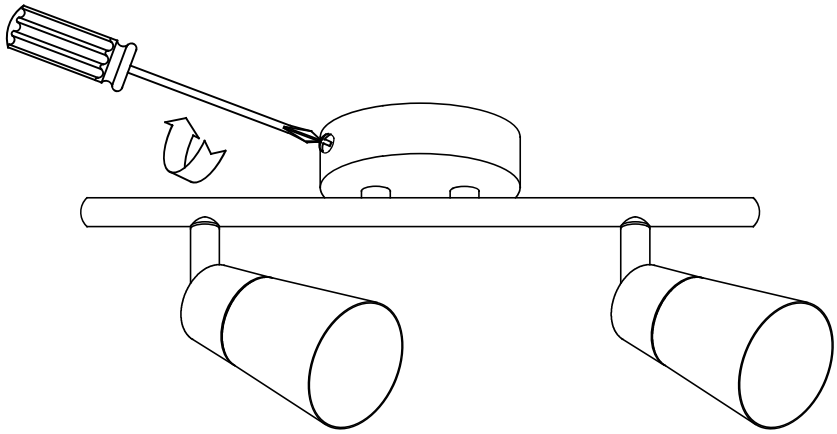
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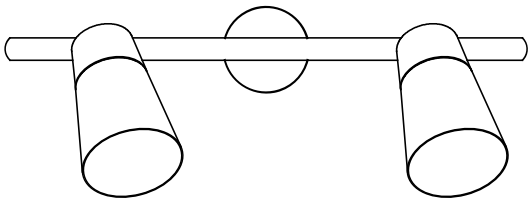
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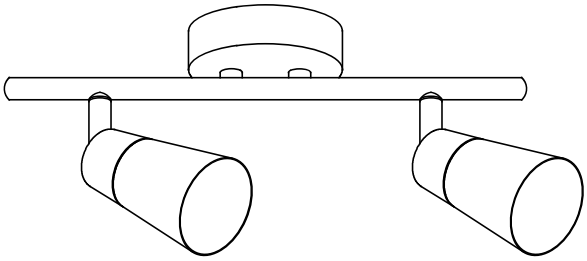


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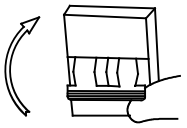


4





ON



19–03–16