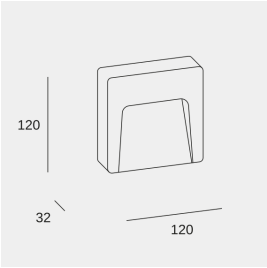
Grove Opaque Square PX-0439-NEG

Surface-mounted wall light IP65 Grove Opaque Square LED 3.1W 4000K ON-OFF Black 300.00





TECHNICAL FEATURES

IP65 IK10

Luminaire total power : 3.1W

Real lumens : 89

Nominal lumens : 300

Real lm/W : 29

Structure material : ABS

Structure finish : Black

Diffuser material : Polycarbonate

Diffuser finish : Transparent

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

Dimming protocol : ON-OFF

Useful life : 36.000h L70B30

Warranty : 5 Years

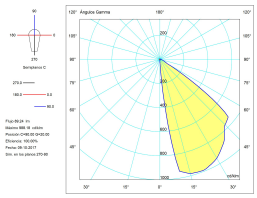
LUMINOTECHNIC FEATURES

CRI: 80

MacAdam steps: 3

Photobiological risk: RG0

Lampholder	Quantity	Light source power (W)	Correlated Colour Temperature (CCT)
LED	1	2.6W	4000K



LOGISTICS

Net weight (kg): 0.3

Packaged weight (kg): 0.39

Packaging: 130mm x 100mm x 130mm

20 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 PX-0439-NEG
Name APLIQUE FORLIGHT LEDS
Measurem.
Code CL116A17F332G
Name APLIQUE FORLIGHT LEDS

Luminaire Flux	89.24 lm	Luminaire Power	2.77 W	Efficacy	32.22 lm/W	Efficiency	100.00%
Lamps Flux	89.24 lm	Maximum value	988.18 cd/klm	Position	C=90.00 G=20.00	CG	Sym. on planes 270-90

Rectangular Luminaire	Length	31 mm	Width	120 mm	Height	120 mm
Rectangular Luminous Area	Length	10 mm	Width	75 mm	Height	0 mm

Horizontal Luminous Area	0.000750 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°	0.000181 m2

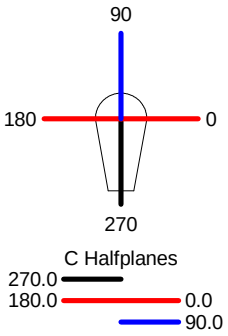
Coordinate system	CG Roads	Symmetry Type	Sym. on planes 270-90
Date	09-10-2017	Maximum Gamma Angle	180
Measurement Distance	0.00	Measurement Flux	89.24 lm

Operator	Asselum T2	Source Voltage [V]	
Temperature	25.00 °C	Source current [A]	
Humidity	60.00 %	Photocell	
Notes			

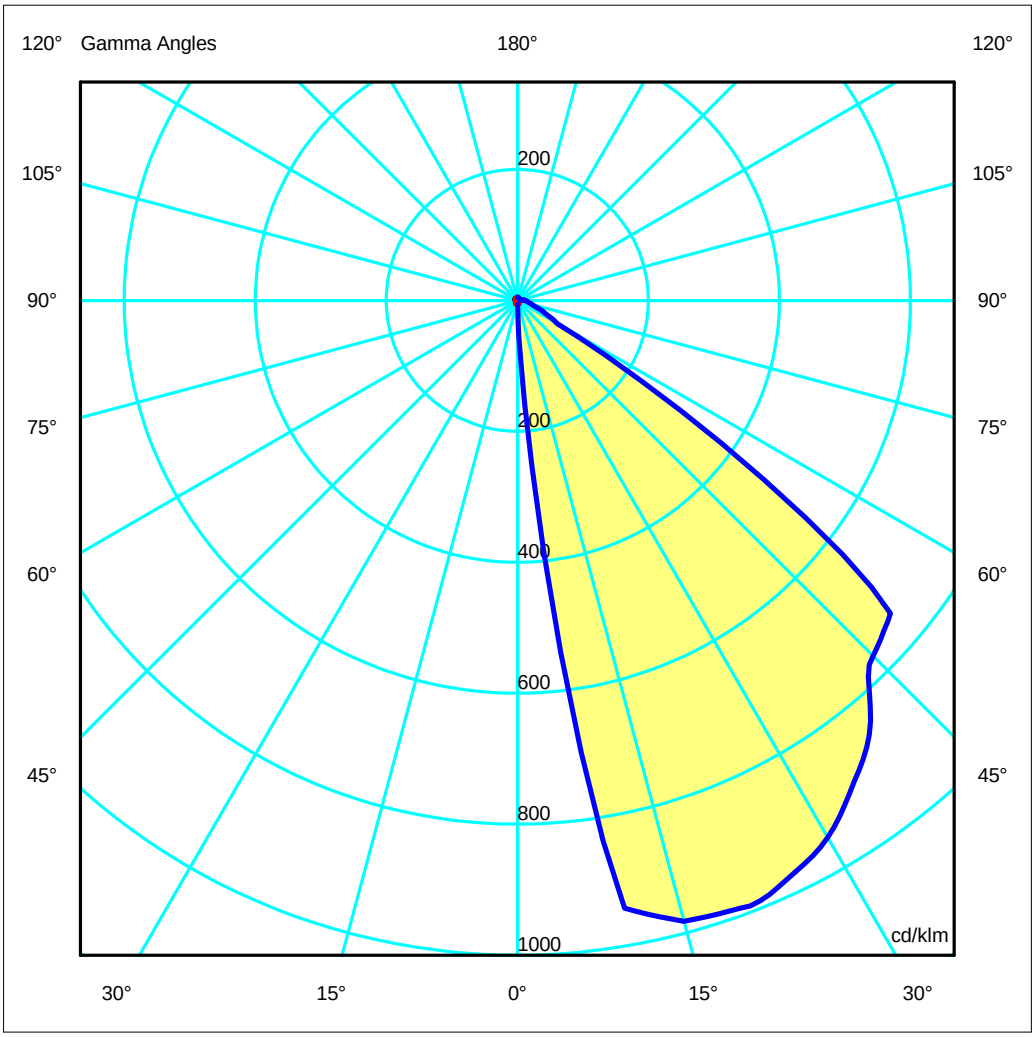
Luminaire Lamps

Line	Code	Name	Flux [lm]	Pow. [W]	Q.ty
	PX-0439-NEG	PX-0439-NEG	89.24	2.77	1

C.I.E. 55 91 99 97 100		D DIN 5040	A41



ULOR 2.55 %
DLOR 97.45 %
RN 2.55 %



Luminaire
Code PX-0439-NEG
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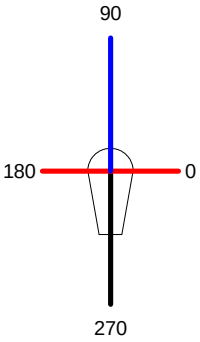
Luminaire Flux	89.24 lm	Luminaire Power	2.77 W	Efficacy	32.22 lm/W	Efficiency	100.00%
Lamps Flux	89.24 lm	Maximum value	988.18 cd/klm	Position	C=90.00 G=20.00	CG	Sym. on planes 270-90

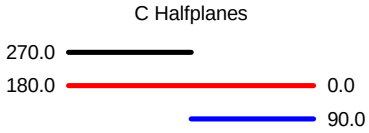
Luminous Intensity Table cd/klm **Table 1/1**

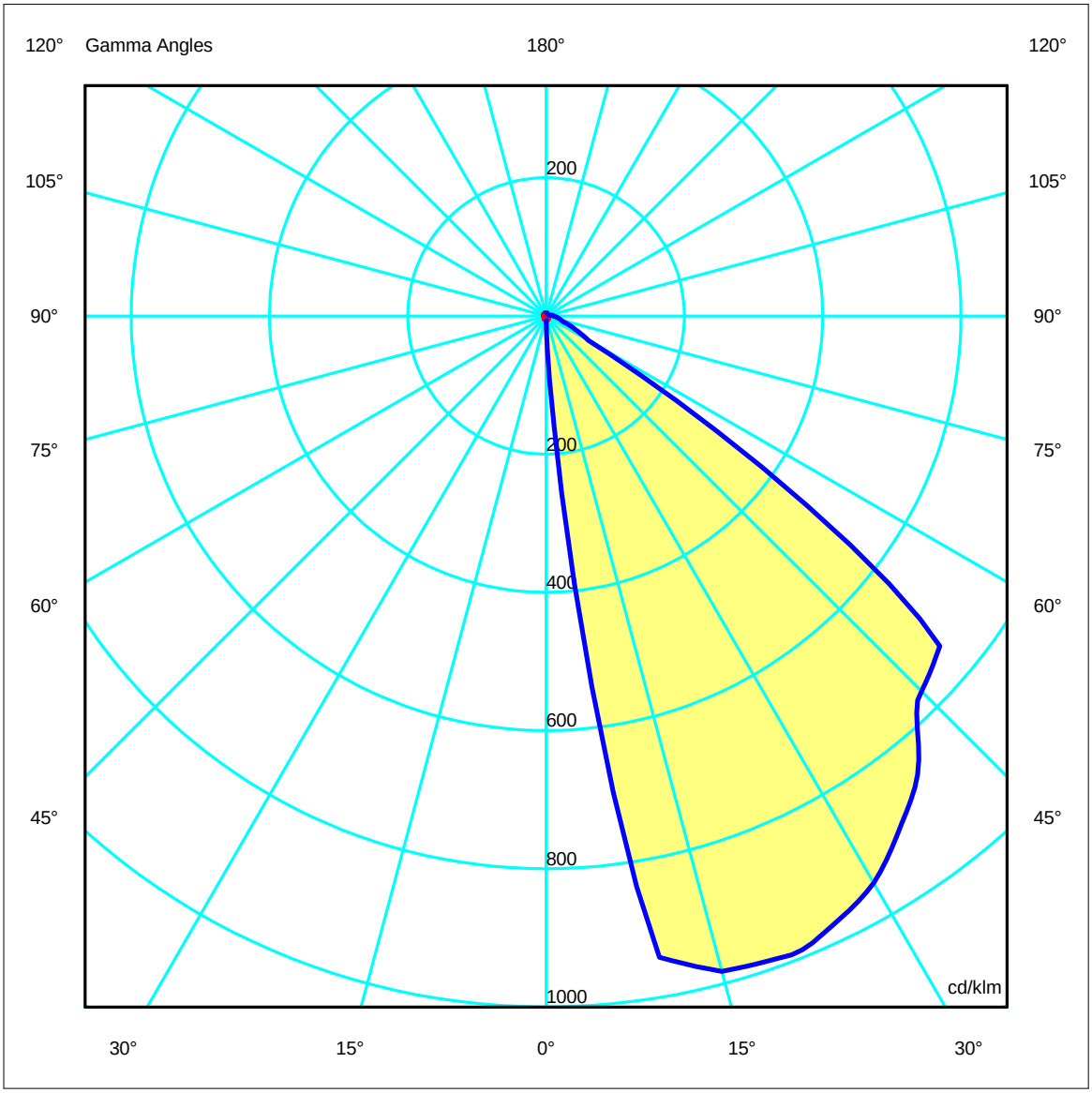
	C 270.00	C 285.00	C 300.00	C 315.00	C 330.00	C 345.00	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	5.90	5.90	5.90	5.90	5.90	5.90	5.90	5.90	5.90	5.90	5.90	5.90	5.90
G 5.0	3.45	3.69	3.45	4.26	3.69	4.43	5.70	13.77	17.66	94.60	37.23	677.36	255.65
G 10.0	3.45	3.45	3.45	3.72	3.45	3.94	5.42	23.01	394.26	905.45	920.82	953.21	942.42
G 15.0	3.45	3.45	3.45	3.73	3.30	3.62	5.67	182.95	829.03	912.50	953.92	977.91	981.62
G 20.0	3.45	3.45	3.45	3.45	3.13	3.45	5.67	571.99	791.68	875.72	959.13	978.67	988.18
G 25.0	3.45	3.45	3.45	3.45	3.21	3.45	5.67	553.09	750.22	860.22	947.15	960.96	974.88
G 30.0	3.45	3.45	3.45	3.69	3.20	3.20	5.67	509.87	722.62	832.47	911.87	925.94	947.08
G 35.0	3.45	3.45	3.45	3.69	3.20	3.20	5.42	434.21	667.96	780.82	862.56	874.79	896.50
G 40.0	3.45	3.45	3.45	3.69	3.20	3.20	4.93	376.97	608.01	719.22	795.32	808.28	838.47
G 45.0	3.45	3.45	3.45	3.69	3.20	3.20	4.68	315.49	551.48	653.44	725.12	733.15	767.89
G 50.0	3.45	3.45	3.45	3.69	3.20	3.20	4.39	263.94	489.71	569.09	647.99	702.46	743.20
G 55.0	3.45	3.45	3.45	3.58	3.45	3.20	4.03	212.90	422.30	480.87	588.52	323.07	379.94
G 60.0	3.45	3.20	3.20	3.45	3.38	3.20	3.69	167.86	346.32	405.73	235.82	63.53	70.45
G 65.0	3.45	3.20	3.20	3.45	3.20	3.20	3.45	124.35	257.38	122.42	50.71	43.14	46.80
G 70.0	3.45	3.25	3.20	3.45	3.25	3.20	3.16	78.40	174.81	30.80	32.64	28.70	32.02
G 75.0	3.45	3.45	3.13	3.45	3.20	3.20	3.20	38.86	31.82	19.27	21.13	20.21	22.56
G 80.0	3.45	3.45	3.45	3.45	3.45	3.20	2.96	12.76	11.40	12.92	15.35	16.01	17.69
G 85.0	3.45	3.45	3.45	3.45	3.45	3.20	2.96	5.69	7.89	9.71	11.82	12.88	14.63
G 90.0	3.45	3.45	3.45	3.45	3.32	3.20	2.96	4.68	6.16	7.50	9.29	10.34	11.48
G 95.0	3.45	3.45	3.45	3.45	3.45	3.20	2.96	3.94	4.85	5.74	7.10	7.83	9.06
G100.0	3.45	3.45	3.66	3.45	3.45	3.20	2.96	3.45	4.19	4.85	5.59	6.40	7.39
G105.0	3.94	3.52	3.69	3.45	3.45	3.24	2.96	3.45	3.94	4.43	4.93	5.34	4.93
G110.0	3.94	3.69	3.69	3.56	3.45	3.20	3.36	3.45	3.56	3.94	4.43	4.43	4.43
G115.0	3.94	3.94	3.94	3.94	3.45	3.40	3.31	3.28	3.45	3.94	4.43	4.19	3.94
G120.0	3.94	3.94	3.97	3.94	3.46	3.45	3.45	3.45	3.45	3.94	3.94	3.94	3.94
G125.0	4.43	3.94	4.02	3.94	3.94	3.45	3.45	3.45	3.45	3.69	3.94	3.94	3.86
G130.0	4.43	4.10	4.43	3.94	3.94	3.54	3.45	3.45	3.45	3.69	3.94	3.69	3.88
G135.0	4.43	4.43	4.43	4.36	3.94	3.69	3.45	3.45	3.45	3.69	3.69	3.69	3.45
G140.0	4.43	3.94	4.43	4.43	3.94	3.92	3.45	3.45	3.45	3.69	3.69	3.45	3.45
G145.0	4.43	4.28	4.43	4.43	3.94	3.69	3.45	3.45	3.69	3.69	3.69	3.69	3.70
G150.0	4.43	4.43	4.43	4.43	3.94	3.69	3.45	3.69	3.69	3.94	3.94	3.94	3.94
G155.0	4.43	4.19	4.43	4.43	3.98	3.94	3.94	3.94	3.94	3.94	3.94	3.94	3.94
G160.0	4.93	4.43	4.68	4.43	4.43	3.94	3.94	4.19	4.19	4.25	3.94	4.08	4.28
G165.0	4.93	4.93	4.93	4.76	4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.43	4.43
G170.0	4.93	4.93	4.93	4.93	4.52	4.43	4.43	4.43	4.43	4.68	4.60	4.76	4.87
G175.0	4.93	4.93	4.93	4.93	4.68	4.43	4.47	4.52	4.68	4.90	4.90	4.93	4.93
G180.0	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83	4.83

Luminaire
Code PX-0439-NEG
Name APLIQUE FORLIGHT LEDS
Measurem.
Code CL116A17F332G
Name APLIQUE FORLIGHT LEDS

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Lamps Flux	89.24 lm	Maximum value	988.18 cd/klm	Position	C=90.00 G=20.00	CG	Sym. on planes 270-90







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Right beam angle not found, gamma = 0

Right beam angle not found, gamma = 0

Right beam angle not found, gamma = 0

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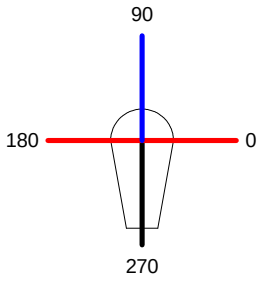
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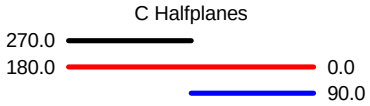
UGR
S = 0.250

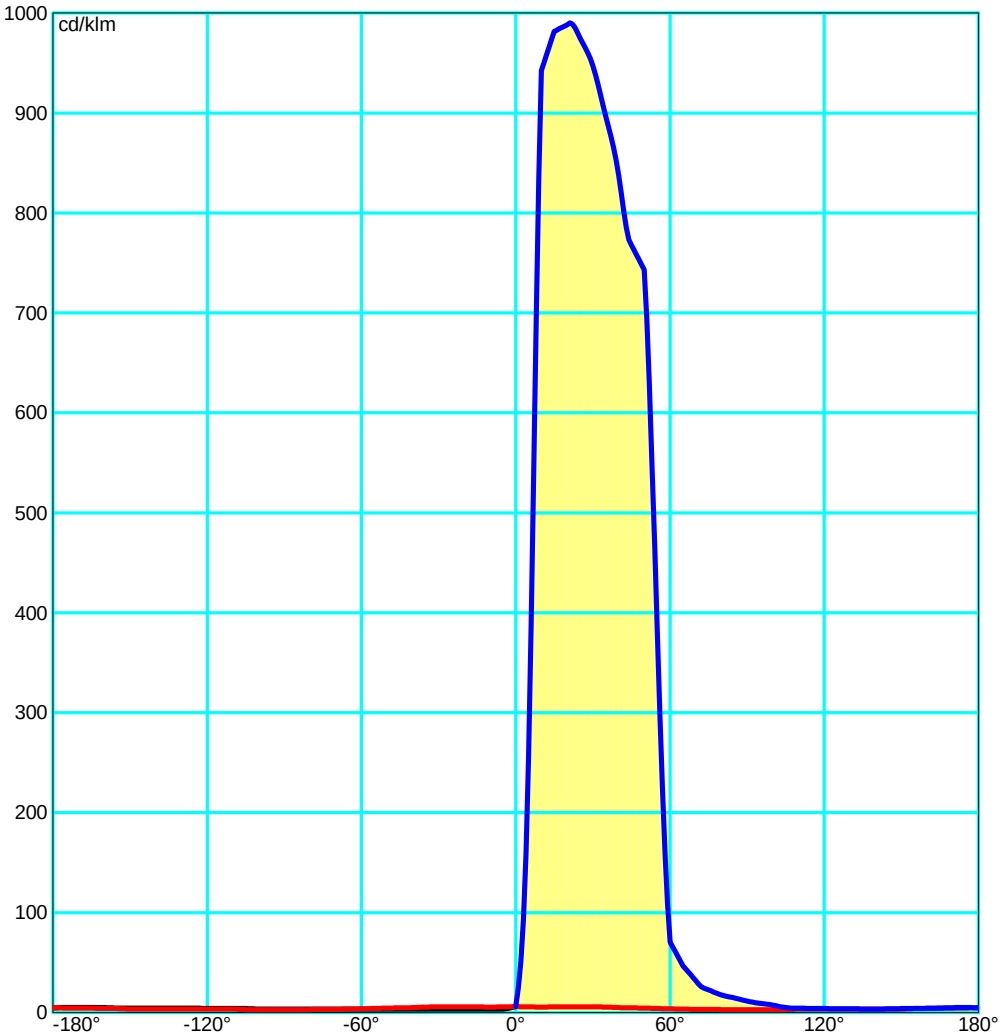
Reflectancies										
Ceiling/Cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
WorkingPlane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
RoomDimensions	ViewedCrosswise					ViewedEndwise				
x=2H y=2H	26.0	27.1	26.3	27.4	27.7	< 0	< 0	< 0	< 0	< 0
x=2H y=3H	26.3	27.4	26.7	27.7	28.0	1.1	2.2	1.5	2.5	2.8
x=2H y=4H	26.3	27.3	26.7	27.6	28.0	3.2	4.2	3.6	4.5	4.8
x=2H y=6H	26.3	27.2	26.7	27.5	27.9	5.4	6.3	5.8	6.7	7.0
x=2H y=8H	26.2	27.1	26.6	27.5	27.8	6.7	7.5	7.1	7.9	8.3
x=2H y=12H	26.2	27.0	26.6	27.4	27.8	8.1	8.9	8.5	9.3	9.7
x=4H y=2H	27.1	28.0	27.4	28.3	28.7	< 0	0.1	< 0	0.4	0.7
x=4H y=3H	27.8	28.7	28.3	29.0	29.4	2.6	3.4	3.0	3.7	4.1
x=4H y=4H	27.9	28.6	28.3	29.0	29.4	4.7	5.4	5.1	5.8	6.2
x=4H y=6H	27.8	28.5	28.3	28.9	29.3	7.1	7.8	7.6	8.2	8.6
x=4H y=8H	27.8	28.4	28.3	28.8	29.3	8.5	9.1	9.0	9.5	10.0
x=4H y=12H	27.8	28.3	28.3	28.8	29.2	10.0	10.5	10.5	11.0	11.5
x=8H y=4H	27.8	28.4	28.3	28.8	29.3	5.7	6.2	6.2	6.7	7.2
x=8H y=6H	27.8	28.2	28.3	28.7	29.2	8.3	8.8	8.8	9.3	9.8
x=8H y=8H	27.8	28.2	28.3	28.7	29.2	9.9	10.3	10.4	10.8	11.3
x=8H y=12H	27.7	28.1	28.3	28.6	29.2	11.6	11.9	12.1	12.4	13.0
x=12H y=4H	27.8	28.3	28.3	28.7	29.2	6.0	6.5	6.5	6.9	7.4
x=12H y=6H	27.8	28.2	28.3	28.6	29.2	8.8	9.2	9.3	9.6	10.2
x=12H y=8H	27.7	28.1	28.3	28.6	29.2	10.4	10.7	10.9	11.2	11.8

Luminaire
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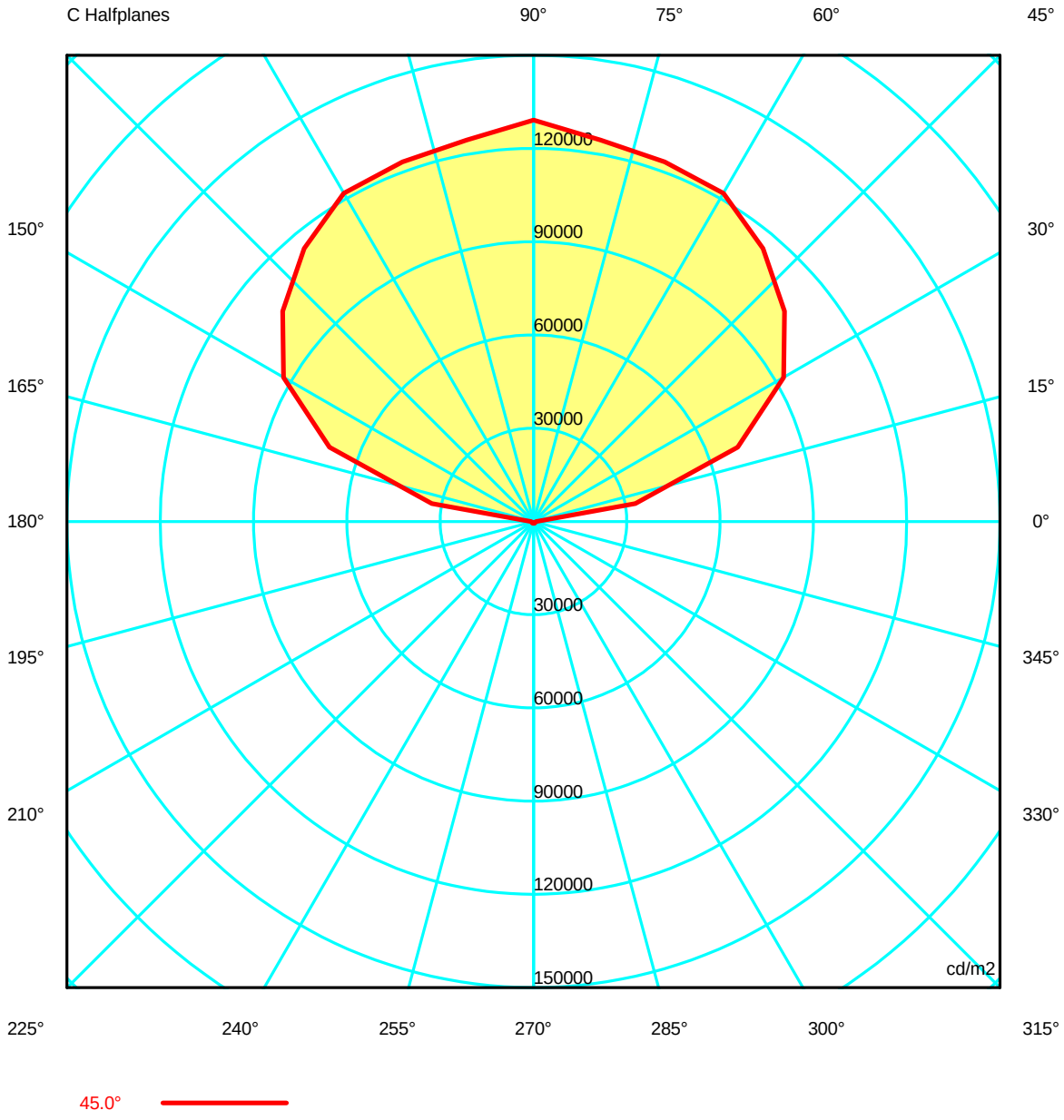




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Lamps Flux	89.24 lm	Maximum value	988.18 cd/klm	Position	C=90.00 G=20.00	CG	Sym. on planes 270-90

Luminance



Luminaire
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Lamps Flux	89.24 lm	Maximum value	988.18 cd/klm	Position	C=90.00 G=20.00	CG	Sym. on planes 270-90

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	701.54	701.54	701.54	701.54	701.54	701.54	701.54	701.54	701.54	701.54	701.54	701.54	701.54
G 5.0	680.78	1323.06	1799.16	2109.07	11650.79	9015.03	4446.94	60144.34	79047.61	30534.93	79047.61	60144.34	4446.94
G 10.0	654.70	2071.69	12297.54	47634.84	93597.69	110017.50	111255.24	113187.93	115744.20	113865.78	115744.20	113187.93	111255.24
G 15.0	697.84	7650.01	48569.12	102123.51	108978.13	114106.40	117508.33	120067.07	120684.06	120919.44	120684.06	120067.07	117508.33
G 20.0	717.32	47751.64	87999.66	100244.39	107188.08	114846.18	121447.41	123669.71	124234.83	125125.75	124234.83	123669.71	121447.41
G 25.0	743.74	48197.78	87357.29	98494.44	107818.91	117674.23	124349.33	126045.00	126546.61	127988.70	126546.61	126045.00	124349.33
G 30.0	778.34	46100.54	85488.02	99283.99	109402.64	118919.97	125284.88	126951.28	127884.14	130122.49	127884.14	126951.28	125284.88
G 35.0	787.10	40784.94	79134.29	97024.74	108414.58	118223.41	125291.97	126911.62	127735.66	130221.38	127735.66	126911.62	125291.97
G 40.0	765.15	37459.46	74666.87	94439.23	106668.51	116510.35	123533.76	125191.77	126606.35	130236.92	126606.35	125191.77	123533.76
G 45.0	787.48	33259.10	69807.01	92799.15	105278.22	114726.37	122018.13	123180.30	124594.03	129215.19	124594.03	123180.30	122018.13
G 50.0	811.85	30034.82	65945.89	90650.54	101617.42	109944.67	119950.58	127225.49	132636.69	137574.42	132636.69	127225.49	119950.58
G 55.0	835.41	26345.14	61924.30	87605.12	94349.12	111033.17	122085.70	84968.51	62132.86	78816.56	62132.86	84968.51	122085.70
G 60.0	879.21	24098.98	55518.56	82414.29	97675.08	87702.49	56119.10	24749.00	11757.82	16764.11	11757.82	24749.00	56119.10
G 65.0	970.85	19667.60	52466.30	72465.48	50230.75	23596.96	14276.83	12142.97	12387.74	13175.80	12387.74	12142.97	14276.83
G 70.0	1099.09	14248.07	43968.25	60816.44	27859.27	10927.48	11354.01	10442.04	9545.50	11139.44	9545.50	10442.04	11354.01
G 75.0	1472.04	13016.13	19056.35	14629.49	9965.76	9142.93	9714.18	9477.01	9427.27	10369.69	9427.27	9477.01	9714.18
G 80.0	2025.27	6795.19	8434.10	7812.27	8166.43	9535.45	10515.72	10825.92	11256.48	12119.63	11256.48	10825.92	10515.72
G 85.0	4035.12	6343.84	8966.87	10765.56	12354.04	14276.58	16140.49	17124.64	18249.01	19967.36	18249.01	17124.64	16140.49
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 CL116A17F332G
Name APLIQUE FORLIGHT LEDS

Luminaire Flux	89.24 lm	Luminaire Power	2.77 W	Efficacy	32.22 lm/W	Efficiency	100.00%
Lamps Flux	89.24 lm	Maximum value	988.18 cd/klm	Position	C=90.00 G=20.00	CG	Sym. on planes 270-90

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	701.54	701.54	701.54	701.54	701.54	701.54	701.54	701.54	701.54	701.54	701.54	701.54	701.54
G 5.0	9015.03	11650.79	2109.07	1799.16	1323.06	680.78	579.95	538.50	441.28	485.27	489.46	411.87	431.48
G 10.0	110017.50	93597.69	47634.84	12297.54	2071.69	654.70	535.66	456.31	416.63	438.60	432.13	416.63	416.63
G 15.0	114106.40	108978.13	102123.51	48569.12	7650.01	697.84	529.67	435.60	406.47	442.85	456.01	424.77	424.77
G 20.0	114846.18	107188.08	100244.39	87999.66	47751.64	717.32	530.19	423.01	395.76	423.01	436.63	436.63	436.63
G 25.0	117674.23	107818.91	98494.44	87357.29	48197.78	743.74	549.72	442.50	422.08	442.50	452.71	452.71	452.71
G 30.0	118919.97	109402.64	99283.99	85488.02	46100.54	778.34	552.73	439.93	439.93	485.05	496.33	473.77	473.77
G 35.0	118223.41	108414.58	97024.74	79134.29	40784.94	787.10	572.44	465.11	465.11	512.81	524.73	500.88	500.88
G 40.0	116510.35	106668.51	94439.23	74666.87	37459.46	765.15	586.62	497.35	497.35	548.36	561.11	535.61	535.61
G 45.0	114726.37	105278.22	92799.15	69807.01	33259.10	787.48	621.70	538.80	538.80	594.07	607.88	580.25	580.25
G 50.0	109944.67	101617.42	90650.54	65945.89	30034.82	811.85	665.76	592.72	592.72	653.51	668.71	638.31	638.31
G 55.0	111033.17	94349.12	87605.12	61924.30	26345.14	835.41	0.00	681.27	715.33	733.80	733.80	715.33	715.33
G 60.0	87702.49	97675.08	82414.29	55518.56	24098.98	879.21	0.00	776.24	804.75	815.32	801.06	761.98	741.95
G 65.0	23596.96	50230.75	72465.48	52466.30	19667.60	970.85	924.62	901.50	901.50	947.73	1001.89	901.50	881.39
G 70.0	10927.48	27859.27	60816.44	43968.25	14248.07	1099.09	131.48	1119.26	1129.90	1176.39	1171.07	1113.95	1108.11
G 75.0	9142.93	9965.76	14629.49	19056.35	13016.13	1472.04	1472.04	1472.04	1472.04	1547.53	1577.59	1441.20	1520.68
G 80.0	9535.45	8166.43	7812.27	8434.10	6795.19	2025.27	1618.51	2250.30	2362.81	2362.81	2362.81	2362.81	2362.81
G 85.0	14276.58	12354.04	10765.56	8966.87	6343.84	4035.12	4011.48	4597.66	4707.64	4707.64	4707.64	4707.64	4707.64
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 PX-0439-NEG
Name APLIQUE FORLIGHT LEDS
Measurem.
Code CL116A17F332G
Name APLIQUE FORLIGHT LEDS

Luminaire Flux	89.24 lm	Luminaire Power	2.77 W	Efficacy	32.22 lm/W	Efficiency 100.00%
Lamps Flux	89.24 lm	Maximum value	988.18 cd/klm	Position	C=90.00 G=20.00	CG Sym. on planes 270-90

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

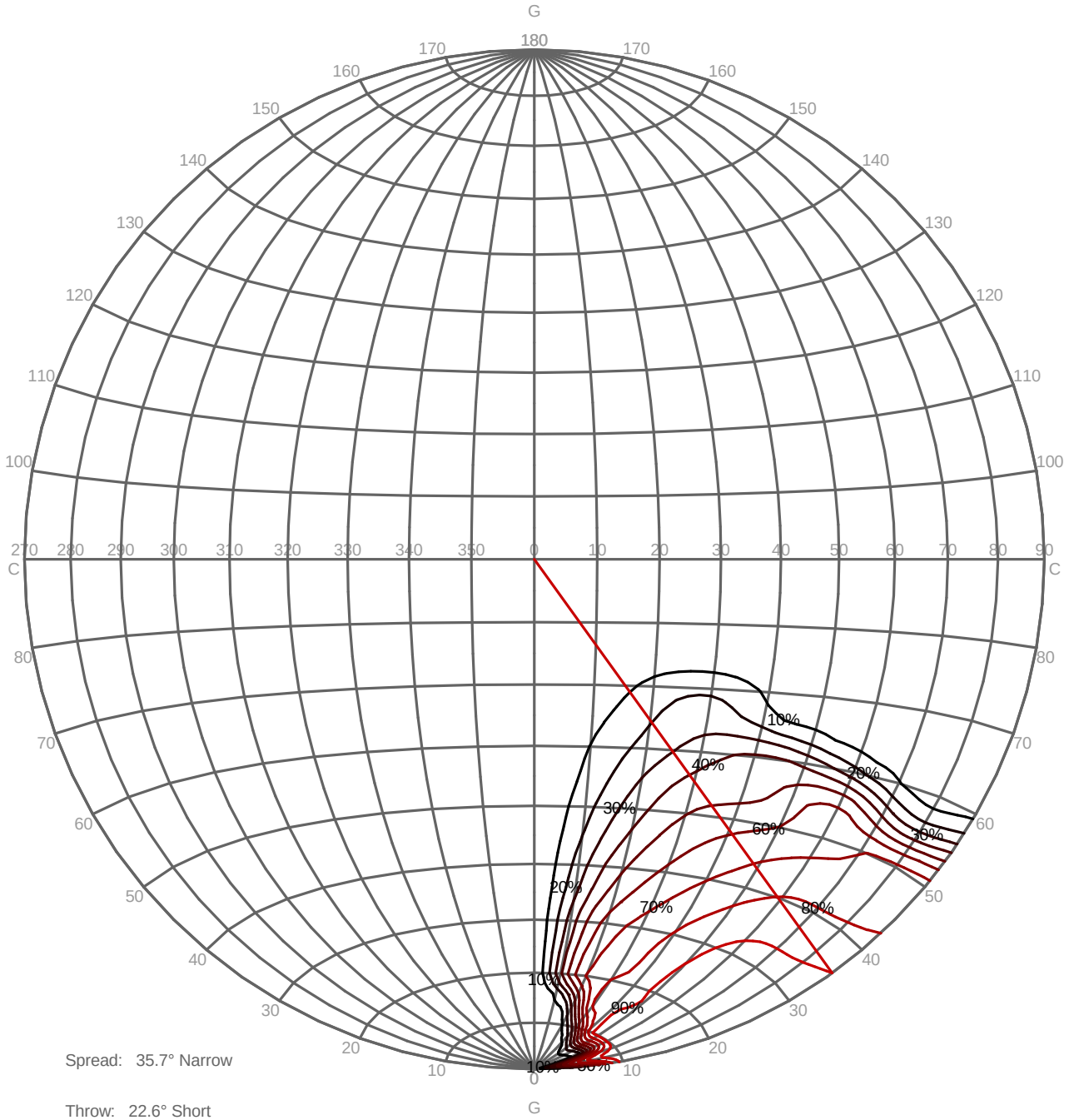
	C 260.00	C 270.00	C 280.00	C 290.00	C 300.00	C 310.00	C 320.00	C 330.00	C 340.00	C 350.00
G 0.0	701.54	701.54	701.54	701.54	701.54	701.54	701.54	701.54	701.54	701.54
G 5.0	442.45	411.87	442.45	431.48	411.87	489.46	485.27	441.28	538.50	579.95
G 10.0	416.63	416.63	416.63	416.63	416.63	432.13	438.60	416.63	456.31	535.66
G 15.0	424.77	424.77	424.77	424.77	424.77	456.01	442.85	406.47	435.60	529.67
G 20.0	436.63	436.63	436.63	436.63	436.63	436.63	423.01	395.76	423.01	530.19
G 25.0	452.71	452.71	452.71	452.71	452.71	452.71	442.50	422.08	442.50	549.72
G 30.0	473.77	473.77	473.77	473.77	473.77	496.33	485.05	439.93	439.93	552.73
G 35.0	500.88	500.88	500.88	500.88	500.88	524.73	512.81	465.11	465.11	572.44
G 40.0	535.61	535.61	535.61	535.61	535.61	561.11	548.36	497.35	497.35	586.62
G 45.0	580.25	580.25	580.25	580.25	580.25	607.88	594.07	538.80	538.80	621.70
G 50.0	638.31	638.31	638.31	638.31	638.31	668.71	653.51	592.72	592.72	665.76
G 55.0	715.33	715.33	715.33	715.33	715.33	733.80	733.80	715.33	681.27	0.00
G 60.0	782.73	820.60	782.73	741.95	761.98	801.06	815.32	804.75	776.24	0.00
G 65.0	924.42	970.85	924.42	881.39	901.50	1001.89	947.73	901.50	901.50	924.62
G 70.0	1155.86	1199.63	1155.86	1108.11	1113.95	1171.07	1176.39	1129.90	1119.26	131.48
G 75.0	1585.27	1585.27	1585.27	1520.68	1441.20	1577.59	1547.53	1472.04	1472.04	1472.04
G 80.0	2362.81	2362.81	2362.81	2362.81	2362.81	2362.81	2362.81	2362.81	2250.30	1618.51
G 85.0	4707.64	4707.64	4707.64	4707.64	4707.64	4707.64	4707.64	4707.64	4597.66	4011.48
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 PX-0439-NEG
Name APLIQUE FORLIGHT LEDS
Measurem.
Code CL116A17F332G
Name APLIQUE FORLIGHT LEDS

Luminaire Flux	89.24 lm	Luminaire Power	2.77 W	Efficacy	32.22 lm/W	Efficiency	100.00%
Lamps Flux	89.24 lm	Maximum value	988.18 cd/klm	Position	C=90.00 G=20.00	CG	Sym. on planes 270-90

PERCENTAGE ISOCANDLES

Projection: SLI 10.9 Tight Tilting Angle:0°



Spread: 35.7° Narrow

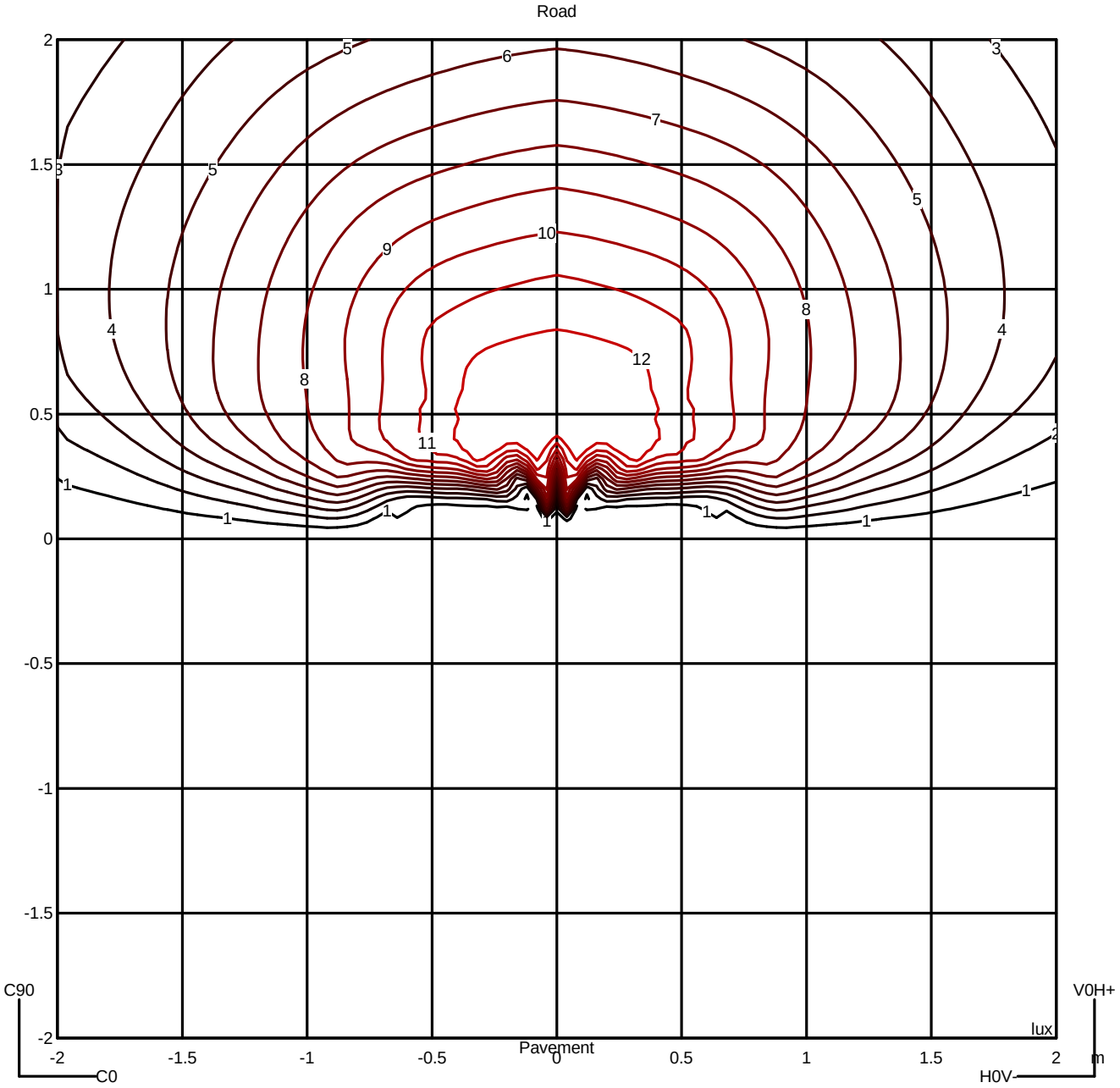
Throw: 22.6° Short

Luminaire
Code PX-0439-NEG
Name APLIQUE FORLIGHT LEDS
Measurem.
Code CL116A17F332G
Name APLIQUE FORLIGHT LEDS

Luminaire Flux	89.24 lm	Luminaire Power	2.77 W	Efficacy	32.22 lm/W	Efficiency	100.00%
Lamps Flux	89.24 lm	Maximum value	988.18 cd/klm	Position	C=90.00 G=20.00	CG	Sym. on planes 270-90

Isolux (Floor)

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



Luminaire
Code PX-0439-NEG
Name APLIQUE FORLIGHT LEDS
Measurem.
Code CL116A17F332G
Name APLIQUE FORLIGHT LEDS

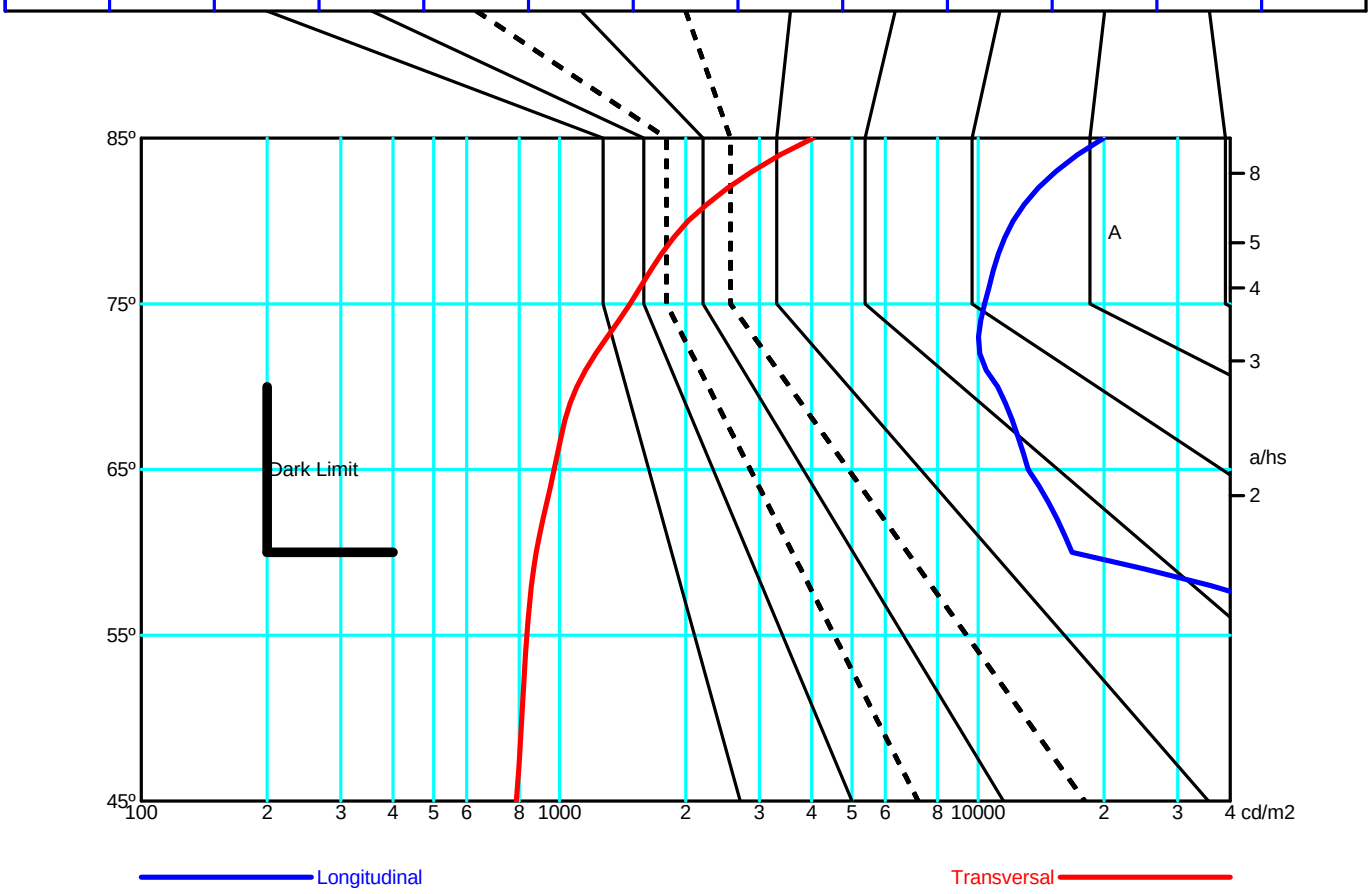
Luminaire Flux	89.24 lm	Luminaire Power	2.77 W	Efficacy	32.22 lm/W	Efficiency	100.00%
Lamps Flux	89.24 lm	Maximum value	988.18 cd/klm	Position	C=90.00 G=20.00	CG	Sym. on planes 270-90

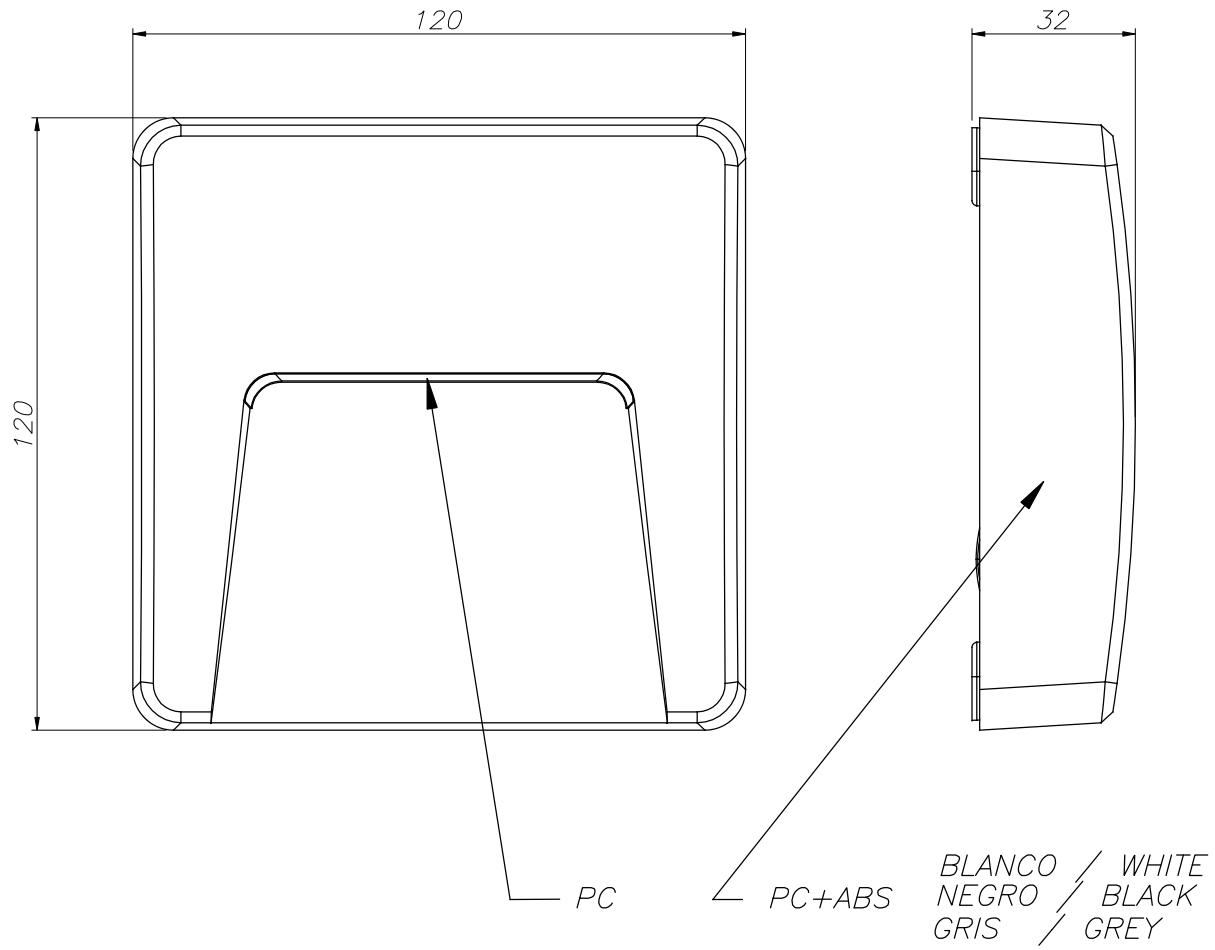
Average Luminance [cd/m²]

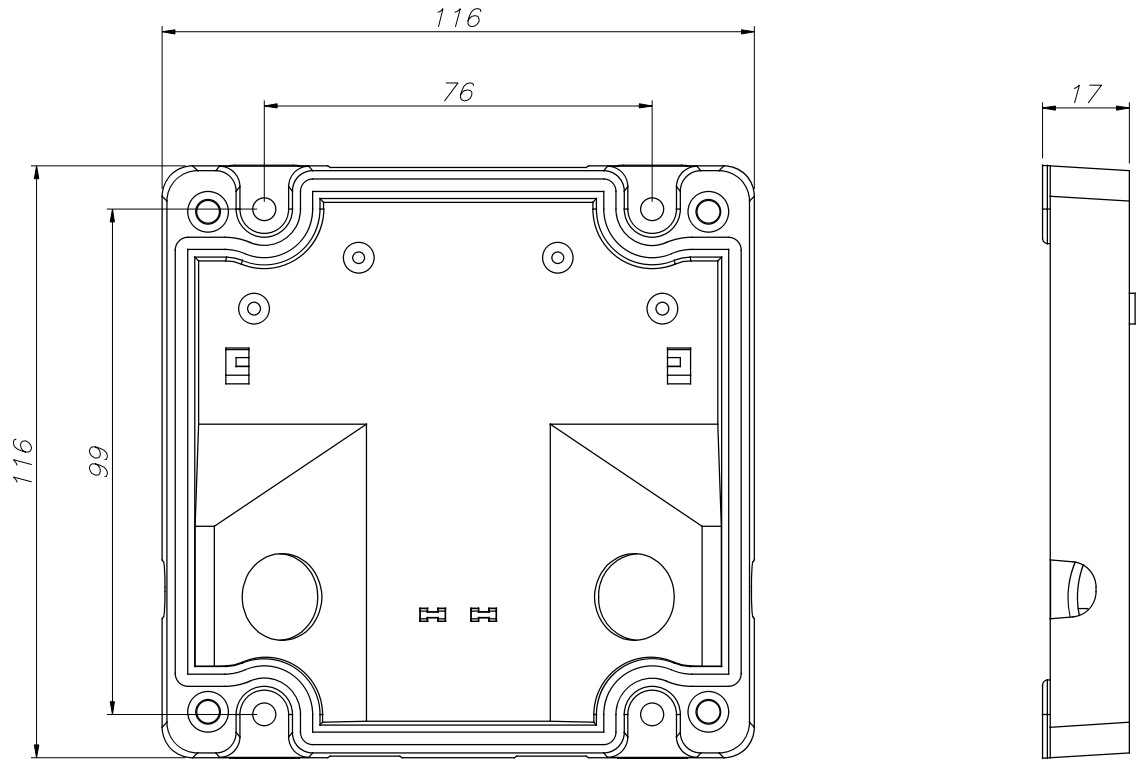
	45°	50°	55°	60°	65°	70°	75°	80°	85°	
0.0°	787	812	835	879	971	1099	1472	2025	4035	---
90.0°	129215	137574	78817	16764	13176	11139	10370	12120	19967	---

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



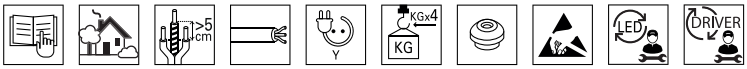


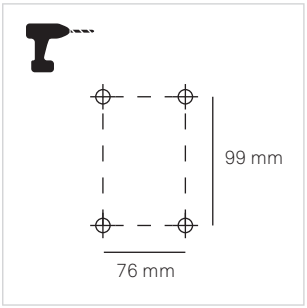


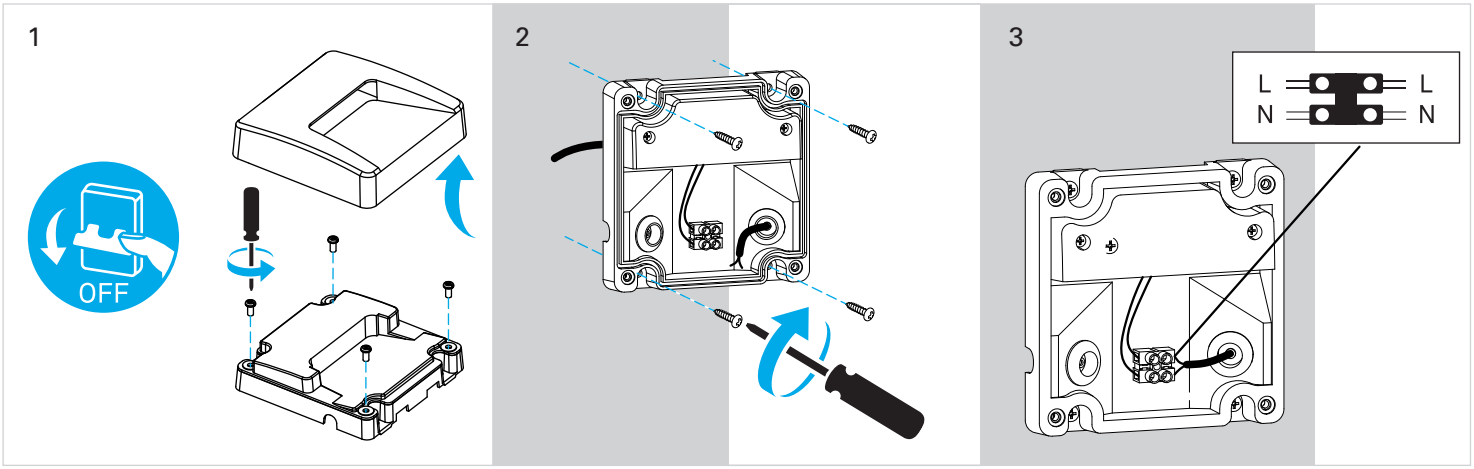
PLANTILLA DE INSTALACIÓN
INSTALLATION TEMPLATE

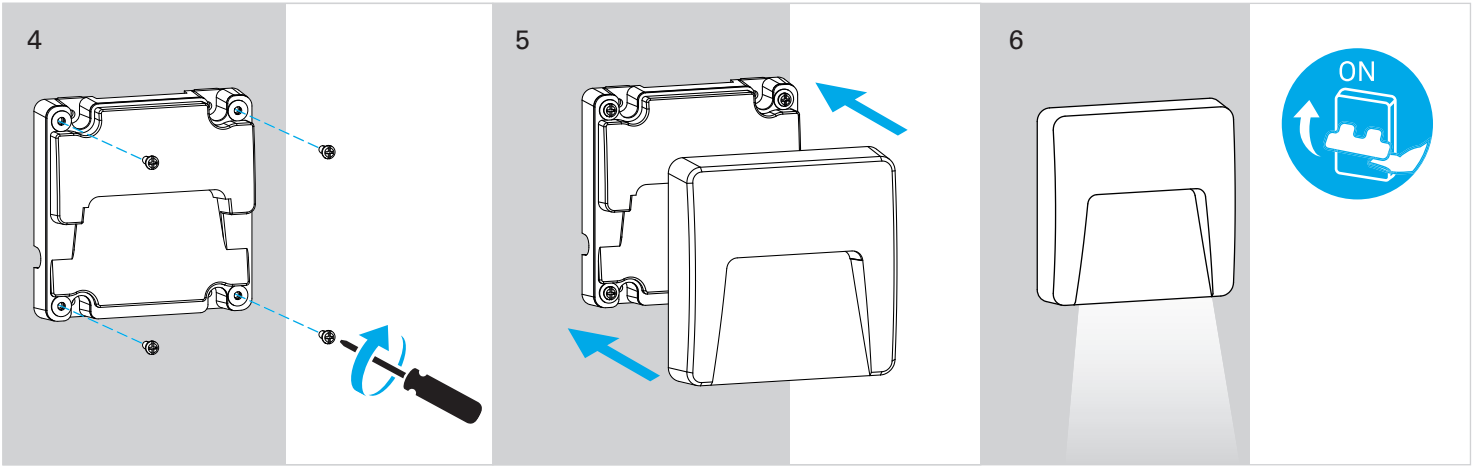
Grove

PX-0439









3-9-2021