Instruções de montagem
3D File
Dados fotométricos
Revit

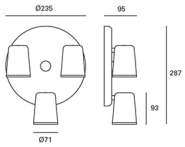
Adri

DE-0438-BLA

Projetore IP20 Adri LED 14.1W 3000K Branco 819lm

CARACTERÍSTICAS TÉCNICAS

IP20 90º 355



Potência (W) : 14.1W

Consumo total da luminária (W) : 15.3W

Lúmenes reais : 819

Lm/W reais : 54

Temperatura da cor : Branco quente - 3000K

Ângulo Óticas / Refletor : FLOOD 74º

Material da estrutura : Aço, Policarbonato

Acabamento estrutura : Branco

Material do difusor : Policarbonato

Acabamento difusor : Opala

Vida útil : 36.000h L70B30

Equipamento incluído : Sim, eletrónico

Tensão / Frequência : 100-240V/50-60Hz

Garantia : 5 Anos

Temperatura máx. : 25ºC

Eficiência energética : LED A++

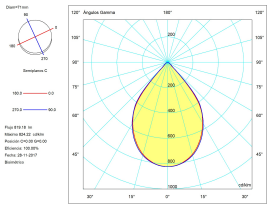
CARACTERÍSTICAS LUMINOTÉCNICAS

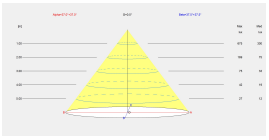
Fonte de luz: LED

CRI: 80

MacAdam steps: 3

Risco fotobiológico: RG0





LOGÍSTICA

Peso líquido (kg): 0.86

Peso embalado (kg): 1.14

Embalagem: 240mm x 240mm x 105mm

12 Un

Luminaire
Code DE-0438-BLA
Name APLIQUE LED
Measurem.
Code DE-0436-BLA
Name APLIQUE LED

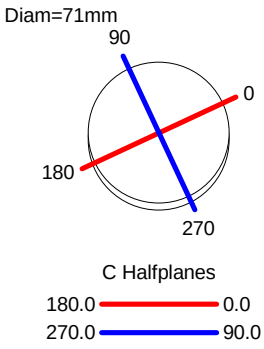
Luminaire Flux	819.18 lm	Luminaire Power	14.10 W	Efficacy	58.10 lm/W	Efficiency	100.00%
Lamps Flux	819.18 lm	Maximum value	824.22 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

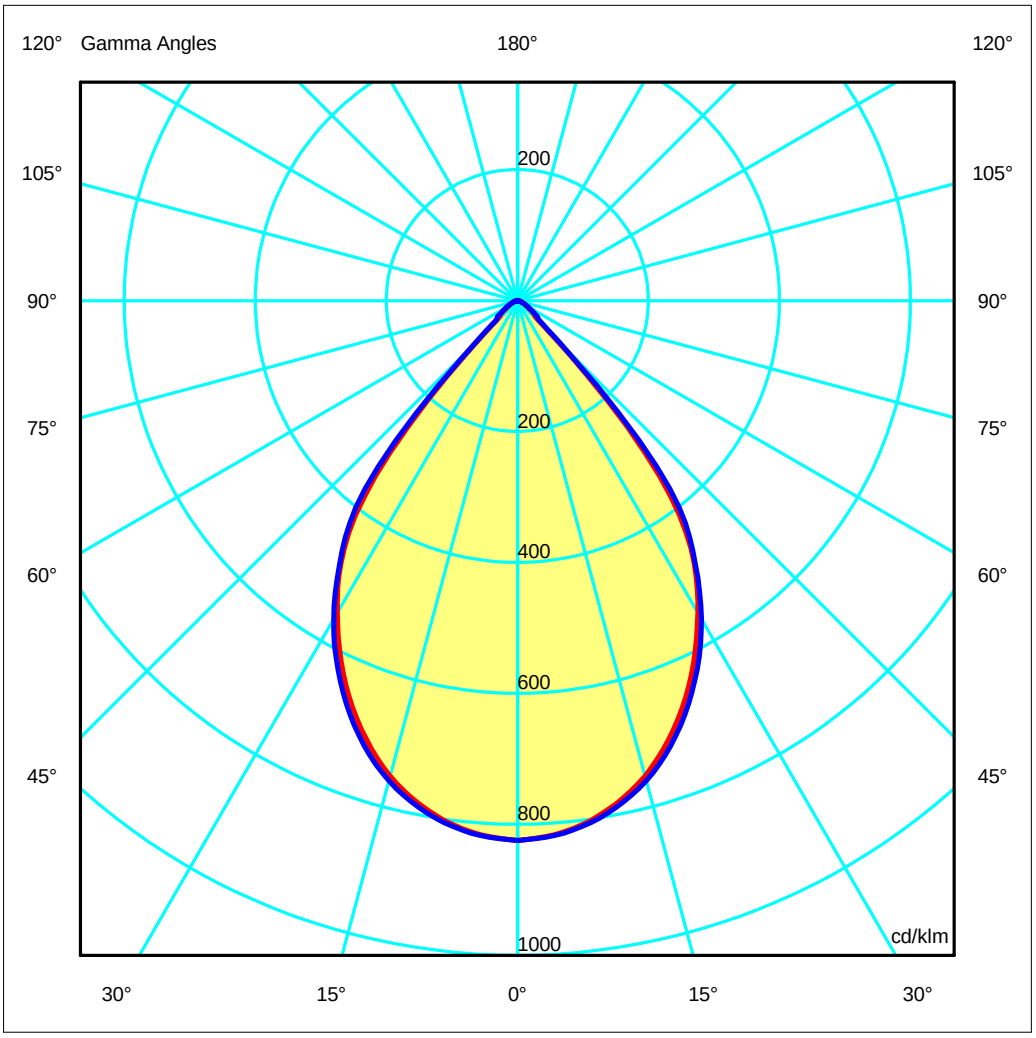
Round Luminaire	Diam. 71 mm	Height	289 mm
Round Luminous Area	Diam. 43 mm	Height	0 mm
Horizontal Luminous Area	0.001452 m2	Emitting area on Plane 180°	0.000000 m2
Emitting area on Plane 0°	0.000000 m2	Emitting area on Plane 270°	0.000000 m2
Emitting area on Plane 90°	0.000000 m2	Glare area at 76°	0.000351 m2
Coordinate system	CG	Symmetry Type	Double Symmetrical
Date	28-11-2017	Maximum Gamma Angle	180
Measurement Distance	0.00	Measurement Flux	819.18 lm
Operator	LEDS	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-0438-BLA	DE-0438-BLA	819.18	14.10	1

C.I.E.	89 98 100 100 100	D DIN 5040	A60
F UTE	1.00 A	B NBN	BZ 1





ULOR 0.05 %
DLOR 99.95 %
RN 0.05 %

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Lamps Flux	819.18 lm	Maximum value	824.22 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

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	824.22	824.22	824.22	824.22	824.22	824.22	824.22
G 5.0	814.59	815.93	815.88	816.18	815.91	816.14	816.12
G 10.0	790.25	791.71	791.95	792.83	793.20	794.22	794.45
G 15.0	751.61	751.90	752.20	755.08	757.00	758.75	759.09
G 20.0	696.63	697.96	699.07	701.54	704.19	706.77	706.98
G 25.0	629.01	630.19	631.87	634.10	636.56	640.97	640.22
G 30.0	550.47	549.89	550.66	554.53	557.78	560.74	561.27
G 35.0	461.02	461.88	462.72	463.68	465.41	467.13	466.57
G 40.0	303.14	307.20	309.08	317.20	323.88	328.31	330.59
G 45.0	77.78	78.26	81.86	85.70	85.76	91.42	89.80
G 50.0	34.79	35.06	36.17	37.66	39.13	40.21	40.69
G 55.0	22.48	22.92	23.41	24.64	25.87	26.63	26.97
G 60.0	15.32	15.44	15.92	16.74	17.40	18.24	18.47
G 65.0	9.94	10.15	10.45	10.97	11.56	11.99	12.21
G 70.0	6.13	6.28	6.54	6.99	7.43	7.60	7.61
G 75.0	3.37	3.46	3.64	3.98	4.29	4.50	4.55
G 80.0	1.73	1.78	1.85	2.03	2.13	2.19	2.20
G 85.0	1.21	1.23	1.26	1.30	1.37	1.52	1.63
G 90.0	0.53	0.52	0.55	0.55	0.61	0.66	0.65
G 95.0	0.01	0.01	0.01	0.01	0.01	0.01	0.01
G100.0	0.01	0.01	0.01	0.01	0.01	0.01	0.01
G105.0	0.02	0.01	0.01	0.01	0.01	0.01	0.02
G110.0	0.02	0.02	0.01	0.01	0.01	0.02	0.02
G115.0	0.03	0.02	0.01	0.01	0.01	0.02	0.03
G120.0	0.03	0.03	0.02	0.02	0.02	0.03	0.03
G125.0	0.04	0.04	0.03	0.03	0.03	0.04	0.04
G130.0	0.05	0.05	0.04	0.04	0.05	0.05	0.05
G135.0	0.07	0.07	0.07	0.06	0.07	0.07	0.07
G140.0	0.12	0.11	0.11	0.11	0.11	0.11	0.10
G145.0	0.21	0.20	0.20	0.19	0.18	0.18	0.18
G150.0	0.41	0.38	0.36	0.35	0.34	0.34	0.34
G155.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G160.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G165.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G170.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G175.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
G180.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00

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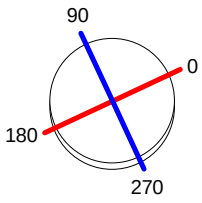
Lamps Flux	819.18 lm	Maximum value	824.22 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

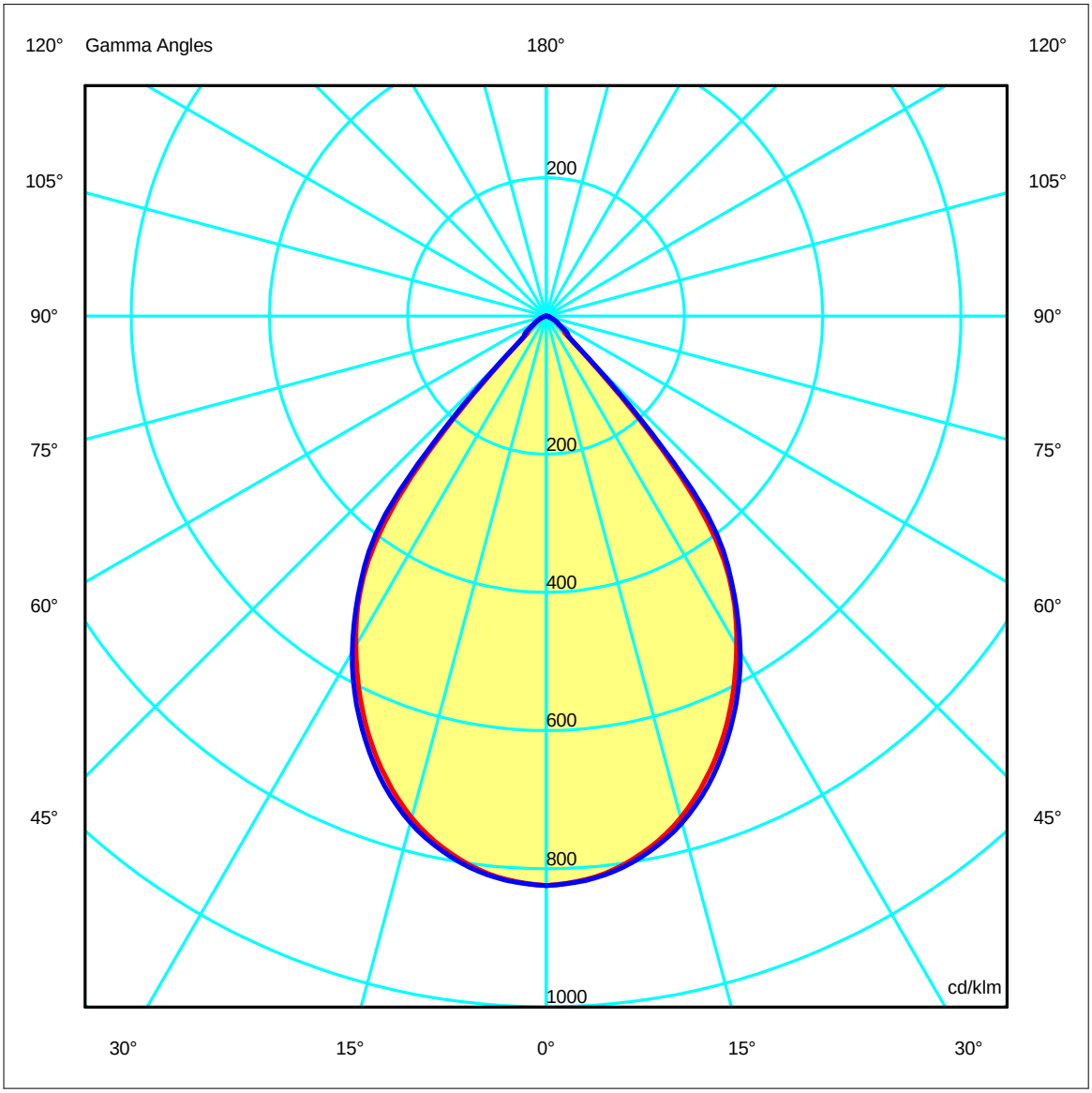
Diam=71mm



C Halfplanes

180.0 0.0

270.0 90.0



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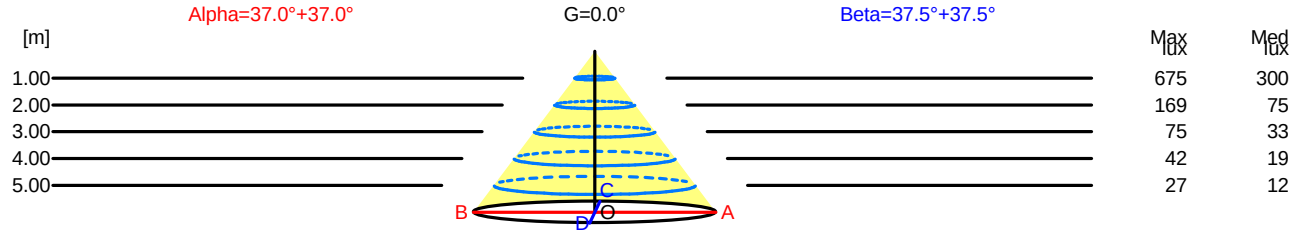
Width at 50.00 % of Max Intensity

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	0.75	1.51	2.26	3.01	3.76	OC	0.77	1.54	2.31	3.07	3.84
OB	0.75	1.51	2.26	3.01	3.76	OD	0.77	1.54	2.31	3.07	3.84

Luminous Intensities [cd/klm]

	0	5	15	25	35	45	55	65	75	85
OA	675.18	667.29	615.70	515.28	377.66	63.72	18.41	8.14	2.76	0.99
OB	675.18	667.29	615.70	515.28	377.66	63.72	18.41	8.14	2.76	0.99
OC	675.18	668.55	621.83	524.46	382.20	73.57	22.09	10.00	3.73	1.33
OD	675.18	668.55	621.83	524.46	382.20	73.57	22.09	10.00	3.73	1.33



H[m]	D[m]	Max lux	Med lux	Alpha=37.0°+37.0° G=0.0
1.00	1.51	675	300	
2.00	3.01	169	75	
3.00	4.52	75	33	
4.00	6.02	42	19	
5.00	7.53	27	12	

H[m]	D[m]	Max lux	Med lux	Beta=37.5°+37.5° G=0.0
1.00	1.54	675	300	
2.00	3.07	169	75	
3.00	4.61	75	33	
4.00	6.15	42	19	
5.00	7.68	27	12	

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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	24.6	25.4	24.9	25.6	25.8	24.9	25.7	25.1	25.9	26.1
x=2H y=3H	24.6	25.3	24.8	25.5	25.7	24.9	25.6	25.1	25.8	26.0
x=2H y=4H	24.5	25.2	24.8	25.4	25.7	24.8	25.5	25.1	25.7	26.0
x=2H y=6H	24.5	25.1	24.8	25.3	25.6	24.8	25.4	25.1	25.6	25.9
x=2H y=8H	24.4	25.0	24.8	25.3	25.6	24.7	25.3	25.1	25.6	25.9
x=2H y=12H	24.4	24.9	24.7	25.2	25.6	24.7	25.3	25.1	25.6	25.9
x=4H y=2H	24.5	25.1	24.8	25.4	25.7	24.8	25.4	25.1	25.7	25.9
x=4H y=3H	24.4	25.0	24.8	25.3	25.6	24.7	25.3	25.1	25.6	25.9
x=4H y=4H	24.4	24.9	24.8	25.2	25.5	24.7	25.2	25.1	25.5	25.9
x=4H y=6H	24.4	24.7	24.8	25.1	25.5	24.7	25.1	25.1	25.4	25.8
x=4H y=8H	24.3	24.7	24.7	25.1	25.4	24.6	25.0	25.1	25.4	25.8
x=4H y=12H	24.3	24.6	24.7	25.0	25.4	24.6	24.9	25.1	25.3	25.8
x=8H y=4H	24.3	24.7	24.7	25.0	25.4	24.6	25.0	25.0	25.4	25.7
x=8H y=6H	24.3	24.5	24.7	24.9	25.4	24.6	24.8	25.0	25.3	25.7
x=8H y=8H	24.2	24.5	24.7	24.9	25.4	24.6	24.8	25.0	25.2	25.7
x=8H y=12H	24.2	24.4	24.7	24.9	25.4	24.5	24.7	25.0	25.2	25.7
x=12H y=4H	24.3	24.6	24.7	25.0	25.4	24.6	24.9	25.0	25.3	25.7
x=12H y=6H	24.2	24.5	24.7	24.9	25.4	24.5	24.8	25.0	25.2	25.7
x=12H y=8H	24.2	24.4	24.7	24.9	25.3	24.5	24.7	25.0	25.2	25.7

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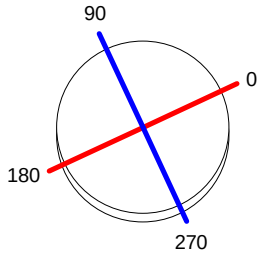
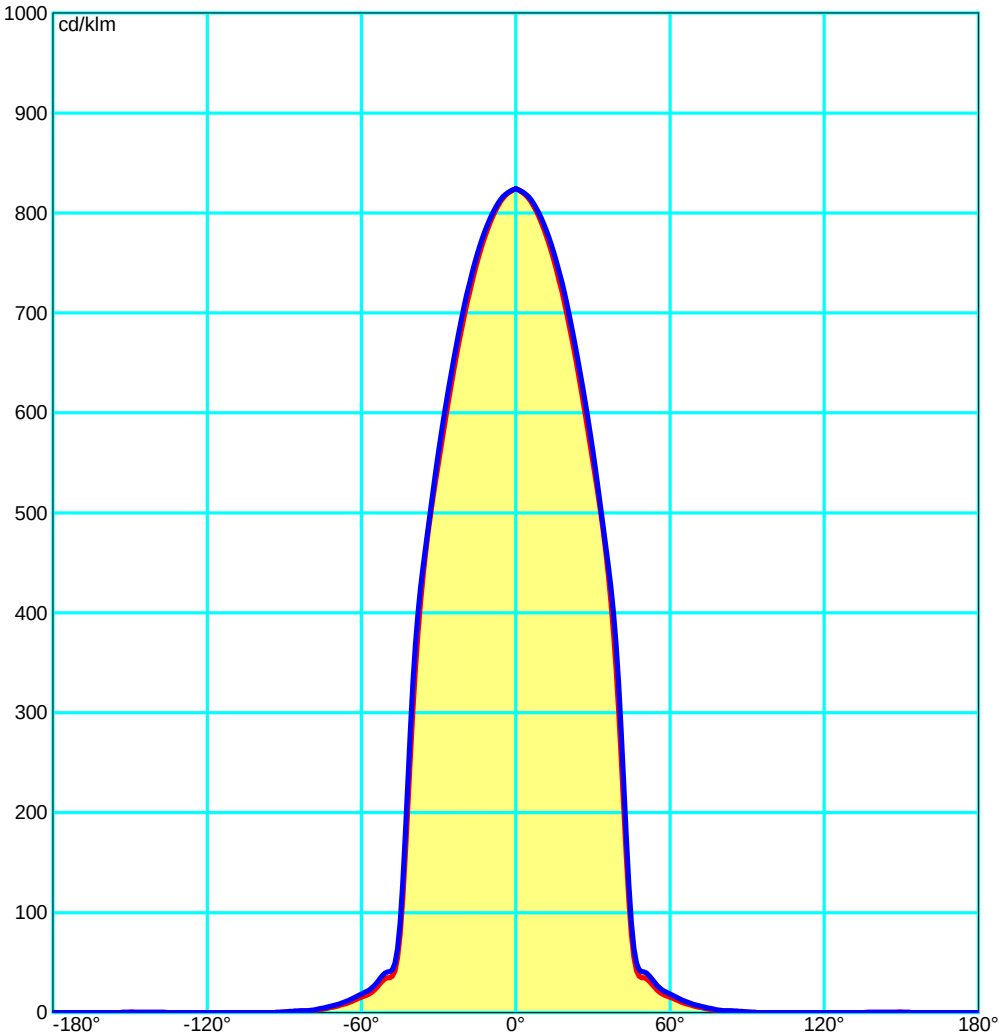
Diam=71mm



C Halfplanes

180.0 0.0
270.0 90.0



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Luminance

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Lamps Flux	819.18 lm	Maximum value	824.22 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	464938.28	464938.28	464938.28	464938.28	464938.28	464938.28	464938.28	464938.28	464938.28	464938.28	464938.28	464938.28	464938.28
G 5.0	461260.78	461852.65	462011.17	461994.08	462118.51	462129.52	462010.10	462084.85	462160.89	462127.81	462160.89	462084.85	462010.10
G 10.0	452652.35	453291.08	453559.22	453625.02	453968.54	454210.88	454340.56	454739.69	454972.21	455058.09	454972.21	454739.69	454340.56
G 15.0	438934.68	439049.54	439165.40	439282.28	440367.46	441410.76	442081.84	442818.93	443170.66	443301.79	443170.66	442818.93	442081.84
G 20.0	418186.14	418751.93	419168.66	419651.41	420590.79	421655.97	422721.78	423866.77	424315.46	424401.13	424315.46	423866.77	422721.78
G 25.0	391505.11	391973.81	392534.34	393281.98	394227.31	395063.66	396204.25	398211.58	399139.48	398479.45	399139.48	398211.58	396204.25
G 30.0	358555.29	358270.19	358147.44	358676.91	360294.29	361967.64	363318.87	364724.58	365361.24	365591.42	365361.24	364724.58	363318.87
G 35.0	317475.89	317871.57	318264.28	318646.37	319045.06	319639.31	320499.05	321417.74	321703.77	321294.86	321703.77	321417.74	320499.05
G 40.0	223221.32	225500.70	226519.80	227601.52	231365.58	235490.87	238497.11	240856.13	242451.14	243439.52	242451.14	240856.13	238497.11
G 45.0	62050.47	62303.42	63109.55	65302.24	67757.58	68385.43	68417.57	71572.82	73217.11	71641.36	73217.11	71572.82	68417.57
G 50.0	30532.90	30628.61	31017.19	31738.52	32602.32	33498.82	34339.05	35028.91	35468.89	35708.11	35468.89	35028.91	34339.05
G 55.0	22104.83	22411.92	22659.95	23025.51	23782.87	24671.47	25439.76	25999.11	26334.74	26521.66	26334.74	25999.11	25439.76
G 60.0	17285.01	17349.99	17545.15	17963.70	18590.33	19138.69	19631.77	20303.67	20745.78	20841.89	20745.78	20303.67	19631.77
G 65.0	13262.56	13449.84	13654.59	13942.38	14388.18	14914.98	15426.51	15849.46	16128.40	16293.98	16128.40	15849.46	15426.51
G 70.0	10117.81	10268.27	10474.59	10794.48	11260.24	11793.31	12246.55	12480.71	12535.83	12547.35	12535.83	12480.71	12246.55
G 75.0	7346.98	7465.48	7635.05	7935.37	8419.04	8922.13	9345.95	9690.15	9874.50	9918.00	9874.50	9690.15	9345.95
G 80.0	5622.24	5726.27	5815.10	5994.03	6387.99	6735.10	6929.53	7081.29	7133.26	7139.15	7133.26	7081.29	6929.53
G 85.0	7821.61	7910.46	8016.79	8156.29	8333.17	8520.48	8853.48	9503.08	10117.37	10545.40	10117.37	9503.08	8853.48
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

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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	464938.28	464938.28	464938.28	464938.28	464938.28	464938.28	464938.28	464938.28	464938.28	464938.28	464938.28	464938.28	464938.28
G 5.0	462129.52	462118.51	461994.08	462011.17	461852.65	461260.78	461852.65	462011.17	461994.08	462118.51	462129.52	462010.10	462084.85
G 10.0	454210.88	453968.54	453625.02	453559.22	453291.08	452652.35	453291.08	453559.22	453625.02	453968.54	454210.88	454340.56	454739.69
G 15.0	441410.76	440367.46	439282.28	439165.40	439049.54	438934.68	439049.54	439165.40	439282.28	440367.46	441410.76	442081.84	442818.93
G 20.0	421655.97	420590.79	419651.41	419168.66	418751.93	418186.14	418751.93	419168.66	419651.41	420590.79	421655.97	422721.78	423866.77
G 25.0	395063.66	394227.31	393281.98	392534.34	391973.81	391505.11	391973.81	392534.34	393281.98	394227.31	395063.66	396204.25	398211.58
G 30.0	361967.64	360294.29	358676.91	358147.44	358270.19	358555.29	358270.19	358147.44	358676.91	360294.29	361967.64	363318.87	364724.58
G 35.0	319639.31	319045.06	318646.37	318264.28	317871.57	317475.89	317871.57	318264.28	318646.37	319045.06	319639.31	320499.05	321417.74
G 40.0	235490.87	231365.58	227601.52	226519.80	225500.70	223221.32	225500.70	226519.80	227601.52	231365.58	235490.87	238497.11	240856.13
G 45.0	68385.43	67757.58	65302.24	63109.55	62303.42	62050.47	62303.42	63109.55	65302.24	67757.58	68385.43	68417.57	71572.82
G 50.0	33498.82	32602.32	31738.52	31017.19	30628.61	30532.90	30628.61	31017.19	31738.52	32602.32	33498.82	34339.05	35028.91
G 55.0	24671.47	23782.87	23025.51	22659.95	22411.92	22104.83	22411.92	22659.95	23025.51	23782.87	24671.47	25439.76	25999.11
G 60.0	19138.69	18590.33	17963.70	17545.15	17349.99	17285.01	17349.99	17545.15	17963.70	18590.33	19138.69	19631.77	20303.67
G 65.0	14914.98	14388.18	13942.38	13654.59	13449.84	13262.56	13449.84	13654.59	13942.38	14388.18	14914.98	15426.51	15849.46
G 70.0	11793.31	11260.24	10794.48	10474.59	10268.27	10117.81	10268.27	10474.59	10794.48	11260.24	11793.31	12246.55	12480.71
G 75.0	8922.13	8419.04	7935.37	7635.05	7465.48	7346.98	7465.48	7635.05	7935.37	8419.04	8922.13	9345.95	9690.15
G 80.0	6735.10	6387.99	5994.03	5815.10	5726.27	5622.24	5726.27	5815.10	5994.03	6387.99	6735.10	6929.53	7081.29
G 85.0	8520.48	8333.17	8156.29	8016.79	7910.46	7821.61	7910.46	8016.79	8156.29	8333.17	8520.48	8853.48	9503.08
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-0438-BLA
Name APLIQUE LED
Measurem.
Code DE-0436-BLA
Name APLIQUE LED

Luminaire Flux	819.18 lm	Luminaire Power	14.10 W	Efficacy	58.10 lm/W	Efficiency 100.00%
Lamps Flux	819.18 lm	Maximum value	824.22 cd/klm	Position	C=0.00 G=0.00	CG Double Symmetrical

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

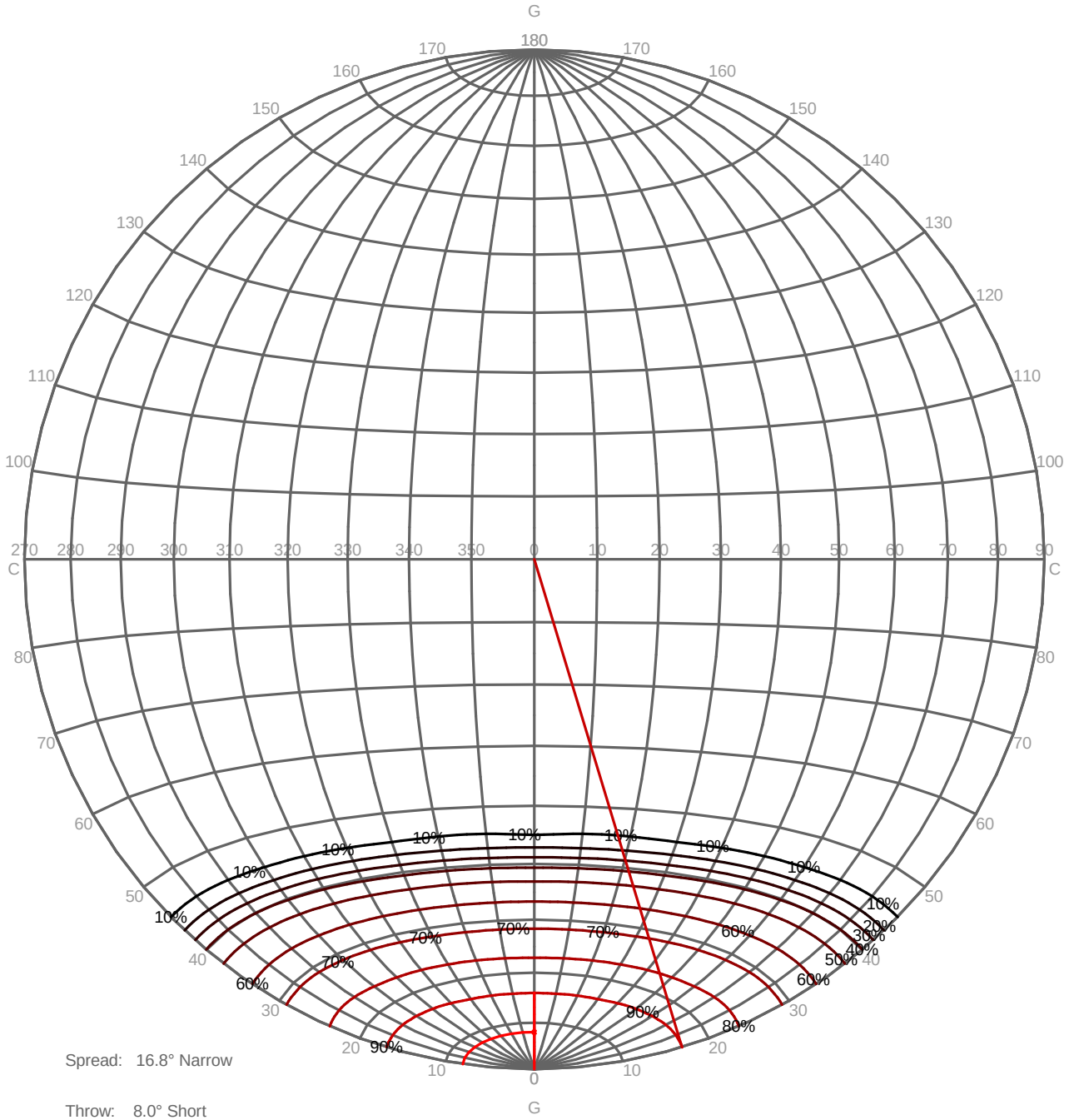
	C 260.00	C 270.00	C 280.00	C 290.00	C 300.00	C 310.00	C 320.00	C 330.00	C 340.00	C 350.00
G 0.0	464938.28	464938.28	464938.28	464938.28	464938.28	464938.28	464938.28	464938.28	464938.28	464938.28
G 5.0	462160.89	462127.81	462160.89	462084.85	462010.10	462129.52	462118.51	461994.08	462011.17	461852.65
G 10.0	454972.21	455058.09	454972.21	454739.69	454340.56	454210.88	453968.54	453625.02	453559.22	453291.08
G 15.0	443170.66	443301.79	443170.66	442818.93	442081.84	441410.76	440367.46	439282.28	439165.40	439049.54
G 20.0	424315.46	424401.13	424315.46	423866.77	422721.78	421655.97	420590.79	419651.41	419168.66	418751.93
G 25.0	399139.48	398479.45	399139.48	398211.58	396204.25	395063.66	394227.31	393281.98	392534.34	391973.81
G 30.0	365361.24	365591.42	365361.24	364724.58	363318.87	361967.64	360294.29	358676.91	358147.44	358270.19
G 35.0	321703.77	321294.86	321703.77	321417.74	320499.05	319639.31	319045.06	318646.37	318264.28	317871.57
G 40.0	242451.14	243439.52	242451.14	240856.13	238497.11	235490.87	231365.58	227601.52	226519.80	225500.70
G 45.0	73217.11	71641.36	73217.11	71572.82	68417.57	68385.43	67757.58	65302.24	63109.55	62303.42
G 50.0	35468.89	35708.11	35468.89	35028.91	34339.05	33498.82	32602.32	31738.52	31017.19	30628.61
G 55.0	26334.74	26521.66	26334.74	25999.11	25439.76	24671.47	23782.87	23025.51	22659.95	22411.92
G 60.0	20745.78	20841.89	20745.78	20303.67	19631.77	19138.69	18590.33	17963.70	17545.15	17349.99
G 65.0	16128.40	16293.98	16128.40	15849.46	15426.51	14914.98	14388.18	13942.38	13654.59	13449.84
G 70.0	12535.83	12547.35	12535.83	12480.71	12246.55	11793.31	11260.24	10794.48	10474.59	10268.27
G 75.0	9874.50	9918.00	9874.50	9690.15	9345.95	8922.13	8419.04	7935.37	7635.05	7465.48
G 80.0	7133.26	7139.15	7133.26	7081.29	6929.53	6735.10	6387.99	5994.03	5815.10	5726.27
G 85.0	10117.37	10545.40	10117.37	9503.08	8853.48	8520.48	8333.17	8156.29	8016.79	7910.46
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-0438-BLA
Name APLIQUE LED
Measurem.
Code DE-0436-BLA
Name APLIQUE LED

Luminaire Flux	819.18 lm	Luminaire Power	14.10 W	Efficacy	58.10 lm/W	Efficiency	100.00%
Lamps Flux	819.18 lm	Maximum value	824.22 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

PERCENTAGE ISOCANDLES

Projection: Equal Area SLI 9.6 Tight Tilting Angle:0°



Spread: 16.8° Narrow

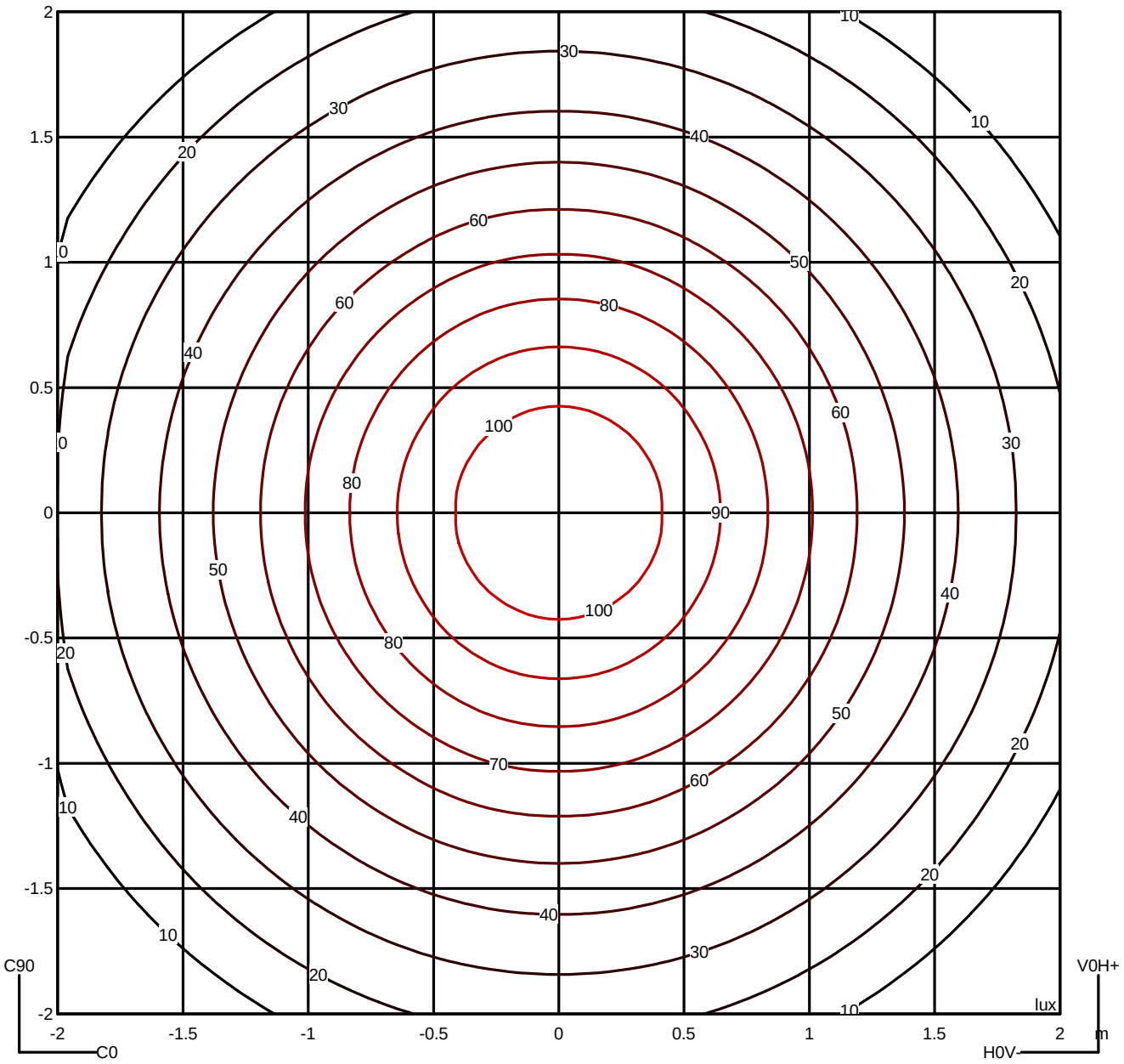
Throw: 8.0° Short

Luminaire
Code DE-0438-BLA
Name APLIQUE LED
Measurem.
Code DE-0436-BLA
Name APLIQUE LED

Luminaire Flux	819.18 lm	Luminaire Power	14.10 W	Efficacy	58.10 lm/W	Efficiency	100.00%
Lamps Flux	819.18 lm	Maximum value	824.22 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-0438-BLA
Name APLIQUE LED
Measurem.
Code DE-0436-BLA
Name APLIQUE LED

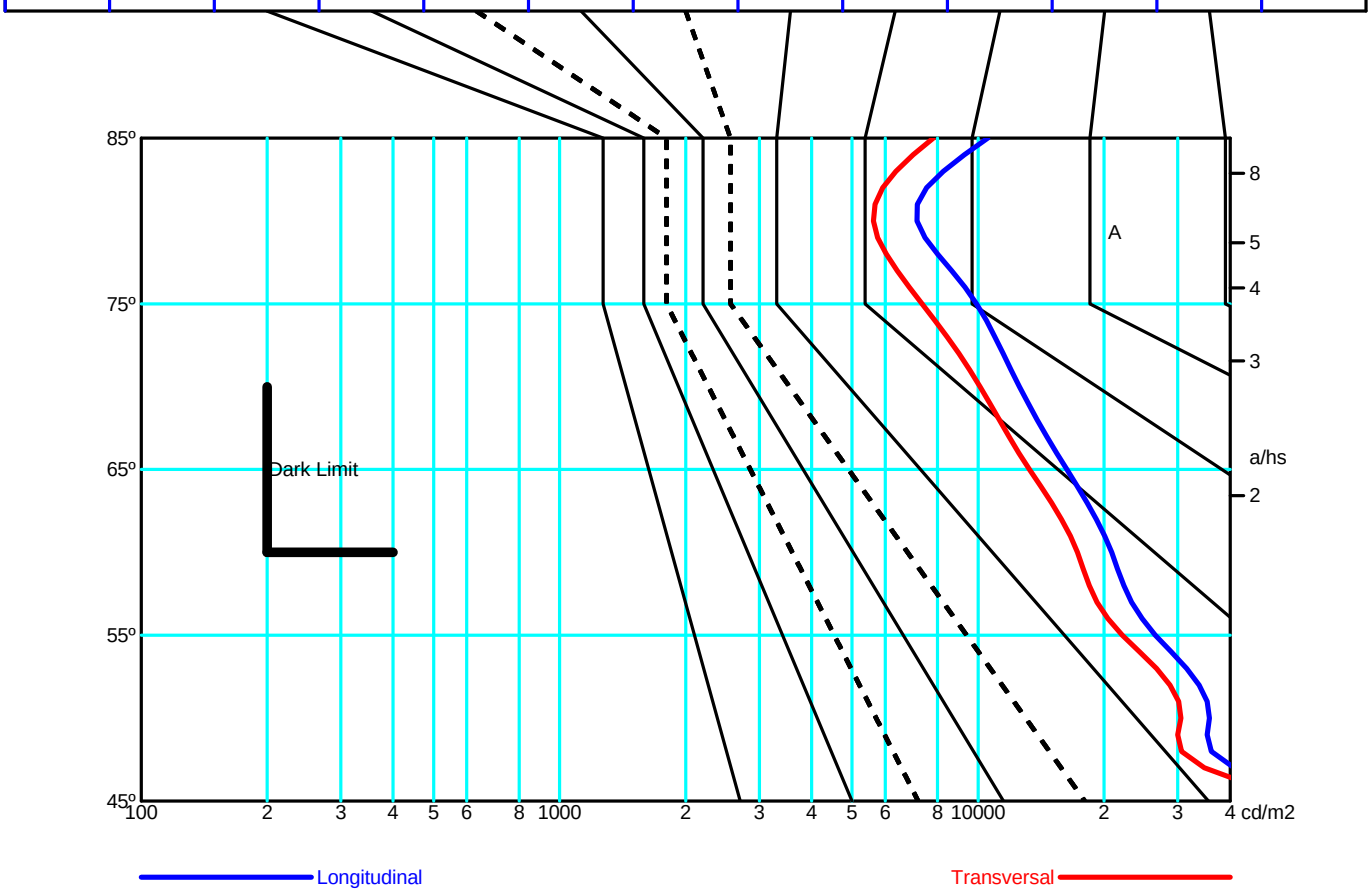
Luminaire Flux	819.18 lm	Luminaire Power	14.10 W	Efficacy	58.10 lm/W	Efficiency	100.00%
Lamps Flux	819.18 lm	Maximum value	824.22 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

Average Luminance [cd/m²]

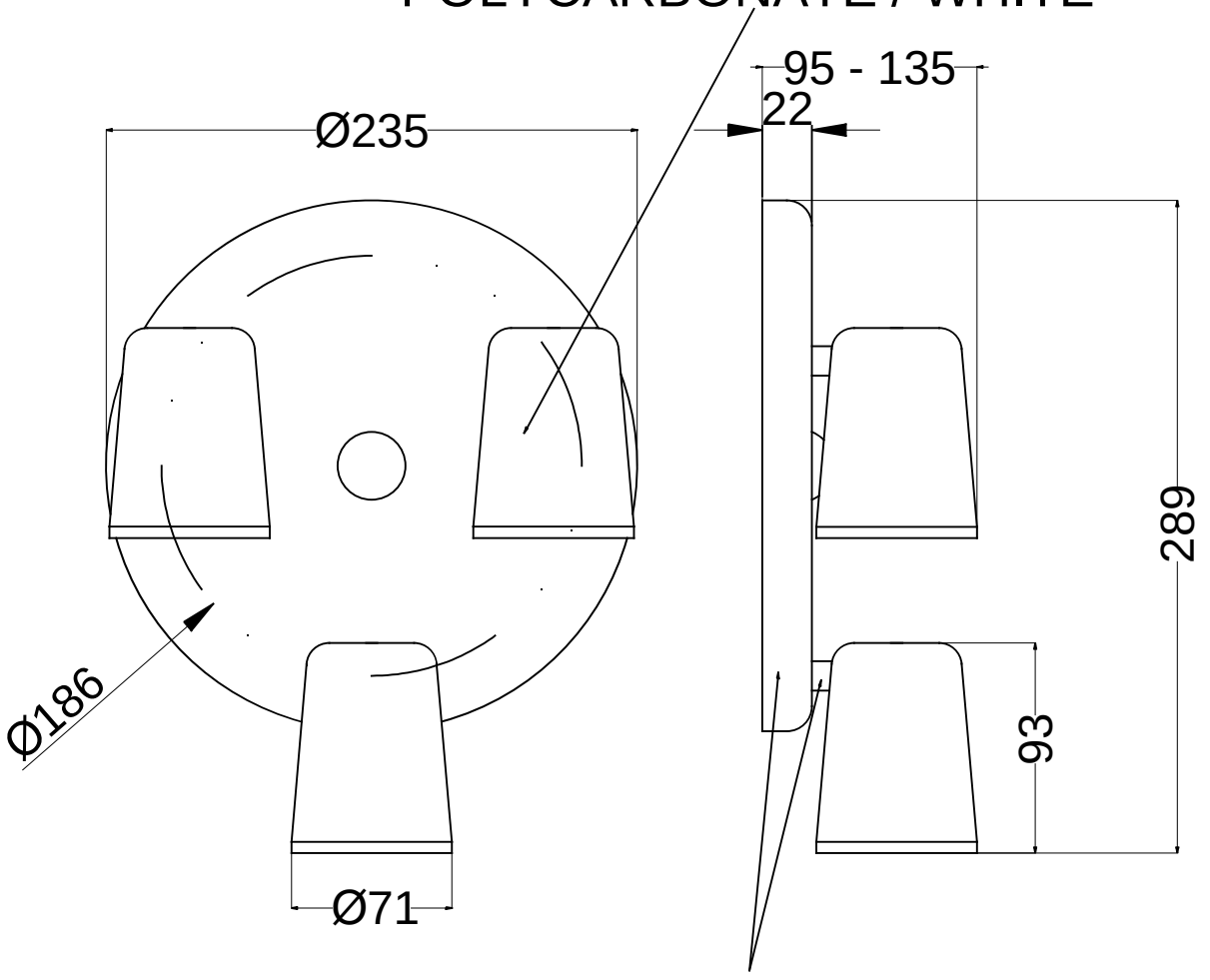
	45°	50°	55°	60°	65°	70°	75°	80°	85°	
0.0°	62050	30533	22105	17285	13263	10118	7347	5622	7822	---
90.0°	71641	35708	26522	20842	16294	12547	9918	7139	10545	---

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

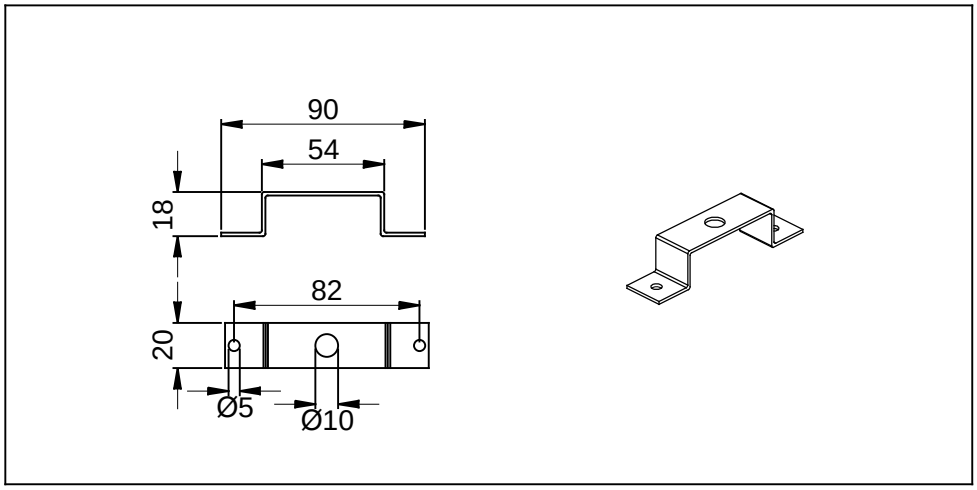


POLYCARBONATE / WHITE



IRON / WHITE

INSTALLATION TEMPLATE

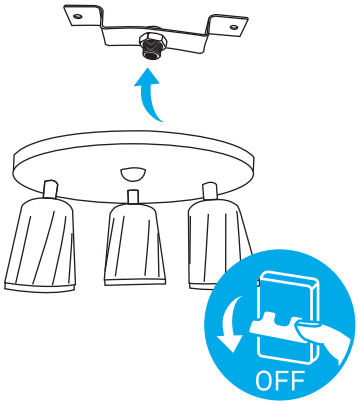


Adri

DE-0438

80 mm

1



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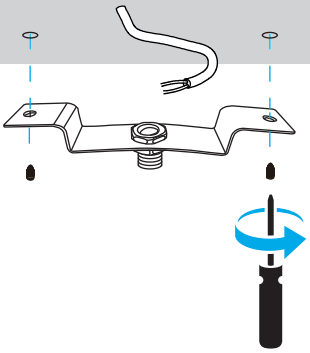

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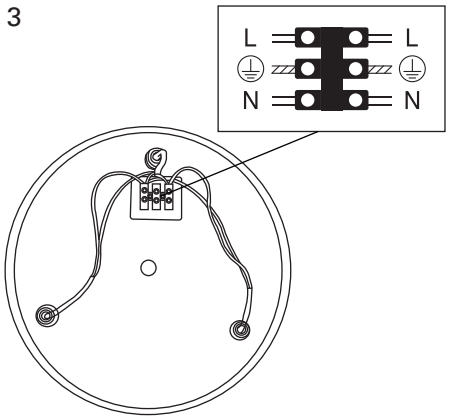

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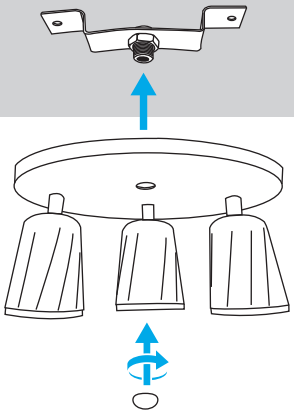
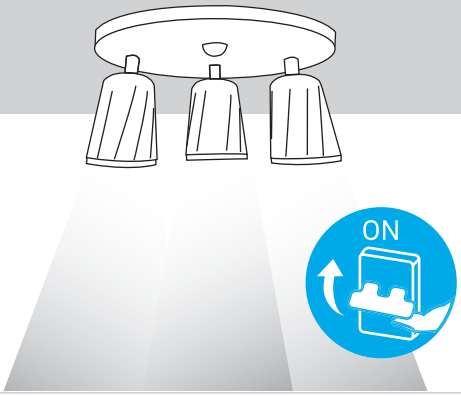
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