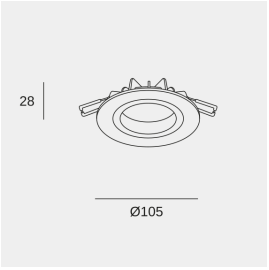
Hide Ø105mm

TC-0215-BLA

Recessed ceiling lights Hide Ø105mm LED 7.8W 4000K ON-OFF White IN IP20 / OUT IP54 890.00





92 0-15

TECHNICAL FEATURES

IN IP20 / OUT IP54

Luminaire total power : 7.8W

Real lumens : 394

Nominal lumens : 890

Real lm/W : 51

Lens / reflector angle : HORIZONTAL 136º

Structure material : Aluminium

Structure finish : White

Diffuser material : Glass

Diffuser finish : Transparent

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

Dimming protocol : ON-OFF

Power Factor : 0.90

Useful life : 36.000h L70B30

Warranty : 2 Years

Easily recyclable luminaire

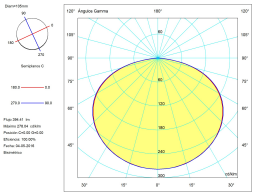
LUMINOTECHNIC FEATURES

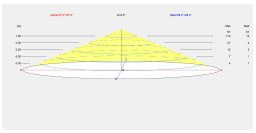
CRI: 80

MacAdam steps: 3

Photobiological risk: RG0

Lampholder	Quantity	Light source power (W)	Correlated Colour Temperature (CCT)
LED	1	6.5W	4000K





LOGISTICS

Net weight (kg): 0.17

Packaged weight (kg): 0.26

Packaging: 125mm x 60mm x 130mm

20 Un

LIGHT APPLICATION

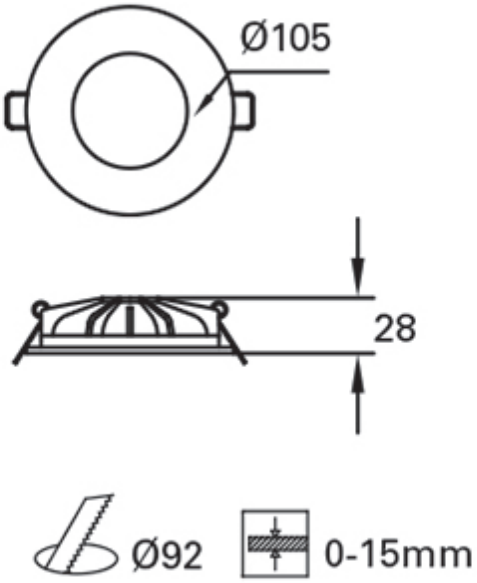


Image may not match reference. LEDS C4 reserves the right to amend any of the product's components. The data related to flux, power and colour temperature are subject to a tolerance of ±10%.

Luminaire
Code TC-0215-BLA
Name Downlight led 6.5W dif. opal
Measurem.
Code TC-0175-BLA
Name Downlight led 6.5W dif. opal

Luminaire Flux	394.41 lm	Luminaire Power	7.00 W	Efficacy	56.34 lm/W	Efficiency	100.00%
Lamps Flux	394.41 lm	Maximum value	278.04 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

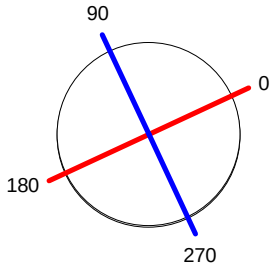
Round Luminaire	Diam. 105 mm	Height	2 mm
Round Luminous Area	Diam. 58 mm	Height	0 mm
Horizontal Luminous Area	0.002642 m2	Emitting area on Plane 180°	0.000000 m2
Emitting area on Plane 0°	0.000000 m2	Emitting area on Plane 270°	0.000000 m2
Emitting area on Plane 90°	0.000000 m2	Glare area at 76°	0.000639 m2
Coordinate system	CG	Symmetry Type	Double Symmetrical
Date	04-05-2016	Maximum Gamma Angle	90
Measurement Distance	0.00	Measurement Flux	394.41 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
	TC-0215-BLA	TC-0215-BLA - 7.00 W	394.41	7.00	1

C.I.E. 40 73 94 100 100		D DIN 5040	A20
F UTE 1.00 G		B NBN	BZ 5

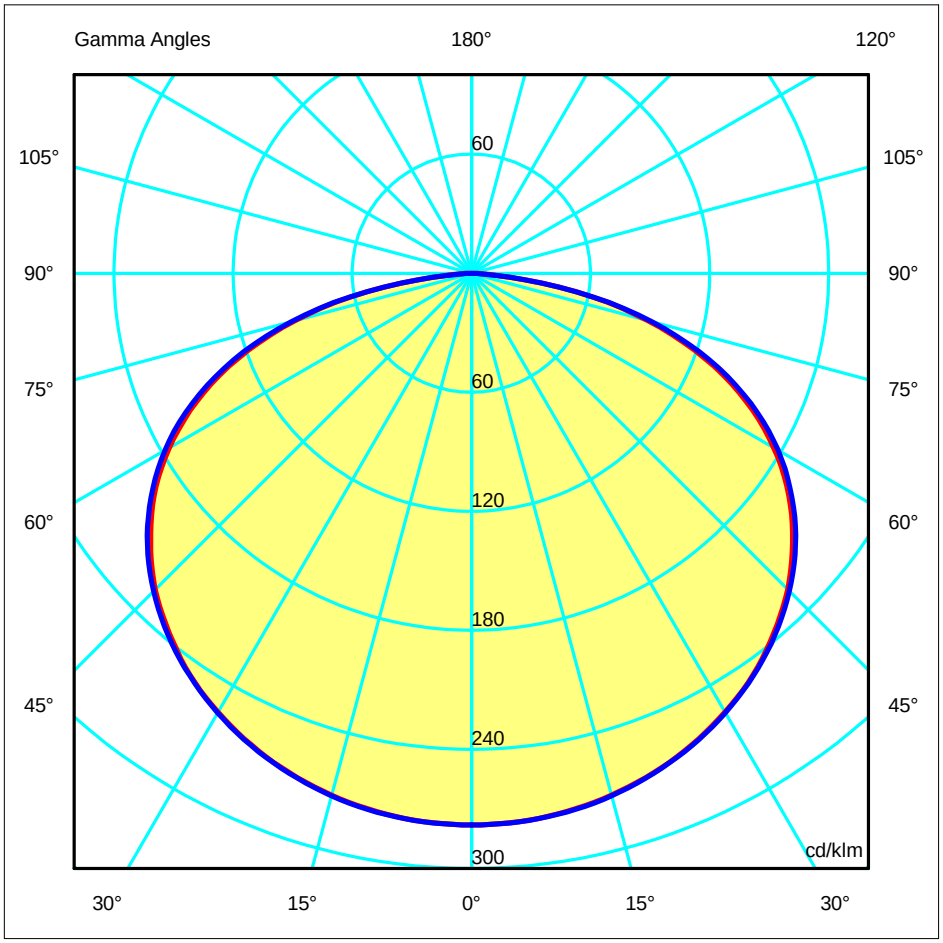
Diam=105mm



C Halfplanes

180.0 — 0.0

270.0 — 90.0



ULOR	0.00 %
DLOR	100.00 %
RN	0.00 %

Luminaire
Code TC-0215-BLA
Name Downlight led 6.5W dif. opal
Measurem.
Code TC-0175-BLA
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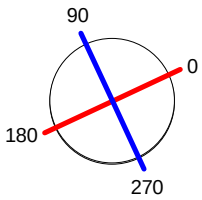
Luminous Intensity Table cd/klm **Table 1/1**

	C 0.00	C 15.00	C 30.00	C 45.00	C 60.00	C 75.00	C 90.00
G 0.0	278.04	278.04	278.04	278.04	278.04	278.04	278.04
G 5.0	277.41	277.40	277.36	277.41	277.49	277.38	277.44
G 10.0	275.43	275.58	275.54	275.57	275.55	275.53	275.69
G 15.0	272.24	272.54	272.49	272.51	272.55	272.43	272.61
G 20.0	267.91	268.17	268.13	268.24	268.15	268.19	268.13
G 25.0	262.28	262.56	262.47	262.62	262.55	262.56	262.64
G 30.0	255.28	255.67	255.61	255.70	255.64	255.78	255.74
G 35.0	247.15	247.44	247.32	247.53	247.37	247.61	247.47
G 40.0	236.76	237.43	237.37	237.67	237.63	237.75	237.89
G 45.0	225.24	225.68	225.71	226.11	226.05	226.56	226.43
G 50.0	211.04	211.75	211.88	212.52	212.86	213.03	213.09
G 55.0	195.12	195.40	195.83	196.50	196.62	197.18	197.07
G 60.0	175.78	175.95	176.30	177.06	177.68	178.03	178.28
G 65.0	152.66	152.99	153.17	154.24	154.39	155.22	155.24
G 70.0	124.88	125.21	125.03	126.15	126.62	127.90	127.44
G 75.0	91.73	91.88	91.51	93.02	93.06	94.09	94.04
G 80.0	53.38	53.04	53.20	54.11	53.75	55.00	53.81
G 85.0	14.59	14.44	14.24	14.65	13.66	13.86	13.14
G 90.0	2.20	2.08	2.05	2.23	2.20	2.34	2.36

Luminaire
Code TC-0215-BLA
Name Downlight led 6.5W dif. opal
Measurem.
Code TC-0175-BLA
Name Downlight led 6.5W dif. opal

Luminaire Flux	394.41 lm	Luminaire Power	7.00 W	Efficacy	56.34 lm/W	Efficiency	100.00%
Lamps Flux	394.41 lm	Maximum value	278.04 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

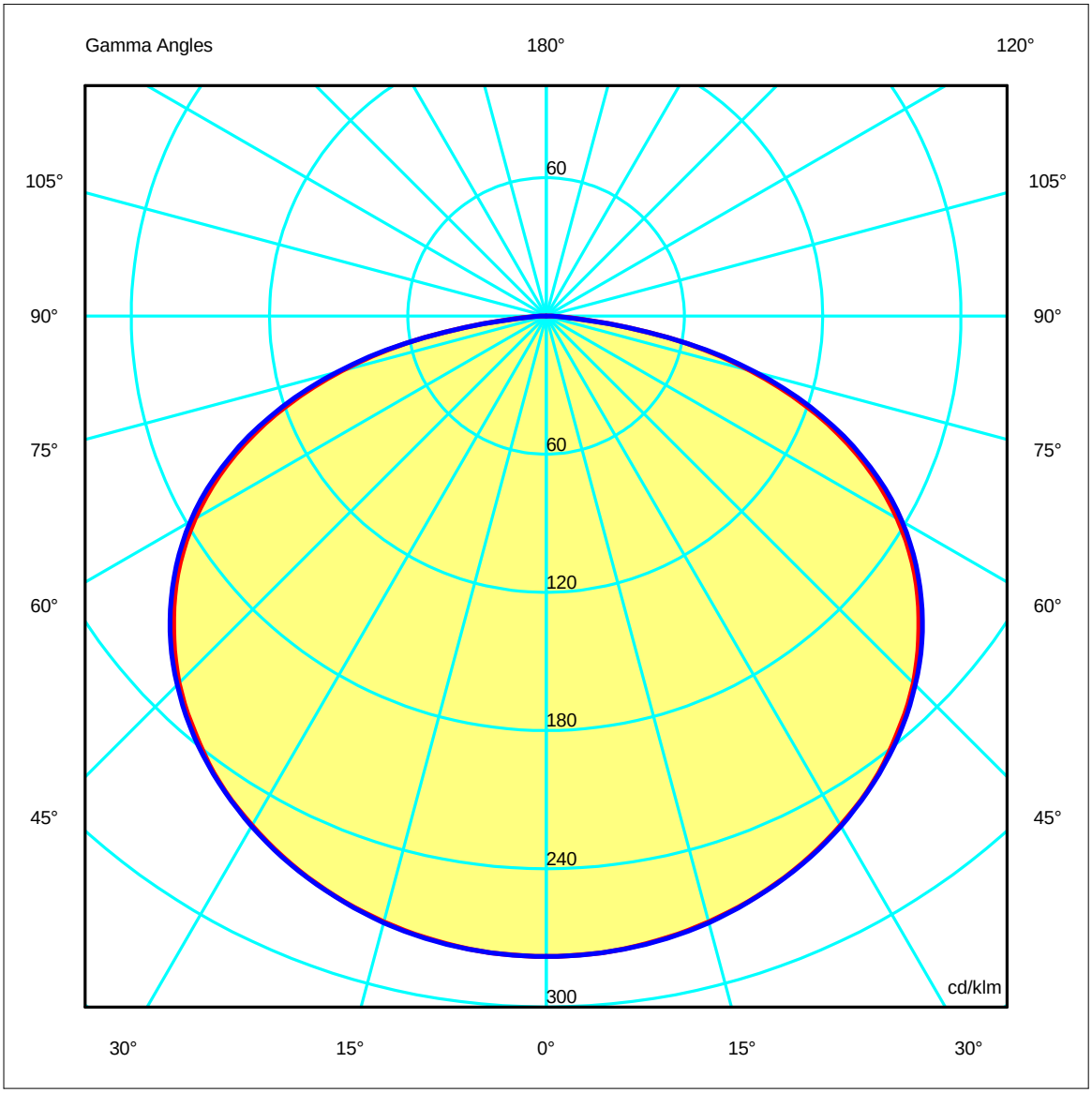
Diam=105mm



C Halfplanes

180.0 0.0

270.0 90.0



Luminaire
Code TC-0215-BLA
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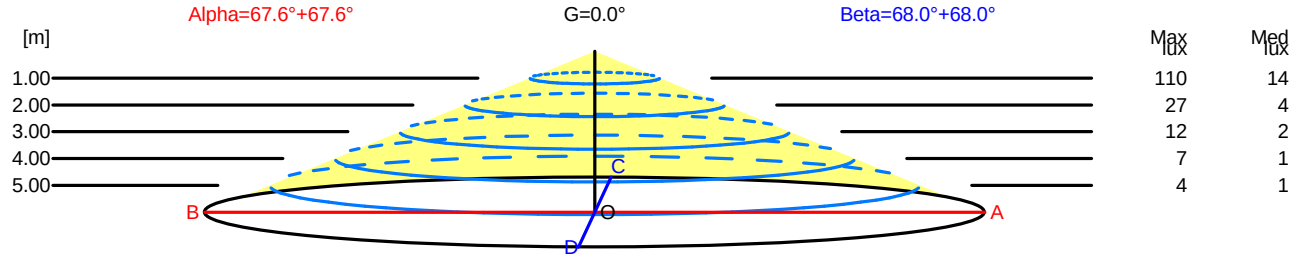
Luminaire Flux	394.41 lm	Luminaire Power	7.00 W	Efficacy	56.34 lm/W	Efficiency	100.00%
Lamps Flux	394.41 lm	Maximum value	278.04 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

Width at 50.00 % of Max Intensity

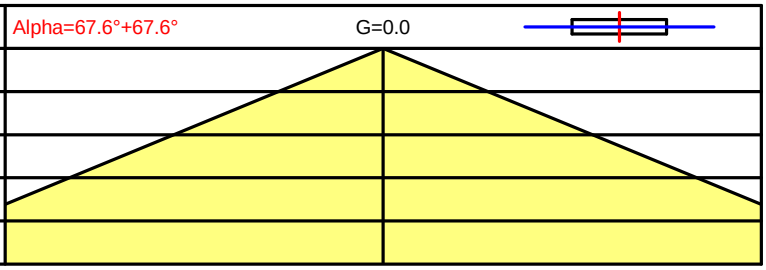
H[m]	1.00	2.00	3.00	4.00	5.00	H[m]	1.00	2.00	3.00	4.00	5.00
OA	2.42	4.84	7.27	9.69	12.11	OC	2.48	4.96	7.44	9.91	12.39
OB	2.42	4.84	7.27	9.69	12.11	OD	2.48	4.96	7.44	9.91	12.39

Luminous Intensities [cd/klm]

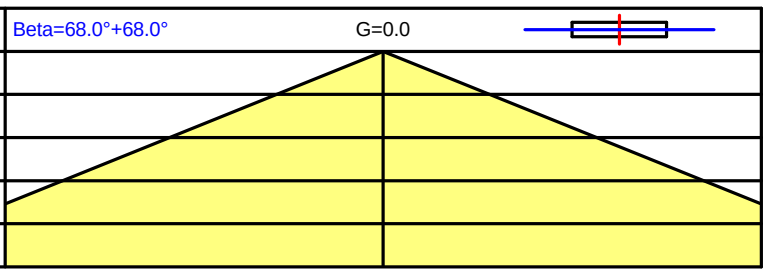
	0	5	15	25	35	45	55	65	75	85
OA	109.66	109.41	107.37	103.45	97.48	88.84	76.96	60.21	36.18	5.76
OB	109.66	109.41	107.37	103.45	97.48	88.84	76.96	60.21	36.18	5.76
OC	109.66	109.43	107.52	103.59	97.61	89.31	77.73	61.23	37.09	5.18
OD	109.66	109.43	107.52	103.59	97.61	89.31	77.73	61.23	37.09	5.18



H[m]	D[m]	Max lux	Med lux
1.00	4.84	110	14
2.00	9.69	27	4
3.00	14.53	12	2
4.00	19.38	7	1
5.00	24.22	4	1



H[m]	D[m]	Max lux	Med lux
1.00	4.96	110	14
2.00	9.91	27	4
3.00	14.87	12	2
4.00	19.83	7	1
5.00	24.78	4	1



Luminaire
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Name Downlight led 6.5W dif. opal

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Lamps Flux	394.41 lm	Maximum value	278.04 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

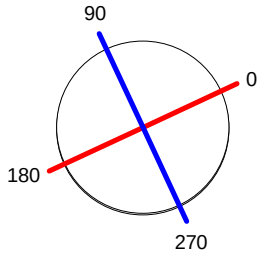
UGR
S = 0.250

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	26.4	27.9	26.7	28.1	28.4	26.5	27.9	26.8	28.2	28.4
x=2H y=3H	28.6	29.9	28.9	30.1	30.5	28.7	30.0	29.0	30.2	30.5
x=2H y=4H	29.4	30.7	29.8	31.0	31.4	29.5	30.8	29.9	31.1	31.4
x=2H y=6H	30.1	31.2	30.4	31.5	31.9	30.2	31.3	30.5	31.6	31.9
x=2H y=8H	30.2	31.3	30.6	31.6	32.1	30.3	31.4	30.7	31.7	32.1
x=2H y=12H	30.3	31.3	30.6	31.6	32.1	30.4	31.4	30.7	31.7	32.1
x=4H y=2H	27.4	28.6	27.7	28.9	29.3	27.4	28.7	27.8	29.0	29.3
x=4H y=3H	29.7	30.7	30.1	31.0	31.5	29.7	30.8	30.1	31.1	31.5
x=4H y=4H	30.7	31.6	31.1	31.9	32.4	30.8	31.7	31.2	32.0	32.4
x=4H y=6H	31.4	32.2	31.8	32.6	33.1	31.5	32.3	31.9	32.7	33.1
x=4H y=8H	31.6	32.3	32.0	32.7	33.3	31.7	32.5	32.1	32.8	33.3
x=4H y=12H	31.7	32.3	32.1	32.8	33.3	31.8	32.4	32.2	32.9	33.3
x=8H y=4H	31.1	31.9	31.5	32.3	32.8	31.2	32.0	31.6	32.3	32.8
x=8H y=6H	32.0	32.6	32.4	33.0	33.6	32.1	32.7	32.5	33.1	33.6
x=8H y=8H	32.2	32.8	32.7	33.2	33.8	32.3	32.9	32.8	33.3	33.8
x=8H y=12H	32.3	32.8	32.8	33.3	33.9	32.4	32.9	32.9	33.4	33.9
x=12H y=4H	31.2	31.8	31.6	32.3	32.8	31.2	31.9	31.7	32.3	32.8
x=12H y=6H	32.0	32.6	32.5	33.0	33.6	32.1	32.7	32.6	33.1	33.6
x=12H y=8H	32.3	32.8	32.8	33.3	33.9	32.4	32.9	32.9	33.4	33.9

Luminaire
Code TC-0215-BLA
Name Downlight led 6.5W dif. opal
Measurem.
Code TC-0175-BLA
Name Downlight led 6.5W dif. opal

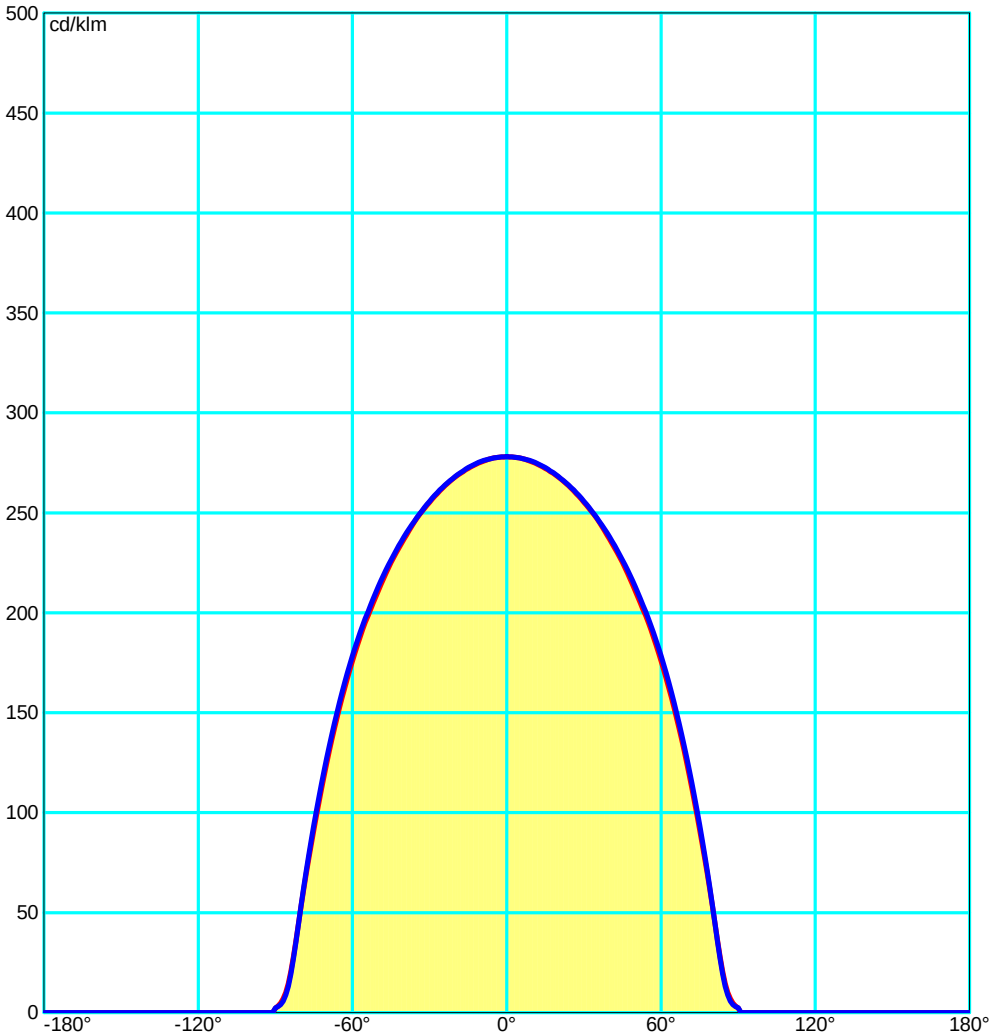
Luminaire Flux	394.41 lm	Luminaire Power	7.00 W	Efficacy	56.34 lm/W	Efficiency	100.00%
Lamps Flux	394.41 lm	Maximum value	278.04 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

Diam=105mm



C Halfplanes

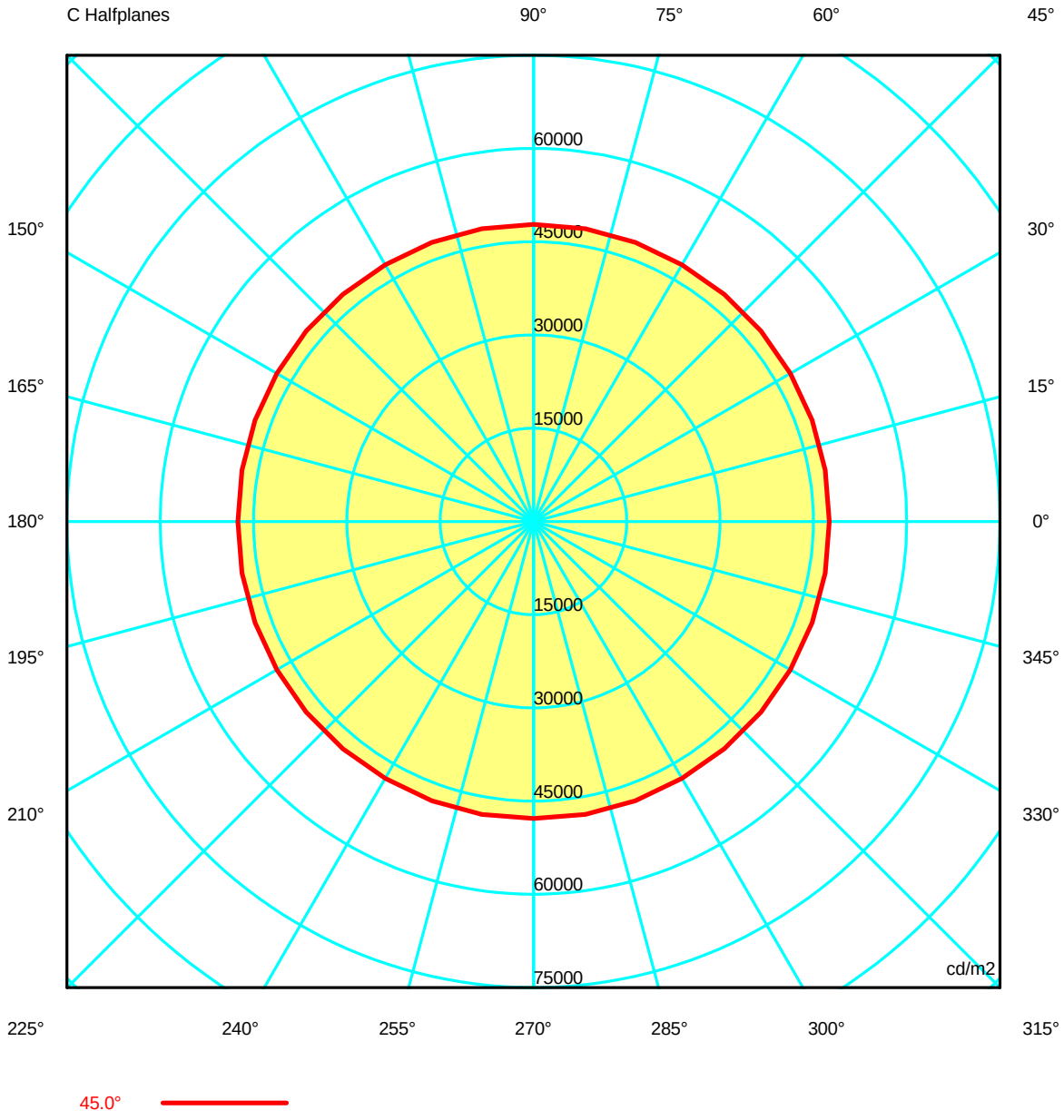




Luminaire
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Lamps Flux	394.41 lm	Maximum value	278.04 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

Luminance



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Code TC-0215-BLA
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Measurem.
Code TC-0175-BLA
Name Downlight led 6.5W dif. opal

Luminaire Flux	394.41 lm	Luminaire Power	7.00 W	Efficacy	56.34 lm/W	Efficiency	100.00%
Lamps Flux	394.41 lm	Maximum value	278.04 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	41506.07	41506.07	41506.07	41506.07	41506.07	41506.07	41506.07	41506.07	41506.07	41506.07	41506.07	41506.07	41506.07
G 5.0	41569.27	41568.51	41566.34	41563.20	41565.69	41576.07	41582.53	41570.39	41564.51	41574.49	41564.51	41570.39	41582.53
G 10.0	41751.03	41768.92	41772.87	41767.65	41770.15	41772.24	41768.57	41764.55	41771.23	41789.19	41771.23	41764.55	41768.57
G 15.0	42073.40	42109.68	42117.30	42112.56	42111.50	42119.57	42122.29	42107.37	42107.20	42131.55	42107.20	42107.37	42122.29
G 20.0	42560.81	42593.63	42601.45	42595.50	42607.50	42609.78	42599.19	42601.98	42603.60	42595.98	42603.60	42601.98	42599.19
G 25.0	43200.84	43239.72	43244.17	43231.42	43248.13	43252.37	43244.49	43243.43	43250.51	43259.32	43250.51	43243.43	43244.49
G 30.0	44003.14	44056.68	44071.10	44060.48	44071.52	44073.11	44065.10	44081.64	44092.02	44082.35	44092.02	44081.64	44065.10
G 35.0	45040.47	45085.72	45086.98	45070.89	45099.43	45101.45	45079.71	45109.24	45125.42	45098.87	45125.42	45109.24	45079.71
G 40.0	46137.58	46240.99	46270.25	46257.25	46296.65	46319.09	46307.24	46319.44	46340.98	46357.34	46340.98	46319.44	46307.24
G 45.0	47551.55	47625.12	47646.30	47650.28	47713.40	47733.50	47722.82	47795.23	47837.55	47802.11	47837.55	47795.23	47722.82
G 50.0	49011.73	49139.27	49190.50	49207.74	49301.86	49392.03	49434.20	49462.49	49479.98	49488.37	49479.98	49462.49	49434.20
G 55.0	50782.43	50828.67	50882.45	50968.39	51096.05	51154.94	51171.67	51273.84	51330.17	51289.43	51330.17	51273.84	51171.67
G 60.0	52481.34	52512.95	52554.52	52635.93	52783.79	52934.82	53046.76	53123.66	53179.71	53227.29	53179.71	53123.66	53046.76
G 65.0	53924.39	54016.83	54040.21	54104.55	54370.93	54515.53	54535.43	54733.11	54830.56	54834.12	54830.56	54733.11	54535.43
G 70.0	54504.27	54639.93	54622.46	54571.48	54897.17	55135.26	55267.21	55671.48	55845.77	55621.57	55845.77	55671.48	55267.21
G 75.0	52908.98	53029.89	52921.18	52779.48	53382.07	53659.48	53676.66	54067.08	54342.17	54239.56	54342.17	54067.08	53676.66
G 80.0	45892.73	45680.68	45543.57	45730.92	46361.48	46411.97	46207.10	46988.21	47196.97	46259.16	47196.97	46988.21	46207.10
G 85.0	24994.29	24885.10	24519.15	24383.78	25052.17	24621.66	23403.82	23583.32	23550.54	22506.55	23550.54	23583.32	23403.82
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 TC-0215-BLA
Name Downlight led 6.5W dif. opal
Measurem.
Code TC-0175-BLA
Name Downlight led 6.5W dif. opal

Luminaire Flux	394.41 lm	Luminaire Power	7.00 W	Efficacy	56.34 lm/W	Efficiency	100.00%
Lamps Flux	394.41 lm	Maximum value	278.04 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	41506.07	41506.07	41506.07	41506.07	41506.07	41506.07	41506.07	41506.07	41506.07	41506.07	41506.07	41506.07	41506.07
G 5.0	41576.07	41565.69	41563.20	41566.34	41568.51	41569.27	41568.51	41566.34	41563.20	41565.69	41576.07	41582.53	41570.39
G 10.0	41772.24	41770.15	41767.65	41772.87	41768.92	41751.03	41768.92	41772.87	41767.65	41770.15	41772.24	41768.57	41764.55
G 15.0	42119.57	42111.50	42112.56	42117.30	42109.68	42073.40	42109.68	42117.30	42112.56	42111.50	42119.57	42122.29	42107.37
G 20.0	42609.78	42607.50	42595.50	42601.45	42593.63	42560.81	42593.63	42601.45	42595.50	42607.50	42609.78	42599.19	42601.98
G 25.0	43252.37	43248.13	43231.42	43244.17	43239.72	43200.84	43239.72	43244.17	43231.42	43248.13	43252.37	43244.49	43243.43
G 30.0	44073.11	44071.52	44060.48	44071.10	44056.68	44003.14	44056.68	44071.10	44060.48	44071.52	44073.11	44065.10	44081.64
G 35.0	45101.45	45099.43	45070.89	45086.98	45085.72	45040.47	45085.72	45086.98	45070.89	45099.43	45101.45	45079.71	45109.24
G 40.0	46319.09	46296.65	46257.25	46270.25	46240.99	46137.58	46240.99	46270.25	46257.25	46296.65	46319.09	46307.24	46319.44
G 45.0	47733.50	47713.40	47650.28	47646.30	47625.12	47551.55	47625.12	47646.30	47650.28	47713.40	47733.50	47722.82	47795.23
G 50.0	49392.03	49301.86	49207.74	49190.50	49139.27	49011.73	49139.27	49190.50	49207.74	49301.86	49392.03	49434.20	49462.49
G 55.0	51154.94	51096.05	50968.39	50882.45	50828.67	50782.43	50828.67	50882.45	50968.39	51096.05	51154.94	51171.67	51273.84
G 60.0	52934.82	52783.79	52635.93	52554.52	52512.95	52481.34	52512.95	52554.52	52635.93	52783.79	52934.82	53046.76	53123.66
G 65.0	54515.53	54370.93	54104.55	54040.21	54016.83	53924.39	54016.83	54040.21	54104.55	54370.93	54515.53	54535.43	54733.11
G 70.0	55135.26	54897.17	54571.48	54622.46	54639.93	54504.27	54639.93	54622.46	54571.48	54897.17	55135.26	55267.21	55671.48
G 75.0	53659.48	53382.07	52779.48	52921.18	53029.89	52908.98	53029.89	52921.18	52779.48	53382.07	53659.48	53676.66	54067.08
G 80.0	46411.97	46361.48	45730.92	45543.57	45680.68	45892.73	45680.68	45543.57	45730.92	46361.48	46411.97	46207.10	46988.21
G 85.0	24621.66	25052.17	24383.78	24519.15	24885.10	24994.29	24885.10	24519.15	24383.78	25052.17	24621.66	23403.82	23583.32
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 TC-0215-BLA
Name Downlight led 6.5W dif. opal
Measurem.
Code TC-0175-BLA
Name Downlight led 6.5W dif. opal

Luminaire Flux	394.41 lm	Luminaire Power	7.00 W	Efficacy	56.34 lm/W	Efficiency 100.00%
Lamps Flux	394.41 lm	Maximum value	278.04 cd/klm	Position	C=0.00 G=0.00	CG Double Symmetrical

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

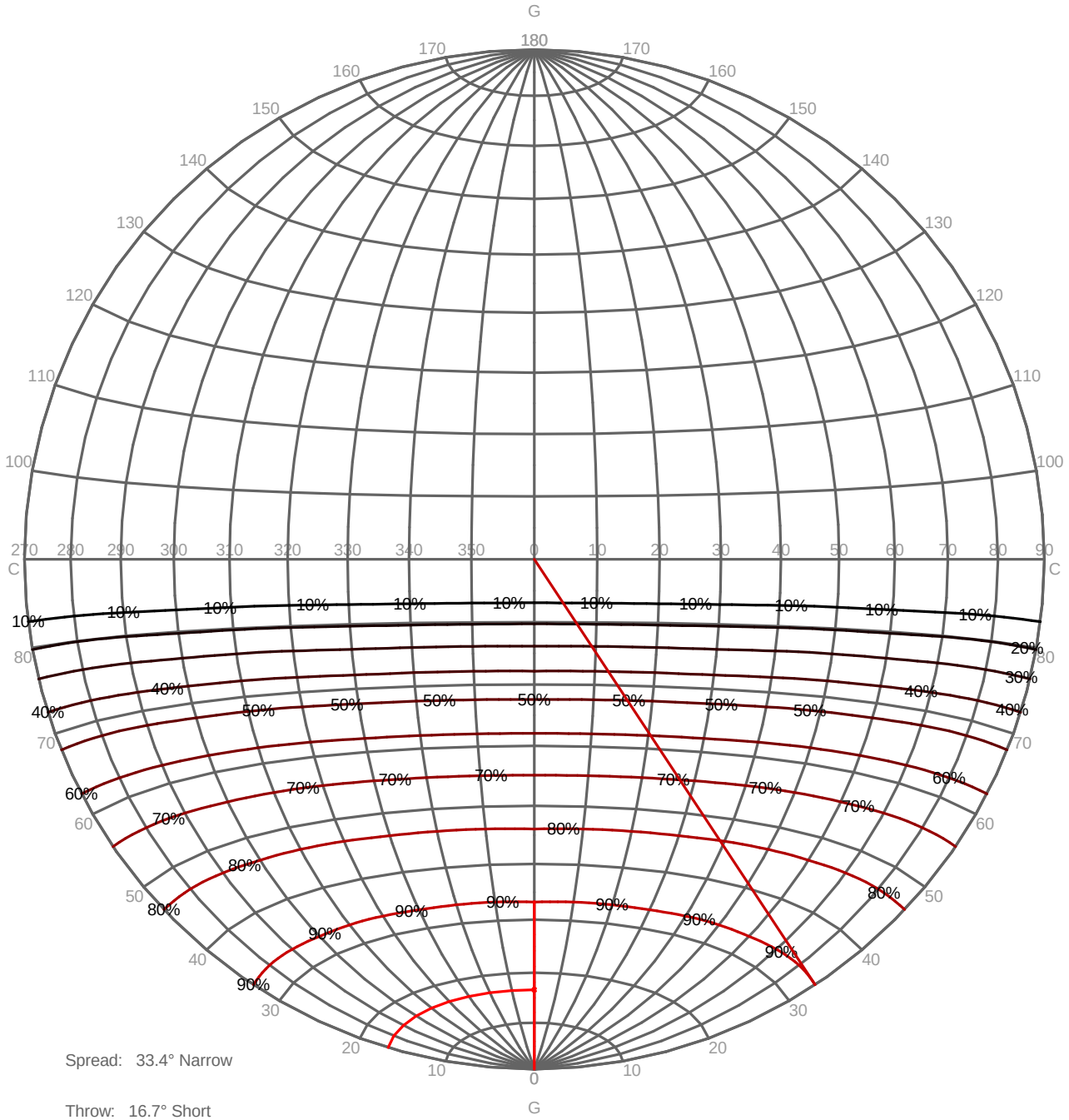
	C 260.00	C 270.00	C 280.00	C 290.00	C 300.00	C 310.00	C 320.00	C 330.00	C 340.00	C 350.00
G 0.0	41506.07	41506.07	41506.07	41506.07	41506.07	41506.07	41506.07	41506.07	41506.07	41506.07
G 5.0	41564.51	41574.49	41564.51	41570.39	41582.53	41576.07	41565.69	41563.20	41566.34	41568.51
G 10.0	41771.23	41789.19	41771.23	41764.55	41768.57	41772.24	41770.15	41767.65	41772.87	41768.92
G 15.0	42107.20	42131.55	42107.20	42107.37	42122.29	42119.57	42111.50	42112.56	42117.30	42109.68
G 20.0	42603.60	42595.98	42603.60	42601.98	42599.19	42609.78	42607.50	42595.50	42601.45	42593.63
G 25.0	43250.51	43259.32	43250.51	43243.43	43244.49	43252.37	43248.13	43231.42	43244.17	43239.72
G 30.0	44092.02	44082.35	44092.02	44081.64	44065.10	44073.11	44071.52	44060.48	44071.10	44056.68
G 35.0	45125.42	45098.87	45125.42	45109.24	45079.71	45101.45	45099.43	45070.89	45086.98	45085.72
G 40.0	46340.98	46357.34	46340.98	46319.44	46307.24	46319.09	46296.65	46257.25	46270.25	46240.99
G 45.0	47837.55	47802.11	47837.55	47795.23	47722.82	47733.50	47713.40	47650.28	47646.30	47625.12
G 50.0	49479.98	49488.37	49479.98	49462.49	49434.20	49392.03	49301.86	49207.74	49190.50	49139.27
G 55.0	51330.17	51289.43	51330.17	51273.84	51171.67	51154.94	51096.05	50968.39	50882.45	50828.67
G 60.0	53179.71	53227.29	53179.71	53123.66	53046.76	52934.82	52783.79	52635.93	52554.52	52512.95
G 65.0	54830.56	54834.12	54830.56	54733.11	54535.43	54515.53	54370.93	54104.55	54040.21	54016.83
G 70.0	55845.77	55621.57	55845.77	55671.48	55267.21	55135.26	54897.17	54571.48	54622.46	54639.93
G 75.0	54342.17	54239.56	54342.17	54067.08	53676.66	53659.48	53382.07	52779.48	52921.18	53029.89
G 80.0	47196.97	46259.16	47196.97	46988.21	46207.10	46411.97	46361.48	45730.92	45543.57	45680.68
G 85.0	23550.54	22506.55	23550.54	23583.32	23403.82	24621.66	25052.17	24383.78	24519.15	24885.10
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 TC-0215-BLA
Name Downlight led 6.5W dif. opal
Measurem.
Code TC-0175-BLA
Name Downlight led 6.5W dif. opal

Luminaire Flux	394.41 lm	Luminaire Power	7.00 W	Efficacy	56.34 lm/W	Efficiency	100.00%
Lamps Flux	394.41 lm	Maximum value	278.04 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

PERCENTAGE ISOCANDLES

Projection: Equal Area SLI (glare) 6.6 Tight Tilting Angle:0°



Spread: 33.4° Narrow

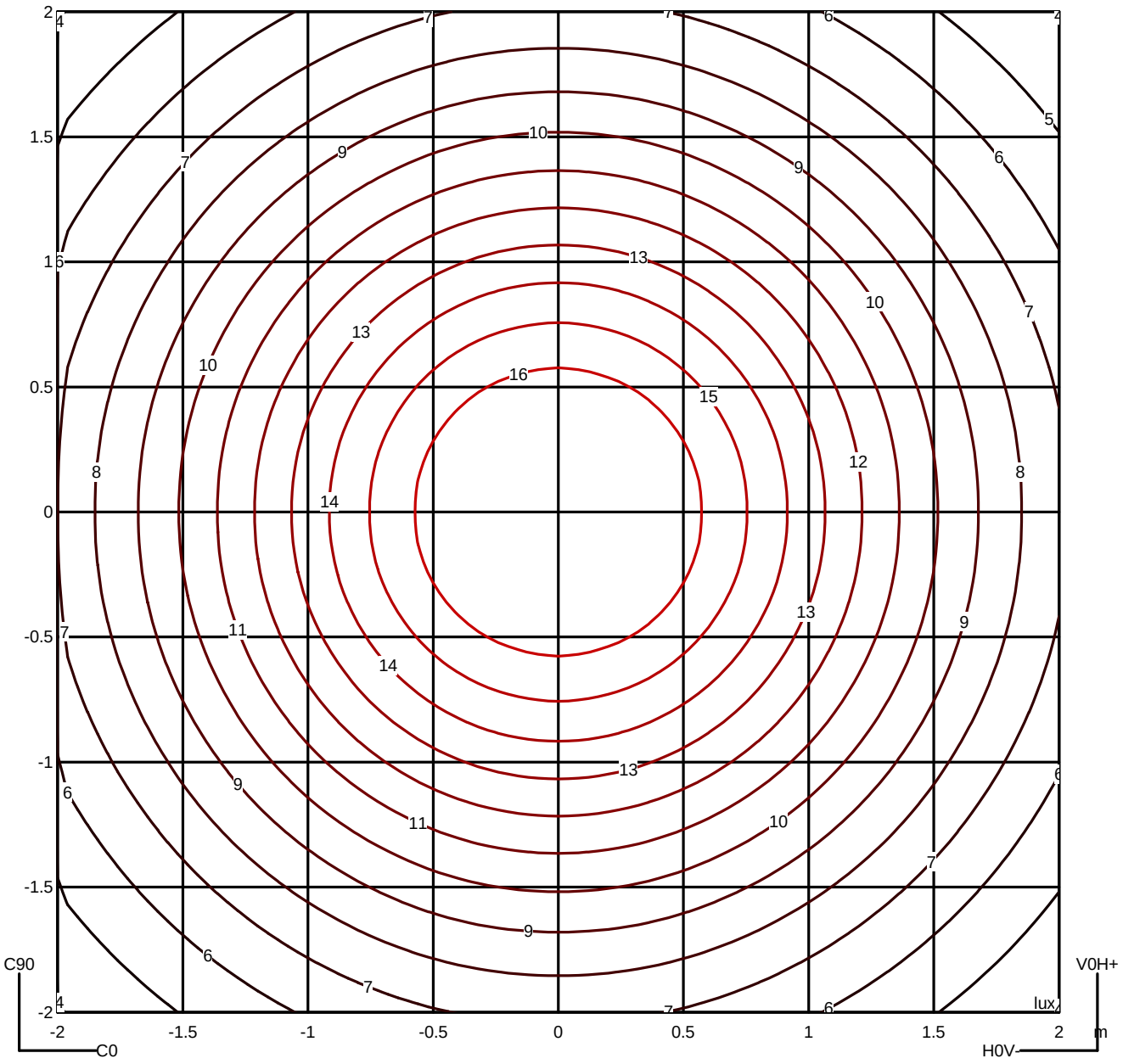
Throw: 16.7° Short

Luminaire
Code TC-0215-BLA
Name Downlight led 6.5W dif. opal
Measurem.
Code TC-0175-BLA
Name Downlight led 6.5W dif. opal

Luminaire Flux	394.41 lm	Luminaire Power	7.00 W	Efficacy	56.34 lm/W	Efficiency	100.00%
Lamps Flux	394.41 lm	Maximum value	278.04 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 TC-0215-BLA
Name Downlight led 6.5W dif. opal
Measurem.
Code TC-0175-BLA
Name Downlight led 6.5W dif. opal

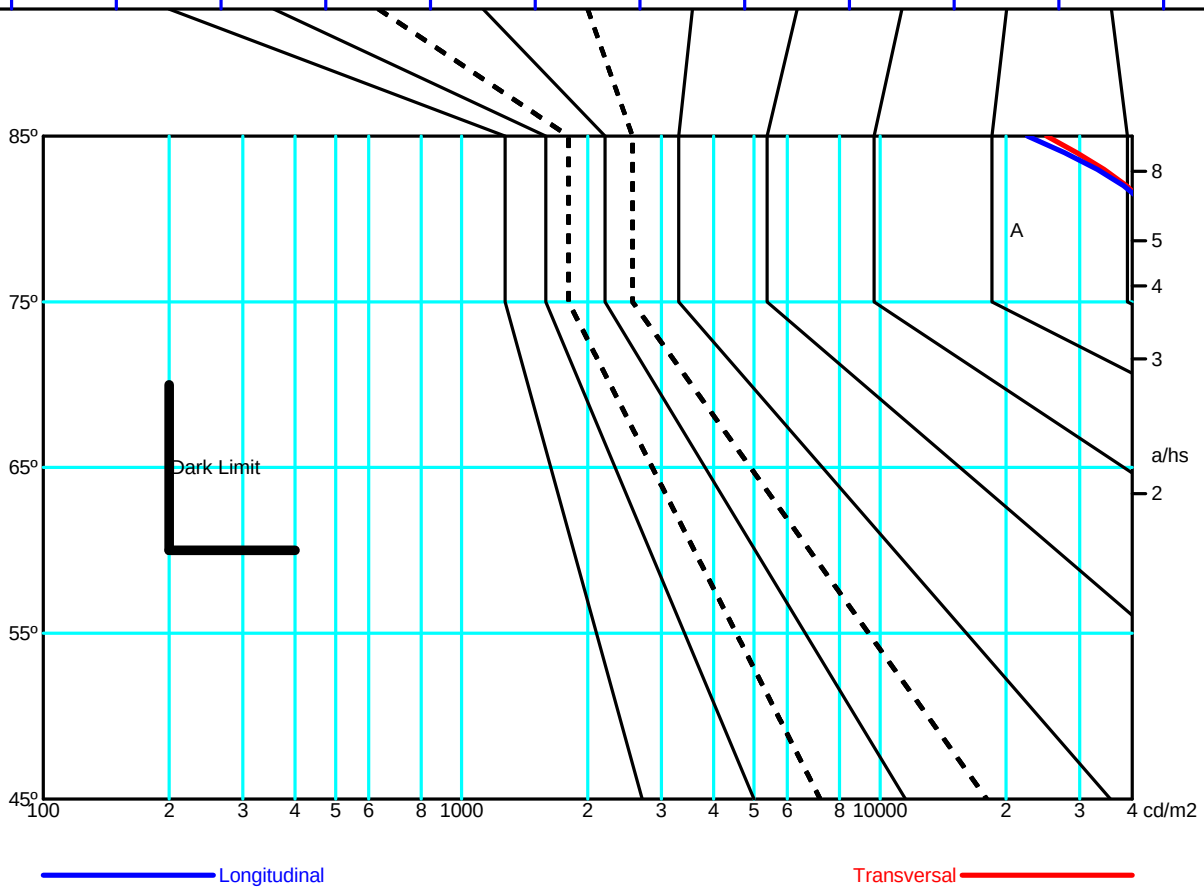
Luminaire Flux	394.41 lm	Luminaire Power	7.00 W	Efficacy	56.34 lm/W	Efficiency	100.00%
Lamps Flux	394.41 lm	Maximum value	278.04 cd/klm	Position	C=0.00 G=0.00	CG	Double Symmetrical

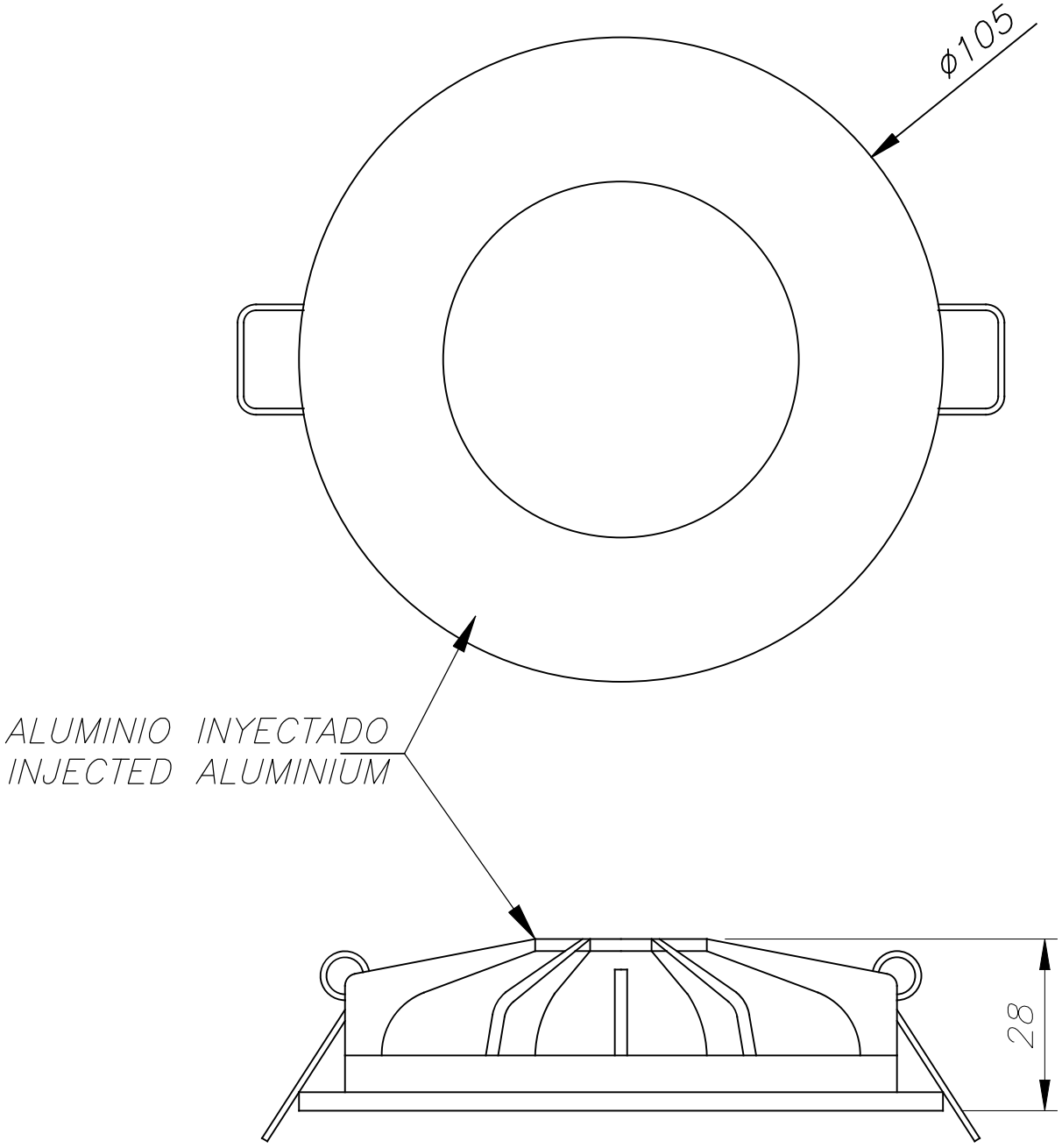
Average Luminance [cd/m²]

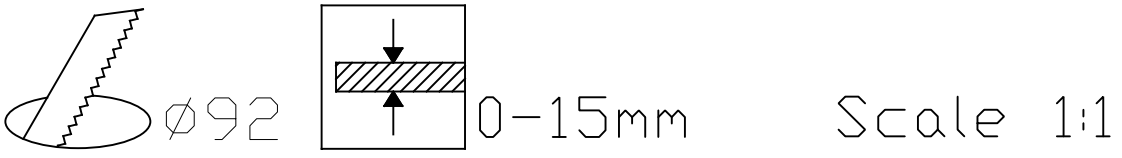
	45°	50°	55°	60°	65°	70°	75°	80°	85°	
0.0°	47552	49012	50782	52481	53924	54504	52909	45893	24994	---
90.0°	47802	49488	51289	53227	54834	55622	54240	46259	22507	---

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




ϕ105
ALUMINIO INYECTADO
INJECTED ALUMINIUM
28

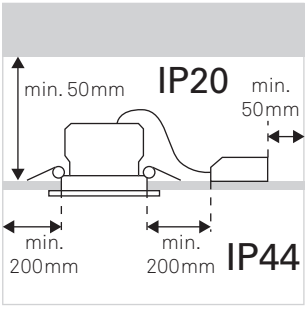

ø92
0-15mm
Scale 1:1

Hide

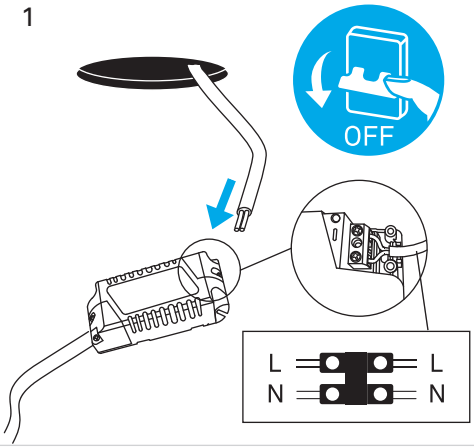
TC-0175 TC-0176 TC-0215 TC-0216



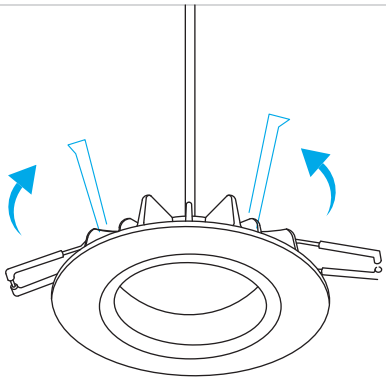




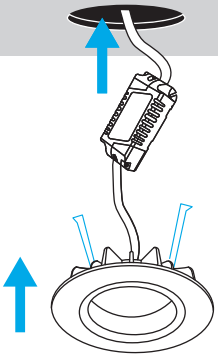
1



2



3



4

