

Leopard

THORN

LERL12ZEOPW / 96242234 LEOPARD 1200 LED2 E3 OP RD L WH L840

LED	13W LED_1200_2	EN 60598		IP65		IK10			850°C	T_a	0 +25
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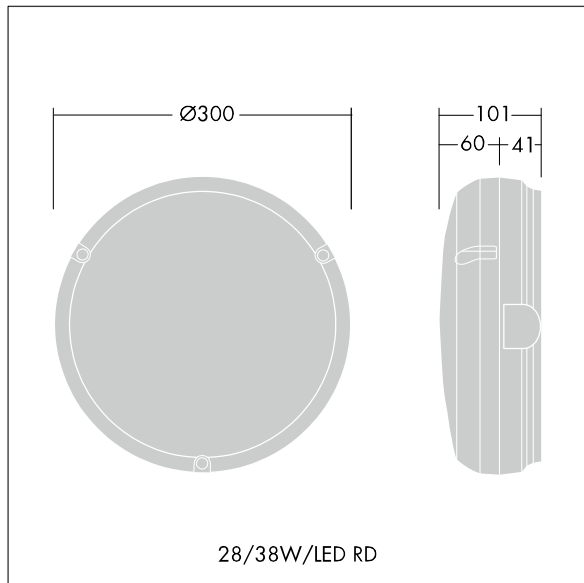
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A round bulkhead LED luminaire. Electronic, fixed output control gear with 3 hour, manual test, emergency lighting circuit. Body: white polycarbonate. Diffuser: opal polycarbonate. Class I electrical, IP65. Complete with 4000K LED

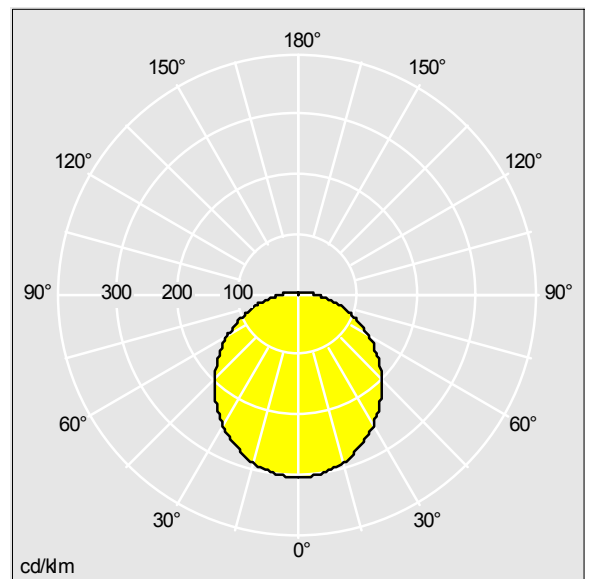
Dimensions: Ø300 x 101 mm
Total power: 13 W
Weight: 1.45 kg



TLG_LPRD_F_LRWO.jpg



28/38W/LED RD
TLG_LPRD_M_RL.wmf



TLG_SP_0041568.idt

Lamp position: STD - standard
Light Source: LED
Total luminous flux*: 1200 lm
Total emergency luminous flux: 124 lm
Lamp efficacy: 92 lm/W
Rated median useful life*: 50000h L70 at 25°C

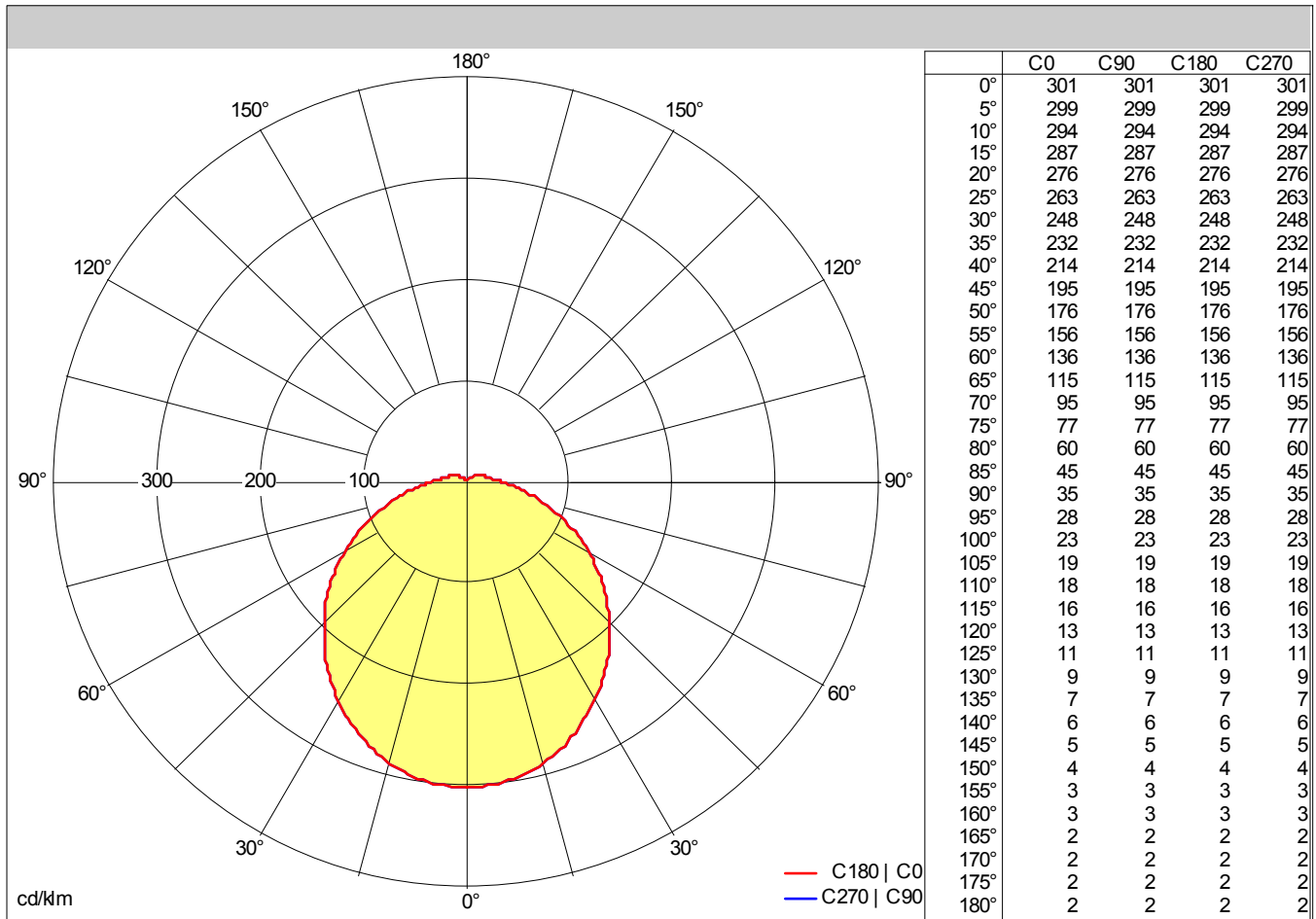
Ballast: 1x HF_ PREVAL
Luminaire input power*: 13 W
Charging power: 2 W
Dimming: Fixed output
Maintenance category: E
LOR: 1,00 ULOR: 0,09 DLOR: 0,91

All values marked with an * are rated values. Thorn uses tried and tested components from leading suppliers, however there may be isolated instances of technology-related failures of individual LEDs during the rated product lifetime. International standards set the tolerance in initial flux and connected load at $\pm 10\%$. Colour temperature is subject to a tolerance of up to ± 150 Kelvin from the nominal value. Unless stated otherwise, the values apply to an ambient temperature of 25°C.

In most products the failure of one LED point causes no functional impairment to the lighting performance of the luminaire and is therefore no reason for complaint.

Thorn Lighting is constantly developing and improving its products. The right is reserved to change specifications without prior notification or public announcement.
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Light output ratio	
LOR	100 %
ULOR	9 %
DLOR	91 %
FFR	0.10 (9:91)
BLF	1.00

Glare Evaluation	
X = 4 H, Y = 8 H	S = 1.00 H
Reflection factors	70/50/20
UGR transversal	<25
UGR axial	<25

Classification	
LiTG	A31
EN	
BZ	BZ5
UTE	0.91 E + 0.09 T
CIE Flux Codes	43 73 90 91 100

Utilization Factors									
Room Reflectance Ceiling/Walls/Floor	Room Index								
	0.75	1.00	1.25	1.50	2.00	2.50	3.00	4.00	5.00
70 / 50 / 20	53	62	69	74	81	86	90	95	98
70 / 30 / 20	44	54	61	67	75	80	84	90	94
70 / 10 / 20	38	48	55	61	69	75	80	86	90
50 / 50 / 20	50	59	65	70	77	81	85	89	92
50 / 30 / 20	43	52	59	64	71	76	80	85	89
50 / 10 / 20	37	47	54	59	66	72	76	82	86
30 / 50 / 20	48	56	62	66	73	77	80	84	87
30 / 30 / 20	41	50	56	61	68	73	76	81	84
30 / 10 / 20	37	45	52	57	64	69	73	78	81
0 / 0 / 0	34	42	48	52	59	64	67	72	75

According to CIBSE Technical Memorandum No. 5 1980

SHR Nom =	1.25
SHR Max =	1.45
SHR Max TR =	1.76

Photometric data file: TLG_SP_0041568.ltd