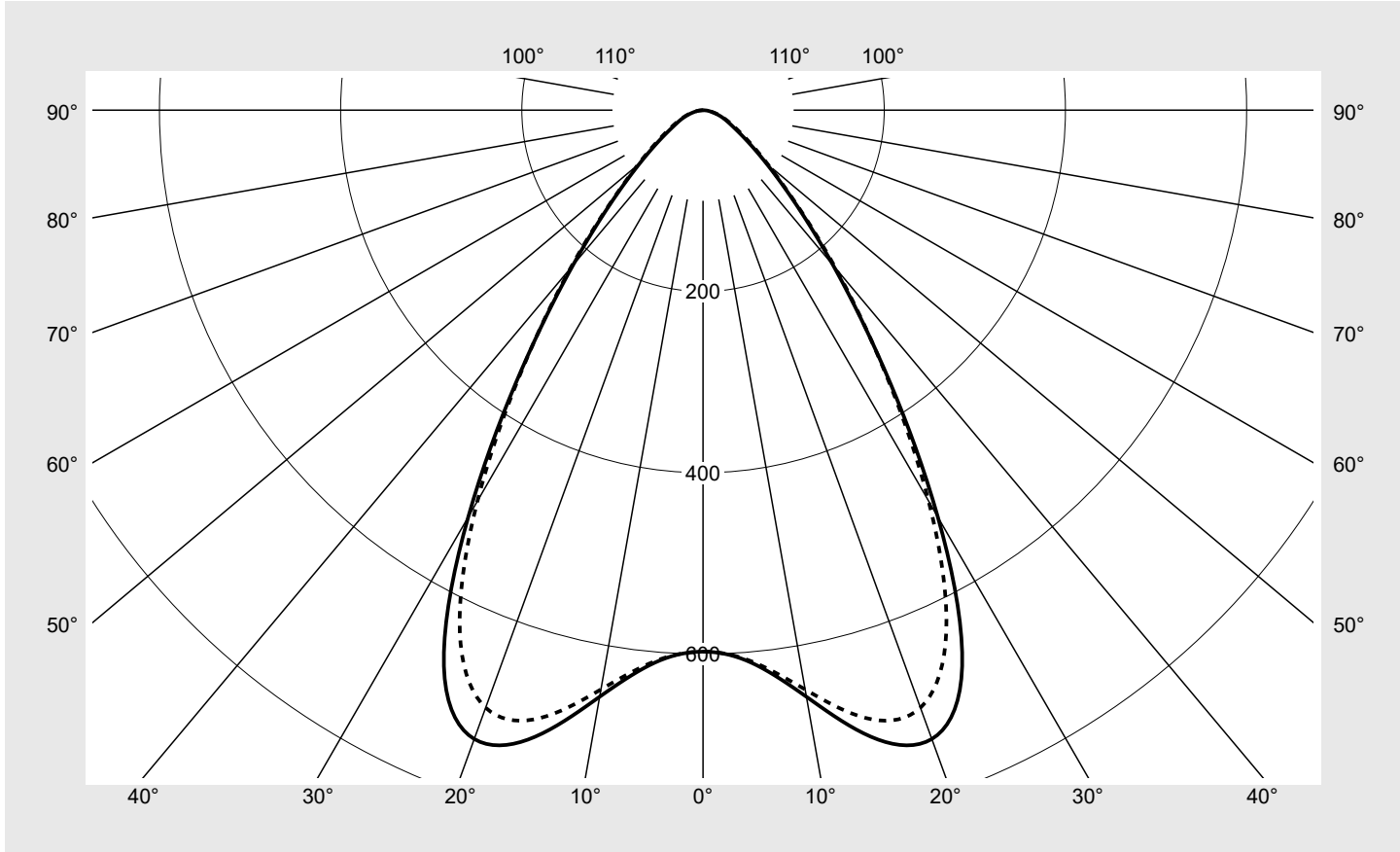


# Photometric test report

<b>Family</b> <b>Scriptus®</b>	<b>Order number: 5MZ312LEDZM00191XX</b> <b>EAN: 4058352535011</b>	<b>LP number</b> <b>59228_1</b>
	<b>Version</b> recessed luminaire for lay-in mounting, MLA-optic, wide distribution, UGR≤19 (L65≤3000cd/m²)	<b>serial</b> <b>documentation</b> <b>17.11.2021</b>
	<b>Lamps</b> LED 4000 K   CRI ≥ 80	
	<b>Controlgear</b> ECG-DALI	
	<b>Rated values</b> Net luminous flux = 6400 lm Power consumption = 43.0 W Luminous efficacy = 148.8 lm/W	

**Luminous intensity in cd/klm**    C180-0    C270-90    **Imax: 738 cd/klm**



Classifications	
DIN 5040	A 6 0
CIE	N1=80 N2=95 N3=99 N4=100 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	100.0%
$\phi_o$	0.0%

**Measurement conditions**  
 DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity
		<b>siteco</b>

C-planes $\gamma$	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-zone	Total Phi-zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
Luminous intensity in cd/klm								Luminous flux in lm/klm	
0°	597.5	597.5	597.5	597.5	597.5	597.5	597.5	3.6	3.6
5°	611.9	611.8	612.8	613.3	611.8	610.1	610.4	29.2	32.8
10°	657.2	656.1	656.2	654.1	651.6	648.4	649.0	62.2	95.0
15°	715.7	713.2	711.0	704.8	698.7	692.5	694.3	99.9	194.9
20°	738.3	733.5	734.5	727.2	715.9	701.6	701.6	135.4	330.3
25°	676.8	672.2	675.8	667.0	657.8	636.1	635.3	153.1	483.3
30°	518.3	511.9	518.2	517.5	512.2	496.0	498.0	140.0	623.3
35°	348.7	345.1	354.6	358.8	355.7	343.2	346.2	110.3	733.6
40°	223.4	223.7	230.0	235.6	232.7	226.4	227.7	80.7	814.3
45°	141.6	141.4	143.8	148.6	148.5	145.9	143.9	56.3	870.5
50°	90.9	90.7	91.8	94.3	96.2	95.5	94.0	39.3	909.8
55°	59.8	60.5	61.9	62.9	63.8	64.7	64.0	28.1	937.9
60°	40.8	41.9	42.7	44.0	44.2	44.7	44.6	20.6	958.5
65°	29.8	29.9	30.4	31.2	31.9	31.9	32.1	15.4	973.9
70°	21.6	21.4	22.6	22.7	22.9	22.8	22.8	11.6	985.5
75°	14.0	14.9	15.6	15.6	15.2	15.4	15.4	8.1	993.5
80°	8.1	8.5	8.5	8.6	8.4	8.5	8.5	4.6	998.1
85°	3.5	3.5	3.4	3.4	3.5	3.5	3.4	1.9	1000.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0

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<b>UGR-Table</b>	<b>Standard room</b>	<b>siteco</b>
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Reflection factor of ceiling	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3	
Reflection factor of walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3	
Reflection factor of floor	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
Room dimensions	View crosswise (C0)					View endwise (C90)					
x	y										
2H	2H	15.9	17.2	16.2	17.5	17.9	16.0	17.4	16.4	17.7	18.0
	3H	16.3	17.4	16.6	17.8	18.1	16.5	17.6	16.8	18.0	18.3
	4H	16.4	17.5	16.8	17.9	18.3	16.6	17.7	17.0	18.1	18.5
	6H	16.5	17.5	16.9	17.9	18.3	16.8	17.8	17.2	18.1	18.5
	8H	16.7	17.5	17.1	17.9	18.3	16.9	17.8	17.3	18.1	18.5
	12H	16.7	17.5	17.1	17.9	18.3	16.9	17.7	17.3	18.1	18.5
4H	2H	16.0	17.1	16.4	17.5	17.8	16.2	17.3	16.6	17.6	18.0
	3H	16.5	17.5	17.0	17.9	18.3	16.7	17.6	17.2	18.0	18.4
	4H	16.8	17.6	17.2	18.0	18.5	17.0	17.8	17.4	18.2	18.7
	6H	17.0	17.7	17.5	18.1	18.6	17.2	17.9	17.6	18.3	18.8
	8H	17.1	17.7	17.5	18.1	18.6	17.3	17.9	17.7	18.3	18.8
	12H	17.1	17.7	17.6	18.1	18.6	17.3	17.8	17.8	18.3	18.8
8H	4H	16.9	17.5	17.4	18.0	18.5	17.1	17.7	17.5	18.1	18.6
	6H	17.2	17.7	17.7	18.1	18.7	17.3	17.8	17.8	18.3	18.8
	8H	17.2	17.7	17.8	18.2	18.7	17.4	17.9	17.9	18.4	18.9
	12H	17.3	17.7	17.9	18.2	18.8	17.5	17.9	18.0	18.4	18.9
12H	4H	16.9	17.4	17.4	17.9	18.4	17.1	17.6	17.6	18.1	18.6
	6H	17.2	17.6	17.7	18.1	18.6	17.4	17.8	17.9	18.3	18.8
	8H	17.3	17.7	17.8	18.2	18.7	17.5	17.8	18.0	18.3	18.9

<b>Luminance table</b>	<b>Max. for <math>\gamma \geq 65^\circ</math></b>	<b>Photometric dimensions in mm:</b>	<b>L = 425</b> <b>B = 425</b>
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C-planes	$\gamma$	Luminance in cd/m <sup>2</sup>							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
45°		7093.3	7083.8	7204.0	7447.0	7441.6	7312.0	7212.1	
50°		5008.0	4999.1	5063.0	5198.1	5300.6	5263.4	5183.2	
55°		3695.2	3734.3	3826.3	3883.3	3944.1	3999.0	3955.3	
60°		2889.5	2972.4	3028.7	3115.8	3130.9	3167.0	3163.3	
65°		2498.4	2507.6	2546.2	2614.6	2674.1	2672.9	2694.9	
70°		2241.9	2218.4	2340.2	2354.1	2369.2	2364.7	2366.9	
75°		1920.2	2039.0	2136.7	2138.3	2080.6	2105.8	2109.8	
80°		1659.1	1729.5	1725.6	1757.1	1712.0	1735.6	1727.3	
85°		1439.2	1427.4	1399.7	1397.7	1415.2	1420.5	1397.7	

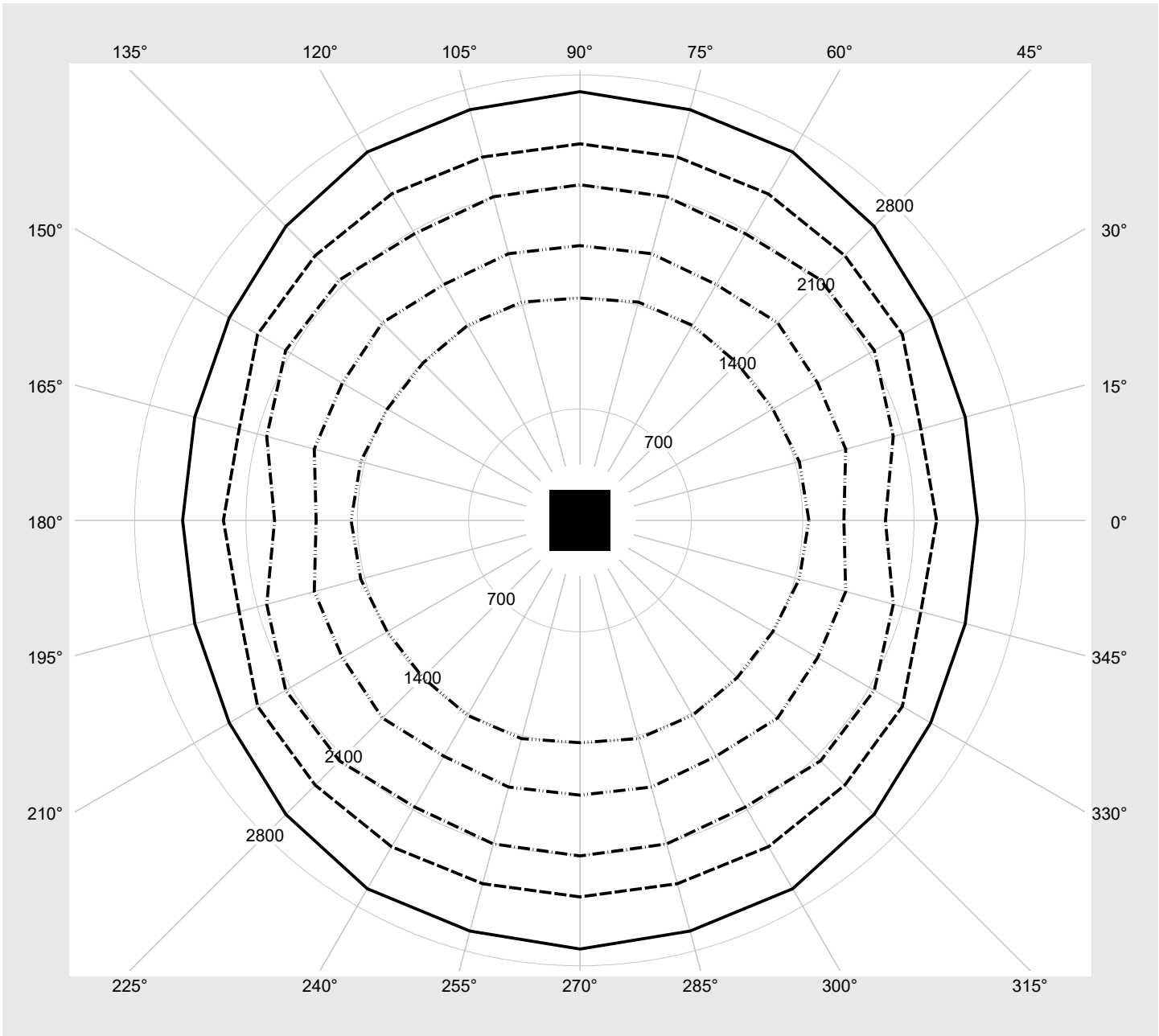
**Photometric test report**

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**Luminance values in cd/m<sup>2</sup>**

$\gamma$  65°    
   $\gamma$  70°    
   $\gamma$  75°    
   $\gamma$  80°    
   $\gamma$  85°

**siteco**



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<b>Dimming levels table</b>	environmental temperature: 25°C	<b>sITeco</b>
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Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	6400	43.0
95	240	252	6075	40.7
90	227	250	5771	38.5
85	213	248	5438	36.1
80	200	245	5130	34.0
75	186	243	4796	31.7
70	173	240	4482	29.5
65	160	237	4168	27.4
60	147	234	3848	25.2
55	134	231	3530	23.1
50	121	227	3208	21.1
45	108	223	2885	19.0
40	95	218	2560	17.0
35	82	213	2230	14.9
30	70	207	1925	12.9
25	57	199	1595	10.9
20	45	191	1287	9.0
15	32	178	951	6.9
10	20	161	638	5.0
5	8	127	324	3.2
4	5	110	246	2.7