
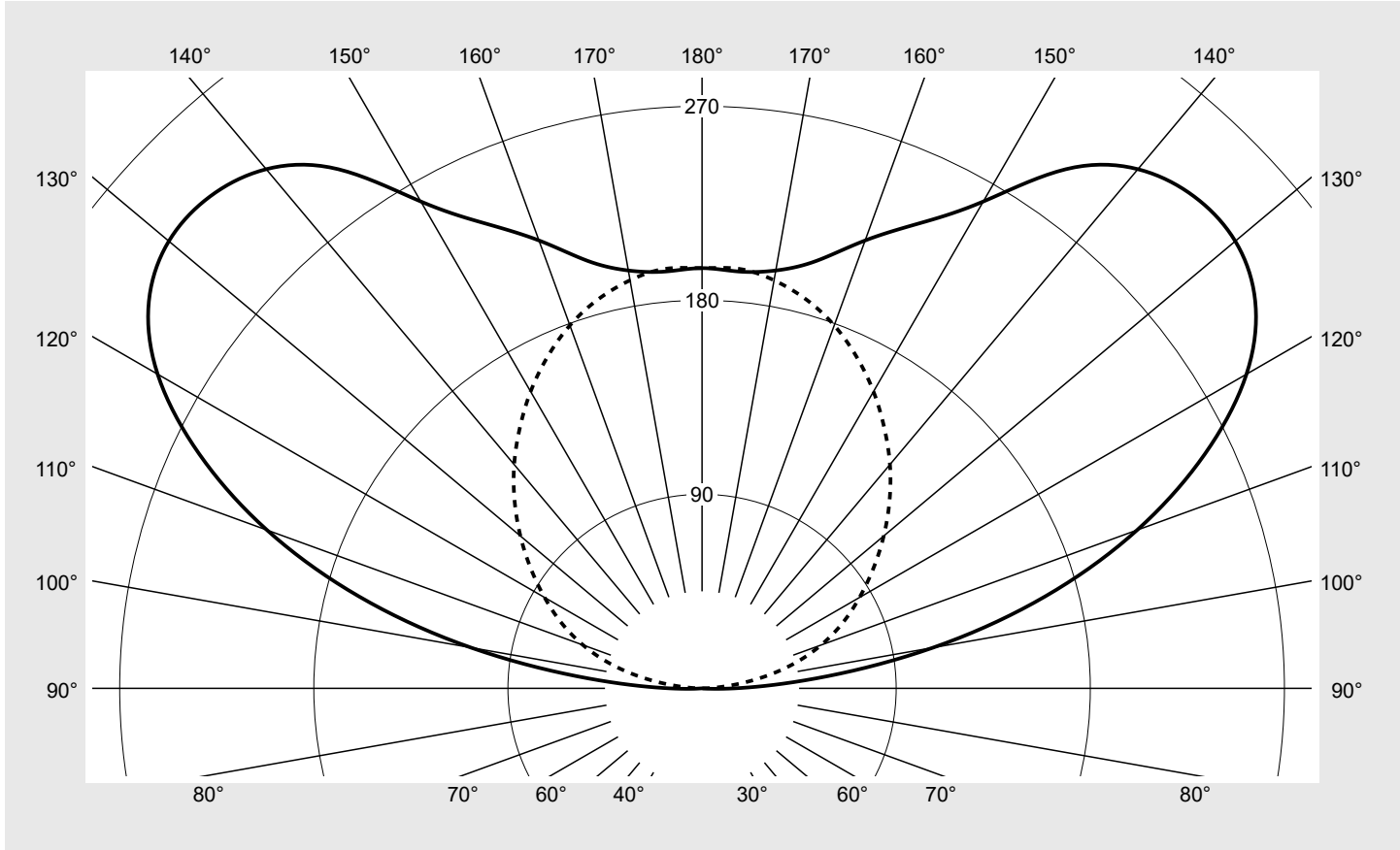


# Photometric test report

<b>Family</b> <b>Silica®</b> 	<b>Order number: 5MX31BD1E4A</b> <b>EAN: 4058352305430</b>	<b>LP number</b> <b>58830_14</b>
	<b>Version</b> Suspended luminaire, Combined lens and reflector optics, frosted cover, direct-/ indirect distribution, UGR≤19 (L65≤3000cd/m²)	<b>serial documentation</b> <b>07.10.2020</b>
<b>Lamps</b> LED 4000 K   CRI ≥ 80		
<b>Controlgear</b> ECG-DALI		
<b>Setting</b> individual position: only indirect light		
<b>Rated values</b> Net luminous flux = 2120 lm Power consumption = 16.3 W Luminous efficacy = 130.1 lm/W		



**Luminous intensity in cd/klm** C180-0 C270-90 **Imax: 323 cd/klm**



Classifications	
DIN 5040	E 1 2
CIE	N1=0 N2=0 N3=0 N4=0 N5=100

Luminaire light output ratios	
$\eta_{LB}$	100.0%
$\phi_u$	0.3%
$\phi_o$	99.7%

Measurement conditions
DIN EN 13032 and DIN 5032

## Photometric test report

Family <b>Silica®</b>	Order number: <b>5MX31BD1E4A</b> EAN: <b>4058352305430</b>	LP number <b>58830_14</b>
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°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	15.1	14.8	14.6	12.0	6.8	2.2	0.8	5.3	5.3
95°	53.0	54.0	55.4	46.4	27.1	15.5	10.9	21.0	26.3
100°	108.8	111.8	111.5	88.6	52.7	36.3	27.2	42.2	68.5
105°	164.7	168.8	165.6	135.6	82.6	55.1	44.0	62.8	131.3
110°	214.7	220.5	214.2	174.0	105.9	71.2	58.7	79.2	210.5
115°	257.2	260.6	253.5	200.0	120.5	85.9	72.0	89.8	300.3
120°	291.5	293.0	281.6	209.8	129.2	98.9	84.3	95.0	395.3
125°	313.1	312.2	292.1	207.5	137.9	110.1	96.9	94.7	490.0
130°	322.7	317.9	284.6	200.3	147.9	120.5	109.9	90.1	580.1
135°	322.7	313.7	272.6	196.2	157.5	130.7	122.9	83.6	663.6
140°	314.4	303.1	255.4	196.2	164.8	140.7	135.5	75.5	739.1
145°	294.0	280.3	236.6	198.5	171.7	150.6	147.3	65.9	805.0
150°	260.8	250.7	224.9	198.7	174.4	160.2	159.0	55.7	860.7
155°	238.0	232.8	216.2	198.2	177.8	169.3	169.6	46.3	906.9
160°	221.1	218.2	207.4	192.8	182.8	178.2	179.2	36.9	943.8
165°	205.3	203.3	196.6	191.5	186.8	185.5	186.7	27.4	971.2
170°	196.8	196.1	192.9	191.2	190.8	191.2	192.2	18.4	989.6
175°	194.1	193.9	192.3	193.0	193.7	195.0	195.4	9.3	998.8
180°	194.9	194.9	194.9	194.9	194.9	194.9	194.9	1.2	1000.0

### Photometric test report

Family <b>Silica®</b>	Order number: <b>5MX31BD1E4A</b> EAN: <b>4058352305430</b>	LP number <b>58830_14</b>
UGR-Table	Standard room	<b>siteco</b>

The UGR formula for this luminaire type cannot be used, see LiTG Publication 20:  
 "The UGR - Process for Evaluation of Direct Glare of Artificial Lighting in Indoor Rooms"

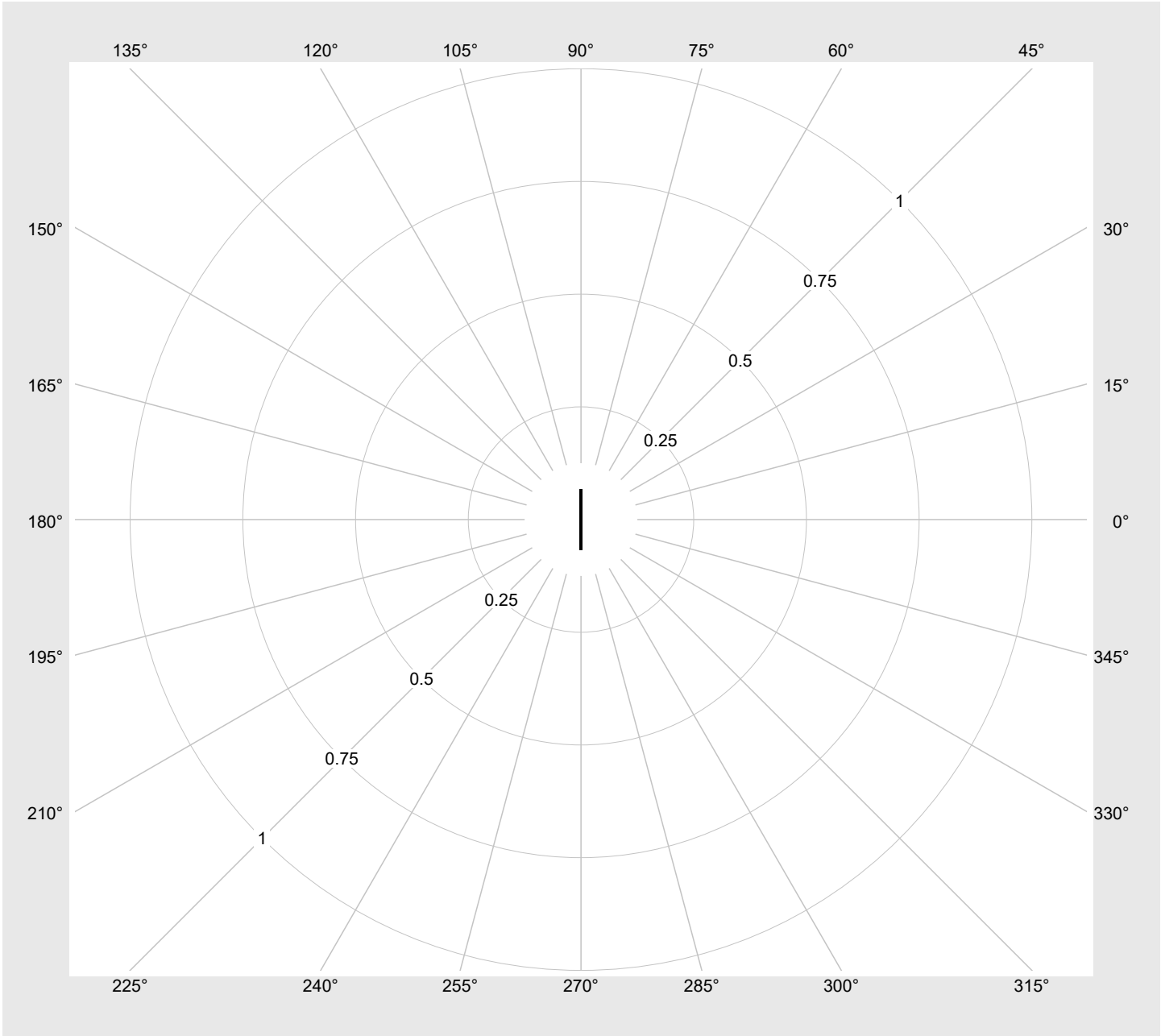
Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 1430 B = 61
-----------------	---------------------------------	-------------------------------	--------------------

C-planes	$\gamma$	0°	15°	30°	45°	60°	75°	90°
		180°	165°	150°	135°	120°	105°	270°
		195°	210°	225°	240°	255°	285°	
		345°	330°	315°	300°	285°	270°	
		Luminance in cd/m <sup>2</sup>						
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

**Photometric test report**

<b>Family</b> <b>Silica®</b>	<b>Order number: 5MX31BD1E4A</b> <b>EAN: 4058352305430</b>	<b>LP number</b> <b>58830_14</b>
---------------------------------	---	-------------------------------------

**Luminance values in cd/m<sup>2</sup>**       $\gamma$  65°      $\gamma$  70°      $\gamma$  75°      $\gamma$  80°      $\gamma$  85°



## Photometric test report

Family <b>Silica®</b>	Order number: <b>5MX31BD1E4A</b> EAN: <b>4058352305430</b>	LP number <b>58830_14</b>
--------------------------	---	------------------------------

<b>Dimming levels table</b>	environmental temperature: 25°C	<b>siteco</b>
-----------------------------	---------------------------------	---------------

Luminous flux %	Dimming level linear	Dimming level logarithmic	Luminous flux [lm]	Power consumption [W]
100	254	254	2120	16.3
95	242	252	2015	15.4
90	228	250	1907	14.6
85	214	248	1800	13.7
80	200	245	1692	12.8
75	188	243	1587	12.0
70	175	240	1488	11.2
65	162	238	1375	10.4
60	149	234	1275	9.6
55	136	231	1162	8.8
50	123	227	1062	8.0
45	111	224	958	7.2
40	97	219	850	6.4
35	85	214	745	5.7
30	73	208	640	4.9
25	60	201	526	4.2
20	47	192	427	3.5
15	35	181	322	2.8
10	22	164	208	2.1
6	13	145	124	1.6