

Photometric test report

Family
Modario® LED

Order number: 5TR21471V4050
EAN: 4050737970752

LP number
55228_6



Version aluminium reflector, direct, asymmetric distribution, cover, frosted

Lamps LED 4000K / CRI ≥ 80
Net luminous flux = 5200 lm

Electr. supply ECG
Power consumption = 47.2 W
Luminous efficacy = 110.2 lm/W

serial documentation
04.12.2015

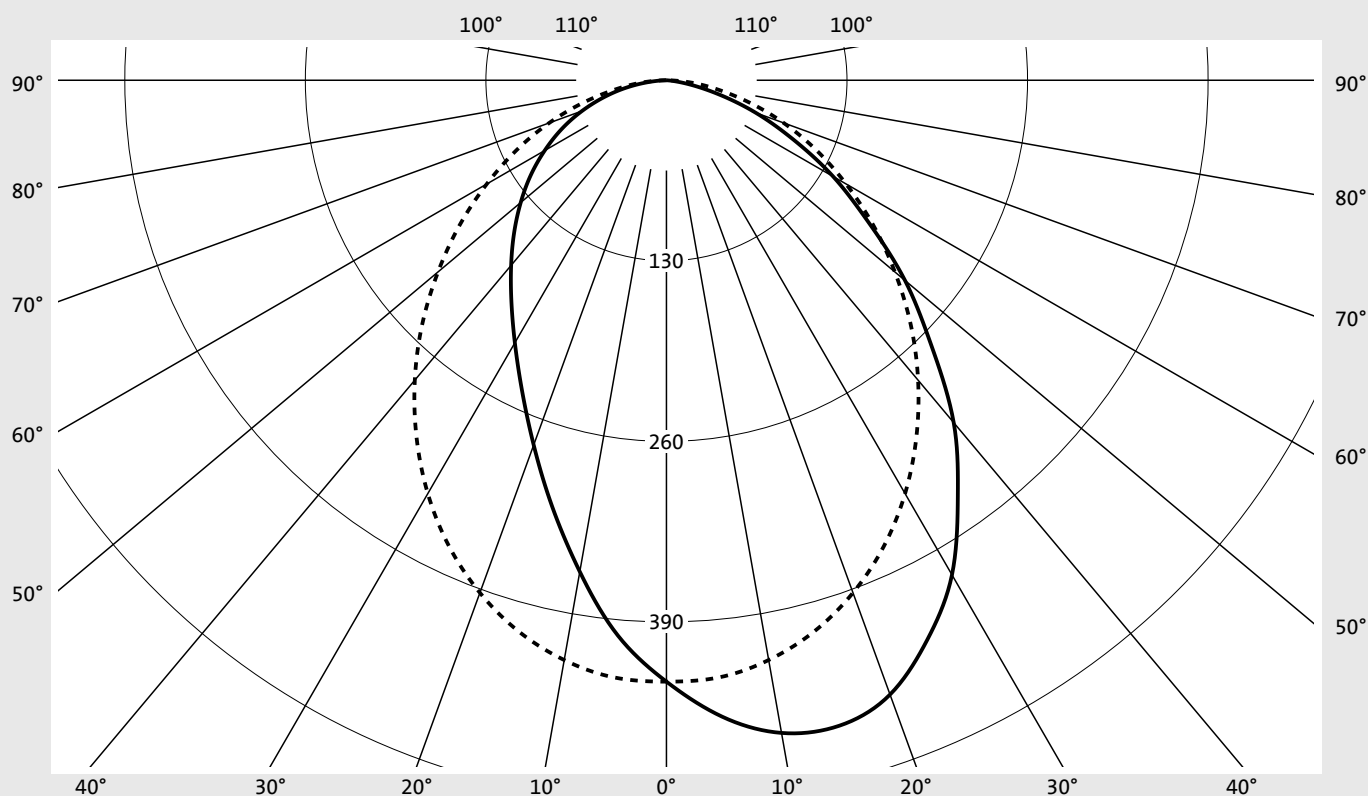
siteco

Luminous intensity in cd/klm

C180-0

C270-90

Imax: 482 cd/klm



Classifications

DIN 5040 A 4 0
CIE N1=53 N2=83 N3=97
N4=100 N5=100

Luminaire light output ratios

η_{LB} 100.0%
 ϕ_u 100.0%
 ϕ_o 0.0%

Measurement conditions

DIN EN 13032 and DIN 5032

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Table of values for luminous intensities		Maximum luminous intensity
siteco		

C-planes	0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°
γ	Luminous intensity in cd/klm						
0°	433.0	433.0	433.0	433.0	433.0	433.0	433.0
5°	460.0	460.5	454.8	452.1	447.3	439.5	431.6
10°	477.2	478.7	470.1	463.9	453.9	439.7	423.9
15°	481.1	482.4	473.2	465.3	452.5	433.0	410.9
20°	470.7	471.8	463.1	455.7	441.9	419.9	392.7
25°	444.5	448.1	440.9	435.3	422.9	400.0	370.3
30°	411.2	413.2	408.8	405.8	396.0	374.2	343.6
35°	365.8	371.3	369.6	369.2	362.4	343.1	313.7
40°	321.8	324.0	325.9	327.6	324.0	308.4	281.9
45°	269.6	276.4	279.6	283.9	283.4	271.0	248.7
50°	224.2	226.3	233.4	240.1	242.3	232.8	214.7
55°	177.0	182.2	189.0	197.5	202.3	195.9	181.7
60°	138.6	140.2	147.5	156.5	163.2	160.1	149.4
65°	100.5	105.0	110.9	119.3	127.1	127.0	119.1
70°	68.4	71.0	76.5	84.5	92.0	94.8	89.8
75°	38.6	41.6	45.6	52.9	59.6	63.7	61.6
80°	16.2	16.5	20.2	25.8	31.8	35.8	36.6
85°	2.8	2.9	3.2	5.8	10.3	14.5	16.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
100°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
110°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
120°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
130°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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Table of values for luminous intensities		Maximum luminous intensity
sITeco		

C-planes	105° 255°	120° 240°	135° 225°	150° 210°	165° 195°	180°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm						Luminous flux in lm/klm	
0°	433.0	433.0	433.0	433.0	433.0	433.0	2.6	2.6
5°	422.9	415.0	406.0	398.9	398.1	401.3	20.5	23.1
10°	406.7	390.5	374.7	362.3	357.7	359.3	40.0	63.1
15°	386.4	363.0	341.2	325.0	317.8	317.8	57.3	120.4
20°	362.4	333.6	307.8	289.2	280.5	279.5	71.8	192.2
25°	335.7	303.7	276.1	256.8	247.6	246.2	82.7	274.9
30°	307.3	274.3	246.6	228.3	219.7	218.3	89.8	364.7
35°	278.1	245.6	219.7	203.6	195.8	194.6	93.1	457.8
40°	248.2	218.0	195.0	181.4	174.9	174.0	92.7	550.5
45°	218.1	191.5	172.2	161.1	155.7	155.1	89.0	639.4
50°	188.3	166.2	150.5	141.8	137.3	137.0	82.4	721.8
55°	160.0	142.3	129.9	123.3	119.5	119.3	73.8	795.6
60°	132.5	118.8	109.4	104.4	101.4	101.2	63.4	859.0
65°	107.0	97.0	89.7	85.9	83.7	83.3	52.3	911.3
70°	81.6	74.7	69.7	66.6	65.4	64.7	40.1	951.4
75°	56.9	52.7	49.6	47.4	46.6	46.0	27.4	978.8
80°	34.3	32.3	30.6	29.4	28.3	27.8	15.5	994.2
85°	16.1	15.4	13.1	11.4	10.7	10.4	5.8	1000.0
90°	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	1000.0
100°	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	1000.0
110°	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	1000.0
120°	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	1000.0
130°	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	1000.0
140°	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	1000.0
150°	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	1000.0
160°	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	1000.0
170°	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	1000.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0

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UGR-Table		Standard room									
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	22.2	23.8	22.6	24.1	24.5	21.9	23.5	22.3	23.9	24.2
	3H	23.2	24.6	23.5	25.0	25.3	23.4	24.9	23.8	25.2	25.6
	4H	23.4	24.8	23.8	25.2	25.5	24.0	25.4	24.4	25.7	26.1
	6H	23.5	24.8	24.0	25.2	25.6	24.4	25.7	24.8	26.1	26.4
	8H	23.6	24.8	24.0	25.1	25.5	24.6	25.8	25.0	26.2	26.6
	12H	23.6	24.7	24.0	25.1	25.5	24.7	25.8	25.2	26.2	26.6
4H	2H	22.9	24.3	23.3	24.6	25.0	22.5	23.9	22.9	24.2	24.6
	3H	24.0	25.2	24.4	25.6	26.0	24.2	25.3	24.6	25.7	26.1
	4H	24.4	25.4	24.8	25.8	26.2	24.9	25.9	25.3	26.3	26.7
	6H	24.5	25.4	25.0	25.9	26.3	25.4	26.3	25.9	26.7	27.2
	8H	24.5	25.4	25.0	25.8	26.3	25.6	26.4	26.1	26.9	27.4
	12H	24.5	25.3	25.0	25.7	26.2	25.8	26.5	26.3	27.0	27.5
8H	4H	24.6	25.5	25.1	25.9	26.4	25.1	25.9	25.5	26.3	26.8
	6H	24.8	25.5	25.3	26.0	26.5	25.7	26.4	26.2	26.9	27.4
	8H	24.9	25.5	25.4	26.0	26.5	26.0	26.6	26.5	27.1	27.6
	12H	24.9	25.4	25.4	25.9	26.4	26.2	26.7	26.7	27.2	27.7
12H	4H	24.7	25.4	25.2	25.9	26.4	25.1	25.8	25.6	26.3	26.8
	6H	24.9	25.5	25.4	26.0	26.5	25.8	26.3	26.3	26.8	27.3
	8H	24.9	25.4	25.4	25.9	26.5	26.0	26.5	26.6	27.0	27.6

Luminance table		Max. for $\gamma \geq 65^\circ$											Photometric dimensions in mm:		L = 1495 B = 70		
C-planes	0°	15° 345°	30° 330°	45° 315°	60° 300°	75° 285°	90° 270°	105° 255°	120° 240°	135° 225°	150° 210°	165° 195°	180°				
γ	Luminance in cd/m ²																
45°	18946.0	19421.6	19649.5	19946.8	19917.0	19045.1	17479.5	15325.2	13457.4	12101.9	11321.0	10944.5	10897.9				
50°	17331.8	17495.3	18040.4	18563.6	18727.0	17996.8	16596.0	14557.6	12850.6	11637.4	10960.5	10617.1	10588.7				
55°	15330.9	15784.1	16372.9	17111.9	17521.2	16967.8	15742.6	13858.9	12328.3	11249.5	10677.9	10356.6	10337.1				
60°	13772.4	13936.4	14662.3	15547.9	16223.4	15909.5	14844.4	13169.8	11806.3	10871.7	10378.3	10078.4	10058.8				
65°	11821.0	12346.6	13044.6	14021.1	14944.6	14926.4	14007.9	12578.7	11406.6	10551.1	10098.4	9836.5	9798.4				
70°	9935.9	10314.9	11117.9	12281.6	13367.3	13766.8	13041.5	11859.5	10853.6	10122.2	9679.7	9497.4	9399.2				
75°	7407.0	7988.9	8763.2	10162.7	11437.9	12236.4	11827.6	10926.3	10116.9	9513.1	9101.6	8941.9	8825.4				
80°	4624.2	4708.9	5769.9	7376.1	9086.7	10257.0	10458.8	9809.2	9256.4	8763.9	8413.1	8098.3	7949.0				
85°	1575.8	1664.2	1840.9	3287.9	5868.8	8240.0	9438.4	9189.2	8787.3	7452.6	6511.9	6102.0	5933.3				

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LP number
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Luminance values in cd/m²

$\gamma 65^\circ$
 $\gamma 70^\circ$
 $\gamma 75^\circ$
 $\gamma 80^\circ$
 $\gamma 85^\circ$

