Photometric test report

Family
Siluette® 21

Order number: 51LN12MNM70A3G
EAN: 4058352011645

LP number
59582_23

serial documentation
14.03.2024

Version	surface-mounted luminaire, white, diffuser, PMMA, opal, with homogeneous illumination, extremely wide distribution, adjustable color temperature: 3000K | 4000K | 5000K, emergency light element 3h operating duration
Lamps	LED 3000 K | CRI ≥ 80
Controlgear	ECG Multilumen
Setting	individual position: colour temperature 3000K
Rated values	Net luminous flux = 6630 lm Power consumption = 49.8 W Luminous efficacy = 133.1 lm/W

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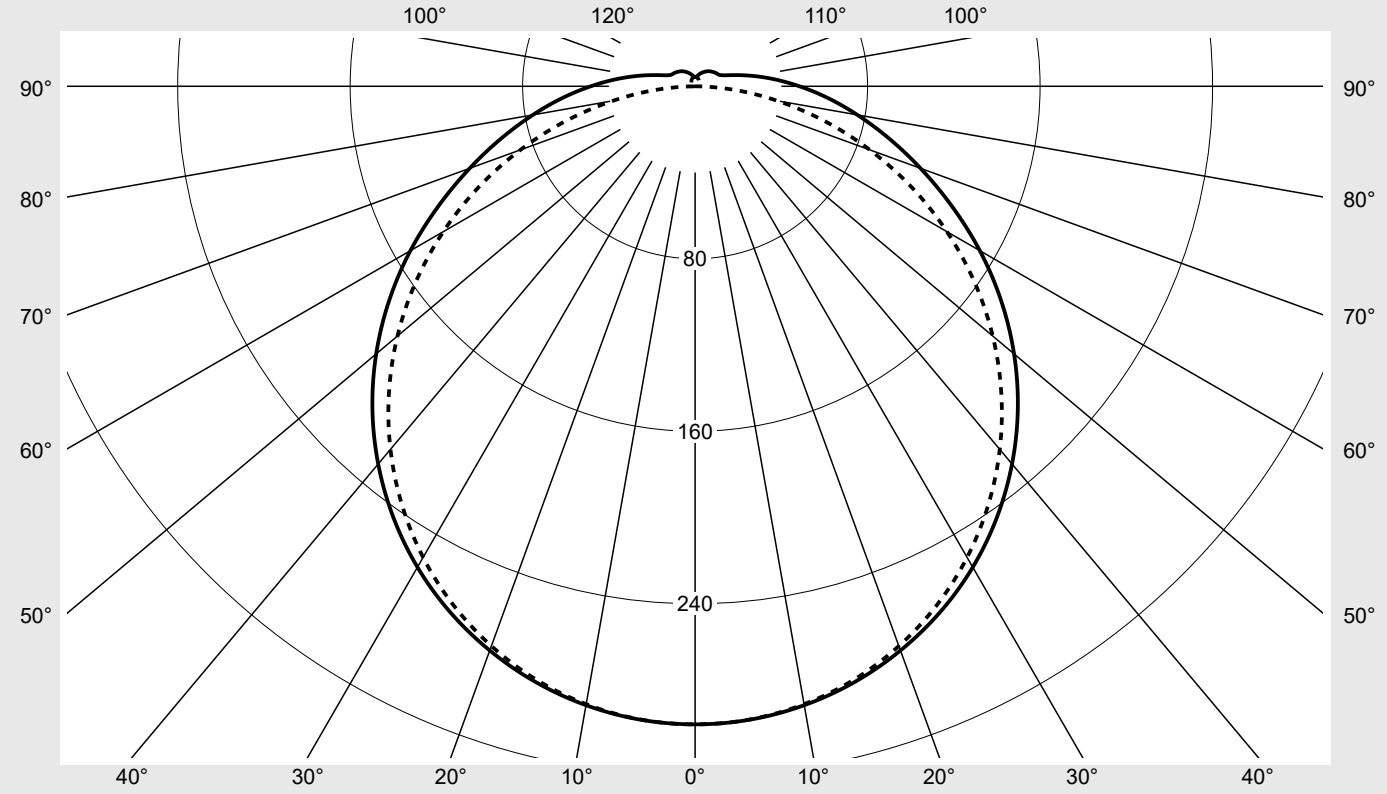
Luminous intensity in cd/klm C180-0 C270-90 **Imax: 296 cd/klm**



Classifications

DIN 5040	A 3 1
CIE	N1=43 N2=73 N3=92 N4=94 N5=100

Luminaire light output ratios

ηLB	100.0%
ϕ_u	93.9%
ϕ_o	6.1%

Measurement conditions

DIN EN 13032 and DIN 5032

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Table of values for luminous intensities

Maximum luminous intensity

C-planes	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm							Luminous flux in lm/klm	
0°	295.9	295.9	295.9	295.9	295.9	295.9	295.9	1.8	1.8
5°	294.8	294.8	294.8	294.8	294.7	294.7	294.7	14.1	15.9
10°	291.5	291.5	291.4	291.2	291.1	291.0	291.0	27.7	43.6
15°	286.0	286.0	285.8	285.5	285.1	284.9	284.9	40.5	84.1
20°	278.5	278.4	277.9	277.3	276.8	276.4	276.3	52.0	136.1
25°	269.0	268.7	268.0	267.0	266.1	265.6	265.4	61.9	197.9
30°	257.6	257.2	256.2	254.8	253.4	252.6	252.3	69.8	267.8
35°	244.0	243.7	242.4	240.6	238.6	237.4	237.0	75.6	343.4
40°	228.7	228.2	226.6	224.4	222.0	220.3	219.8	79.0	422.4
45°	211.7	211.0	209.2	206.5	203.7	201.4	200.8	80.0	502.4
50°	193.1	192.3	190.2	187.0	183.7	181.0	180.2	78.4	580.9
55°	173.2	172.4	169.9	166.3	162.4	159.2	158.1	74.5	655.4
60°	152.5	151.5	148.7	144.5	140.0	136.2	134.9	68.4	723.8
65°	131.3	130.2	126.9	122.2	117.0	112.6	110.8	60.4	784.2
70°	111.3	109.8	105.4	99.6	93.6	88.4	86.2	51.1	835.3
75°	92.9	91.2	86.0	78.5	70.7	64.7	62.0	41.3	876.7
80°	76.4	74.5	68.7	60.2	50.1	42.0	38.6	31.8	908.5
85°	61.7	59.7	53.7	44.6	33.4	22.3	17.3	23.0	931.5
90°	48.4	46.4	40.5	31.6	20.6	9.3	0.5	15.8	947.3
95°	37.0	35.0	29.6	21.4	11.8	3.6	0.6	10.9	958.2
100°	27.5	25.8	21.0	14.1	7.2	3.0	0.8	7.7	965.9
105°	20.0	18.6	14.7	9.9	5.9	2.9	1.1	5.5	971.4
110°	14.9	13.8	11.4	8.5	5.7	3.0	1.4	4.3	975.7
115°	12.5	11.8	10.3	8.2	5.5	3.0	1.6	3.8	979.5
120°	11.7	11.3	10.0	7.7	5.3	3.1	1.8	3.5	983.0
125°	11.1	10.6	9.3	7.1	5.1	3.1	2.0	3.1	986.2
130°	10.5	10.0	8.7	6.8	4.9	3.2	2.2	2.8	989.0
135°	9.8	9.4	8.0	6.3	4.7	3.2	2.4	2.4	991.4
140°	9.1	8.7	7.2	5.9	4.6	3.3	2.7	2.1	993.5
145°	8.3	8.0	6.6	5.5	4.4	3.5	3.0	1.8	995.3
150°	7.5	7.2	6.0	5.1	4.3	3.7	3.3	1.5	996.7
155°	6.8	6.3	5.5	4.8	4.2	3.9	3.6	1.1	997.9
160°	6.0	5.4	4.9	4.5	4.2	4.0	3.8	0.9	998.7
165°	5.3	4.7	4.4	4.4	4.3	4.2	4.1	0.6	999.4
170°	4.8	4.2	4.3	4.3	4.3	4.3	4.2	0.4	999.8
175°	4.4	4.0	4.2	4.3	4.4	4.4	4.4	0.2	1000.0
180°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	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	19.3	21.0	19.7	21.4	21.7	19.3	21.1	19.7	21.4	21.7
	3H	21.1	22.7	21.5	23.0	23.4	21.0	22.6	21.4	22.9	23.3
	4H	22.0	23.5	22.4	23.9	24.2	21.7	23.2	22.1	23.6	23.9
	6H	22.9	24.2	23.3	24.6	25.0	22.3	23.7	22.7	24.0	24.4
	8H	23.3	24.6	23.7	25.0	25.4	22.5	23.8	22.9	24.2	24.6
	12H	23.7	24.9	24.1	25.3	25.7	22.6	23.9	23.0	24.3	24.7
4H	2H	20.1	21.6	20.5	21.9	22.3	20.1	21.6	20.5	21.9	22.3
	3H	22.1	23.4	22.5	23.8	24.2	22.0	23.3	22.4	23.6	24.0
	4H	23.1	24.3	23.6	24.7	25.1	22.8	24.0	23.2	24.4	24.8
	6H	24.1	25.2	24.6	25.6	26.1	23.5	24.5	23.9	24.9	25.4
	8H	24.6	25.6	25.1	26.0	26.5	23.7	24.7	24.2	25.1	25.6
	12H	25.1	26.0	25.6	26.4	26.9	23.9	24.8	24.4	25.2	25.7
8H	4H	23.5	24.5	24.0	24.9	25.4	23.2	24.2	23.7	24.6	25.1
	6H	24.7	25.5	25.2	26.0	26.5	24.1	24.9	24.5	25.3	25.8
	8H	25.3	26.1	25.8	26.5	27.1	24.4	25.1	24.9	25.6	26.1
	12H	26.0	26.6	26.5	27.1	27.7	24.7	25.3	25.2	25.8	26.3
12H	4H	23.6	24.4	24.1	24.9	25.4	23.3	24.2	23.8	24.6	25.1
	6H	24.8	25.6	25.3	26.0	26.5	24.2	24.9	24.7	25.4	25.9
	8H	25.5	26.2	26.0	26.7	27.2	24.6	25.2	25.1	25.7	26.3

Luminance table

Max. for $\gamma >= 65°$

Photometric dimensions in mm: L = 1433 B = 148 H(C0) = 30 H(C90) = 0 H(C180) = 30 H(C270) = 0

C-planes	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
γ	Luminance in cd/m²						
45°	7780.9	7802.7	7867.5	7984.6	8176.5	8460.6	8878.0
50°	7564.2	7584.1	7649.0	7768.8	7970.1	8283.5	8763.7
55°	7322.3	7342.5	7404.4	7521.9	7731.2	8069.7	8618.4
60°	7055.9	7075.7	7128.0	7237.3	7444.1	7805.4	8431.8
65°	6769.9	6781.9	6818.4	6911.1	7107.6	7484.5	8198.9
70°	6533.5	6527.9	6501.4	6534.2	6691.9	7064.0	7877.4
75°	6390.0	6365.4	6276.0	6175.9	6197.4	6536.7	7486.9
80°	6398.6	6352.0	6197.4	5975.8	5729.5	5831.4	6953.0
85°	6668.3	6608.1	6407.0	6061.7	5553.6	5008.7	6204.8

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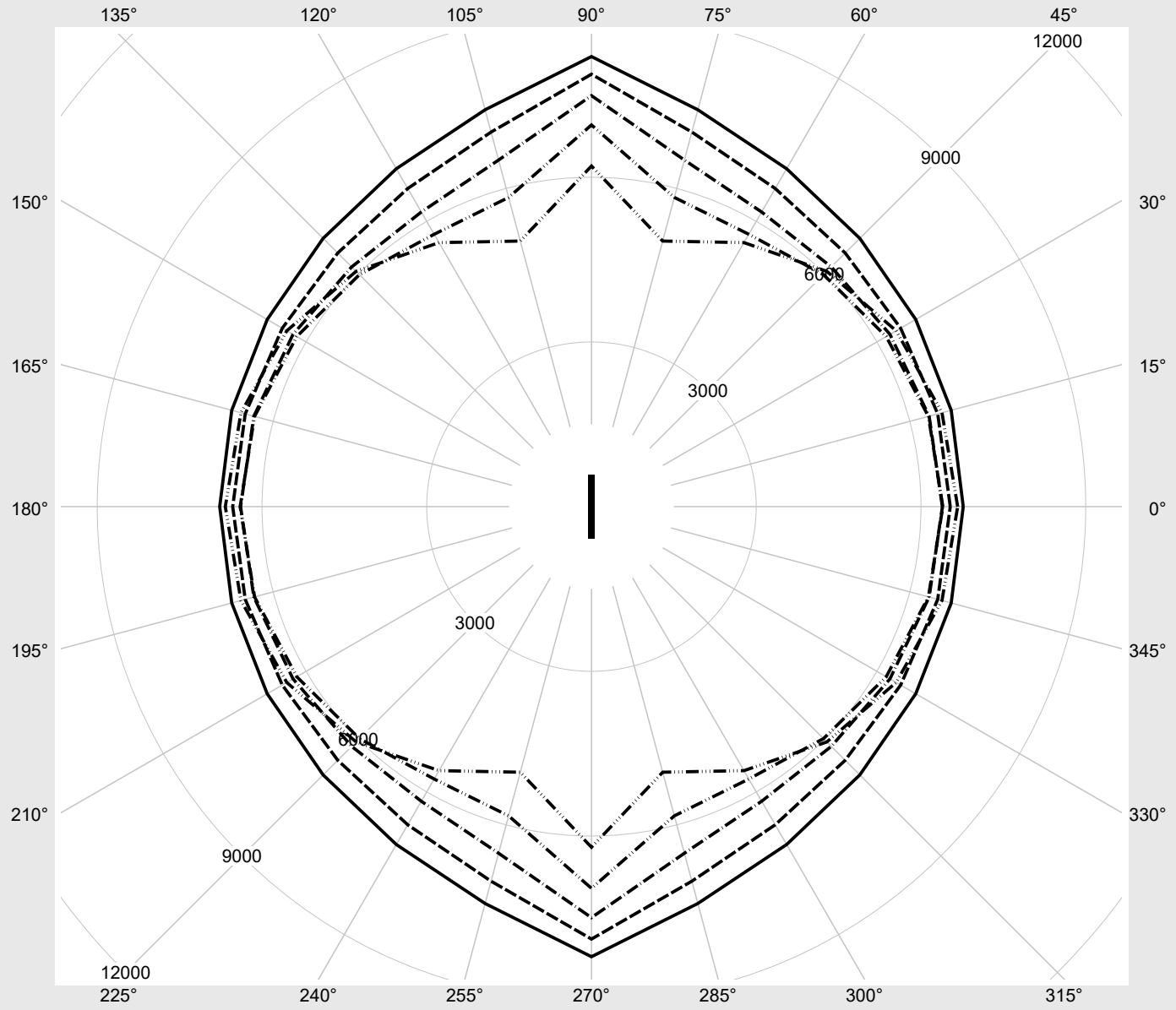
Luminance values in cd/m²

γ 65° γ 70° γ 75° γ 80° γ 85°



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Multilumen Table

environmental temperature: 25°C

DIP-Step	Switch Setting 1	2	3	Luminous flux [lm]	Power consumption [W]
4	OFF	OFF	ON	4020	28.8
2	OFF	ON	OFF	4970	36.2
1	ON	OFF	OFF	5850	43.2
0	OFF	OFF	OFF	6630	49.8