

Photometric test report

Family
Modario® 31



Order number: 53BM8117U4L3D2
EAN: 4069025227102

Version

Lamps

Controlgear

Rated values

diffuser optic, frosted, narrow distribution

LED 4000 K | CRI ≥ 80

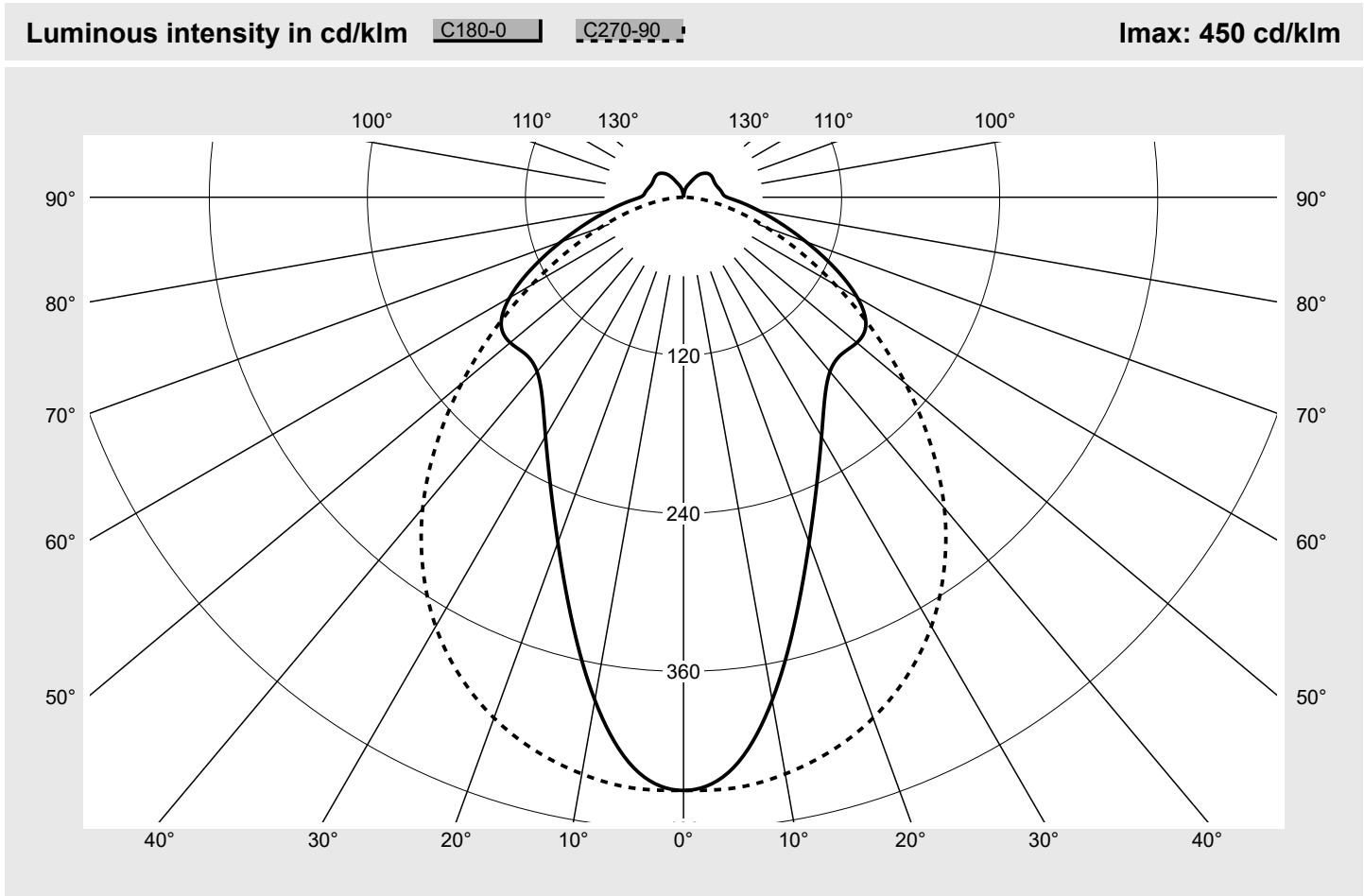
ECG

Net luminous flux = 23600 lm
Power consumption = 126.0 W
Luminous efficacy = 187.3 lm/W

LP number
59593_43

serial
documentation
30.08.2024

siteco



Classifications		Luminaire light output ratios	
DIN 5040	A 4 1	η_{LB}	100.0%
CIE	N1=50 N2=78 N3=94	ϕ_u	90.4%
	N4=90 N5=100	ϕ_o	9.6%

Measurement conditions	
DIN EN 13032 and DIN 5032	

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Table of values for luminous intensities		Maximum luminous intensity

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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°	450.4	450.4	450.4	450.4	450.4	450.4	450.4	2.7	2.7
5°	434.8	434.4	434.2	439.8	445.7	448.7	450.2	21.1	23.8
10°	387.7	390.2	396.4	411.2	428.2	439.8	444.6	39.4	63.1
15°	329.8	334.4	345.9	370.2	400.2	424.7	434.9	53.4	116.5
20°	278.9	283.9	296.1	324.2	364.7	403.3	420.8	63.2	179.7
25°	239.6	243.9	253.6	279.8	325.0	376.1	401.3	69.5	249.1
30°	209.6	212.8	219.1	240.3	283.9	343.6	376.3	72.7	321.9
35°	186.9	188.8	191.5	205.8	243.8	306.6	344.9	73.5	395.4
40°	173.0	173.1	171.1	177.5	207.0	267.1	308.1	72.6	468.0
45°	169.1	166.9	158.6	155.4	174.1	225.8	265.4	70.9	538.9
50°	171.8	167.4	153.3	140.0	146.6	186.3	219.9	69.2	608.2
55°	169.0	164.3	148.2	128.3	123.8	150.1	175.1	66.4	674.5
60°	152.5	148.9	135.5	115.0	103.6	117.6	133.2	60.4	734.9
65°	126.3	124.1	114.5	97.6	84.4	89.2	96.9	51.5	786.4
70°	99.0	97.7	90.6	78.2	65.9	64.8	67.1	41.2	827.6
75°	76.1	75.0	69.7	60.3	49.1	44.1	43.1	31.6	859.2
80°	57.7	56.8	53.2	44.9	34.6	27.3	24.1	23.2	882.4
85°	43.5	42.6	39.5	32.5	22.9	14.7	10.1	16.3	898.6
90°	33.0	32.1	28.8	22.5	14.4	6.3	0.8	11.1	909.7
95°	29.9	28.9	25.8	20.4	13.4	6.1	0.9	10.0	919.7
100°	28.7	27.7	24.5	19.6	13.4	6.3	0.9	9.6	929.3
105°	27.4	26.4	23.6	19.5	13.7	6.7	0.8	9.2	938.4
110°	26.5	25.4	23.3	19.7	14.2	7.2	0.7	8.9	947.3
115°	26.1	25.1	23.5	20.2	14.6	6.8	0.8	8.6	955.9
120°	26.2	25.3	23.9	20.5	14.8	6.4	0.8	8.3	964.2
125°	26.5	25.6	24.0	20.4	14.4	6.3	0.8	7.8	972.0
130°	26.5	25.4	23.5	19.6	12.9	6.2	0.9	7.1	979.0
135°	25.6	24.4	22.2	18.2	10.9	5.6	1.1	6.1	985.2
140°	23.7	22.4	20.1	15.4	9.4	4.6	1.1	4.9	990.1
145°	21.0	19.8	17.0	12.1	7.6	3.5	1.3	3.7	993.8
150°	16.9	15.5	12.9	9.4	6.3	2.5	1.3	2.5	996.4
155°	12.6	11.7	10.1	7.4	5.2	1.9	1.4	1.7	998.0
160°	9.9	9.3	7.5	5.7	3.8	1.6	1.4	1.0	999.1
165°	7.7	7.3	5.1	4.1	2.4	1.5	1.4	0.6	999.7
170°	4.8	3.7	2.7	2.3	1.6	1.5	1.5	0.2	999.9
175°	1.6	1.5	1.5	1.5	1.5	1.5	1.5	0.1	1000.0
180°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.0	1000.0

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UGR-Table			Standard room							siteco	
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	23.4	25.1	23.7	25.4	25.7	23.9	25.6	24.3	25.9	26.2
	3H	25.1	26.7	25.5	27.0	27.3	25.1	26.6	25.5	27.0	27.3
	4H	25.8	27.3	26.2	27.6	28.0	25.6	27.0	26.0	27.3	27.7
	6H	26.4	27.7	26.8	28.1	28.5	25.9	27.2	26.3	27.6	28.0
	8H	26.7	27.9	27.1	28.3	28.7	26.0	27.2	26.5	27.6	28.0
	12H	26.9	28.1	27.4	28.5	28.9	26.1	27.2	26.5	27.6	28.1
4H	2H	24.0	25.4	24.4	25.8	26.1	24.4	25.8	24.8	26.1	26.5
	3H	26.0	27.2	26.4	27.5	28.0	25.7	27.0	26.2	27.3	27.8
	4H	26.8	27.9	27.2	28.3	28.7	26.3	27.4	26.7	27.8	28.2
	6H	27.5	28.5	28.0	28.9	29.4	26.7	27.7	27.2	28.1	28.6
	8H	27.9	28.7	28.3	29.2	29.6	26.9	27.8	27.3	28.2	28.7
	12H	28.2	29.0	28.7	29.4	29.9	27.0	27.8	27.5	28.2	28.7
8H	4H	27.1	27.9	27.5	28.4	28.9	26.6	27.5	27.1	28.0	28.4
	6H	28.0	28.7	28.4	29.2	29.7	27.2	27.9	27.7	28.4	28.9
	8H	28.4	29.1	28.9	29.5	30.1	27.4	28.0	27.9	28.5	29.0
	12H	28.9	29.4	29.4	29.9	30.4	27.6	28.1	28.1	28.6	29.1
12H	4H	27.1	27.9	27.6	28.3	28.8	26.7	27.5	27.2	27.9	28.4
	6H	28.0	28.7	28.5	29.2	29.7	27.3	27.9	27.8	28.4	28.9
	8H	28.5	29.1	29.0	29.6	30.1	27.6	28.1	28.1	28.6	29.1

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		L = 2392 B = 75	H(C0) = 25 H(C90) = 0	H(C180) = 25 H(C270) = 0
C-planes	γ	0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°
			Luminance in cd/m²					
45° 50° 55° 60°		23590.7	23480.5	22896.1	23401.4	27757.7	38676.3	49368.7
		25157.5	24763.6	23338.8	22369.9	25026.2	34579.3	45001.8
		26256.9	25814.9	24074.7	22006.7	22941.2	30648.1	40152.5
		25428.7	25157.7	23761.9	21488.5	21152.1	26907.8	35054.0
65° 70° 75° 80° 85°		22922.6	22854.4	22006.6	20181.4	19361.3	23428.5	30168.6
		19883.3	19935.4	19425.9	18258.2	17382.3	20142.7	25823.7
		17228.0	17322.1	17058.8	16299.2	15381.2	16973.5	21887.1
		15133.3	15230.3	15275.3	14547.4	13475.8	13909.8	18222.4
		13643.8	13743.7	13881.2	13265.2	11876.9	11192.7	15178.1

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Luminance values in cd/m²

γ 65°
γ 70°
γ 75°
γ 80°
γ 85°

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