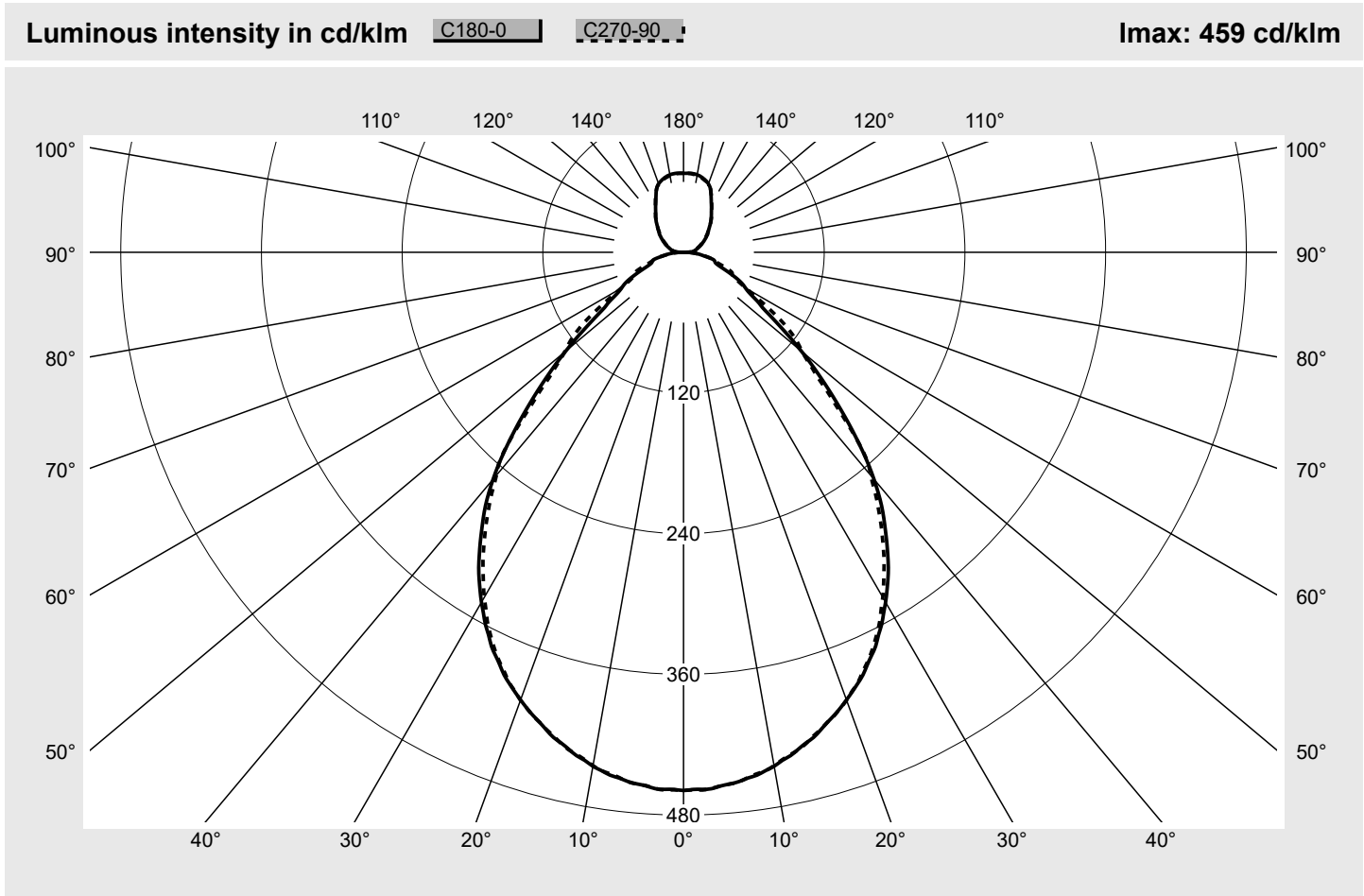


Photometric test report

Family Round 21 M	Order number: 51MR36ND0421W EAN: 4058352829967	LP number 59653_7
	Version	Suspended luminaire, micro prismatic cover, PMMA, wide distribution, direct-/ indirect distribution, aluminium housing, white, UGR≤19
	Lamps	LED 4000 K CRI ≥ 80
	Controlgear	ECG-DALI
	Rated values	Net luminous flux = 7470 lm Power consumption = 54.6 W Luminous efficacy = 136.8 lm/W
		serial documentation 31.07.2024
		siteco



Classifications		Luminaire light output ratios	
DIN 5040	B 5 3	η_{LB}	100.0%
CIE	N1=66 N2=90 N3=98	ϕ_u	84.0%
	N4=84 N5=100	ϕ_o	16.0%

Measurement conditions
DIN EN 13032 and DIN 5032

Photometric test report

Family Round 21 M	Order number: 51MR36ND0421W EAN: 4058352829967	LP number 59653_7
Table of values for luminous intensities		Maximum luminous intensity
		siteco

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°	459.1	459.1	459.1	459.1	459.1	459.1	459.1	0.1	0.1
1°	458.3	458.6	458.2	459.2	458.5	459.2	458.6	0.9	1.0
2°	458.4	458.7	458.0	458.1	458.4	458.6	459.0	1.8	2.7
3°	458.2	457.6	457.3	457.8	457.5	457.7	458.0	2.6	5.4
4°	456.3	456.8	456.8	457.2	456.0	457.0	456.1	3.5	8.9
5°	455.2	455.6	455.6	455.4	454.9	455.3	455.2	4.4	13.2
6°	453.9	454.5	454.0	454.2	453.3	454.1	454.1	5.2	18.4
7°	451.8	452.6	452.0	452.1	452.0	452.3	451.3	6.0	24.5
8°	450.4	450.9	450.4	450.6	450.1	450.9	449.2	6.9	31.3
9°	447.6	448.4	447.6	448.2	446.8	448.4	447.7	7.7	39.0
10°	445.2	446.0	445.3	445.8	444.5	445.7	444.6	8.5	47.5
11°	441.5	443.4	442.4	442.5	441.3	443.1	441.0	9.3	56.8
12°	438.9	440.2	439.2	440.1	438.0	439.8	438.0	10.0	66.8
13°	435.1	437.2	435.7	437.0	434.8	436.6	435.5	10.8	77.5
14°	431.4	434.0	432.4	433.6	431.6	433.2	431.9	11.5	89.0
15°	428.4	430.4	428.4	429.8	427.3	429.7	427.3	12.2	101.2
16°	424.0	426.2	424.9	426.4	423.8	425.9	423.6	12.9	114.0
17°	419.4	422.6	421.1	422.4	419.3	421.8	419.3	13.5	127.5
18°	415.4	418.3	416.6	418.3	414.7	417.9	415.7	14.1	141.7
19°	411.0	414.2	412.3	413.4	410.2	413.1	411.1	14.7	156.4
20°	406.3	409.4	407.5	408.9	405.8	408.8	406.7	15.3	171.7
21°	401.5	404.8	402.9	404.3	400.3	403.5	401.1	15.8	187.5
22°	396.7	399.3	397.7	399.2	395.1	397.8	396.4	16.3	203.8
23°	391.7	394.3	392.2	393.5	390.0	392.7	389.9	16.8	220.7
24°	385.3	388.8	386.1	387.8	384.1	387.0	384.1	17.2	237.9
25°	379.5	382.8	379.6	381.4	378.2	381.1	378.0	17.6	255.5
26°	373.8	376.5	373.2	375.2	371.7	374.0	371.1	18.0	273.5
27°	366.3	369.7	366.2	368.0	364.8	367.8	363.9	18.3	291.7
28°	359.8	362.2	358.8	361.2	358.0	360.2	356.5	18.5	310.3
29°	352.0	355.0	350.9	354.0	350.7	352.8	347.8	18.7	329.0
30°	344.7	347.1	342.9	346.4	342.8	345.3	339.9	18.9	347.9
31°	336.9	339.2	333.9	338.1	336.3	336.6	331.3	19.0	366.9
32°	329.0	330.7	326.0	329.7	328.4	328.6	322.6	19.1	386.0
33°	320.7	322.4	316.9	321.1	320.7	319.7	314.1	19.1	405.0
34°	311.5	313.5	308.1	312.3	312.2	311.4	304.9	19.1	424.1
35°	302.3	304.8	299.5	303.3	303.6	302.2	295.6	19.0	443.1
36°	292.9	295.6	290.2	293.8	294.5	292.6	286.5	18.9	462.0
37°	283.8	286.0	280.7	284.2	285.5	282.8	276.9	18.7	480.7
38°	274.4	275.8	271.2	274.0	276.2	272.6	267.7	18.5	499.1
39°	263.9	264.9	261.3	263.2	266.2	261.4	257.7	18.1	517.3
40°	252.7	253.5	250.1	251.9	256.2	249.6	248.3	17.8	535.0
41°	240.9	240.9	237.7	240.1	245.7	237.1	240.7	17.3	552.3
42°	228.3	228.0	225.7	227.9	233.8	224.4	229.3	16.7	569.1
43°	215.3	215.0	215.4	215.5	222.1	211.6	214.2	16.1	585.2
44°	202.5	201.9	200.4	203.2	209.7	199.8	197.9	15.4	600.6

Photometric test report

Family Round 21 M	Order number: 51MR36ND0421W EAN: 4058352829967	LP number 59653_7
Table of values for luminous intensities		Maximum luminous intensity

sitEco

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	
45°	189.7	189.3	186.2	190.9	197.2	187.7	182.5	14.7	615.3
46°	177.4	177.1	173.6	177.8	188.9	175.9	169.9	14.0	629.4
47°	165.4	165.5	159.2	165.5	176.4	164.8	156.7	13.3	642.6
48°	153.8	154.8	148.9	153.7	165.0	154.2	147.7	12.6	655.2
49°	142.7	144.6	140.1	142.4	151.9	144.2	139.0	11.9	667.1
50°	131.1	135.0	132.4	132.1	139.8	134.6	132.6	11.3	678.4
51°	120.2	125.5	126.2	122.6	127.6	125.4	127.3	10.7	689.1
52°	109.1	116.5	119.8	113.6	115.5	116.5	122.2	10.0	699.1
53°	99.0	108.0	113.7	105.3	104.2	108.0	116.1	9.4	708.6
54°	89.9	99.7	107.2	96.9	93.7	99.6	109.3	8.8	717.4
55°	82.2	92.0	100.2	89.5	84.5	91.9	101.5	8.2	725.6
56°	77.9	84.9	92.7	82.4	76.9	84.9	92.5	7.7	733.3
57°	72.6	78.3	85.2	76.3	70.6	78.3	83.7	7.2	740.5
58°	67.4	72.2	77.7	71.1	65.6	72.5	75.4	6.7	747.1
59°	63.6	66.4	70.5	66.5	61.9	67.2	68.1	6.2	753.4
60°	61.0	61.2	63.9	62.3	59.2	62.2	61.8	5.9	759.2
61°	58.8	56.8	58.3	58.6	57.1	58.0	57.0	5.5	764.8
62°	56.4	53.2	53.7	55.3	55.3	54.6	53.0	5.3	770.1
63°	53.3	50.3	50.4	52.3	53.1	51.4	49.9	5.0	775.1
64°	49.8	47.5	48.1	49.0	50.2	48.0	47.7	4.8	779.9
65°	46.0	45.1	46.6	45.6	46.6	44.7	46.0	4.5	784.4
66°	42.4	42.6	45.5	42.3	42.9	41.5	45.4	4.3	788.8
67°	38.8	40.2	44.2	39.1	39.5	38.5	45.0	4.1	792.8
68°	35.5	38.0	42.3	36.4	36.6	36.0	43.6	3.9	796.7
69°	32.8	35.8	39.8	34.2	34.1	34.1	41.0	3.7	800.4
70°	30.8	33.8	37.1	32.9	32.0	32.6	37.9	3.5	803.9
71°	29.4	32.0	34.3	32.1	30.2	31.5	34.9	3.3	807.2
72°	28.5	30.3	31.9	31.0	28.7	30.4	32.2	3.2	810.4
73°	28.0	28.6	30.0	29.4	27.6	29.0	30.0	3.0	813.4
74°	27.7	27.2	28.6	27.5	27.0	27.4	28.4	2.9	816.3
75°	27.2	25.8	27.3	25.6	26.7	25.6	27.0	2.8	819.1
76°	26.4	24.3	25.9	23.9	26.0	24.0	25.8	2.7	821.8
77°	24.7	22.9	24.4	22.4	24.4	22.3	24.3	2.5	824.3
78°	22.4	21.3	22.5	20.9	22.4	20.7	22.7	2.3	826.6
79°	19.9	19.5	20.4	19.1	20.2	19.1	20.8	2.1	828.7
80°	17.5	17.7	18.4	17.3	18.2	17.5	18.7	1.9	830.7
81°	16.1	15.9	16.4	15.6	16.4	15.6	16.6	1.7	832.4
82°	14.7	14.1	14.7	14.0	14.8	13.9	14.5	1.6	834.0
83°	13.4	12.5	13.0	12.4	13.2	12.4	12.6	1.4	835.3
84°	11.9	10.9	11.3	10.8	11.6	10.8	11.0	1.2	836.6
85°	10.4	9.2	9.8	9.2	9.9	9.1	9.5	1.0	837.6
86°	8.8	7.4	8.2	7.5	8.3	7.4	7.9	0.9	838.5
87°	7.3	5.7	6.5	5.7	6.6	5.6	6.3	0.7	839.1
88°	5.0	4.1	4.8	4.2	4.7	4.1	4.7	0.5	839.6
89°	3.1	3.0	3.1	3.2	3.0	3.2	3.0	0.3	840.0

Photometric test report

Family Round 21 M	Order number: 51MR36ND0421W EAN: 4058352829967	LP number 59653_7
Table of values for luminous intensities		Maximum luminous intensity
		siteco

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	
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	840.0
91°	5.3	4.7	4.9	4.5	4.6	4.4	4.5	0.5	840.5
92°	6.2	5.5	5.9	5.2	5.6	5.0	5.4	0.6	841.1
93°	6.8	6.2	6.5	6.0	6.3	6.0	6.1	0.7	841.8
94°	7.4	6.9	7.0	6.8	7.0	6.7	6.8	0.8	842.5
95°	7.8	7.4	7.6	7.2	7.6	7.3	7.3	0.8	843.3
96°	8.5	8.2	8.3	7.9	8.3	7.9	7.8	0.9	844.2
97°	9.0	8.7	8.8	8.6	8.8	8.6	8.3	0.9	845.2
98°	9.3	9.2	9.1	9.0	9.2	9.0	8.8	1.0	846.1
99°	9.8	9.7	9.7	9.5	9.6	9.4	9.3	1.0	847.2
100°	10.1	10.2	10.0	9.9	10.0	10.0	9.8	1.1	848.3
101°	10.6	10.5	10.6	10.4	10.5	10.5	10.4	1.1	849.4
102°	11.0	10.9	10.9	10.7	10.9	10.9	10.6	1.2	850.6
103°	11.4	11.3	11.3	11.1	11.4	11.3	11.1	1.2	851.8
104°	11.7	11.7	11.8	11.6	11.7	11.7	11.4	1.2	853.0
105°	12.2	12.1	12.1	12.0	12.2	12.0	11.8	1.3	854.3
106°	12.6	12.4	12.5	12.5	12.6	12.5	12.2	1.3	855.6
107°	12.9	12.8	13.0	12.9	13.0	13.0	12.7	1.4	857.0
108°	13.5	13.3	13.4	13.4	13.4	13.5	13.1	1.4	858.3
109°	14.0	13.8	13.8	13.8	14.0	13.9	13.5	1.4	859.8
110°	14.6	14.3	14.4	14.2	14.5	14.5	14.2	1.5	861.3
111°	15.2	14.8	15.0	14.8	15.0	15.0	14.6	1.5	862.8
112°	15.8	15.5	15.5	15.2	15.4	15.5	15.1	1.6	864.4
113°	16.3	16.0	16.0	15.7	16.0	16.0	15.6	1.6	866.0
114°	17.0	16.5	16.5	16.3	16.6	16.5	16.2	1.7	867.6
115°	17.5	17.1	17.1	17.0	17.2	17.1	16.8	1.7	869.3
116°	18.1	17.5	17.7	17.5	17.8	17.7	17.3	1.7	871.1
117°	18.5	18.1	18.3	18.2	18.3	18.2	18.1	1.8	872.8
118°	19.3	18.7	18.9	18.7	19.0	18.9	18.7	1.8	874.7
119°	20.0	19.3	19.6	19.5	19.7	19.4	19.2	1.9	876.5
120°	20.6	20.0	20.2	20.0	20.1	20.2	20.0	1.9	878.5
121°	21.2	20.7	20.9	20.8	20.9	20.8	20.6	2.0	880.4
122°	22.0	21.3	21.6	21.3	21.6	21.4	21.3	2.0	882.4
123°	22.7	22.1	22.3	22.1	22.3	22.0	21.9	2.0	884.5
124°	23.4	22.8	23.0	22.7	23.2	22.7	22.9	2.1	886.5
125°	24.1	23.5	23.7	23.5	24.0	23.5	23.5	2.1	888.7
126°	25.0	24.3	24.4	24.2	24.8	24.2	24.2	2.2	890.8
127°	25.7	24.9	25.2	25.0	25.6	25.0	25.0	2.2	893.0
128°	26.1	25.8	25.8	25.9	26.5	25.8	26.0	2.2	895.3
129°	26.5	26.6	26.6	26.6	27.3	26.6	26.8	2.3	897.5
130°	27.2	27.4	27.3	27.6	28.1	27.4	27.6	2.3	899.9
131°	28.1	28.4	28.0	28.3	28.8	28.3	28.3	2.3	902.2
132°	28.9	29.2	28.9	29.3	29.5	29.2	29.1	2.4	904.6
133°	29.8	30.2	29.9	30.3	30.3	30.1	30.0	2.4	907.0
134°	30.7	31.1	30.8	31.1	31.2	31.0	30.8	2.4	909.4

Photometric test report

Family Round 21 M	Order number: 51MR36ND0421W EAN: 4058352829967	LP number 59653_7
Table of values for luminous intensities		Maximum luminous intensity
		siteco

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	
135°	31.6	32.1	31.6	32.1	32.0	32.0	32.0	2.5	911.9
136°	32.6	32.9	32.5	33.0	32.8	32.9	32.9	2.5	914.4
137°	33.6	33.9	33.4	34.0	33.6	33.8	33.7	2.5	916.9
138°	34.7	34.9	34.5	35.0	34.4	34.9	34.6	2.5	919.5
139°	35.7	35.9	35.4	36.0	35.4	35.8	35.7	2.6	922.1
140°	36.6	36.9	36.4	37.1	36.5	36.9	36.7	2.6	924.6
141°	37.5	37.9	37.4	37.9	37.5	38.0	37.7	2.6	927.3
142°	38.5	39.0	38.4	39.1	38.4	39.0	38.8	2.6	929.9
143°	39.4	40.0	39.4	40.3	39.5	40.1	39.6	2.6	932.5
144°	40.5	41.1	40.5	41.3	40.5	41.2	40.6	2.6	935.1
145°	41.4	42.2	41.5	42.5	41.8	42.4	41.7	2.6	937.8
146°	42.5	43.3	42.7	43.5	42.9	43.6	42.9	2.6	940.4
147°	43.7	44.6	43.8	44.9	44.1	44.9	44.0	2.6	943.1
148°	45.0	45.8	45.0	46.1	45.4	46.1	45.3	2.7	945.7
149°	46.2	47.1	46.3	47.4	46.6	47.5	46.5	2.6	948.4
150°	47.6	48.5	47.7	48.8	47.9	48.8	47.9	2.6	951.0
151°	48.8	50.0	49.3	50.4	49.5	50.3	49.5	2.6	953.7
152°	50.3	51.3	50.7	51.9	51.1	51.8	51.0	2.6	956.3
153°	51.9	52.9	52.3	53.5	52.7	53.3	52.7	2.6	958.9
154°	53.6	54.6	53.9	55.0	54.2	54.9	54.2	2.6	961.5
155°	55.4	56.1	55.7	56.6	55.9	56.3	55.5	2.6	964.1
156°	57.3	57.5	57.2	57.8	57.3	57.8	57.1	2.6	966.7
157°	58.8	59.0	58.5	59.1	58.8	59.1	58.7	2.5	969.2
158°	60.1	60.2	59.9	60.3	60.0	60.1	60.1	2.5	971.7
159°	61.1	61.3	60.9	61.3	61.0	61.1	61.1	2.4	974.1
160°	62.1	62.2	61.9	62.0	61.9	61.9	62.0	2.3	976.4
161°	62.8	63.0	62.9	63.0	62.7	62.7	62.7	2.2	978.7
162°	63.5	63.8	63.4	63.7	63.3	63.4	63.3	2.2	980.8
163°	64.1	64.3	64.1	64.1	64.0	64.0	63.7	2.1	982.9
164°	64.7	64.8	64.6	64.7	64.5	64.4	64.1	2.0	984.8
165°	65.2	65.3	65.2	65.2	64.9	65.0	64.7	1.8	986.7
166°	65.7	65.8	65.6	65.7	65.4	65.3	65.1	1.7	988.4
167°	66.1	66.1	66.1	66.0	65.9	65.7	65.5	1.6	990.0
168°	66.6	66.5	66.4	66.4	66.2	66.0	65.8	1.5	991.5
169°	66.8	66.9	66.7	66.7	66.5	66.3	66.1	1.4	992.9
170°	67.1	67.0	66.8	66.9	66.7	66.6	66.4	1.3	994.2
171°	67.3	67.2	67.1	67.2	67.0	66.8	66.6	1.1	995.4
172°	67.5	67.4	67.2	67.3	67.1	66.9	67.0	1.0	996.4
173°	67.5	67.5	67.3	67.4	67.3	66.9	67.0	0.9	997.3
174°	67.7	67.5	67.4	67.6	67.4	67.1	67.3	0.8	998.1
175°	67.6	67.6	67.5	67.5	67.5	67.1	67.4	0.6	998.7
176°	67.5	67.6	67.5	67.5	67.5	67.1	67.4	0.5	999.2
177°	67.5	67.4	67.5	67.3	67.5	67.0	67.4	0.4	999.6
178°	67.4	67.3	67.5	67.4	67.4	67.1	67.5	0.3	999.9
179°	67.4	67.3	67.4	67.4	67.4	67.0	67.4	0.1	1000.0
180°	67.4	67.4	67.4	67.4	67.4	67.4	67.4	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	15.9	17.2	16.5	17.7	18.4	15.9	17.2	16.5	17.7	18.4
	3H	16.4	17.5	17.0	18.1	18.8	16.5	17.6	17.1	18.2	18.9
	4H	16.8	17.8	17.4	18.5	19.1	16.9	17.9	17.5	18.5	19.2
	6H	17.2	18.2	17.9	18.8	19.5	17.3	18.2	17.9	18.8	19.5
	8H	17.4	18.2	18.0	18.8	19.6	17.4	18.3	18.1	18.9	19.6
	12H	17.5	18.3	18.2	19.0	19.7	17.6	18.3	18.2	19.0	19.7
4H	2H	16.1	17.1	16.7	17.7	18.4	16.1	17.2	16.7	17.8	18.5
	3H	16.9	17.8	17.6	18.4	19.2	16.9	17.8	17.6	18.4	19.1
	4H	17.4	18.2	18.1	18.8	19.6	17.4	18.2	18.1	18.8	19.6
	6H	18.0	18.6	18.6	19.3	20.1	18.0	18.6	18.6	19.3	20.0
	8H	18.1	18.7	18.8	19.4	20.2	18.1	18.7	18.8	19.4	20.2
	12H	18.4	18.9	19.1	19.6	20.4	18.3	18.8	19.0	19.5	20.3
8H	4H	17.6	18.2	18.3	18.8	19.7	17.6	18.2	18.3	18.8	19.7
	6H	18.2	18.7	18.9	19.4	20.2	18.2	18.7	18.9	19.4	20.2
	8H	18.5	18.9	19.2	19.7	20.5	18.5	18.9	19.2	19.7	20.5
	12H	18.9	19.2	19.6	20.0	20.8	18.8	19.2	19.6	19.9	20.8
12H	4H	17.6	18.2	18.4	18.9	19.7	17.6	18.2	18.4	18.9	19.7
	6H	18.3	18.8	19.1	19.5	20.3	18.3	18.7	19.1	19.5	20.3
	8H	18.7	19.0	19.4	19.8	20.6	18.7	19.0	19.4	19.8	20.6

Luminance table		Max. for $\gamma \geq 65^\circ$		Photometric dimensions in mm:		D = 590	
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°	7328.8	7313.0	7196.7	7374.9	7620.7	7253.1	7053.2
50°	5574.6	5738.3	5628.5	5614.9	5944.1	5722.5	5635.8
55°	3914.4	4383.8	4774.2	4264.2	4023.6	4378.1	4833.7
60°	3335.9	3346.3	3493.3	3403.7	3233.7	3397.7	3379.1
65°	2973.3	2913.1	3014.1	2950.6	3012.8	2892.4	2975.8
70°	2463.1	2698.9	2960.3	2629.4	2553.4	2603.0	3030.6
75°	2869.4	2728.0	2886.3	2705.8	2819.8	2706.9	2849.4
80°	2757.8	2789.3	2888.6	2723.2	2857.1	2746.8	2937.3
85°	3255.3	2894.8	3079.8	2885.4	3101.7	2857.2	2976.3

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Luminance values in cd/m²		serial

