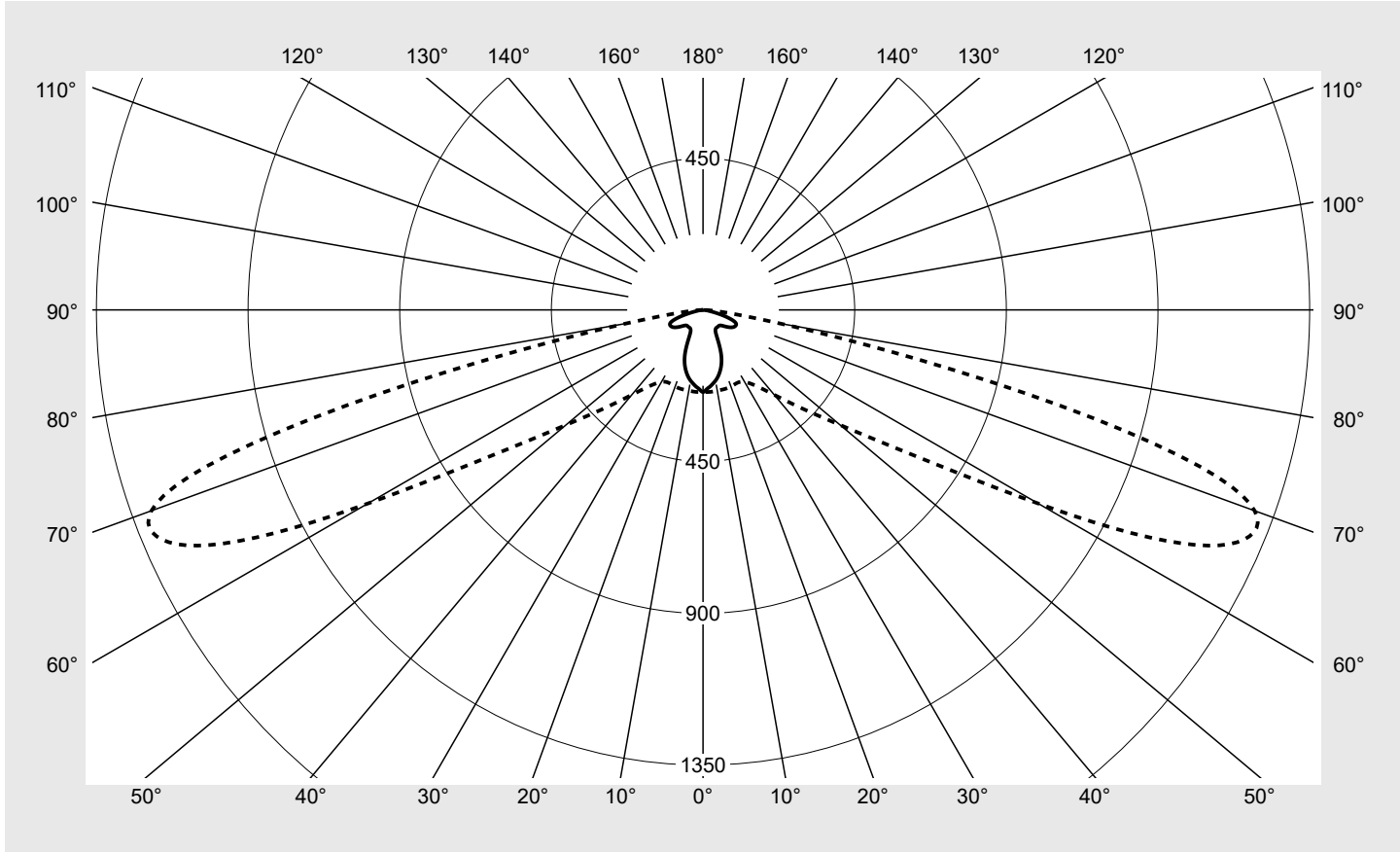


Photometric test report

Family Licross® Recessed	Order number: 56TL197C4X31 EAN: 4058352862605	LP number 59463_1
	Version emergency light operation, asymmetric extremely wide distribution, Application: Rescue route	serial documentation 06.07.2023
	Lamps LED 4000 K CRI ≥ 70 Controlgear ECG Rated values Net luminous flux = 300 lm Power consumption = 3.9 W Luminous efficacy = 76.9 lm/W	



Luminous intensity in cd/klm C180-0 C270-90 **Imax: 1755 cd/klm**



Classifications	
DIN 5040	A 3 0
CIE	N1=25 N2=51 N3=93 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

Photometric test report

Family Licross® Recessed	Order number: 56TL197C4X31 EAN: 4058352862605	LP number 59463_1
Table of values for luminous intensities		Maximum luminous intensity
		siteco

C- planes	0° 180°	5°	10°	15°	20°	25°	30°	35°	40°	45°
		175° 185° 355°	170° 190° 350°	165° 195° 345°	160° 200° 340°	155° 205° 335°	150° 210° 330°	145° 215° 325°	140° 220° 320°	135° 225° 315°
Luminous intensity in cd/klm										
γ										
0,0°	243.7	243.7	243.7	243.7	243.7	243.7	243.7	243.7	243.7	243.7
2,5°	236.0	236.1	236.3	236.7	237.0	237.4	237.8	238.2	238.5	238.8
5,0°	228.9	229.1	229.8	230.7	231.5	232.2	232.6	233.0	233.5	234.1
7,5°	221.1	221.8	223.1	223.9	224.2	224.2	224.5	225.4	226.8	228.5
10,0°	213.0	213.6	214.7	215.3	215.4	215.4	216.1	217.7	219.9	222.3
12,5°	203.3	203.7	204.4	204.9	205.1	205.5	207.0	209.4	212.2	215.2
15,0°	191.2	191.5	192.2	192.8	193.4	194.5	196.8	199.9	203.5	207.2
17,5°	177.3	177.5	178.2	179.1	180.4	182.5	185.5	189.2	193.5	198.2
20,0°	160.5	160.8	161.6	163.0	165.4	168.6	172.6	177.2	182.4	188.1
22,5°	139.3	139.7	140.9	143.4	147.2	152.0	157.5	163.4	169.8	176.6
25,0°	112.3	113.2	115.6	119.5	124.7	131.1	138.2	146.0	154.4	163.2
27,5°	87.4	88.6	91.5	95.5	100.7	107.1	115.0	124.5	135.4	147.1
30,0°	74.0	74.7	76.6	79.1	82.2	86.5	92.5	101.3	113.3	127.7
32,5°	68.8	69.3	70.3	71.5	72.7	74.4	77.2	82.6	92.2	106.5
35,0°	66.6	67.0	67.7	68.3	68.7	69.1	69.9	72.2	77.6	88.1
37,5°	66.2	66.4	66.8	66.8	66.7	66.7	67.0	67.8	70.1	75.9
40,0°	66.4	66.6	66.6	66.2	65.7	65.6	65.7	66.0	66.8	69.3
42,5°	66.4	66.5	66.3	65.7	65.0	65.0	65.3	65.3	65.1	65.6
45,0°	66.6	66.6	66.2	65.2	64.3	64.4	64.9	65.0	64.0	63.1
47,5°	68.1	68.0	67.2	65.5	64.0	63.7	64.3	64.3	62.9	61.2
50,0°	72.4	72.0	70.6	67.9	65.2	63.9	63.7	63.3	61.6	59.5
52,5°	79.6	79.0	76.6	72.7	68.5	65.6	64.2	63.0	60.8	58.1
55,0°	88.2	87.3	84.1	79.0	73.4	68.9	66.0	63.6	60.4	56.9
57,5°	96.2	95.1	91.4	85.4	78.5	72.5	68.2	64.7	60.5	56.2
60,0°	102.5	101.2	97.1	90.5	82.7	75.6	70.2	65.7	60.7	55.6
62,5°	106.2	104.8	100.6	93.8	85.6	77.7	71.5	66.2	60.6	55.1
65,0°	107.7	106.2	101.8	95.0	86.6	78.3	71.4	65.5	59.6	53.9
67,5°	106.1	104.3	99.8	93.1	84.9	76.5	69.3	63.1	57.0	51.5
70,0°	97.5	95.8	91.9	85.9	78.6	71.1	64.6	58.6	52.9	47.6
72,5°	79.7	78.7	76.2	72.0	66.7	60.9	55.8	51.1	46.4	41.7
75,0°	57.1	56.9	56.0	54.2	51.2	46.4	42.8	39.7	36.5	33.0
77,5°	35.4	35.9	36.7	37.4	36.1	30.8	28.1	26.5	24.5	22.4
80,0°	19.7	20.5	22.3	24.3	23.5	18.2	16.3	15.9	14.4	12.8
82,5°	11.1	11.4	12.5	13.9	13.3	9.7	8.8	9.0	8.1	6.8
85,0°	4.5	4.9	5.5	6.1	5.7	4.4	4.2	4.3	3.9	3.5
87,5°	1.3	1.5	1.8	1.9	1.8	1.6	1.6	1.6	1.5	1.5
90,0°	0.2	0.3	0.4	0.4	0.5	0.4	0.4	0.4	0.4	0.4
92,5°	0.0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
95,0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
97,5°	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
102,5°	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
107,5°	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0

Photometric test report

Family Licross® Recessed	Order number: 56TL197C4X31 EAN: 4058352862605	LP number 59463_1
Table of values for luminous intensities		Maximum luminous intensity
		sitEco

C-planes	50°	55°	60°	65°	70°	75°	80°	85°	90°	Phi-zone	Total Phi-zone	
	130°	125°	120°	115°	110°	105°	100°	95°				
	230°	235°	240°	245°	250°	255°	260°	265°	270°			
	310°	305°	300°	295°	290°	285°	280°	275°				
γ	Luminous intensity in cd/klm										Luminous flux in lm/klm	
0,0°	243.7	243.7	243.7	243.7	243.7	243.7	243.7	243.7	243.7	0.4	0.4	
2,5°	239.1	239.5	240.0	240.5	241.2	241.9	242.8	243.4	243.8	2.9	3.2	
5,0°	235.0	236.1	237.3	238.7	240.1	241.4	242.6	243.5	244.1	5.6	8.8	
7,5°	230.2	232.1	234.2	236.3	238.4	240.4	241.9	243.1	243.7	8.3	17.1	
10,0°	224.7	227.2	229.9	232.8	235.7	238.5	240.9	242.5	243.2	10.7	27.8	
12,5°	218.2	221.3	224.8	228.4	232.3	236.2	239.6	242.1	243.2	13.0	40.8	
15,0°	210.9	214.9	219.1	223.7	228.6	233.6	238.2	241.7	243.3	15.0	55.8	
17,5°	202.9	207.8	212.9	218.4	224.4	230.6	236.4	240.9	242.9	16.7	72.5	
20,0°	193.9	199.9	205.9	212.3	219.4	227.0	234.1	239.5	241.9	18.1	90.6	
22,5°	183.7	190.9	198.2	205.7	213.9	222.7	231.2	237.5	240.2	19.0	109.6	
25,0°	172.2	181.3	190.1	198.9	208.4	218.7	228.5	235.9	239.0	19.4	129.0	
27,5°	159.0	170.6	181.7	192.5	203.9	216.2	228.0	236.9	240.6	19.4	148.4	
30,0°	143.0	158.2	172.8	186.9	201.5	216.8	231.4	242.4	246.7	19.4	167.8	
32,5°	124.1	143.2	162.7	182.1	201.6	221.1	239.3	252.9	258.2	19.7	187.5	
35,0°	104.3	125.7	150.7	177.4	203.9	229.4	252.3	269.1	275.4	20.4	207.8	
37,5°	87.7	107.9	136.8	171.6	207.6	241.4	270.5	291.1	298.9	21.4	229.3	
40,0°	76.2	92.2	121.8	164.0	211.4	256.4	294.1	319.5	328.9	22.8	252.1	
42,5°	68.9	80.0	107.3	154.4	214.2	273.5	322.5	354.6	366.3	24.5	276.6	
45,0°	64.2	71.3	94.2	143.1	215.2	291.9	355.6	396.5	411.2	26.4	303.0	
47,5°	60.9	65.2	83.0	130.4	213.4	310.9	394.0	446.3	464.6	28.6	331.7	
50,0°	58.4	60.6	73.7	117.1	208.7	331.1	440.3	508.0	531.0	31.4	363.0	
52,5°	56.3	57.2	66.6	104.6	202.7	355.7	500.0	589.0	618.5	34.9	398.0	
55,0°	54.6	54.7	61.5	94.4	197.9	387.9	580.4	698.9	736.8	39.7	437.7	
57,5°	53.3	52.9	58.2	87.5	195.8	430.6	692.3	855.8	906.2	46.2	483.9	
60,0°	52.3	51.6	56.2	83.1	196.1	483.8	845.5	1079.2	1148.5	55.0	538.9	
62,5°	51.5	50.5	54.5	79.0	193.7	534.1	1019.5	1342.9	1433.7	65.0	603.9	
65,0°	50.1	48.7	52.0	73.4	182.5	556.6	1156.7	1553.5	1654.2	72.8	676.7	
67,5°	47.5	45.7	48.7	67.7	166.2	542.5	1213.4	1656.8	1754.9	76.2	752.9	
70,0°	43.6	42.0	45.4	64.7	154.3	506.4	1177.3	1644.5	1741.8	75.1	828.0	
72,5°	38.1	37.1	41.6	62.1	142.4	448.0	1035.2	1453.5	1547.1	67.1	895.1	
75,0°	30.5	30.5	35.7	54.4	117.0	346.2	773.2	1040.5	1096.2	50.3	945.4	
77,5°	21.3	22.5	27.5	41.3	80.8	216.2	458.6	562.7	567.7	29.9	975.3	
80,0°	12.8	14.6	18.8	27.2	48.2	108.3	210.5	238.2	231.0	14.6	989.9	
82,5°	7.2	8.7	11.7	15.7	25.6	46.0	76.5	90.6	92.5	6.5	996.4	
85,0°	3.8	4.7	6.3	7.7	11.6	16.8	23.5	32.1	36.4	2.6	998.9	
87,5°	1.7	2.1	2.7	3.0	4.0	5.0	6.3	9.0	10.6	0.8	999.8	
90,0°	0.5	0.6	0.8	0.8	1.0	1.1	1.4	1.7	2.0	0.2	1000.0	
92,5°	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.3	0.3	0.0	1000.0	
95,0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1000.0	
97,5°	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	1000.0	
102,5°	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	1000.0	
107,5°	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	1000.0	

Photometric test report

Family Licross® Recessed	Order number: 56TL197C4X31 EAN: 4058352862605	LP number 59463_1
Table of values for luminous intensities		Maximum luminous intensity



C-planes	0° 180°	5°	10°	15°	20°	25°	30°	35°	40°	45°
		175° 185° 355°	170° 190° 350°	165° 195° 345°	160° 200° 340°	155° 205° 335°	150° 210° 330°	145° 215° 325°	140° 220° 320°	135° 225° 315°
Luminous intensity in cd/klm										
γ										
112,5°	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
117,5°	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
122,5°	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
127,5°	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
132,5°	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
137,5°	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
142,5°	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
147,5°	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
152,5°	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
157,5°	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
162,5°	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
167,5°	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
172,5°	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
177,5°	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0

Photometric test report

Family Licross® Recessed	Order number: 56TL197C4X31 EAN: 4058352862605	LP number 59463_1
Table of values for luminous intensities		Maximum luminous intensity
		siteco

C-planes	50°	55°	60°	65°	70°	75°	80°	85°	90°	Phi-zone	Total Phi-zone	
	130°	125°	120°	115°	110°	105°	100°	95°				
	230°	235°	240°	245°	250°	255°	260°	265°	270°			
	310°	305°	300°	295°	290°	285°	280°	275°				
γ	Luminous intensity in cd/klm										Luminous flux in lm/klm	
112,5°	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	1000.0
117,5°	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	1000.0
122,5°	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	1000.0
127,5°	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	1000.0
132,5°	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	1000.0
137,5°	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	1000.0
142,5°	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	1000.0
147,5°	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	1000.0
152,5°	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	1000.0
157,5°	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	1000.0
162,5°	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	1000.0
167,5°	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	1000.0
172,5°	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	1000.0
177,5°	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0	1000.0

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UGR-Table	Standard room	siteco
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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	29.6	31.5	29.9	31.8	32.2	43.2	45.2	43.6	45.5	45.8
	3H	33.4	35.2	33.8	35.6	35.9	50.2	51.9	50.6	52.3	52.6
	4H	34.4	36.2	34.8	36.6	36.9	52.2	53.8	52.6	54.1	54.5
	6H	34.8	36.5	35.2	36.9	37.3	52.8	54.2	53.2	54.6	55.0
	8H	34.8	36.5	35.2	36.9	37.3	53.0	54.2	53.4	54.6	55.0
	12H	34.8	36.5	35.2	36.8	37.3	53.1	54.1	53.5	54.5	54.9
4H	2H	30.5	32.1	30.9	32.5	32.8	42.9	44.7	43.3	45.1	45.4
	3H	34.3	35.7	34.7	36.1	36.5	49.9	51.4	50.3	51.8	52.2
	4H	35.4	36.8	35.9	37.2	37.6	51.9	53.3	52.4	53.7	54.1
	6H	35.9	37.1	36.3	37.6	38.0	52.6	53.7	53.0	54.1	54.6
	8H	35.9	37.1	36.4	37.6	38.0	52.7	53.7	53.2	54.1	54.6
	12H	36.0	37.1	36.4	37.5	38.0	52.8	53.6	53.3	54.1	54.5
8H	4H	35.9	36.8	36.3	37.3	37.7	51.8	53.0	52.3	53.4	53.9
	6H	36.4	37.2	36.8	37.7	38.2	52.4	53.4	52.9	53.8	54.3
	8H	36.4	37.2	36.9	37.7	38.2	52.5	53.3	53.0	53.8	54.3
	12H	36.5	37.2	37.0	37.7	38.2	52.6	53.3	53.1	53.8	54.3
12H	4H	36.0	36.8	36.5	37.2	37.7	51.8	52.9	52.2	53.4	53.8
	6H	36.5	37.2	37.0	37.6	38.2	52.4	53.3	52.9	53.7	54.3
	8H	36.6	37.2	37.1	37.7	38.2	52.5	53.2	53.0	53.7	54.2

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	L = 12	B = 12
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C-planes	γ	10°	20°	30°	40°	50°	60°	70°	80°	90°	
		170° 190° 350°	160° 200° 340°	150° 210° 330°	140° 220° 320°	130° 230° 310°	120° 240° 300°	110° 250° 290°	100° 260° 280°	270°	
		Luminance in cd/m²									
45,0°		196281.1	194925.8	189534.1	191301.8	188532.3	189003.8	277421.6	633891.8	1047726.0	1211450.7
50,0°		234590.2	228659.0	211416.4	206554.7	199780.9	189182.5	238965.7	676513.0	1427052.5	1721019.5
55,0°		320358.3	305575.4	266638.4	239615.0	219529.0	198208.1	223233.8	718735.9	2107936.1	2676336.1
60,0°		427250.0	404500.0	344708.3	292333.3	252791.7	218083.3	234208.3	817125.0	3522745.8	4785412.5
65,0°		531113.7	501930.5	427000.8	351726.0	293606.2	246972.3	256387.8	899551.0	5702047.9	8154517.3
70,0°		594141.4	559482.2	478590.2	393190.8	322288.5	265578.9	276482.3	939759.5	7171233.3	10609749.1
75,0°		459619.7	450604.4	412128.4	344272.1	293802.4	245586.6	287523.9	942019.2	6223540.6	8823724.4
80,0°		235989.6	267542.9	282419.7	195078.4	172763.1	154047.1	226031.7	577796.6	2524980.9	2771288.3
85,0°		108283.2	131708.7	136250.3	100395.0	94180.1	91789.7	151309.6	277281.4	560777.7	870807.0

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Luminance values in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85°

