

i-P65+



The i-P65+ luminaire was developed specifically for requirements in industrial environments. With a combination of high-efficiency LEDs and special optics, the i-P65+ provides optimum performance for a variety of applications.

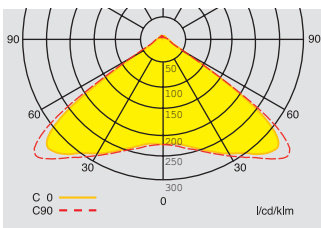
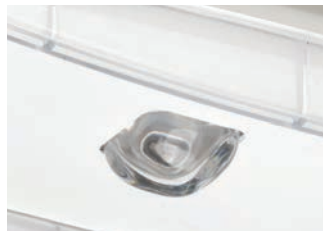
The housing construction features an IP65 protection rating and IK08 impact resistance, making it ideal for ambient conditions in the industrial sector. The photometric and electronic components including batteries are designed for reliable functionality with continuous ambient temperatures up to 40°C. The luminaires can therefore be reliably used in halls where machines or processes cause increased temperatures.

Because of the high light output – also with battery operation – the i-P65+ is also suitable for applications in which more than 1 lx is required, e.g. for high risk task areas workstations where according to EN 1838 at least 15 lx or 10 % of general lighting is required, or in emergency lighting systems where a mean illuminance of 10.8 lx is specified by the North American NFPA 101 standard.

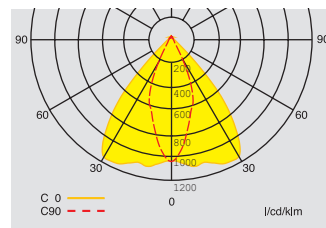
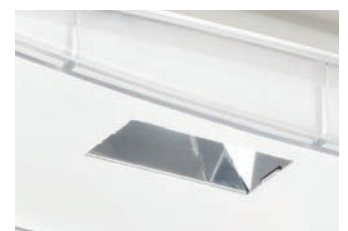
The i-P65+ is of course also available with EATON CGLine+ technology for highly convenient and reliable monitoring of the lighting system.



The lens optic emits almost square light distribution over a very large area. This makes it especially suitable for large halls where no fixed escape route can be defined due to changing uses, meaning the complete area must be illuminated. A maximum spacing of up to 24 m between luminaires reduces the number of required light points. An application range up to 17 m enables mounting at the normally occurring heights.



The reflector solution was specifically developed for extreme mounting heights in combination with tight escape routes, e.g. with highbay racking applications, where in the case of wrong light distribution more light is distributed into the shelving than for safety along the escape routes. Here mounting heights to 35 m and luminaire spacing to 24 m are possible. This reduction in the quantity of luminaires needed leads to reduced installation- and operating costs.



i-P65+ with Polycarbonate enclosure

Self-contained luminaires



i-P65+

- LED safety luminaire with high ingress protection class (IP65) for both indoor and outdoor use
- Robust design (IK08) made from impact-resistant polycarbonate
- i-P65+ L: with wide-beam symmetrical lense with a near-square light distribution, i-P65+ L variant is suitable for illuminating large areas (Spacing in both direction up to 22 m for E= 1lx) and mounting heights up to 18 m (for 1 h rated operating time)
- i-P65+ H: With narrow-beam reflector technology, the i-P65+ H variant is especially suitable for escape route lighting with high spacing up to 29 m and mounting heights up to 21 m (for 1 h rated operating time)
- High lumen output ensures additional suitability for increased illumination levels such as min. 15 lx for high risk task areas or applications with 10.8 lx acc. to NFPA 101
- With provisions for M20 cable entries on enclosures sides (3 x lateral and 1 x at each end side) and BESA entry on rear
- Minimum maintenance effort and increased safety via use of LEDs with high service life (up to 60,000 h)
- Suitable for non-maintained and maintained operation
- Available as unmonitored, Auto-Test (AT) and CGLine+ variant

i-P65+ L variant



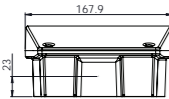
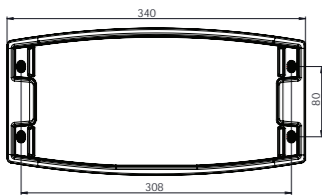
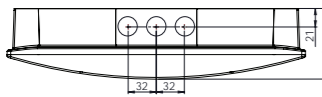
i-P65+ H variant



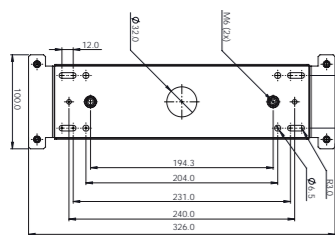
Function	L variants = Anti Panic, Escape Route	H variants = Escape Route
Testing system	Unmonitored, Auto-Test or Addressable (CGLine+) versions available	
Housing	Polycarbonate, Glow wire test : 850°C, RAL9016	
Type of mounting	Surface ceiling	
Terminals	Plug-in Terminals - 0.5 - 2.5 mm ²	
Operation Mode	Maintained & Non Maintained mode selectable	
Connection voltage	230-240V - 50/60 Hz	
Permissible ambient temperature	+5°C to +40°C	
Battery	Ni-Cd	
Light source	COB LED 6.5W	
Insulation class	I	
Dimensions in mm	340 x 168 x 80.5	
Weight (kg)	1.75	

Ordering details

Dimensions in mm



Mounting bracket



Order code	Monitoring	Optics	Duration	Consumption							
				Lum in emergency mode	Lum in mains mode	Non Maintained mode	Maintained mode	Battery	Battery		
iP65PLP1H	Unmonitored	Lens (L)	1h	740	900	3.8 VA	2.8 W	21.9 VA	10.1 W	7.2 V	1.6 Ah
iP65PHP1H		Reflector (H)	1h	560	690	3.8 VA	2.8 W	21.9 VA	10.1 W	7.2 V	1.6 Ah
iP65PLP3H		Lens (L)	3h	510	900	4.4 VA	3.2 W	21.7 VA	10.7 W	4.8 V	4 Ah
iP65PHP3H	Automatic Test (AT)	Reflector (H)	3h	380	690	4.4 VA	3.2 W	21.7 VA	10.7 W	4.8 V	4 Ah
iP65PLP1HIS		Lens (L)	1h	740	900	3.8 VA	2.8 W	21.9 VA	10.1 W	7.2 V	1.6 Ah
iP65PHP1HIS		Reflector (H)	1h	560	690	3.8 VA	2.8 W	21.9 VA	10.1 W	7.2 V	1.6 Ah
iP65PLP3HIS	CGLine+	Lens (L)	3h	510	900	4.4 VA	3.2 W	21.7 VA	10.7 W	4.8 V	4 Ah
iP65PHP3HIS		Reflector (H)	3h	380	690	4.4 VA	3.2 W	21.7 VA	10.7 W	4.8 V	4 Ah
iP65PLP1HCGL		Lens (L)	1h	740	900	4.4 VA	3.2 W	21.7 VA	10.1 W	7.2 V	1.6 Ah
iP65PHP1HCGL	CGLine+	Reflector (H)	1h	560	690	4.4 VA	3.2 W	21.7 VA	10.1 W	7.2 V	1.6 Ah
iP65PLP3HCGL		Lens (L)	3h	510	900	4.4 VA	3.2 W	21.7 VA	10.7 W	4.8 V	4 Ah
iP65PHP3HCGL		Reflector (H)	3h	380	690	4.4 VA	3.2 W	21.7 VA	10.7 W	4.8 V	4 Ah

One M20 cable gland included

Accessories

Order code	Scope of supply
IP65PSUSPB	Mounting bracket for chain suspension or for mounting at trunking systems or similar

i-P65+ with Aluminium enclosure

Self-contained luminaires



i-P65+

- LED safety luminaire with high ingress protection class (IP65) for both indoor and outdoor use
- Robust design (IK08) made from aluminium die-cast and impact-resistant polycarbonate
- i-P65+ L: with wide-beam symmetrical lense with a near-square light distribution, i-P65+ L variant is suitable for illuminating large areas (Spacing in both direction up to 22 m for E= 1lx) and mounting heights up to 18 m (for 1 h rated operating time)
- i-P65+ H: With narrow-beam reflector technology, the i-P65+ H variant is especially suitable for escape route lighting with high spacing up to 29 m and mounting heights up to 21 m (for 1 h rated operating time)
- High lumen output ensures additional suitability for increased illumination levels such as min. 15 lx for high risk task areas or applications with 10.8 lx acc. to NFPA 101
- With provisions for M20 cable entries on enclosures sides (3 x lateral and 1 x at each end side) and BESA entry on rear
- Minimum maintenance effort and increased safety via use of LEDs with high service life (up to 60,000 h)
- Suitable for non-maintained and maintained operation

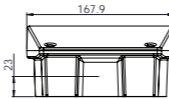
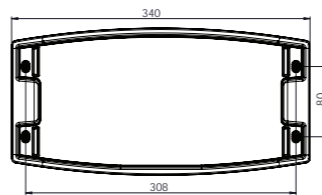
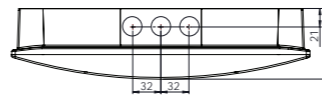
i-P65+ L variant



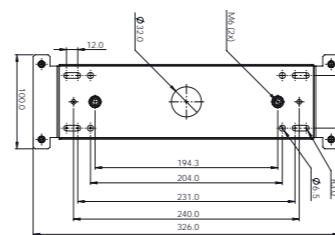
i-P65+ H variant



Dimensions in mm



Mounting bracket



Function	L variants = Anti Panic, Escape Route	H variants = Escape Route
Testing system	CGLine+	
Housing	Aluminium, Polycarbonate, Glow wire test : 850°C, RAL9016	
Type of mounting	Surface ceiling	
Terminals	Plug-in Terminals - 0.5 - 2.5 mm ²	
Operation Mode	Maintained & Non Maintained mode selectable	
Connection voltage	230-240V - 50/60 Hz	
Permissible ambient temperature	+5°C to +40°C	
Battery	Ni-Cd	
Light source	COB LED 6.5W	
Insulation class	I	
Dimensions in mm	340 x 168 x 80.5	
Weight (kg)	2.25	

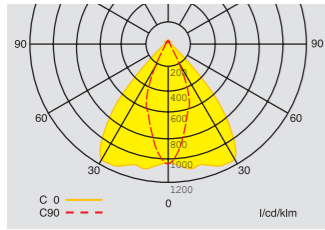
Ordering details

Order code	Monitoring	Optics	Duration	Consumption							
				Lum in emergency mode	Lum in mains mode	Non Maintained mode	Maintained mode	Battery	Battery		
iP65PLA3HCGL	CGLine+	Lens (L)	3h	510	900	4.4 VA	3.2 W	21.7 VA	10.7 W	4.8 V	4 Ah
iP65PHA3HCGL		Reflector (H)	3h	380	690	4.4 VA	3.2 W	21.7 VA	10.7 W	4.8 V	4 Ah

One M20 cable gland included

Accessories

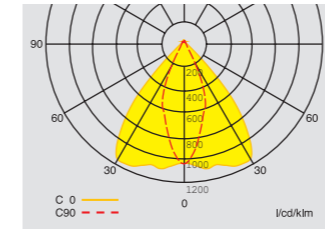
Order code	Scope of supply
IP65PSUSPB	Mounting bracket for chain suspension or for mounting at trunking systems or similar



Light distribution curve
i-P65+ H
narrow-beam reflector technology

Planning assistance for i-P65+ H - Asymmetric optics for E = 1.0 lx (0.5 lx)
Measuring height 0.02 m, maintenance factor MF = 80 %, battery operation

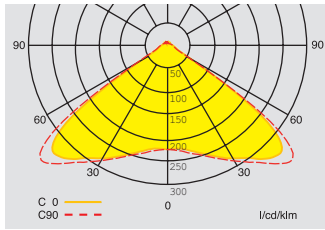
Duration of Mounting emergency height operation	Type of mounting in metres	Type of mounting				
		L1	L2	L3	L4	
1 h	3 Ceiling mounting	0.6 (11.4)	19.0 (28.9)	0.6 (11.3)	19.0 (28.9)	
	4 Room illumination	0.6 (10.7)	18.5 (30.8)	0.6 (10.4)	18.5 (30.7)	
	5	0.6 (7.7)	18.7 (31.1)	0.6 (8.4)	18.7 (31.2)	
	6	3.9 (4.0)	11.1 (11.5)	3.3 (3.8)	7.0 (7.9)	
	7	4.4 (4.6)	12.6 (13.3)	3.7 (4.1)	7.9 (8.6)	
	8	6.2 (5.1)	14.3 (14.9)	3.8 (4.4)	8.6 (9.5)	
	9	6.3 (5.6)	15.7 (16.5)	4.0 (4.7)	9.4 (10.4)	
	10	6.9 (6.0)	17.2 (18.0)	4.1 (5.1)	10.0 (11.3)	
	11	7.1 (6.4)	18.4 (19.5)	4.3 (5.3)	10.7 (12.1)	
	12	7.4 (6.9)	19.7 (21.0)	4.4 (5.5)	11.3 (12.9)	
	13	7.4 (8.8)	20.9 (22.6)	4.4 (5.6)	11.9 (13.5)	
	14	7.8 (9.1)	22.3 (23.9)	4.2 (5.8)	12.3 (14.2)	
	15	7.1 (9.6)	23.2 (25.3)	4.2 (5.9)	12.9 (14.8)	
	16	7.6 (9.7)	24.6 (26.5)	3.7 (6.0)	13.1 (15.5)	
	17	7.7 (10.3)	25.8 (27.9)	3.3 (6.0)	13.3 (16.0)	
	18	7.9 (10.6)	27.2 (29.3)	2.6 (5.9)	13.2 (16.5)	
	19	7.9 (10.6)	28.4 (30.4)	2.0 (6.0)	13.1 (17.1)	
	20	7.7 (10.5)	29.4 (31.6)	1.5 (5.8)	13.0 (17.6)	
	21	7.4 (10.2)	30.4 (32.7)	0.8 (5.7)	12.8 (18.1)	
	22	5.5 (10.1)	29.8 (33.8)	0.5 (5.5)	12.6 (18.5)	
	23	3.6 (10.2)	29.4 (35.0)	0.5 (5.2)	12.2 (18.8)	
	24	3.6 (10.5)	30.4 (36.3)	0.5 (4.7)	11.3 (18.9)	
	25	4.1 (10.8)	31.6 (37.7)	0.5 (4.0)	10.4 (18.8)	
	26	0.5 (11.1)	19.9 (39.2)	1.0 (3.1)	15.7 (18.6)	
	27	0.5 (11.1)	18.9 (40.3)	0.9 (2.5)	16.3 (18.5)	
	28	0.5 (10.9)	18.3 (41.4)	0.6 (1.9)	16.6 (18.4)	
	3 h	3 Ceiling mounting	2.1 (1.8)	5.6 (6.1)	2.3 (2.5)	4.5 (6.1)
		4 Room illumination	3.9 (2.6)	7.6 (7.5)	2.5 (3.0)	4.9 (6.3)
5		3.3 (3.5)	9.1 (9.6)	3.0 (3.2)	5.9 (6.5)	
6		3.8 (4.0)	10.7 (11.3)	3.2 (3.5)	6.7 (7.3)	
7		4.9 (4.5)	12.2 (12.9)	3.4 (3.9)	7.5 (8.2)	
8		5.7 (4.9)	13.8 (14.4)	3.5 (4.2)	8.1 (9.1)	
9		5.5 (5.4)	14.9 (16.0)	3.7 (4.4)	8.9 (9.9)	
10		6.4 (6.7)	16.5 (17.5)	3.6 (4.6)	9.3 (10.7)	
11		6.1 (6.2)	17.5 (18.7)	3.8 (4.9)	10.0 (11.5)	
12		5.9 (8.1)	18.7 (20.5)	3.6 (4.8)	10.5 (11.9)	
13		6.2 (8.2)	20.0 (21.7)	3.3 (5.0)	10.8 (12.6)	
14		6.4 (8.5)	21.2 (23.0)	2.9 (5.0)	11.0 (13.2)	
15	6.6 (8.2)	22.6 (24.0)	2.2 (5.2)	10.9 (13.9)		
16	6.6 (9.1)	23.7 (25.6)	1.6 (4.9)	10.8 (14.2)		
17	6.5 (8.5)	24.9 (26.6)	1.0 (4.9)	10.6 (14.8)		
18	6.0 (8.5)	25.9 (27.8)	0.5 (4.6)	10.0 (15.2)		
19	3.2 (8.6)	24.4 (28.9)	0.5 (4.3)	10.0 (15.5)		
20	3.0 (8.8)	25.3 (30.2)	0.5 (3.8)	9.2 (15.6)		



Light distribution curve
i-P65+ H
narrow-beam reflector technology

Planning assistance for i-P65+ H - Asymmetric optics for E = 1.0 lx (0.5 lx)
Measuring height 0.02 m, maintenance factor MF = 80 %, battery operation

Duration of Mounting emergency height operation	Type of mounting in metres	Type of mounting				
		L1	L2	L3	L4	
1 h	3 Ceiling mounting	3.2 (3.5)	7.0 (8.0)	2.3 (2.8)	5.7 (7.3)	
	4 Escape route centre	4.2 (4.4)	8.7 (9.5)	2.5 (3.2)	6.4 (8.0)	
	5	5.1 (5.3)	10.6 (11.1)	3.0 (3.4)	6.8 (8.6)	
	6	5.9 (6.2)	12.4 (12.9)	3.4 (3.7)	7.5 (9.1)	
	7	6.7 (7.1)	14.2 (14.8)	3.8 (4.2)	8.3 (9.6)	
	8	7.5 (8.0)	16.0 (16.6)	4.2 (4.6)	9.2 (10.2)	
	9	8.2 (8.8)	17.6 (18.5)	4.5 (5.0)	10.0 (11.0)	
	10	8.8 (9.6)	19.2 (20.3)	4.8 (5.4)	10.8 (11.9)	
	11	9.4 (10.3)	20.7 (22.0)	5.0 (5.8)	11.5 (12.7)	
	12	9.8 (11.1)	22.1 (23.7)	5.1 (6.1)	12.2 (13.6)	
	13	10.2 (11.7)	23.5 (25.4)	5.2 (6.4)	12.8 (14.4)	
	14	10.5 (12.4)	24.7 (27.0)	5.2 (6.7)	13.4 (15.2)	
	15	10.7 (13.0)	25.9 (28.4)	5.0 (6.9)	13.8 (15.9)	
	16	10.8 (13.5)	27.0 (29.9)	4.4 (7.1)	14.2 (16.6)	
	17	10.8 (13.9)	27.9 (31.3)	4.0 (7.3)	14.3 (17.3)	
	18	10.7 (14.3)	28.6 (32.7)	3.5 (7.3)	14.2 (17.9)	
	19	10.1 (14.6)	29.2 (34.0)	2.9 (7.3)	14.1 (18.5)	
	20	8.8 (14.9)	29.7 (35.2)	2.3 (7.3)	13.9 (19.0)	
	21	5.8 (15.1)	29.7 (36.5)	1.3 (7.1)	13.6 (19.5)	
	3 h	3 Ceiling mounting	3.1 (3.3)	6.6 (7.4)	2.0 (2.5)	5.1 (6.4)
		4 Escape route centre	4.1 (4.2)	8.5 (9.0)	2.4 (2.8)	5.6 (7.0)
5		4.9 (5.2)	10.3 (10.8)	2.8 (3.1)	6.2 (7.6)	
6		5.7 (6.1)	12.1 (12.6)	3.2 (3.5)	7.1 (8.0)	
7		6.4 (6.9)	13.8 (14.4)	3.6 (4.0)	7.9 (8.7)	
8		7.1 (7.7)	15.5 (16.3)	3.9 (4.4)	8.7 (9.6)	
9		7.7 (8.5)	17.0 (18.1)	4.1 (4.7)	9.5 (10.4)	
10		8.2 (9.2)	18.4 (19.8)	4.2 (5.1)	10.2 (11.3)	
11		8.5 (9.9)	19.7 (21.4)	4.3 (5.4)	10.8 (12.1)	
12		8.8 (10.5)	21.0 (22.9)	4.2 (5.6)	11.3 (12.9)	
13		8.9 (11.0)	22.1 (24.4)	3.7 (5.8)	11.7 (13.6)	
14		9.0 (11.5)	23.0 (25.8)	3.3 (6.0)	11.8 (14.3)	
15		8.8 (11.9)	23.7 (27.2)	2.8 (6.1)	11.7 (14.9)	
16		8.0 (12.2)	24.3 (28.5)	2.2 (6.0)	11.6 (15.5)	
17		6.2 (12.4)	24.8 (29.7)	1.5 (5.9)	11.4 (15.9)	
18		- (12.5)	21.8 (30.8)	- (5.5)	11.0 (16.4)	



Light distribution curve
i-P65+ L
wide-beam symmetrical lens

Planning assistance for i-P65+ L - Asymmetric optics for E = 1.0 lx (0.5 lx)

Measuring height 0.02 m. maintenance factor MF = 80 %. battery operation

Duration of emergency operation	Mounting height in metres	Type of mounting	Type of mounting				
			L1	L2	L3	L4	
1 h	3	Ceiling mounting	4.5 (4.7)	9.4 (9.9)	4.5 (4.8)	9.5 (10.2)	
	4	Escape route centre	5.8 (6.1)	12.1 (12.6)	5.8 (6.1)	12.2 (12.9)	
	5		7.0 (7.4)	14.7 (15.3)	6.9 (7.4)	14.7 (15.6)	
	6		7.9 (8.6)	17.2 (18.1)	7.8 (8.5)	17.1 (18.2)	
	7		8.6 (9.8)	19.5 (20.7)	8.3 (9.6)	19.2 (20.6)	
	8		8.9 (10.8)	21.6 (23.2)	8.5 (10.6)	21.1 (23.1)	
	9		8.4 (11.6)	23.1 (25.6)	8.0 (11.3)	22.4 (25.3)	
	10		7.1 (12.2)	23.4 (27.8)	6.8 (11.8)	22.9 (27.4)	
	11		4.9 (12.6)	23.3 (29.9)	4.7 (12.1)	22.6 (29.3)	
	3 h	3	Ceiling mounting	4.4 (4.6)	9.2 (9.5)	4.4 (4.6)	9.3 (9.8)
		4	Escape route centre	5.6 (5.9)	11.8 (12.3)	5.5 (5.9)	11.8 (12.5)
5			6.6 (7.2)	14.3 (15.0)	6.5 (7.1)	14.2 (15.1)	
6			7.2 (8.3)	16.6 (17.6)	7.0 (8.2)	16.4 (17.6)	
7			7.4 (9.3)	18.5 (20.1)	7.0 (9.1)	18.1 (20.0)	
8			6.4 (10.0)	19.5 (22.5)	6.1 (9.7)	19.0 (22.2)	
9			4.6 (10.4)	19.5 (24.6)	4.5 (10)	18.9 (24.1)	
1 h	10		- (10.4)	15.5 (26.4)	- (9.9)	15.0 (25.8)	
	3	Ceiling mounting	4.3 (4.0)	8.4 (9.3)	4.2 (4.0)	8.3 (9.2)	
	4	Room illumination	5.4 (5.5)	10.8 (11.4)	5.3 (5.4)	10.7 (11.3)	
	5		6.2 (6.7)	13.1 (13.7)	6.3 (6.6)	13.1 (13.6)	
	6		7.1 (7.7)	15.4 (16.1)	6.9 (7.6)	15.3 (16.0)	
	7		7.5 (8.6)	17.5 (18.4)	7.5 (8.6)	17.5 (18.4)	
	8		8.0 (9.3)	19.5 (20.7)	7.9 (9.3)	19.5 (20.7)	
	9		8.3 (10.0)	21.4 (22.9)	8.0 (9.9)	21.3 (22.9)	
	10		5.5 (10.4)	22.0 (25.0)	5.8 (10.4)	22.0 (25.0)	
	11		4.2 (11)	21.7 (27.0)	4.2 (10.9)	21.7 (27.0)	
	12		0.6 (11.4)	19.0 (28.9)	0.6 (11.3)	19.0 (28.9)	
	13		0.6 (10.7)	18.5 (30.8)	0.6 (10.4)	18.5 (30.7)	
	14		0.6 (7.7)	18.7 (31.1)	0.6 (8.4)	18.7 (31.2)	
	15		0.5 (6.0)	19.1 (31.0)	0.5 (6.2)	19.1 (31.0)	
	16		0.5 (5.1)	19.2 (30.5)	0.5 (4.8)	19.2 (30.5)	
	17		0.5 (7.9)	19.1 (35.1)	0.5 (0.5)	19.1 (23.3)	
	18		0.5 (7.5)	18.8 (36.5)	0.5 (0.5)	18.8 (22.9)	
	3 h	3	Ceiling mounting	4.2 (4.2)	8.2 (8.7)	4.1 (4.2)	8.1 (8.7)
4		Room illumination	5.2 (5.5)	10.5 (11.0)	5.2 (5.4)	10.5 (10.9)	
5			5.9 (6.5)	12.8 (13.4)	5.9 (6.4)	12.8 (13.3)	
6			6.3 (7.4)	14.9 (15.7)	6.4 (7.4)	15.0 (15.7)	
7			6.8 (8.2)	16.9 (18.0)	6.8 (8.0)	16.9 (17.9)	
8			5.0 (8.7)	18.5 (20.2)	5.4 (8.5)	18.4 (20.1)	
9			3.6 (9.1)	18.2 (22.2)	3.7 (9.0)	18.2 (22.2)	
10			0.5 (9.5)	16.0 (24.1)	0.5 (9.5)	16.0 (24.1)	
11			0.5 (7.8)	15.8 (25.9)	0.5 (8.4)	15.8 (25.9)	
12			0.5 (6.0)	15.8 (26.0)	0.5 (6.0)	15.7 (25.9)	
13			0.5 (4.9)	16.0 (25.6)	0.5 (0.5)	15.9 (25.5)	
14			0.5 (6.8)	16.0 (23.0)	0.5 (0.5)	15.9 (23.0)	
15			0.5 (6.3)	15.7 (22.1)	0.5 (0.5)	15.6 (22.0)	
16			0.5 (5.7)	14.8 (22.0)	0.5 (0.5)	14.8 (22.0)	
17			0.5 (0.5)	12.2 (22.2)	0.5 (0.5)	12.1 (22.2)	
18			0.5 (0.5)	9.4 (22.6)	0.5 (0.5)	9.4 (22.5)	