

Shoppingmall

DIN EN 12464 - 1

Beleuchtung von Arbeitsstätten in Innerräumen

Allgemeine Räume, Versammlungsstätten

Mittlere Beleuchtungsstärke 200 - 300 lx

Leuchten

Deckenaufbauleuchten 66 058 LPH 12 m

Deckeneinbauleuchten 66 935 LPH 4 m

Kompaktscheinwerfer 77 639 LPH 8 m

Datum: 14.06.2018

Bearbeiter(in): Lichtplanung

Bearbeiter(in) Lichtplanung
Telefon 02373 / 966 - 0
Fax 02373 / 966 - 216
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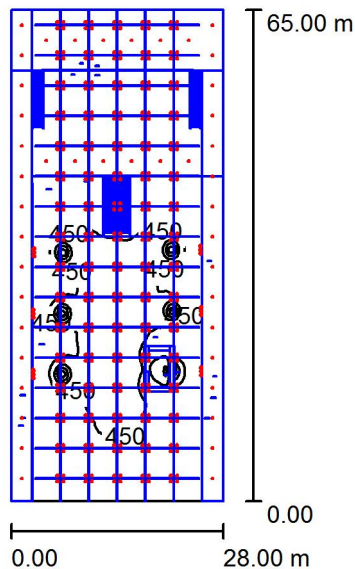
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Freiraum

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Freiraum / Zusammenfassung



Raumhöhe: 12.000 m, Wartungsfaktor: 0.80

Werte in Lux, Maßstab 1:1000

Fläche	ρ [%]	E_m [lx]	E_{min} [lx]	E_{max} [lx]	g_1
Nutzebene	/	259	0.68	2168	0.003
Boden	20	249	0.92	1901	0.004
Decken (5)	40	48	3.04	402	/
Wände (4)	46	38	1.05	226	/

Nutzebene:

Höhe: 0.850 m
 Raster: 128 x 128 Punkte
 Randzone: 0.000 m

Beleuchtungsstärkeverhältnis (nach LG7): Wände / Nutzebene: 0.143, Decke / Nutzebene: 0.186.

Leuchten-Stückliste

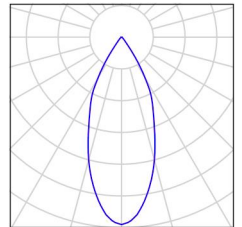
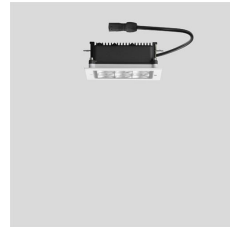
Nr.	Stück	Bezeichnung (Korrekturfaktor)	Φ (Leuchte) [lm]	Φ (Lampen) [lm]	P [W]
1	108	BEGA 24806K3 LED 21,5W (1.000)	1702	1702	22.0
2	320	BEGA 66058 LED 36,8W (1.000)	3006	3006	42.0
3	18	BEGA 77639K3 LED 47,5W (1.000)	2853	2853	54.0
Gesamt:			1197090	1197090	16788.0

Spezifischer Anschlußwert: $9.22 \text{ W/m}^2 = 3.56 \text{ W/m}^2/100 \text{ lx}$ (Grundfläche: 1820.00 m^2)

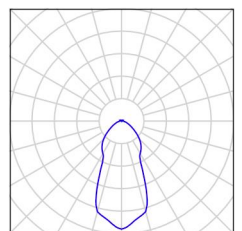
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Freiraum / Leuchtenstückliste

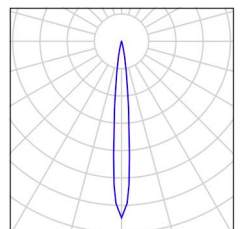
108 Stück BEGA 24806K3 LED 21,5W
 Artikel-Nr.: 24806K3
 Lichtstrom (Leuchte): 1702 lm
 Lichtstrom (Lampen): 1702 lm
 Leuchtenleistung: 22.0 W
 Leuchtenklassifikation nach DIN: A60
 CIE Flux Code: 97 99 100 100 100
 Bestückung: 1 x LED 18,3W (Korrekturfaktor 1.000).



320 Stück BEGA 66058 LED 36,8W
 Artikel-Nr.: 66058
 Lichtstrom (Leuchte): 3006 lm
 Lichtstrom (Lampen): 3006 lm
 Leuchtenleistung: 42.0 W
 Leuchtenklassifikation nach DIN: A51
 CIE Flux Code: 64 88 97 94 100
 Bestückung: 1 x LED 36,8W (Korrekturfaktor 1.000).



18 Stück BEGA 77639K3 LED 47,5W
 Artikel-Nr.: 77639K3
 Lichtstrom (Leuchte): 2853 lm
 Lichtstrom (Lampen): 2853 lm
 Leuchtenleistung: 54.0 W
 Leuchtenklassifikation nach DIN: A60
 CIE Flux Code: 100 100 100 100 101
 Bestückung: 1 x LED 48,2W (Korrekturfaktor 1.000).

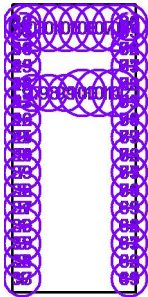


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Freiraum / Leuchten (Koordinatenliste)

BEGA 24806K3 LED 21,5W

1702 lm, 22.0 W, 1 x 1 x LED 18,3W (Korrekturfaktor 1.000).



Nr.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	1.400	3.000	7.500	0.0	0.0	180.0
2	1.400	7.000	7.500	0.0	0.0	180.0
3	1.400	11.000	7.500	0.0	0.0	180.0
4	1.400	15.000	7.500	0.0	0.0	180.0
5	1.400	19.000	7.500	0.0	0.0	180.0
6	1.400	23.000	7.500	0.0	0.0	180.0
7	1.400	27.000	7.500	0.0	0.0	180.0
8	1.400	31.000	7.500	0.0	0.0	180.0
9	1.400	35.000	7.500	0.0	0.0	180.0
10	1.400	39.000	7.500	0.0	0.0	180.0
11	1.400	43.000	7.500	0.0	0.0	180.0
12	1.400	47.000	7.500	0.0	0.0	180.0
13	1.400	51.000	7.500	0.0	0.0	180.0
14	1.400	55.000	7.500	0.0	0.0	180.0
15	1.400	59.000	7.500	0.0	0.0	180.0
16	1.400	63.000	7.500	0.0	0.0	180.0
17	1.400	3.000	3.700	0.0	0.0	180.0
18	1.400	7.000	3.700	0.0	0.0	180.0
19	1.400	11.000	3.700	0.0	0.0	180.0
20	1.400	15.000	3.700	0.0	0.0	180.0
21	1.400	19.000	3.700	0.0	0.0	180.0
22	1.400	23.000	3.700	0.0	0.0	180.0
23	1.400	27.000	3.700	0.0	0.0	180.0
24	1.400	31.000	3.700	0.0	0.0	180.0
25	1.400	35.000	3.700	0.0	0.0	180.0
26	1.400	39.000	3.700	0.0	0.0	180.0
27	1.400	43.000	3.700	0.0	0.0	180.0
28	1.400	47.000	3.700	0.0	0.0	180.0

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Nr.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
29	1.400	51.000	3.700	0.0	0.0	180.0
30	1.400	55.000	3.700	0.0	0.0	180.0
31	1.400	59.000	3.700	0.0	0.0	180.0
32	1.400	63.000	3.700	0.0	0.0	180.0
33	1.400	3.000	11.600	0.0	0.0	180.0
34	1.400	7.000	11.600	0.0	0.0	180.0
35	1.400	11.000	11.600	0.0	0.0	180.0
36	1.400	15.000	11.600	0.0	0.0	180.0
37	1.400	19.000	11.600	0.0	0.0	180.0
38	1.400	23.000	11.600	0.0	0.0	180.0
39	1.400	27.000	11.600	0.0	0.0	180.0
40	1.400	31.000	11.600	0.0	0.0	180.0
41	1.400	35.000	11.600	0.0	0.0	180.0
42	1.400	39.000	11.600	0.0	0.0	180.0
43	1.400	43.000	11.600	0.0	0.0	180.0
44	1.400	47.000	11.600	0.0	0.0	180.0
45	1.400	51.000	11.600	0.0	0.0	180.0
46	1.400	55.000	11.600	0.0	0.0	180.0
47	1.400	59.000	11.600	0.0	0.0	180.0
48	1.400	63.000	11.600	0.0	0.0	180.0
49	26.600	3.000	11.600	0.0	0.0	180.0
50	26.600	7.000	11.600	0.0	0.0	180.0
51	26.600	11.000	11.600	0.0	0.0	180.0
52	26.600	15.000	11.600	0.0	0.0	180.0
53	26.600	19.000	11.600	0.0	0.0	180.0
54	26.600	23.000	11.600	0.0	0.0	180.0
55	26.600	27.000	11.600	0.0	0.0	180.0
56	26.600	31.000	11.600	0.0	0.0	180.0
57	26.600	35.000	11.600	0.0	0.0	180.0
58	26.600	39.000	11.600	0.0	0.0	180.0
59	26.600	43.000	11.600	0.0	0.0	180.0
60	26.600	47.000	11.600	0.0	0.0	180.0
61	26.600	51.000	11.600	0.0	0.0	180.0
62	26.600	55.000	11.600	0.0	0.0	180.0
63	26.600	59.000	11.600	0.0	0.0	180.0
64	26.600	63.000	11.600	0.0	0.0	180.0
65	26.600	3.000	7.500	0.0	0.0	180.0
66	26.600	7.000	7.500	0.0	0.0	180.0

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Nr.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
67	26.600	11.000	7.500	0.0	0.0	180.0
68	26.600	15.000	7.500	0.0	0.0	180.0
69	26.600	19.000	7.500	0.0	0.0	180.0
70	26.600	23.000	7.500	0.0	0.0	180.0
71	26.600	27.000	7.500	0.0	0.0	180.0
72	26.600	31.000	7.500	0.0	0.0	180.0
73	26.600	35.000	7.500	0.0	0.0	180.0
74	26.600	39.000	7.500	0.0	0.0	180.0
75	26.600	43.000	7.500	0.0	0.0	180.0
76	26.600	47.000	7.500	0.0	0.0	180.0
77	26.600	51.000	7.500	0.0	0.0	180.0
78	26.600	55.000	7.500	0.0	0.0	180.0
79	26.600	59.000	7.500	0.0	0.0	180.0
80	26.600	63.000	7.500	0.0	0.0	180.0
81	26.600	3.000	3.700	0.0	0.0	180.0
82	26.600	7.000	3.700	0.0	0.0	180.0
83	26.600	11.000	3.700	0.0	0.0	180.0
84	26.600	15.000	3.700	0.0	0.0	180.0
85	26.600	19.000	3.700	0.0	0.0	180.0
86	26.600	23.000	3.700	0.0	0.0	180.0
87	26.600	27.000	3.700	0.0	0.0	180.0
88	26.600	31.000	3.700	0.0	0.0	180.0
89	26.600	35.000	3.700	0.0	0.0	180.0
90	26.600	39.000	3.700	0.0	0.0	180.0
91	26.600	43.000	3.700	0.0	0.0	180.0
92	26.600	47.000	3.700	0.0	0.0	180.0
93	26.600	51.000	3.700	0.0	0.0	180.0
94	26.600	55.000	3.700	0.0	0.0	180.0
95	26.600	59.000	3.700	0.0	0.0	180.0
96	26.600	63.000	3.700	0.0	0.0	180.0
97	4.650	45.000	3.700	0.0	0.0	90.0
98	8.410	45.000	3.700	0.0	0.0	90.0
99	12.170	45.000	3.700	0.0	0.0	90.0
100	15.930	45.000	3.700	0.0	0.0	90.0
101	19.690	45.000	3.700	0.0	0.0	90.0
102	23.450	45.000	3.700	0.0	0.0	90.0
103	4.650	61.000	7.500	0.0	0.0	90.0
104	8.410	61.000	7.500	0.0	0.0	90.0

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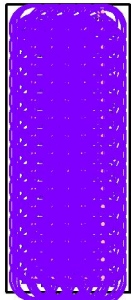
Nr.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
105	12.170	61.000	7.500	0.0	0.0	90.0
106	15.930	61.000	7.500	0.0	0.0	90.0
107	19.690	61.000	7.500	0.0	0.0	90.0
108	23.450	61.000	7.500	0.0	0.0	90.0

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Freiraum / Leuchten (Koordinatenliste)

BEGA 66058 LED 36,8W

3006 lm, 42.0 W, 1 x 1 x LED 36,8W (Korrekturfaktor 1.000).



Nr.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	6.100	2.600	12.000	0.0	0.0	0.0
2	6.100	6.600	12.000	0.0	0.0	0.0
3	6.100	10.600	12.000	0.0	0.0	0.0
4	6.100	14.600	12.000	0.0	0.0	0.0
5	6.100	18.600	12.000	0.0	0.0	0.0
6	6.100	22.600	12.000	0.0	0.0	0.0
7	6.100	26.600	12.000	0.0	0.0	0.0
8	6.100	30.600	12.000	0.0	0.0	0.0
9	6.100	34.600	12.000	0.0	0.0	0.0
10	6.100	38.600	12.000	0.0	0.0	0.0
11	6.100	42.600	12.000	0.0	0.0	0.0
12	6.100	46.600	12.000	0.0	0.0	0.0
13	6.100	50.600	12.000	0.0	0.0	0.0
14	6.100	54.600	12.000	0.0	0.0	0.0
15	6.100	58.600	12.000	0.0	0.0	0.0
16	6.100	62.600	12.000	0.0	0.0	0.0
17	9.850	2.600	12.000	0.0	0.0	0.0
18	9.850	6.600	12.000	0.0	0.0	0.0
19	9.850	10.600	12.000	0.0	0.0	0.0
20	9.850	14.600	12.000	0.0	0.0	0.0
21	9.850	18.600	12.000	0.0	0.0	0.0
22	9.850	22.600	12.000	0.0	0.0	0.0
23	9.850	26.600	12.000	0.0	0.0	0.0
24	9.850	30.600	12.000	0.0	0.0	0.0
25	9.850	34.600	12.000	0.0	0.0	0.0
26	9.850	38.600	12.000	0.0	0.0	0.0
27	9.850	42.600	12.000	0.0	0.0	0.0
28	9.850	46.600	12.000	0.0	0.0	0.0

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Nr.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
29	9.850	50.600	12.000	0.0	0.0	0.0
30	9.850	54.600	12.000	0.0	0.0	0.0
31	9.850	58.600	12.000	0.0	0.0	0.0
32	9.850	62.600	12.000	0.0	0.0	0.0
33	13.600	2.600	12.000	0.0	0.0	0.0
34	13.600	6.600	12.000	0.0	0.0	0.0
35	13.600	10.600	12.000	0.0	0.0	0.0
36	13.600	14.600	12.000	0.0	0.0	0.0
37	13.600	18.600	12.000	0.0	0.0	0.0
38	13.600	22.600	12.000	0.0	0.0	0.0
39	13.600	26.600	12.000	0.0	0.0	0.0
40	13.600	30.600	12.000	0.0	0.0	0.0
41	13.600	34.600	12.000	0.0	0.0	0.0
42	13.600	38.600	12.000	0.0	0.0	0.0
43	13.600	42.600	12.000	0.0	0.0	0.0
44	13.600	46.600	12.000	0.0	0.0	0.0
45	13.600	50.600	12.000	0.0	0.0	0.0
46	13.600	54.600	12.000	0.0	0.0	0.0
47	13.600	58.600	12.000	0.0	0.0	0.0
48	13.600	62.600	12.000	0.0	0.0	0.0
49	17.350	2.600	12.000	0.0	0.0	0.0
50	17.350	6.600	12.000	0.0	0.0	0.0
51	17.350	10.600	12.000	0.0	0.0	0.0
52	17.350	14.600	12.000	0.0	0.0	0.0
53	17.350	18.600	12.000	0.0	0.0	0.0
54	17.350	22.600	12.000	0.0	0.0	0.0
55	17.350	26.600	12.000	0.0	0.0	0.0
56	17.350	30.600	12.000	0.0	0.0	0.0
57	17.350	34.600	12.000	0.0	0.0	0.0
58	17.350	38.600	12.000	0.0	0.0	0.0
59	17.350	42.600	12.000	0.0	0.0	0.0
60	17.350	46.600	12.000	0.0	0.0	0.0
61	17.350	50.600	12.000	0.0	0.0	0.0
62	17.350	54.600	12.000	0.0	0.0	0.0
63	17.350	58.600	12.000	0.0	0.0	0.0
64	17.350	62.600	12.000	0.0	0.0	0.0
65	21.100	2.600	12.000	0.0	0.0	0.0
66	21.100	6.600	12.000	0.0	0.0	0.0

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Nr.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
67	21.100	10.600	12.000	0.0	0.0	0.0
68	21.100	14.600	12.000	0.0	0.0	0.0
69	21.100	18.600	12.000	0.0	0.0	0.0
70	21.100	22.600	12.000	0.0	0.0	0.0
71	21.100	26.600	12.000	0.0	0.0	0.0
72	21.100	30.600	12.000	0.0	0.0	0.0
73	21.100	34.600	12.000	0.0	0.0	0.0
74	21.100	38.600	12.000	0.0	0.0	0.0
75	21.100	42.600	12.000	0.0	0.0	0.0
76	21.100	46.600	12.000	0.0	0.0	0.0
77	21.100	50.600	12.000	0.0	0.0	0.0
78	21.100	54.600	12.000	0.0	0.0	0.0
79	21.100	58.600	12.000	0.0	0.0	0.0
80	21.100	62.600	12.000	0.0	0.0	0.0
81	6.900	2.600	12.000	0.0	0.0	0.0
82	6.900	6.600	12.000	0.0	0.0	0.0
83	6.900	10.600	12.000	0.0	0.0	0.0
84	6.900	14.600	12.000	0.0	0.0	0.0
85	6.900	18.600	12.000	0.0	0.0	0.0
86	6.900	22.600	12.000	0.0	0.0	0.0
87	6.900	26.600	12.000	0.0	0.0	0.0
88	6.900	30.600	12.000	0.0	0.0	0.0
89	6.900	34.600	12.000	0.0	0.0	0.0
90	6.900	38.600	12.000	0.0	0.0	0.0
91	6.900	42.600	12.000	0.0	0.0	0.0
92	6.900	46.600	12.000	0.0	0.0	0.0
93	6.900	50.600	12.000	0.0	0.0	0.0
94	6.900	54.600	12.000	0.0	0.0	0.0
95	6.900	58.600	12.000	0.0	0.0	0.0
96	6.900	62.600	12.000	0.0	0.0	0.0
97	10.650	2.600	12.000	0.0	0.0	0.0
98	10.650	6.600	12.000	0.0	0.0	0.0
99	10.650	10.600	12.000	0.0	0.0	0.0
100	10.650	14.600	12.000	0.0	0.0	0.0
101	10.650	18.600	12.000	0.0	0.0	0.0
102	10.650	22.600	12.000	0.0	0.0	0.0
103	10.650	26.600	12.000	0.0	0.0	0.0
104	10.650	30.600	12.000	0.0	0.0	0.0

Bearbeiter(in) Lichtplanung
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Freiraum / Leuchten (Koordinatenliste)

Nr.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
105	10.650	34.600	12.000	0.0	0.0	0.0
106	10.650	38.600	12.000	0.0	0.0	0.0
107	10.650	42.600	12.000	0.0	0.0	0.0
108	10.650	46.600	12.000	0.0	0.0	0.0
109	10.650	50.600	12.000	0.0	0.0	0.0
110	10.650	54.600	12.000	0.0	0.0	0.0
111	10.650	58.600	12.000	0.0	0.0	0.0
112	10.650	62.600	12.000	0.0	0.0	0.0
113	14.400	2.600	12.000	0.0	0.0	0.0
114	14.400	6.600	12.000	0.0	0.0	0.0
115	14.400	10.600	12.000	0.0	0.0	0.0
116	14.400	14.600	12.000	0.0	0.0	0.0
117	14.400	18.600	12.000	0.0	0.0	0.0
118	14.400	22.600	12.000	0.0	0.0	0.0
119	14.400	26.600	12.000	0.0	0.0	0.0
120	14.400	30.600	12.000	0.0	0.0	0.0
121	14.400	34.600	12.000	0.0	0.0	0.0
122	14.400	38.600	12.000	0.0	0.0	0.0
123	14.400	42.600	12.000	0.0	0.0	0.0
124	14.400	46.600	12.000	0.0	0.0	0.0
125	14.400	50.600	12.000	0.0	0.0	0.0
126	14.400	54.600	12.000	0.0	0.0	0.0
127	14.400	58.600	12.000	0.0	0.0	0.0
128	14.400	62.600	12.000	0.0	0.0	0.0
129	18.150	2.600	12.000	0.0	0.0	0.0
130	18.150	6.600	12.000	0.0	0.0	0.0
131	18.150	10.600	12.000	0.0	0.0	0.0
132	18.150	14.600	12.000	0.0	0.0	0.0
133	18.150	18.600	12.000	0.0	0.0	0.0
134	18.150	22.600	12.000	0.0	0.0	0.0
135	18.150	26.600	12.000	0.0	0.0	0.0
136	18.150	30.600	12.000	0.0	0.0	0.0
137	18.150	34.600	12.000	0.0	0.0	0.0
138	18.150	38.600	12.000	0.0	0.0	0.0
139	18.150	42.600	12.000	0.0	0.0	0.0
140	18.150	46.600	12.000	0.0	0.0	0.0
141	18.150	50.600	12.000	0.0	0.0	0.0
142	18.150	54.600	12.000	0.0	0.0	0.0

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Freiraum / Leuchten (Koordinatenliste)

Nr.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
143	18.150	58.600	12.000	0.0	0.0	0.0
144	18.150	62.600	12.000	0.0	0.0	0.0
145	21.900	2.600	12.000	0.0	0.0	0.0
146	21.900	6.600	12.000	0.0	0.0	0.0
147	21.900	10.600	12.000	0.0	0.0	0.0
148	21.900	14.600	12.000	0.0	0.0	0.0
149	21.900	18.600	12.000	0.0	0.0	0.0
150	21.900	22.600	12.000	0.0	0.0	0.0
151	21.900	26.600	12.000	0.0	0.0	0.0
152	21.900	30.600	12.000	0.0	0.0	0.0
153	21.900	34.600	12.000	0.0	0.0	0.0
154	21.900	38.600	12.000	0.0	0.0	0.0
155	21.900	42.600	12.000	0.0	0.0	0.0
156	21.900	46.600	12.000	0.0	0.0	0.0
157	21.900	50.600	12.000	0.0	0.0	0.0
158	21.900	54.600	12.000	0.0	0.0	0.0
159	21.900	58.600	12.000	0.0	0.0	0.0
160	21.900	62.600	12.000	0.0	0.0	0.0
161	6.100	3.400	12.000	0.0	0.0	0.0
162	6.100	7.400	12.000	0.0	0.0	0.0
163	6.100	11.400	12.000	0.0	0.0	0.0
164	6.100	15.400	12.000	0.0	0.0	0.0
165	6.100	19.400	12.000	0.0	0.0	0.0
166	6.100	23.400	12.000	0.0	0.0	0.0
167	6.100	27.400	12.000	0.0	0.0	0.0
168	6.100	31.400	12.000	0.0	0.0	0.0
169	6.100	35.400	12.000	0.0	0.0	0.0
170	6.100	39.400	12.000	0.0	0.0	0.0
171	6.100	43.400	12.000	0.0	0.0	0.0
172	6.100	47.400	12.000	0.0	0.0	0.0
173	6.100	51.400	12.000	0.0	0.0	0.0
174	6.100	55.400	12.000	0.0	0.0	0.0
175	6.100	59.400	12.000	0.0	0.0	0.0
176	6.100	63.400	12.000	0.0	0.0	0.0
177	9.850	3.400	12.000	0.0	0.0	0.0
178	9.850	7.400	12.000	0.0	0.0	0.0
179	9.850	11.400	12.000	0.0	0.0	0.0
180	9.850	15.400	12.000	0.0	0.0	0.0

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Freiraum / Leuchten (Koordinatenliste)

Nr.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
181	9.850	19.400	12.000	0.0	0.0	0.0
182	9.850	23.400	12.000	0.0	0.0	0.0
183	9.850	27.400	12.000	0.0	0.0	0.0
184	9.850	31.400	12.000	0.0	0.0	0.0
185	9.850	35.400	12.000	0.0	0.0	0.0
186	9.850	39.400	12.000	0.0	0.0	0.0
187	9.850	43.400	12.000	0.0	0.0	0.0
188	9.850	47.400	12.000	0.0	0.0	0.0
189	9.850	51.400	12.000	0.0	0.0	0.0
190	9.850	55.400	12.000	0.0	0.0	0.0
191	9.850	59.400	12.000	0.0	0.0	0.0
192	9.850	63.400	12.000	0.0	0.0	0.0
193	13.600	3.400	12.000	0.0	0.0	0.0
194	13.600	7.400	12.000	0.0	0.0	0.0
195	13.600	11.400	12.000	0.0	0.0	0.0
196	13.600	15.400	12.000	0.0	0.0	0.0
197	13.600	19.400	12.000	0.0	0.0	0.0
198	13.600	23.400	12.000	0.0	0.0	0.0
199	13.600	27.400	12.000	0.0	0.0	0.0
200	13.600	31.400	12.000	0.0	0.0	0.0
201	13.600	35.400	12.000	0.0	0.0	0.0
202	13.600	39.400	12.000	0.0	0.0	0.0
203	13.600	43.400	12.000	0.0	0.0	0.0
204	13.600	47.400	12.000	0.0	0.0	0.0
205	13.600	51.400	12.000	0.0	0.0	0.0
206	13.600	55.400	12.000	0.0	0.0	0.0
207	13.600	59.400	12.000	0.0	0.0	0.0
208	13.600	63.400	12.000	0.0	0.0	0.0
209	17.350	3.400	12.000	0.0	0.0	0.0
210	17.350	7.400	12.000	0.0	0.0	0.0
211	17.350	11.400	12.000	0.0	0.0	0.0
212	17.350	15.400	12.000	0.0	0.0	0.0
213	17.350	19.400	12.000	0.0	0.0	0.0
214	17.350	23.400	12.000	0.0	0.0	0.0
215	17.350	27.400	12.000	0.0	0.0	0.0
216	17.350	31.400	12.000	0.0	0.0	0.0
217	17.350	35.400	12.000	0.0	0.0	0.0
218	17.350	39.400	12.000	0.0	0.0	0.0

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Freiraum / Leuchten (Koordinatenliste)

Nr.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
219	17.350	43.400	12.000	0.0	0.0	0.0
220	17.350	47.400	12.000	0.0	0.0	0.0
221	17.350	51.400	12.000	0.0	0.0	0.0
222	17.350	55.400	12.000	0.0	0.0	0.0
223	17.350	59.400	12.000	0.0	0.0	0.0
224	17.350	63.400	12.000	0.0	0.0	0.0
225	21.100	3.400	12.000	0.0	0.0	0.0
226	21.100	7.400	12.000	0.0	0.0	0.0
227	21.100	11.400	12.000	0.0	0.0	0.0
228	21.100	15.400	12.000	0.0	0.0	0.0
229	21.100	19.400	12.000	0.0	0.0	0.0
230	21.100	23.400	12.000	0.0	0.0	0.0
231	21.100	27.400	12.000	0.0	0.0	0.0
232	21.100	31.400	12.000	0.0	0.0	0.0
233	21.100	35.400	12.000	0.0	0.0	0.0
234	21.100	39.400	12.000	0.0	0.0	0.0
235	21.100	43.400	12.000	0.0	0.0	0.0
236	21.100	47.400	12.000	0.0	0.0	0.0
237	21.100	51.400	12.000	0.0	0.0	0.0
238	21.100	55.400	12.000	0.0	0.0	0.0
239	21.100	59.400	12.000	0.0	0.0	0.0
240	21.100	63.400	12.000	0.0	0.0	0.0
241	6.900	3.400	12.000	0.0	0.0	0.0
242	6.900	7.400	12.000	0.0	0.0	0.0
243	6.900	11.400	12.000	0.0	0.0	0.0
244	6.900	15.400	12.000	0.0	0.0	0.0
245	6.900	19.400	12.000	0.0	0.0	0.0
246	6.900	23.400	12.000	0.0	0.0	0.0
247	6.900	27.400	12.000	0.0	0.0	0.0
248	6.900	31.400	12.000	0.0	0.0	0.0
249	6.900	35.400	12.000	0.0	0.0	0.0
250	6.900	39.400	12.000	0.0	0.0	0.0
251	6.900	43.400	12.000	0.0	0.0	0.0
252	6.900	47.400	12.000	0.0	0.0	0.0
253	6.900	51.400	12.000	0.0	0.0	0.0
254	6.900	55.400	12.000	0.0	0.0	0.0
255	6.900	59.400	12.000	0.0	0.0	0.0
256	6.900	63.400	12.000	0.0	0.0	0.0

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Freiraum / Leuchten (Koordinatenliste)

Nr.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
257	10.650	3.400	12.000	0.0	0.0	0.0
258	10.650	7.400	12.000	0.0	0.0	0.0
259	10.650	11.400	12.000	0.0	0.0	0.0
260	10.650	15.400	12.000	0.0	0.0	0.0
261	10.650	19.400	12.000	0.0	0.0	0.0
262	10.650	23.400	12.000	0.0	0.0	0.0
263	10.650	27.400	12.000	0.0	0.0	0.0
264	10.650	31.400	12.000	0.0	0.0	0.0
265	10.650	35.400	12.000	0.0	0.0	0.0
266	10.650	39.400	12.000	0.0	0.0	0.0
267	10.650	43.400	12.000	0.0	0.0	0.0
268	10.650	47.400	12.000	0.0	0.0	0.0
269	10.650	51.400	12.000	0.0	0.0	0.0
270	10.650	55.400	12.000	0.0	0.0	0.0
271	10.650	59.400	12.000	0.0	0.0	0.0
272	10.650	63.400	12.000	0.0	0.0	0.0
273	14.400	3.400	12.000	0.0	0.0	0.0
274	14.400	7.400	12.000	0.0	0.0	0.0
275	14.400	11.400	12.000	0.0	0.0	0.0
276	14.400	15.400	12.000	0.0	0.0	0.0
277	14.400	19.400	12.000	0.0	0.0	0.0
278	14.400	23.400	12.000	0.0	0.0	0.0
279	14.400	27.400	12.000	0.0	0.0	0.0
280	14.400	31.400	12.000	0.0	0.0	0.0
281	14.400	35.400	12.000	0.0	0.0	0.0
282	14.400	39.400	12.000	0.0	0.0	0.0
283	14.400	43.400	12.000	0.0	0.0	0.0
284	14.400	47.400	12.000	0.0	0.0	0.0
285	14.400	51.400	12.000	0.0	0.0	0.0
286	14.400	55.400	12.000	0.0	0.0	0.0
287	14.400	59.400	12.000	0.0	0.0	0.0
288	14.400	63.400	12.000	0.0	0.0	0.0
289	18.150	3.400	12.000	0.0	0.0	0.0
290	18.150	7.400	12.000	0.0	0.0	0.0
291	18.150	11.400	12.000	0.0	0.0	0.0
292	18.150	15.400	12.000	0.0	0.0	0.0
293	18.150	19.400	12.000	0.0	0.0	0.0
294	18.150	23.400	12.000	0.0	0.0	0.0

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Freiraum / Leuchten (Koordinatenliste)

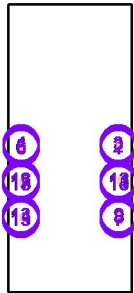
Nr.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
295	18.150	27.400	12.000	0.0	0.0	0.0
296	18.150	31.400	12.000	0.0	0.0	0.0
297	18.150	35.400	12.000	0.0	0.0	0.0
298	18.150	39.400	12.000	0.0	0.0	0.0
299	18.150	43.400	12.000	0.0	0.0	0.0
300	18.150	47.400	12.000	0.0	0.0	0.0
301	18.150	51.400	12.000	0.0	0.0	0.0
302	18.150	55.400	12.000	0.0	0.0	0.0
303	18.150	59.400	12.000	0.0	0.0	0.0
304	18.150	63.400	12.000	0.0	0.0	0.0
305	21.900	3.400	12.000	0.0	0.0	0.0
306	21.900	7.400	12.000	0.0	0.0	0.0
307	21.900	11.400	12.000	0.0	0.0	0.0
308	21.900	15.400	12.000	0.0	0.0	0.0
309	21.900	19.400	12.000	0.0	0.0	0.0
310	21.900	23.400	12.000	0.0	0.0	0.0
311	21.900	27.400	12.000	0.0	0.0	0.0
312	21.900	31.400	12.000	0.0	0.0	0.0
313	21.900	35.400	12.000	0.0	0.0	0.0
314	21.900	39.400	12.000	0.0	0.0	0.0
315	21.900	43.400	12.000	0.0	0.0	0.0
316	21.900	47.400	12.000	0.0	0.0	0.0
317	21.900	51.400	12.000	0.0	0.0	0.0
318	21.900	55.400	12.000	0.0	0.0	0.0
319	21.900	59.400	12.000	0.0	0.0	0.0
320	21.900	63.400	12.000	0.0	0.0	0.0

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Freiraum / Leuchten (Koordinatenliste)

BEGA 77639K3 LED 47,5W

2853 lm, 54.0 W, 1 x 1 x LED 48,2W (Korrekturfaktor 1.000).



Nr.	Position [m]			Rotation [°]		
	X	Y	Z	X	Y	Z
1	25.000	32.600	7.600	30.0	0.0	90.0
2	25.000	33.100	7.600	30.0	0.0	90.0
3	25.000	33.600	7.600	30.0	0.0	90.0
4	3.000	33.600	7.600	30.0	0.0	-90.0
5	3.000	33.100	7.600	30.0	0.0	-90.0
6	3.000	32.600	7.600	30.0	0.0	-90.0
7	25.100	16.500	7.600	30.0	0.0	90.0
8	25.100	17.000	7.600	30.0	0.0	90.0
9	25.100	17.500	7.600	30.0	0.0	90.0
10	25.100	24.500	7.600	30.0	0.0	90.0
11	25.100	25.000	7.600	30.0	0.0	90.0
12	25.100	25.500	7.600	30.0	0.0	90.0
13	2.900	17.500	7.600	30.0	0.0	-90.0
14	2.900	17.000	7.600	30.0	0.0	-90.0
15	2.900	16.500	7.600	30.0	0.0	-90.0
16	2.900	25.500	7.600	30.0	0.0	-90.0
17	2.900	25.000	7.600	30.0	0.0	-90.0
18	2.900	24.500	7.600	30.0	0.0	-90.0

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Freiraum / Lichttechnische Ergebnisse

Gesamtlichtstrom: 1197090 lm
 Gesamtleistung: 16788.0 W
 Wartungsfaktor: 0.80
 Randzone: 0.000 m

Fläche	Mittlere Beleuchtungsstärken [lx]			Reflexionsgrad [%]	Mittlere Leuchtdichte [cd/m²]
	direkt	indirekt	gesamt		
Nutzebene	247	12	259	/	/
Berechnungsfläche Grundfläche	342	26	368	/	/
Berechnungsfläche Umgang	217	11	228	/	/
Boden	238	11	249	20	16
Decke	28	29	56	30	5.40
Decke	32	18	50	70	11
Decke	0.00	19	19	70	4.26
Decke	32	18	50	70	11
Decke	0.00	18	18	70	4.10
Wand 1	85	24	109	50	17
Wand 2	15	5.22	20	50	3.26
Wand 3	41	4.37	46	25	3.64
Wand 4	15	5.12	20	50	3.26

Gleichmäßigkeiten auf der Nutzebene

g_1 : 0.003 (1:379)

g_2 : 0.000 (1:3167)

Beleuchtungsstärkeverhältnis (nach LG7): Wände / Nutzebene: 0.143, Decke / Nutzebene: 0.186.

Spezifischer Anschlußwert: $9.22 \text{ W/m}^2 = 3.56 \text{ W/m}^2/100 \text{ lx}$ (Grundfläche: 1820.00 m^2)

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Freiraum / 3D Rendering

