

Lichttechnischer Prüfbefund

Familie
Round 21 M

Bestell-Nr.: 51MR36ND0421W
EAN: 4058352829967

LP-Nummer
59653_7



Ausführung Pendelleuchte, Mikroprismenabdeckung, PMMA, breit strahlend, direkt-/ indirekt strahlend, Gehäuse, Alu, weiß, UGR \leq 19

Bestückung LED 4000 K | CRI \geq 80

Betriebsgerät EVG-DALI

Bemessungswerte Nettolichtstrom = 7470 lm
Systemleistung = 54.6 W
Lichtausbeute = 136.8 lm/W

Seriendokumentation
31.07.2024

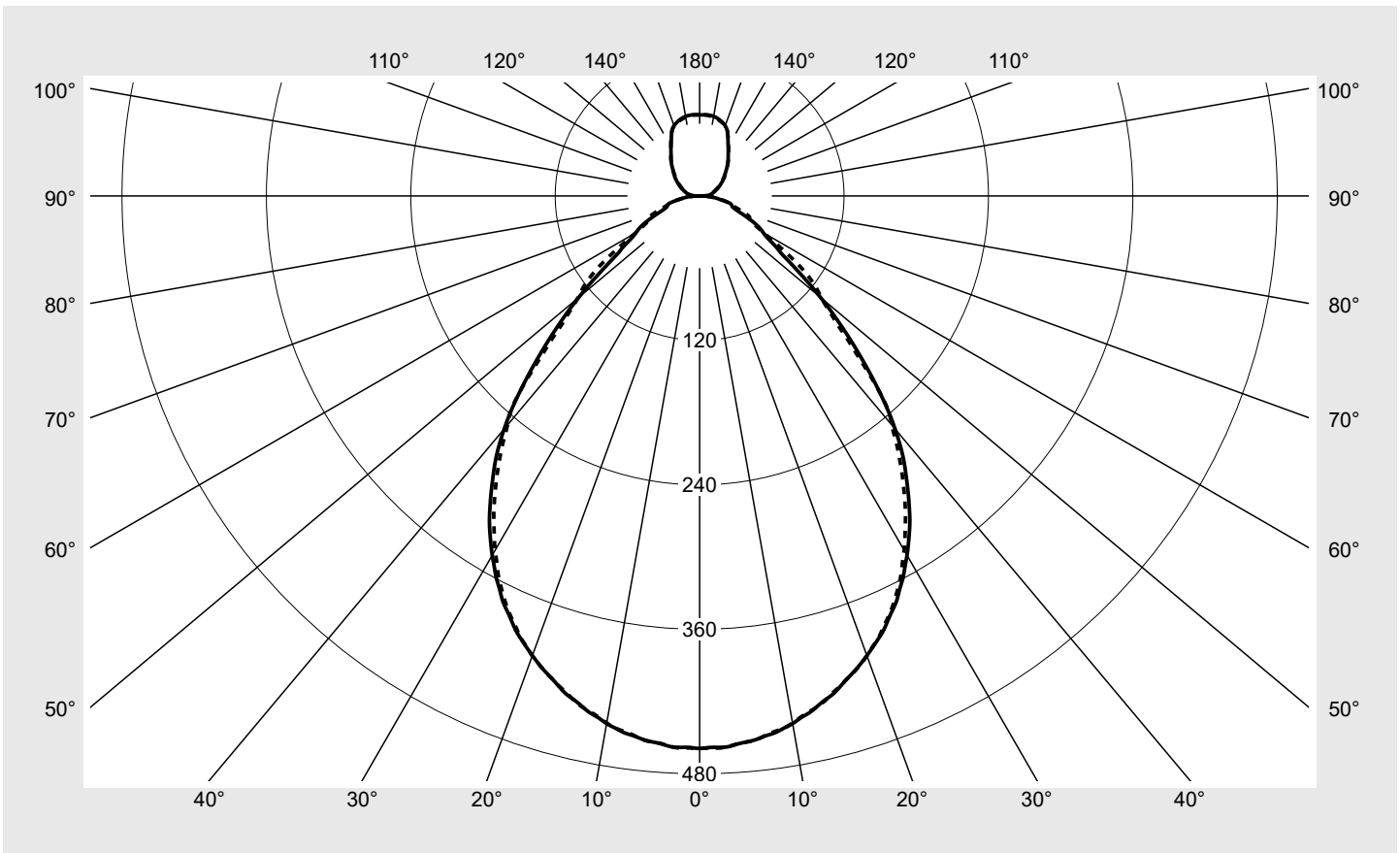
siteco

Lichtstärke in cd/klm

C180-0

C270-90

Imax: 459 cd/klm



Klassifizierungen

DIN 5040 B 5 3
CIE N1=66 N2=90 N3=98
N4=84 N5=100

Leuchtenbetriebswirkungsgrade

η_{LB} 100,0%
 ϕ_u 84,0%
 ϕ_o 16,0%

Messbedingungen

DIN EN 13032 und DIN 5032

Lichttechnischer Prüfbefund

Familie Round 21 M	Bestell-Nr.: 51MR36ND0421W EAN: 4058352829967	LP-Nummer 59653_7
Wertetabelle Lichtstärkemessung		Maximale Lichtstärke
		sITeco

C- Ebenen	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-Zone	Summe Phi-Zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
Lichtstärke in cd/klm								Lichtstrom in lm/klm	
γ									
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

Lichttechnischer Prüfbefund

Familie Round 21 M	Bestell-Nr.: 51MR36ND0421W EAN: 4058352829967	LP-Nummer 59653_7
Wertetabelle Lichtstärkemessung		Maximale Lichtstärke
		siteco

C- Ebenen	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-Zone	Summe Phi-Zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
γ									
Lichtstärke in cd/klm									
Lichtstrom 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

Lichttechnischer Prüfbefund

Familie Round 21 M	Bestell-Nr.: 51MR36ND0421W EAN: 4058352829967	LP-Nummer 59653_7
------------------------------	--	-----------------------------

Wertetabelle Lichtstärkemessung	Maximale Lichtstärke	sITeco
--	-----------------------------	---------------

C- Ebenen	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-Zone	Summe Phi-Zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
Lichtstärke in cd/klm									Lichtstrom in lm/klm
γ									
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

Lichttechnischer Prüfbefund

Familie Round 21 M	Bestell-Nr.: 51MR36ND0421W EAN: 4058352829967	LP-Nummer 59653_7
Wertetabelle Lichtstärkemessung		Maximale Lichtstärke
		sITeCO

C- Ebenen	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-Zone	Summe Phi-Zone
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			
γ									
Lichtstärke in cd/klm								Lichtstrom 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

Lichttechnischer Prüfbefund

Familie Round 21 M	Bestell-Nr.: 51MR36ND0421W EAN: 4058352829967	LP-Nummer 59653_7
------------------------------	--	-----------------------------

UGR-Tabelle		Standardraum									
		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
Raumabmessungen											
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

Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$ Lichttechnische Abmessungen in mm: D = 590

C- Ebenen	γ	Leuchtdichte in cd/m ²							
		0° 180°	15° 165° 195° 345°	30° 150° 210° 330°	45° 135° 225° 315°	60° 120° 240° 300°	75° 105° 255° 285°	90° 270°	
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	

Lichttechnischer Prüfbefund

Familie Round 21 M	Bestell-Nr.: 51MR36ND0421W EAN: 4058352829967	LP-Nummer 59653_7
-------------------------------------	--	------------------------------------

Leuchtdichten in cd/m²	<input type="checkbox"/> γ 65°	<input type="checkbox"/> γ 70°	<input type="checkbox"/> γ 75°	<input type="checkbox"/> γ 80°	<input type="checkbox"/> γ 85°	Seriendokumentation <small>01.07.2022</small>
--	---------------------------------------	---------------------------------------	---------------------------------------	---------------------------------------	---------------------------------------	---

