

Lichttechnischer Prüfbefund

Familie
Round 21 M

Bestell-Nr.: 51MR36GM8421S
EAN: 4058352881736

LP-Nummer
59513_3



Ausführung Pendelleuchte, Abdeckung, opal, PMMA, symmetrisch, extrem breit strahlend, direkt-/indirekt strahlend, Gehäuse, Alu, silber

Bestückung LED 4000 K | CRI ≥ 80

Betriebsgerät EVG-Multilumen

Bemessungswerte
Nettolichtstrom = 8190 lm
Systemleistung = 60.8 W
Lichtausbeute = 134.7 lm/W

Seriendokumentation
08.11.2023

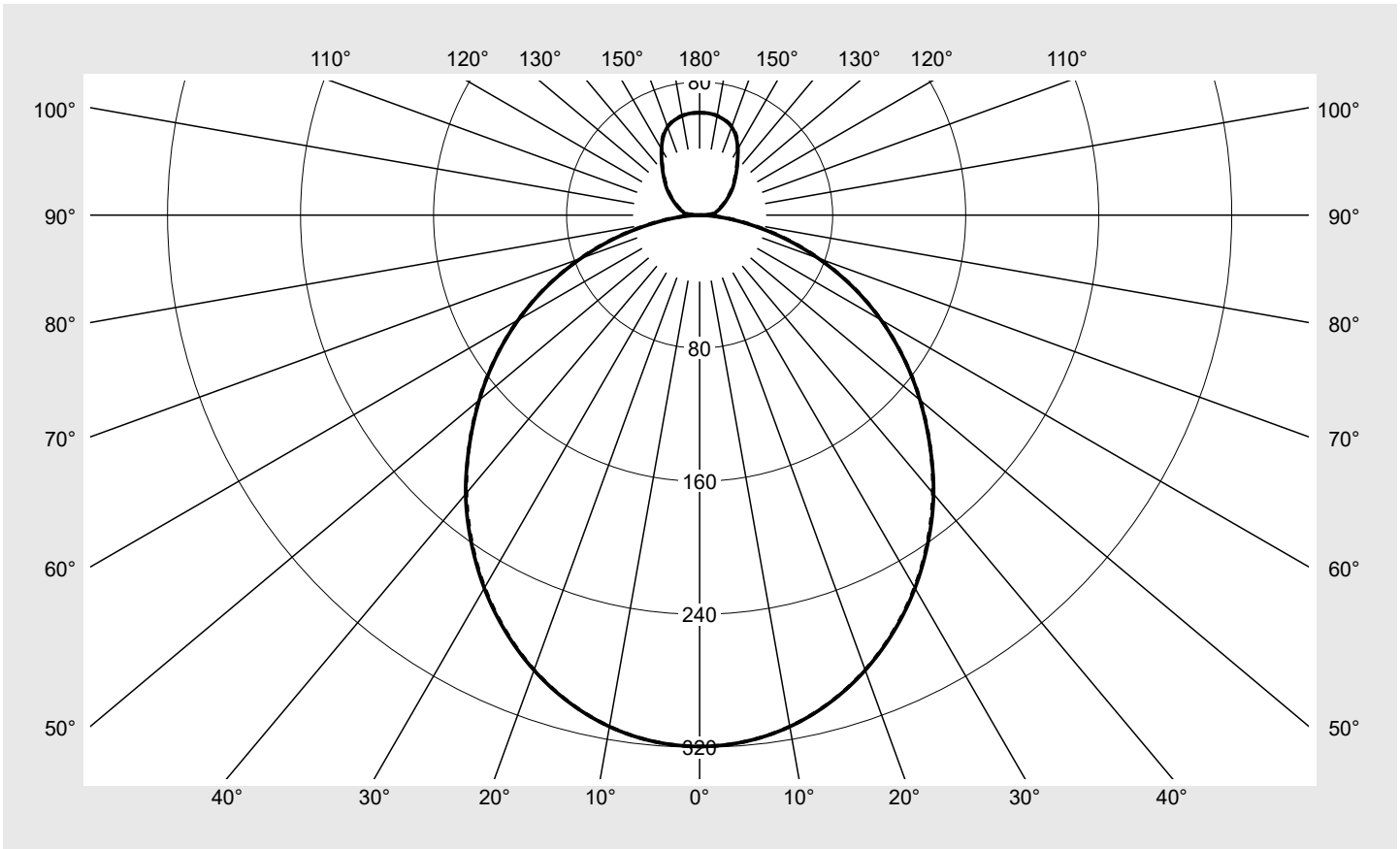
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Lichtstärke in cd/klm

C180-0

C270-90

Imax: 320 cd/klm



Klassifizierungen

DIN 5040 B 4 3
CIE N1=49 N2=80 N3=96
N4=85 N5=100

Leuchtenbetriebswirkungsgrade

η_{LB} 100,0%
 ϕ_u 85,0%
 ϕ_o 15,0%

Messbedingungen

DIN EN 13032 und DIN 5032

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Wertetabelle Lichtstärkemessung		Maximale Lichtstärke
		sITeCO

C- Ebenen	0° 180°	15°	30°	45°	60°	75°	90° 270°	Phi-Zone	Summe	
		165° 195° 345°	150° 210° 330°	135° 225° 315°	120° 240° 300°	105° 255° 285°			Phi-Zone	Phi-Zone
γ										
Lichtstärke in cd/klm								Lichtstrom in lm/klm		
0°	319.5	319.5	319.5	319.5	319.5	319.5	319.5	1.9	1.9	
5°	317.7	317.8	317.8	317.7	317.7	317.7	317.7	15.2	17.1	
10°	312.3	312.3	312.3	312.2	312.2	312.2	312.2	29.7	46.8	
15°	303.3	303.5	303.4	303.3	303.3	303.3	303.2	43.0	89.8	
20°	291.2	291.3	291.2	291.2	291.0	291.0	291.0	54.6	144.4	
25°	276.2	276.6	276.2	276.3	275.9	276.0	275.9	64.0	208.4	
30°	259.0	259.3	259.0	258.9	258.6	258.6	258.5	70.9	279.4	
35°	239.6	240.1	239.7	239.7	239.3	239.3	239.1	75.3	354.7	
40°	218.9	219.3	218.8	219.0	218.3	218.8	218.1	77.1	431.8	
45°	195.8	197.7	196.8	197.2	196.3	196.9	196.0	76.3	508.0	
50°	172.9	174.9	174.1	174.4	173.6	174.1	173.3	73.1	581.1	
55°	149.7	151.6	150.7	151.3	150.2	150.8	150.0	67.7	648.8	
60°	125.8	127.7	126.8	127.4	126.3	126.7	126.1	60.2	709.0	
65°	101.1	103.0	102.1	102.9	101.7	102.5	101.5	50.8	759.8	
70°	75.9	78.1	77.0	77.8	76.7	77.7	76.5	39.8	799.6	
75°	51.2	53.2	52.4	53.1	52.2	53.0	52.1	27.8	827.4	
80°	28.4	30.2	29.8	30.3	29.8	30.0	29.7	16.1	843.5	
85°	10.5	12.5	12.3	12.9	12.5	12.4	12.2	6.7	850.3	
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	850.3	
95°	7.6	7.9	7.6	7.8	7.5	7.5	7.0	4.2	854.4	
100°	9.9	10.0	10.0	10.0	9.8	9.8	9.4	5.3	859.7	
105°	11.7	11.8	11.8	11.8	11.7	11.7	11.2	6.2	865.9	
110°	13.7	13.9	13.9	13.9	13.9	13.7	13.2	7.1	873.1	
115°	16.1	16.4	16.4	16.4	16.2	16.1	15.7	8.1	881.1	
120°	18.9	19.1	19.2	19.4	19.0	18.9	18.6	9.0	890.2	
125°	22.3	22.4	22.3	22.6	22.2	22.1	21.9	10.0	900.2	
130°	26.1	26.1	26.0	26.2	25.8	25.9	25.5	10.9	911.1	
135°	30.0	30.1	30.1	30.1	30.0	30.0	29.5	11.6	922.7	
140°	34.5	34.5	34.7	34.6	34.7	34.6	34.1	12.2	934.9	
145°	39.8	39.6	39.8	39.8	39.7	39.7	39.5	12.5	947.4	
150°	45.9	45.3	45.7	45.5	46.0	45.9	45.8	12.5	959.9	
155°	51.8	51.9	51.7	52.5	52.1	52.4	52.3	12.1	972.0	
160°	56.4	56.5	56.5	56.6	56.5	56.5	56.6	10.6	982.6	
165°	59.0	59.0	59.0	59.0	59.1	59.1	59.2	8.4	990.9	
170°	60.6	60.5	60.6	60.6	60.7	60.7	60.8	5.8	996.7	
175°	61.5	61.3	61.3	61.4	61.4	61.4	61.4	2.9	999.6	
180°	61.5	61.5	61.5	61.5	61.5	61.5	61.5	0.4	1000.0	

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UGR-Tabelle		Standardraum									
Raumabmessungen		Blickrichtung quer zur Leuchte (C0)					Blickrichtung längs zur Leuchte (C90)				
x	y										
2H	2H	18,6	20,0	19,2	20,6	21,2	18,6	20,0	19,2	20,6	21,2
	3H	20,1	21,3	20,7	21,9	22,6	20,1	21,3	20,7	21,9	22,6
	4H	20,7	21,9	21,3	22,5	23,1	20,7	21,9	21,3	22,5	23,1
	6H	21,1	22,2	21,7	22,8	23,5	21,1	22,2	21,7	22,8	23,5
	8H	21,2	22,2	21,8	22,8	23,5	21,2	22,2	21,8	22,8	23,5
	12H	21,3	22,2	21,9	22,8	23,6	21,3	22,3	21,9	22,9	23,6
4H	2H	19,3	20,5	19,9	21,1	21,7	19,3	20,5	19,9	21,0	21,7
	3H	21,0	22,0	21,6	22,6	23,3	21,0	22,0	21,6	22,6	23,3
	4H	21,7	22,6	22,3	23,2	23,9	21,7	22,5	22,3	23,2	23,9
	6H	22,2	23,0	22,8	23,6	24,4	22,2	23,0	22,8	23,6	24,4
	8H	22,3	23,0	23,0	23,7	24,4	22,3	23,0	23,0	23,7	24,4
	12H	22,4	23,0	23,1	23,7	24,5	22,5	23,1	23,1	23,8	24,5
8H	4H	21,9	22,6	22,6	23,3	24,1	21,9	22,6	22,6	23,3	24,1
	6H	22,5	23,1	23,2	23,8	24,6	22,5	23,1	23,2	23,8	24,6
	8H	22,7	23,2	23,4	23,9	24,8	22,7	23,2	23,4	24,0	24,8
	12H	22,9	23,4	23,6	24,1	24,9	22,9	23,4	23,7	24,1	24,9
12H	4H	22,0	22,6	22,7	23,3	24,1	22,0	22,6	22,7	23,3	24,1
	6H	22,6	23,1	23,3	23,8	24,6	22,6	23,1	23,3	23,8	24,6
	8H	22,9	23,3	23,6	24,0	24,8	22,9	23,3	23,6	24,0	24,8

Leuchtdichten-Tabelle Max. für $\gamma \geq 65^\circ$

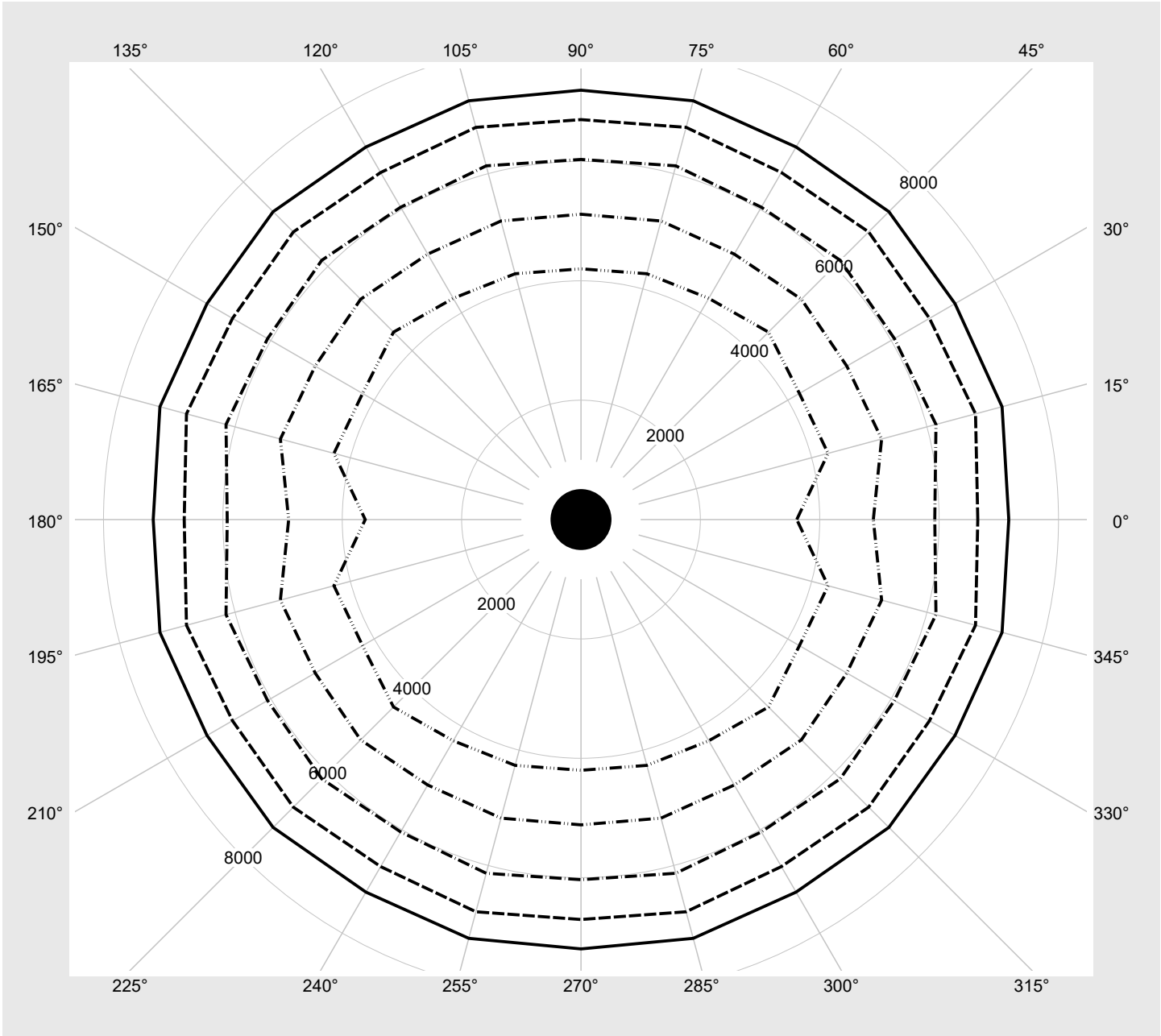
Lichttechnische Abmessungen in mm: D = 590

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°		8296.4	8374.7	8338.0	8354.6	8315.1	8342.9	8302.9	
50°		8059.6	8151.8	8112.1	8128.4	8088.1	8115.3	8074.5	
55°		7820.8	7919.6	7871.6	7900.9	7846.5	7873.8	7831.8	
60°		7539.1	7650.9	7594.5	7632.9	7565.7	7588.1	7552.4	
65°		7167.2	7303.7	7235.5	7295.2	7207.8	7264.4	7194.1	
70°		6647.8	6843.1	6742.3	6815.6	6714.1	6803.5	6701.3	
75°		5927.4	6157.1	6063.9	6143.0	6043.2	6135.9	6034.0	
80°		4897.8	5214.4	5142.6	5221.3	5136.0	5179.3	5115.5	
85°		3615.2	4285.4	4225.9	4442.1	4280.2	4264.1	4201.2	

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Leuchtdichten in cd/m² γ 65° γ 70° γ 75° γ 80° γ 85° **siteco**



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Multilumen-Tabelle	Umgebungstemperatur: 25°C	sITeco
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DIP-Stufe	Schalterstellung				Lichtstrom [lm]	Systemleistung [W]
	1	2	3	4		
15	ON	ON	ON	ON	8190	60.8
14	ON	ON	ON	OFF	7900	58.5
13	ON	ON	OFF	ON	7610	56.2
12	ON	ON	OFF	OFF	7320	54.1
11	ON	OFF	ON	ON	7100	51.9
10	ON	OFF	ON	OFF	6800	49.6
9	ON	OFF	OFF	ON	6510	47.4
8	ON	OFF	OFF	OFF	6210	45.1
7	OFF	ON	ON	ON	5970	43.0
6	OFF	ON	ON	OFF	5670	40.8
5	OFF	ON	OFF	ON	5370	38.5
4	OFF	ON	OFF	OFF	5070	36.3
3	OFF	OFF	ON	ON	4810	34.2
2	OFF	OFF	ON	OFF	4510	32.0
1	OFF	OFF	OFF	ON	4200	29.6
0	OFF	OFF	OFF	OFF	3900	27.7