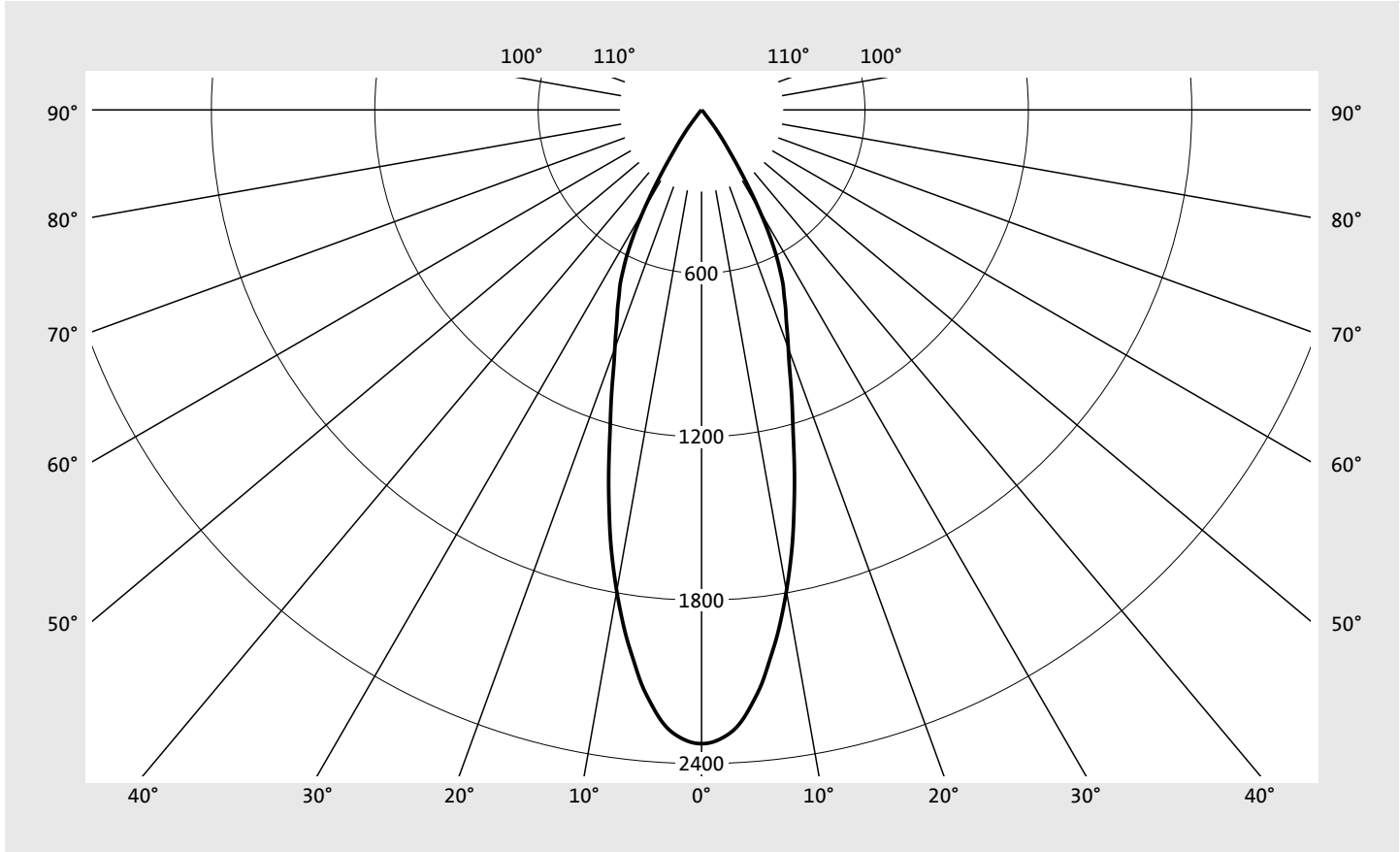


Photometric test report

Family PUNCTOLED® COB	Order number: ODP10C97033R EAN: 4052899934009	LP number 55604_1
Version	narrow distribution	series documentation 30.04.2015
Lamps	LED 3000K / CRI ≥ 80 Net luminous flux = 410 lm	
Electr. supply	ECG Power consumption = 6.0 W Luminous efficacy = 68.3 lm/W	
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Luminous intensity in cd/klm C180-0 **Imax: 2327 cd/klm**



Classifications	
DIN 5040	A 8 0
CIE	N1=98 N2=99 N3=100 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 PUNCTOLED® COB	Order number: ODP10C97033R EAN: 4052899934009	LP number 55604_1
Table of values for luminous intensities		Maximum luminous intensity
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C-planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm	Luminous flux in lm/klm	
0°	2326.7	0.6	0.6
1°	2321.3	4.4	5.0
2°	2304.7	8.8	13.8
3°	2278.7	13.1	26.9
4°	2236.4	17.1	44.0
5°	2179.6	20.8	64.8
6°	2117.4	24.3	89.1
7°	2039.7	27.3	116.4
8°	1964.4	30.0	146.3
9°	1881.4	32.3	178.6
10°	1794.0	34.2	212.8
11°	1703.7	35.6	248.4
12°	1609.6	36.7	285.1
13°	1508.5	37.2	322.3
14°	1410.6	37.4	359.8
15°	1312.0	37.2	397.0
16°	1218.6	36.8	433.8
17°	1138.9	36.5	470.4
18°	1062.1	36.0	506.3
19°	989.4	35.3	541.7
20°	931.3	34.9	576.6
21°	879.1	34.5	611.1
22°	829.5	34.1	645.2
23°	788.9	33.8	679.0
24°	744.7	33.2	712.2
25°	708.0	32.8	745.1
26°	659.2	31.7	776.7
27°	609.5	30.3	807.1
28°	552.0	28.4	835.5
29°	490.1	26.1	861.6
30°	423.4	23.2	884.8
31°	357.6	20.2	905.0
32°	291.8	17.0	921.9
33°	233.4	13.9	935.9
34°	181.9	11.2	947.0
35°	145.7	9.2	956.2
36°	112.7	7.3	963.5
37°	83.7	5.5	969.0
38°	46.0	3.1	972.1
39°	22.9	1.6	973.7
40°	16.3	1.1	974.8
41°	14.6	1.0	975.9
42°	12.4	0.9	976.8
43°	10.8	0.8	977.6
44°	9.3	0.7	978.3
45°	8.5	0.7	979.0
46°	7.7	0.6	979.6

C-planes	0°	Phi-zone	Total Phi-zone
γ	Luminous intensity in cd/klm	Luminous flux in lm/klm	
47°	7.8	0.6	980.2
48°	7.3	0.6	980.8
49°	7.8	0.6	981.4
50°	7.3	0.6	982.0
51°	8.5	0.7	982.8
52°	8.0	0.7	983.5
53°	9.6	0.8	984.3
54°	8.1	0.7	985.0
55°	9.9	0.9	985.9
56°	7.6	0.7	986.6
57°	9.6	0.9	987.5
58°	7.2	0.7	988.2
59°	9.4	0.9	989.0
60°	6.8	0.6	989.7
61°	7.5	0.7	990.4
62°	5.1	0.5	990.9
63°	5.1	0.5	991.4
64°	3.9	0.4	991.8
65°	4.0	0.4	992.2
66°	3.3	0.3	992.5
67°	2.9	0.3	992.8
68°	3.7	0.4	993.2
69°	1.9	0.2	993.4
70°	4.0	0.4	993.8
71°	1.8	0.2	994.0
72°	4.3	0.4	994.4
73°	1.6	0.2	994.6
74°	4.3	0.5	995.0
75°	1.5	0.2	995.2
76°	4.8	0.5	995.7
77°	1.8	0.2	995.9
78°	4.5	0.5	996.4
79°	2.2	0.2	996.6
80°	4.6	0.5	997.1
81°	2.5	0.3	997.4
82°	4.4	0.5	997.9
83°	2.8	0.3	998.2
84°	3.6	0.4	998.6
85°	2.3	0.2	998.8
86°	3.0	0.3	999.2
87°	1.9	0.2	999.4
88°	2.0	0.2	999.6
89°	1.8	0.2	999.8
90°	2.1	0.2	1000.0

Photometric test report

Family PUNCTOLED® COB	Order number: ODP10C97033R EAN: 4052899934009	LP number 55604_1
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UGR-Table		Standard room									
Room dimensions		View crosswise (C0)					View endwise (C90)				
x	y										
2H	2H	15.8	16.8	16.2	17.1	17.5	15.8	16.8	16.2	17.1	17.5
	3H	15.7	16.6	16.1	17.0	17.3	15.7	16.6	16.1	17.0	17.3
	4H	15.8	16.6	16.2	17.0	17.3	15.8	16.6	16.2	17.0	17.3
	6H	16.0	16.7	16.4	17.1	17.5	16.0	16.7	16.4	17.1	17.5
	8H	16.3	16.9	16.8	17.3	17.7	16.3	16.9	16.8	17.3	17.7
	12H	16.5	17.0	17.0	17.4	17.9	16.5	17.0	17.0	17.4	17.9
4H	2H	15.6	16.4	16.0	16.8	17.2	15.6	16.4	16.0	16.8	17.2
	3H	15.6	16.2	16.0	16.6	17.1	15.6	16.2	16.0	16.6	17.1
	4H	15.7	16.3	16.1	16.7	17.1	15.7	16.3	16.1	16.7	17.1
	6H	16.1	16.6	16.5	17.0	17.5	16.1	16.6	16.5	17.0	17.5
	8H	16.4	16.8	16.9	17.3	17.8	16.4	16.8	16.9	17.3	17.8
	12H	16.8	17.2	17.3	17.6	18.1	16.8	17.2	17.3	17.6	18.1
8H	4H	15.7	16.1	16.2	16.6	17.1	15.7	16.1	16.2	16.6	17.1
	6H	16.3	16.6	16.8	17.1	17.6	16.3	16.6	16.8	17.1	17.6
	8H	16.7	17.1	17.3	17.6	18.1	16.7	17.1	17.3	17.6	18.1
	12H	17.3	17.6	17.9	18.1	18.6	17.3	17.6	17.9	18.1	18.6
12H	4H	15.7	16.1	16.2	16.5	17.0	15.7	16.1	16.2	16.5	17.0
	6H	16.4	16.6	16.9	17.1	17.7	16.4	16.6	16.9	17.1	17.7
	8H	16.9	17.2	17.5	17.7	18.2	16.9	17.2	17.5	17.7	18.2

Luminance table	Max. for $\gamma \geq 65^\circ$	Photometric dimensions in mm:	D = 40
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C-planes		0°
γ	Luminance in cd/m²	
45°	3942.8	
50°	3680.0	
55°	5627.4	
60°	4445.1	
65°	3075.7	
70°	3826.3	
75°	1926.2	
80°	8716.2	
85°	8520.2	

Photometric test report

Family
PUNCTOLED® COB

Order number: **ODP10C97033R**
EAN: **4052899934009**

LP number
55604_1

Luminance values in cd/m²



γ 65°
 γ 70°
 γ 75°
 γ 80°
 γ 85°

