



OPPLE Lighting Lab

欧普照明实验室

PHOTOMETRIC RESULTS



Name:	OPZS201705098-02002-sidaitongdeng-yuan12W-3000K		
Program:	Far-C15-G1-Downlight		
Lum. flux:	922.28 lm	Av. Voltage:	219.9624 V
Efficacy:	82.00 lm/ W	Av. Current:	0.09409 A
Maximum:	317.323 cd	Av. Power:	11.245 W
FluxCone-90:	490.09 lm	Av. Power Factor:	0.5434
FluxCone-120:	723.90 lm	Company:	Oppl
Date:	5/17/2017 3:15:32 PM	Operator:	SLY

Protocol

LiTG-class: A41
 UTE-class: 1.00 E
 IES-class: 47 - 79 - 96 - 100 - 100
 TM5-class: BZ4

Divergences in the plane through maximum intensity:

	Horizontal	Vertical
One half peak divergence	114.3°	114.3°
Half peak side angle (left)	-55.9°	-56.8°
Half peak side angle (right)	58.4°	57.5°
One tenth peak divergence	161.8°	161.8°
Tenth peak side angle (left)	-79.7°	-80.5°
Tenth peak side angle (right)	82.1°	81.3°

C-planes:	0.0°	15.0°	30.0°	45.0°	60.0°	75.0°	90.0°	105.0°	120.0°	135.0°
	150.0°	165.0°	180.0°	195.0°	210.0°	225.0°	240.0°	255.0°	270.0°	285.0°
	300.0°	315.0°	330.0°	345.0°						

Gamma:	0.0°	1.0°	2.0°	3.0°	4.0°	5.0°	6.0°	7.0°	8.0°	9.0°
	10.0°	11.0°	12.0°	13.0°	14.0°	15.0°	16.0°	17.0°	18.0°	19.0°
	20.0°	21.0°	22.0°	23.0°	24.0°	25.0°	26.0°	27.0°	28.0°	29.0°
	30.0°	31.0°	32.0°	33.0°	34.0°	35.0°	36.0°	37.0°	38.0°	39.0°
	40.0°	41.0°	42.0°	43.0°	44.0°	45.0°	46.0°	47.0°	48.0°	49.0°
	50.0°	51.0°	52.0°	53.0°	54.0°	55.0°	56.0°	57.0°	58.0°	59.0°
	60.0°	61.0°	62.0°	63.0°	64.0°	65.0°	66.0°	67.0°	68.0°	69.0°
	70.0°	71.0°	72.0°	73.0°	74.0°	75.0°	76.0°	77.0°	78.0°	79.0°
	80.0°	81.0°	82.0°	83.0°	84.0°	85.0°	86.0°	87.0°	88.0°	89.0°
	90.0°	91.0°	92.0°	93.0°	94.0°	95.0°	96.0°	97.0°	98.0°	99.0°
	100.0°									



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Electrical protocol OPZS201705098-02002-sidaitongdeng-yuan12W-3000K / C-Plane measurement

[deg]	U [V]	I [A]	P [W]	PF
0.0	219.9620	0.09407	11.245	0.5435
15.0	219.9610	0.09410	11.246	0.5433
30.0	219.9620	0.09409	11.245	0.5434
45.0	219.9630	0.09411	11.249	0.5434
60.0	219.9630	0.09410	11.247	0.5434
75.0	219.9630	0.09409	11.244	0.5433
90.0	219.9630	0.09408	11.242	0.5433
180.0	219.9620	0.09407	11.245	0.5435
195.0	219.9610	0.09410	11.246	0.5433
210.0	219.9620	0.09409	11.245	0.5434
225.0	219.9630	0.09411	11.249	0.5434
240.0	219.9630	0.09410	11.247	0.5434
255.0	219.9630	0.09409	11.244	0.5433
270.0	219.9630	0.09408	11.242	0.5433



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Zonal flux OPZS201705098-02002-sidaitongdeng-yuan12W-3000K / C-Plane measurement

Gamm a [°]	Imin [cd/klm]	Imax [cd/klm]	Imean [cd/klm]	Zonal flux [lm]	Sum. zonal flux [lm]	Rel. zonal flux [%]	Sum. rel. zonal flux [%]
0.0	317.0	317.3	317.2	0.00	0.00	0.00	0.00
1.0	316.9	317.2	317.1	0.30	0.30	0.03	0.03
2.0	316.6	317.2	317.0	0.91	1.21	0.10	0.13
3.0	316.3	317.1	316.8	1.52	2.73	0.16	0.30
4.0	315.8	316.9	316.5	2.12	4.85	0.23	0.53
5.0	315.2	316.6	316.1	2.72	7.57	0.30	0.82
6.0	314.5	316.1	315.5	3.32	10.89	0.36	1.18
7.0	313.7	315.6	314.8	3.91	14.80	0.42	1.60
8.0	312.7	314.9	314.0	4.50	19.30	0.49	2.09
9.0	311.8	314.2	313.2	5.08	24.38	0.55	2.64
10.0	310.6	313.3	312.1	5.66	30.04	0.61	3.26
11.0	309.4	312.2	311.0	6.23	36.27	0.68	3.93
12.0	308.0	311.2	309.7	6.79	43.05	0.74	4.67
13.0	306.5	310.0	308.4	7.34	50.39	0.80	5.46
14.0	304.9	308.7	307.0	7.88	58.27	0.85	6.32
15.0	303.3	307.3	305.4	8.41	66.67	0.91	7.23
16.0	301.6	305.7	303.8	8.93	75.60	0.97	8.20
17.0	299.7	304.2	302.0	9.43	85.04	1.02	9.22
18.0	297.4	302.4	300.1	9.93	94.96	1.08	10.30
19.0	295.7	300.6	298.2	10.41	105.37	1.13	11.43
20.0	293.5	298.6	296.2	10.88	116.25	1.18	12.61

**Zonal flux OPZS201705098-02002-sidaitongdeng-yuan12W-3000K / C-Plane measurement**

Gamm a [°]	Imin [cd/klm]	Imax [cd/klm]	Imean [cd/klm]	Zonal flux [lm]	Sum. zonal flux [lm]	Rel. zonal flux [%]	Sum. rel. zonal flux [%]
21.0	291.2	296.7	294.1	11.33	127.59	1.23	13.83
22.0	289.0	294.5	291.8	11.77	139.36	1.28	15.11
23.0	286.4	292.3	289.5	12.20	151.56	1.32	16.43
24.0	283.9	290.0	287.0	12.60	164.16	1.37	17.80
25.0	281.1	287.6	284.5	12.99	177.16	1.41	19.21
26.0	278.5	285.2	281.9	13.37	190.53	1.45	20.66
27.0	275.7	282.6	279.2	13.73	204.26	1.49	22.15
28.0	272.9	279.9	276.4	14.07	218.32	1.53	23.67
29.0	269.6	277.1	273.5	14.39	232.71	1.56	25.23
30.0	266.7	274.1	270.6	14.69	247.40	1.59	26.82
31.0	263.6	271.3	267.4	14.97	262.37	1.62	28.45
32.0	260.4	268.0	264.3	15.23	277.60	1.65	30.10
33.0	256.8	265.1	261.1	15.48	293.08	1.68	31.78
34.0	253.6	261.8	257.7	15.70	308.78	1.70	33.48
35.0	249.9	258.6	254.3	15.90	324.68	1.72	35.20
36.0	246.4	255.0	250.8	16.08	340.76	1.74	36.95
37.0	242.6	251.7	247.3	16.24	357.01	1.76	38.71
38.0	239.0	248.2	243.6	16.39	373.39	1.78	40.49
39.0	235.1	244.4	239.8	16.50	389.89	1.79	42.28
40.0	231.1	240.5	235.9	16.59	406.49	1.80	44.07
41.0	227.1	236.9	232.0	16.66	423.15	1.81	45.88
42.0	223.0	232.8	228.0	16.71	439.86	1.81	47.69
43.0	218.9	229.0	224.0	16.74	456.60	1.82	49.51
44.0	214.7	225.0	219.8	16.75	473.36	1.82	51.32
45.0	210.4	220.8	215.6	16.74	490.09	1.81	53.14
46.0	206.2	216.8	211.4	16.70	506.79	1.81	54.95
47.0	201.6	212.4	207.0	16.64	523.43	1.80	56.75
48.0	197.0	207.8	202.4	16.55	539.98	1.79	58.55
49.0	192.2	203.3	197.9	16.44	556.42	1.78	60.33
50.0	187.7	199.2	193.4	16.31	572.73	1.77	62.10
51.0	183.1	194.4	188.7	16.17	588.89	1.75	63.85
52.0	178.2	189.8	183.8	15.99	604.88	1.73	65.59
53.0	173.0	184.8	179.1	15.79	620.67	1.71	67.30
54.0	168.3	180.2	174.2	15.57	636.24	1.69	68.99
55.0	163.2	175.3	169.3	15.33	651.57	1.66	70.65
56.0	158.1	170.2	164.2	15.07	666.64	1.63	72.28
57.0	152.9	165.2	159.2	14.79	681.43	1.60	73.89
58.0	147.9	160.3	154.1	14.49	695.92	1.57	75.46
59.0	142.6	155.3	148.9	14.17	710.08	1.54	76.99
60.0	137.3	150.2	143.6	13.82	723.90	1.50	78.49

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Gamm a [°]	Imin [cd/klm]	Imax [cd/klm]	Imean [cd/klm]	Zonal flux [lm]	Sum. zonal flux [lm]	Rel. zonal flux [%]	Sum. rel. zonal flux [%]
61.0	132.0	144.8	138.4	13.46	737.36	1.46	79.95
62.0	126.5	139.8	133.1	13.08	750.44	1.42	81.37
63.0	121.3	134.4	127.8	12.69	763.13	1.38	82.74
64.0	115.5	129.0	122.3	12.27	775.40	1.33	84.07
65.0	110.0	123.5	116.8	11.83	787.24	1.28	85.36
66.0	104.4	118.3	111.4	11.39	798.62	1.23	86.59
67.0	99.1	112.8	105.9	10.93	809.55	1.18	87.78
68.0	93.5	107.2	100.4	10.45	820.00	1.13	88.91
69.0	88.0	101.7	94.9	9.96	829.96	1.08	89.99
70.0	82.4	96.4	89.3	9.46	839.42	1.03	91.02
71.0	77.1	90.5	83.8	8.94	848.36	0.97	91.99
72.0	71.5	85.0	78.2	8.42	856.79	0.91	92.90
73.0	66.1	79.5	72.7	7.89	864.68	0.86	93.76
74.0	60.6	74.2	67.4	7.37	872.05	0.80	94.55
75.0	55.5	68.7	62.0	6.84	878.89	0.74	95.30
76.0	49.9	62.9	56.6	6.30	885.18	0.68	95.98
77.0	44.8	57.5	51.2	5.74	890.93	0.62	96.60
78.0	39.7	52.5	46.1	5.21	896.13	0.56	97.17
79.0	35.0	47.4	41.1	4.69	900.82	0.51	97.67
80.0	30.1	42.2	36.2	4.17	904.98	0.45	98.12
81.0	25.5	37.1	31.3	3.65	908.63	0.40	98.52
82.0	20.9	32.3	26.6	3.14	911.77	0.34	98.86
83.0	16.9	27.8	22.2	2.65	914.42	0.29	99.15
84.0	12.6	23.2	17.8	2.18	916.60	0.24	99.38
85.0	8.8	18.8	13.7	1.72	918.32	0.19	99.57
86.0	5.5	14.7	9.9	1.29	919.61	0.14	99.71
87.0	2.7	10.6	6.4	0.89	920.50	0.10	99.81
88.0	0.9	7.0	3.6	0.55	921.05	0.06	99.87
89.0	0.6	4.0	1.7	0.29	921.34	0.03	99.90
90.0	0.6	1.8	0.9	0.14	921.49	0.02	99.91
91.0	0.6	0.9	0.7	0.09	921.58	0.01	99.92
92.0	0.6	0.8	0.7	0.08	921.66	0.01	99.93
93.0	0.6	0.8	0.7	0.08	921.73	0.01	99.94
94.0	0.6	0.8	0.7	0.08	921.81	0.01	99.95
95.0	0.6	0.8	0.7	0.08	921.89	0.01	99.96
96.0	0.6	0.8	0.7	0.08	921.97	0.01	99.97
97.0	0.6	0.8	0.7	0.08	922.05	0.01	99.97
98.0	0.6	0.8	0.7	0.08	922.12	0.01	99.98
99.0	0.6	0.8	0.7	0.08	922.20	0.01	99.99
100.0	0.6	0.8	0.7	0.08	922.28	0.01	100.00



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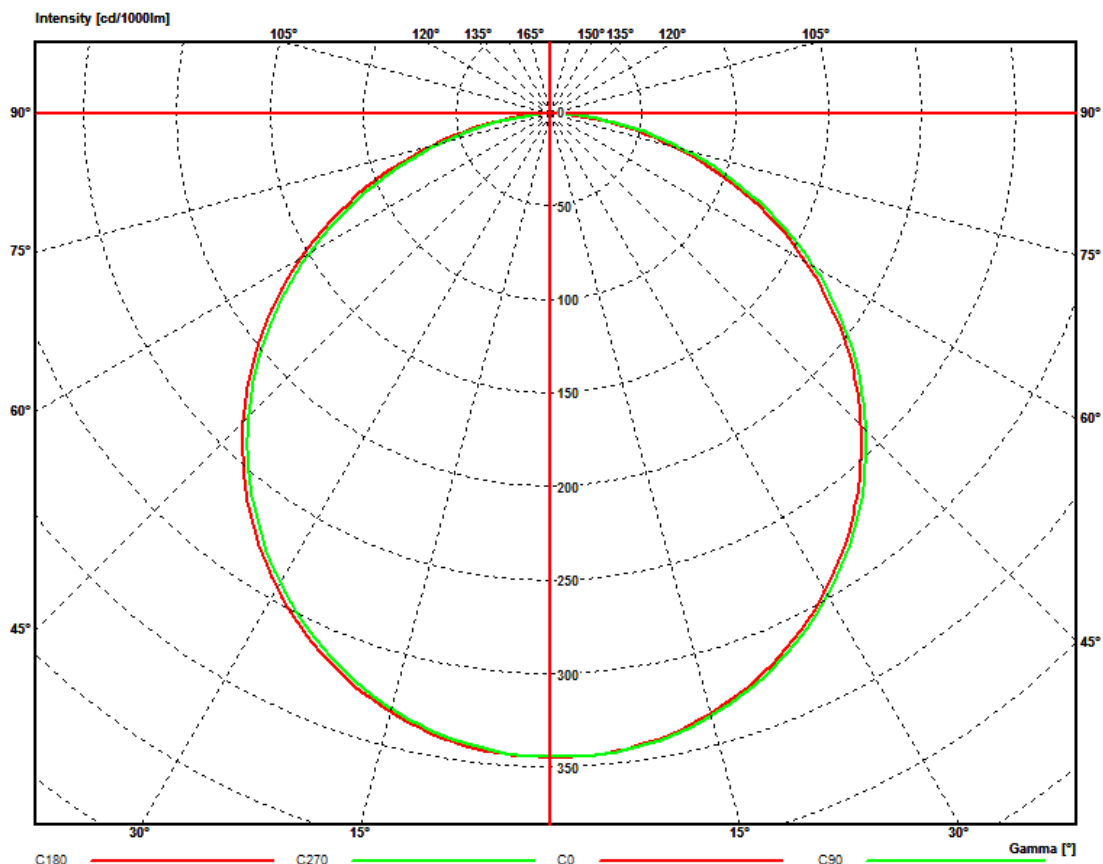
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Polar diagram OPZS201705098-02002-sidaitongdeng-yuan12W-3000K / C-Plane measurement





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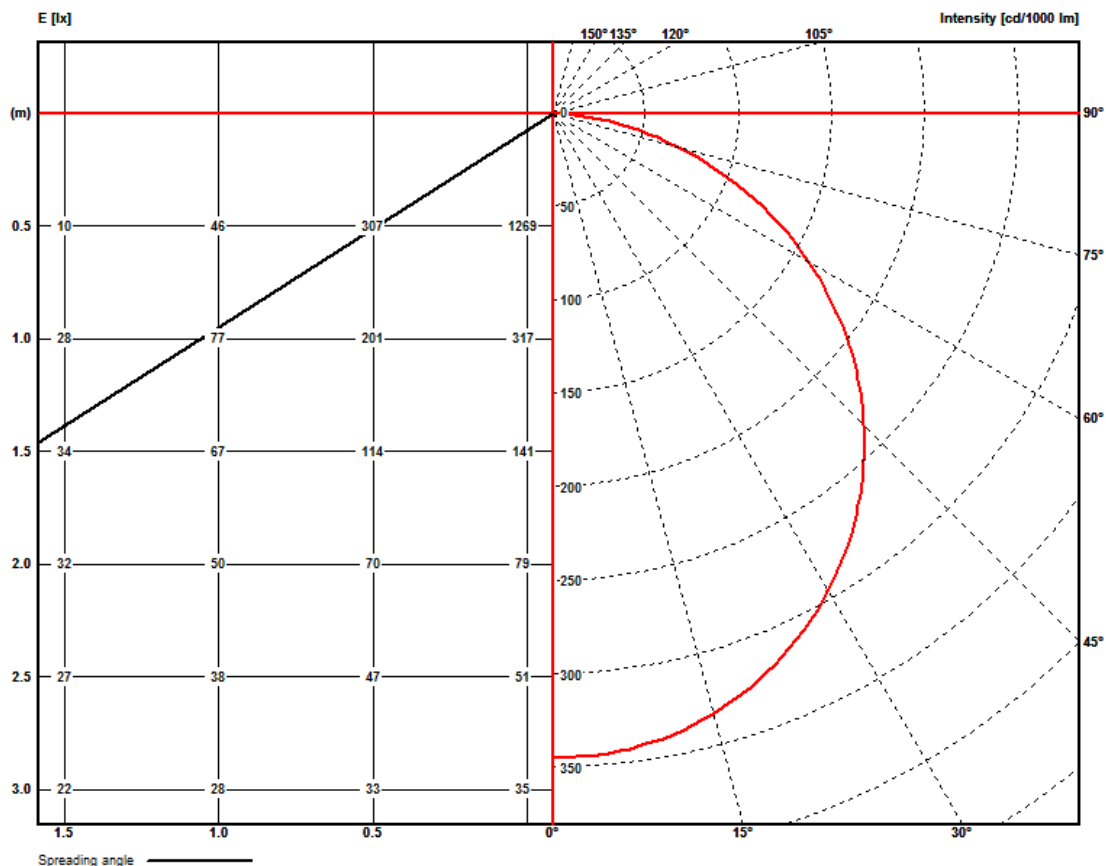
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Illuminance and Intensity diagram OPZS201705098-02002-sidaitongdeng-yuan12W-3000K / C-Plane measurement





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Cartesian diagram OPZS201705098-02002-sidaitongdeng-yuan12W-3000K / C-Plane measurement

