



OPPLE Lighting Lab

欧普照明实验室

PHOTOMETRIC RESULTS



Name:	OPZS201705098-07002-sidaitongdeng-fang18W-3000K		
Program:	Far-C15-G1-Downlight		
Lum. flux:	1545.62 lm	Av. Voltage:	220.0586 V
Efficacy:	88.93 lm/ W	Av. Current:	0.13697 A
Maximum:	527.279 cd	Av. Power:	17.380 W
FluxCone-90:	814.21 lm	Av. Power Factor:	0.5766
FluxCone-120:	1203.53 lm	Company:	Oppl
Date:	5/19/2017 12:50:45 PM	Operator:	SLY

Protocol

LiTG-class: A41
UTE-class: 1.00 E
IES-class: 46 - 78 - 95 - 100 - 100
TM5-class: BZ4/0.75/BZ5/1.00/BZ4

Divergences in the plane through maximum intensity:

	Horizontal	Vertical
One half peak divergence	114.5°	114.5°
Half peak side angle (left)	-55.9°	-56.4°
Half peak side angle (right)	58.6°	58.0°
One tenth peak divergence	163.2°	163.4°
Tenth peak side angle (left)	-80.2°	-81.0°
Tenth peak side angle (right)	83.0°	82.4°

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 OPZS201705098-07002-sidaitongdeng-fang18W-3000K / C-Plane measurement

[deg]	U [V]	I [A]	P [W]	PF
0.0	220.0580	0.13695	17.378	0.5767
15.0	220.0580	0.13697	17.379	0.5766
30.0	220.0590	0.13695	17.376	0.5766
45.0	220.0580	0.13698	17.382	0.5766
60.0	220.0590	0.13699	17.384	0.5767
75.0	220.0590	0.13698	17.380	0.5766
90.0	220.0590	0.13698	17.382	0.5767
180.0	220.0580	0.13695	17.378	0.5767
195.0	220.0580	0.13697	17.379	0.5766
210.0	220.0590	0.13695	17.376	0.5766
225.0	220.0580	0.13698	17.382	0.5766
240.0	220.0590	0.13699	17.384	0.5767
255.0	220.0590	0.13698	17.380	0.5766
270.0	220.0590	0.13698	17.382	0.5767



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Zonal flux OPZS201705098-07002-sidaitongdeng-fang18W-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	527.0	527.2	527.1	0.00	0.00	0.00	0.00
1.0	526.7	527.3	527.0	0.50	0.50	0.03	0.03
2.0	526.2	527.2	526.8	1.51	2.02	0.10	0.13
3.0	525.6	527.1	526.4	2.52	4.54	0.16	0.29
4.0	524.7	526.8	525.8	3.52	8.06	0.23	0.52
5.0	523.7	526.4	525.0	4.52	12.58	0.29	0.81
6.0	522.5	525.7	524.1	5.51	18.09	0.36	1.17
7.0	521.1	524.7	522.9	6.50	24.59	0.42	1.59
8.0	519.5	523.7	521.6	7.48	32.07	0.48	2.07
9.0	517.7	522.5	520.1	8.44	40.51	0.55	2.62
10.0	515.8	521.2	518.5	9.40	49.91	0.61	3.23
11.0	513.7	519.6	516.6	10.34	60.25	0.67	3.90
12.0	511.3	517.7	514.5	11.27	71.52	0.73	4.63
13.0	508.9	515.8	512.3	12.19	83.71	0.79	5.42
14.0	506.2	513.7	509.9	13.08	96.79	0.85	6.26
15.0	503.5	511.3	507.4	13.97	110.76	0.90	7.17
16.0	500.5	508.8	504.7	14.83	125.59	0.96	8.13
17.0	497.4	506.2	501.8	15.67	141.26	1.01	9.14
18.0	494.0	503.3	498.7	16.50	157.76	1.07	10.21
19.0	490.5	500.5	495.5	17.30	175.05	1.12	11.33
20.0	486.9	497.2	492.1	18.08	193.13	1.17	12.50

**Zonal flux OPZS201705098-07002-sidaitongdeng-fang18W-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	483.2	494.0	488.6	18.83	211.96	1.22	13.71
22.0	479.1	490.6	484.9	19.56	231.52	1.27	14.98
23.0	474.9	486.8	480.9	20.27	251.79	1.31	16.29
24.0	470.6	482.9	476.8	20.94	272.73	1.35	17.65
25.0	466.2	479.0	472.6	21.59	294.31	1.40	19.04
26.0	461.8	474.8	468.3	22.21	316.52	1.44	20.48
27.0	457.0	470.6	463.9	22.81	339.33	1.48	21.95
28.0	452.1	466.1	459.1	23.37	362.70	1.51	23.47
29.0	447.2	461.8	454.4	23.90	386.60	1.55	25.01
30.0	442.2	456.7	449.4	24.40	411.00	1.58	26.59
31.0	436.7	451.8	444.3	24.87	435.87	1.61	28.20
32.0	431.3	446.8	439.0	25.31	461.18	1.64	29.84
33.0	425.5	441.9	433.7	25.71	486.89	1.66	31.50
34.0	419.9	436.4	428.2	26.08	512.97	1.69	33.19
35.0	414.0	430.9	422.5	26.42	539.39	1.71	34.90
36.0	407.8	425.1	416.6	26.72	566.11	1.73	36.63
37.0	401.8	419.7	410.8	26.98	593.09	1.75	38.37
38.0	395.8	413.9	404.7	27.22	620.31	1.76	40.13
39.0	389.3	407.6	398.4	27.41	647.73	1.77	41.91
40.0	382.7	401.1	392.0	27.57	675.29	1.78	43.69
41.0	376.0	395.2	385.5	27.69	702.98	1.79	45.48
42.0	369.1	388.8	378.8	27.77	730.75	1.80	47.28
43.0	362.6	382.1	372.2	27.82	758.57	1.80	49.08
44.0	355.5	375.0	365.3	27.83	786.40	1.80	50.88
45.0	348.4	368.7	358.4	27.81	814.21	1.80	52.68
46.0	341.2	361.6	351.2	27.75	841.97	1.80	54.47
47.0	333.7	354.7	344.0	27.65	869.62	1.79	56.26
48.0	326.2	347.1	336.5	27.51	897.13	1.78	58.04
49.0	318.2	339.8	329.1	27.33	924.46	1.77	59.81
50.0	310.9	332.7	321.6	27.13	951.59	1.76	61.57
51.0	302.9	325.1	313.9	26.89	978.48	1.74	63.31
52.0	295.1	317.1	306.0	26.60	1005.08	1.72	65.03
53.0	286.6	309.4	298.1	26.28	1031.35	1.70	66.73
54.0	278.9	301.8	290.1	25.93	1057.28	1.68	68.40
55.0	270.6	293.6	282.1	25.54	1082.82	1.65	70.06
56.0	262.3	285.8	273.8	25.12	1107.94	1.63	71.68
57.0	253.6	277.2	265.5	24.66	1132.60	1.60	73.28
58.0	245.6	269.3	257.3	24.18	1156.78	1.56	74.84
59.0	236.8	260.8	248.7	23.66	1180.44	1.53	76.37
60.0	228.4	251.9	240.1	23.09	1203.53	1.49	77.87

**Zonal flux OPZS201705098-07002-sidaitongdeng-fang18W-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 [%]
61.0	219.7	243.6	231.6	22.51	1226.04	1.46	79.32
62.0	211.4	235.4	223.1	21.91	1247.95	1.42	80.74
63.0	202.4	226.7	214.5	21.29	1269.24	1.38	82.12
64.0	193.7	218.2	205.5	20.61	1289.85	1.33	83.45
65.0	184.2	209.0	196.7	19.91	1309.75	1.29	84.74
66.0	175.4	200.6	187.9	19.19	1328.95	1.24	85.98
67.0	166.8	191.7	179.1	18.45	1347.40	1.19	87.18
68.0	157.9	182.7	170.2	17.69	1365.09	1.14	88.32
69.0	149.2	173.7	161.3	16.91	1382.01	1.09	89.41
70.0	139.9	164.7	152.3	16.11	1398.11	1.04	90.46
71.0	131.0	155.8	143.4	15.28	1413.39	0.99	91.45
72.0	122.2	146.5	134.5	14.45	1427.85	0.94	92.38
73.0	113.7	138.1	125.7	13.61	1441.45	0.88	93.26
74.0	104.6	129.5	116.9	12.75	1454.21	0.83	94.09
75.0	96.4	120.2	108.3	11.90	1466.11	0.77	94.86
76.0	87.7	111.4	99.6	11.04	1477.15	0.71	95.57
77.0	78.7	102.4	90.8	10.15	1487.30	0.66	96.23
78.0	70.3	94.1	82.4	9.27	1496.57	0.60	96.83
79.0	62.6	85.5	74.1	8.41	1504.98	0.54	97.37
80.0	54.2	77.2	65.9	7.55	1512.53	0.49	97.86
81.0	46.4	68.9	57.6	6.68	1519.21	0.43	98.29
82.0	38.5	61.0	49.8	5.83	1525.04	0.38	98.67
83.0	30.9	52.6	42.0	4.99	1530.02	0.32	98.99
84.0	23.8	44.8	34.4	4.16	1534.19	0.27	99.26
85.0	17.0	37.2	27.0	3.35	1537.54	0.22	99.48
86.0	10.8	30.2	20.3	2.59	1540.13	0.17	99.64
87.0	6.3	23.0	14.1	1.88	1542.01	0.12	99.77
88.0	2.8	16.6	8.9	1.26	1543.26	0.08	99.85
89.0	1.1	10.9	5.0	0.76	1544.02	0.05	99.90
90.0	0.7	6.3	2.6	0.41	1544.44	0.03	99.92
91.0	0.7	3.1	1.4	0.22	1544.65	0.01	99.94
92.0	0.8	1.4	1.0	0.13	1544.78	0.01	99.95
93.0	0.8	1.1	1.0	0.11	1544.89	0.01	99.95
94.0	0.7	1.1	1.0	0.11	1545.00	0.01	99.96
95.0	0.8	1.1	1.0	0.10	1545.10	0.01	99.97
96.0	0.8	1.1	1.0	0.10	1545.21	0.01	99.97
97.0	0.8	1.1	0.9	0.10	1545.31	0.01	99.98
98.0	0.8	1.1	1.0	0.10	1545.41	0.01	99.99
99.0	0.8	1.1	1.0	0.10	1545.52	0.01	99.99
100.0	0.8	1.1	1.0	0.10	1545.62	0.01	100.00



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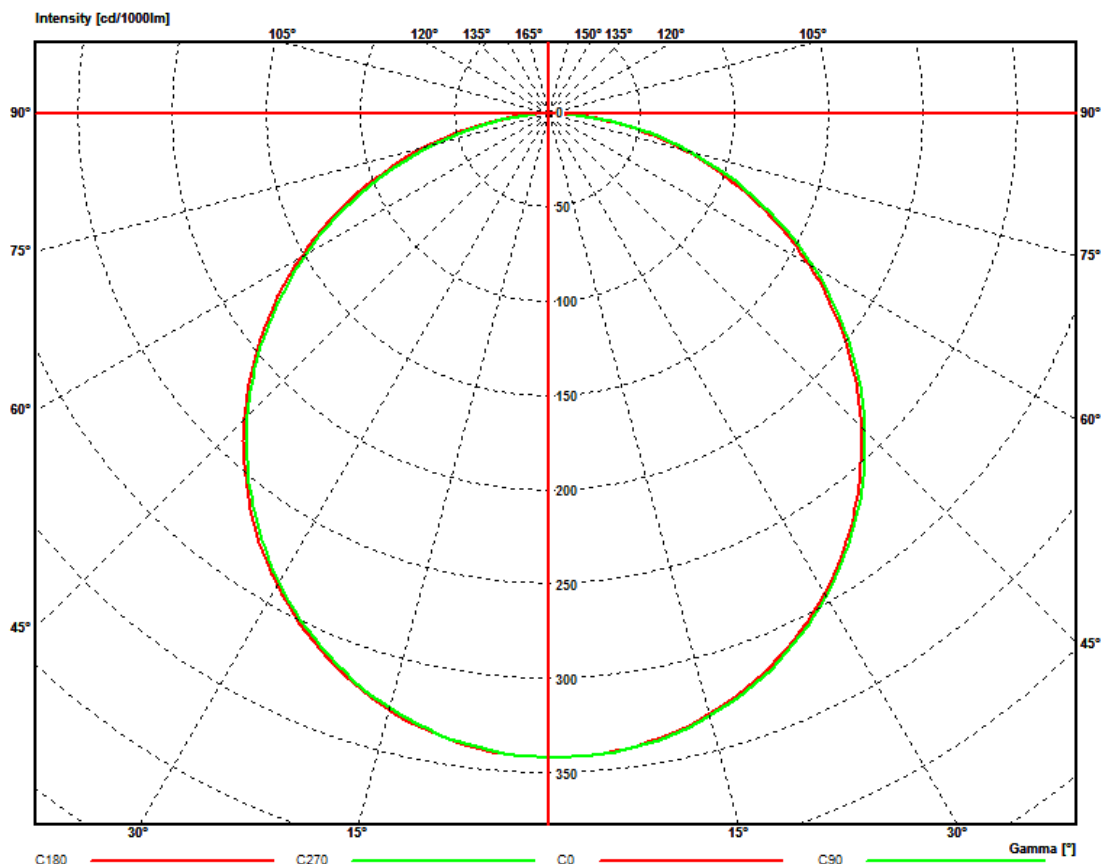
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Polar diagram OPZS201705098-07002-sidaitongdeng-fang18W-3000K / C-Plane measurement





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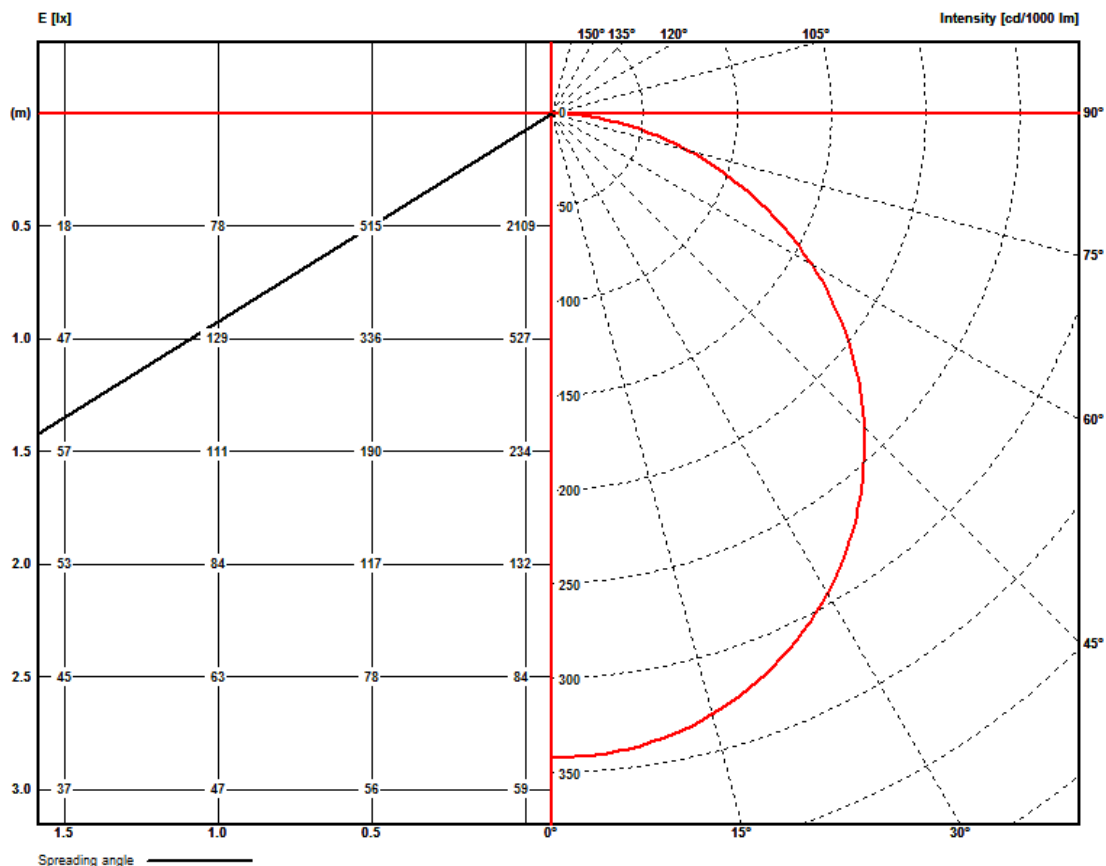
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Illuminance and Intensity diagram OPZS201705098-07002-sidaitongdeng-fang18W-3000K / C-Plane measurement





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Cartesian diagram OPZS201705098-07002-sidaitongdeng-fang18W-3000K / C-Plane measurement

