



PHOTOMETRIC RESULTS



Name:	OPZS201705098-04002-sidaitongdeng-yuan24W-3000K		
Program:	Far-C15-G1-Downlight		
Lum. flux:	1874.01 lm	Av. Voltage:	220.0401 V
Efficacy:	80.97 lm/ W	Av. Current:	0.17441 A
Maximum:	642.476 cd	Av. Power:	23.142 W
FluxCone-90:	993.21 lm	Av. Power Factor:	0.6030
FluxCone-120:	1468.02 lm	Company:	Oppl
Date:	5/18/2017 9:40:24 AM	Operator:	SLY

Protocol

LiTG-class: A41
UTE-class: 1.00 E
IES-class: 47 - 78 - 96 - 100 - 100
TM5-class: BZ4

Divergences in the plane through maximum intensity:

	Horizontal	Vertical
One half peak divergence	114.5°	114.5°
Half peak side angle (left)	-57.3°	-57.1°
Half peak side angle (right)	57.2°	57.4°
One tenth peak divergence	162.2°	162.1°
Tenth peak side angle (left)	-81.1°	-80.8°
Tenth peak side angle (right)	81.1°	81.4°

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°						

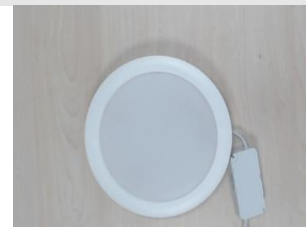
Gamma:	0.0°	1.0°	2.0°	3.0°	4.0°	5.0°	6.0°	7.0°	8.0°	9.0°
	10.0°	11.0°	12.0°	13.0°	14.0°	15.0°	16.0°	17.0°	18.0°	19.0°
	20.0°	21.0°	22.0°	23.0°	24.0°	25.0°	26.0°	27.0°	28.0°	29.0°
	30.0°	31.0°	32.0°	33.0°	34.0°	35.0°	36.0°	37.0°	38.0°	39.0°
	40.0°	41.0°	42.0°	43.0°	44.0°	45.0°	46.0°	47.0°	48.0°	49.0°
	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 OPZS201705098-04002-sidaitongdeng-yuan24W-3000K / C-Plane measurement

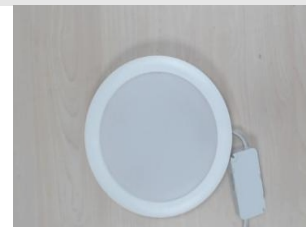
[deg]	U [V]	I [A]	P [W]	PF
0.0	220.0400	0.17438	23.137	0.6030
15.0	220.0390	0.17440	23.142	0.6030
30.0	220.0390	0.17441	23.145	0.6031
45.0	220.0400	0.17439	23.142	0.6031
60.0	220.0400	0.17442	23.146	0.6031
75.0	220.0410	0.17442	23.142	0.6030
90.0	220.0420	0.17442	23.142	0.6030
180.0	220.0400	0.17438	23.137	0.6030
195.0	220.0390	0.17440	23.142	0.6030
210.0	220.0390	0.17441	23.145	0.6031
225.0	220.0400	0.17439	23.142	0.6031
240.0	220.0400	0.17442	23.146	0.6031
255.0	220.0410	0.17442	23.142	0.6030
270.0	220.0420	0.17442	23.142	0.6030



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Zonal flux OPZS201705098-04002-sidaitongdeng-yuan24W-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	642.1	642.5	642.3	0.00	0.00	0.00	0.00
1.0	641.9	642.5	642.2	0.61	0.61	0.03	0.03
2.0	641.5	642.3	641.9	1.84	2.46	0.10	0.13
3.0	640.7	641.9	641.4	3.07	5.53	0.16	0.29
4.0	639.8	641.3	640.7	4.29	9.82	0.23	0.52
5.0	638.7	640.4	639.7	5.51	15.33	0.29	0.82
6.0	637.4	639.3	638.6	6.72	22.04	0.36	1.18
7.0	635.9	638.1	637.2	7.92	29.96	0.42	1.60
8.0	634.0	636.7	635.6	9.11	39.07	0.49	2.08
9.0	632.1	635.1	633.8	10.29	49.36	0.55	2.63
10.0	630.0	633.1	631.8	11.45	60.81	0.61	3.25
11.0	627.5	631.0	629.5	12.60	73.42	0.67	3.92
12.0	625.0	628.7	627.1	13.74	87.15	0.73	4.65
13.0	621.9	626.1	624.4	14.85	102.00	0.79	5.44
14.0	619.2	623.4	621.5	15.95	117.95	0.85	6.29
15.0	615.9	620.5	618.4	17.02	134.97	0.91	7.20
16.0	612.5	617.6	615.2	18.08	153.05	0.96	8.17
17.0	608.7	614.0	611.7	19.11	172.15	1.02	9.19
18.0	605.1	610.4	608.0	20.11	192.26	1.07	10.26
19.0	600.9	606.6	604.0	21.09	213.35	1.13	11.38
20.0	596.6	602.7	599.9	22.04	235.39	1.18	12.56

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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 [%]
21.0	592.1	598.6	595.6	22.96	258.34	1.23	13.79
22.0	587.8	594.4	591.2	23.85	282.19	1.27	15.06
23.0	582.8	589.7	586.5	24.71	306.91	1.32	16.38
24.0	577.5	584.8	581.5	25.54	332.44	1.36	17.74
25.0	572.3	579.8	576.3	26.33	358.77	1.40	19.14
26.0	567.0	574.9	571.2	27.09	385.86	1.45	20.59
27.0	561.6	569.4	565.8	27.82	413.67	1.48	22.07
28.0	555.7	563.9	560.1	28.51	442.18	1.52	23.60
29.0	549.6	558.5	554.3	29.16	471.34	1.56	25.15
30.0	543.8	552.6	548.3	29.77	501.11	1.59	26.74
31.0	537.2	546.3	542.1	30.34	531.45	1.62	28.36
32.0	530.6	539.9	535.7	30.88	562.33	1.65	30.01
33.0	523.9	533.8	529.2	31.37	593.70	1.67	31.68
34.0	517.3	527.0	522.5	31.83	625.53	1.70	33.38
35.0	510.2	520.4	515.6	32.24	657.77	1.72	35.10
36.0	503.4	512.9	508.4	32.60	690.37	1.74	36.84
37.0	495.9	506.1	501.3	32.93	723.30	1.76	38.60
38.0	488.5	498.7	494.0	33.22	756.52	1.77	40.37
39.0	480.9	491.6	486.3	33.46	789.98	1.79	42.15
40.0	472.6	483.7	478.4	33.65	823.63	1.80	43.95
41.0	464.3	476.2	470.6	33.79	857.42	1.80	45.75
42.0	456.1	467.8	462.5	33.90	891.32	1.81	47.56
43.0	448.6	459.5	454.3	33.96	925.29	1.81	49.37
44.0	439.6	451.5	445.9	33.98	959.26	1.81	51.19
45.0	431.3	443.4	437.5	33.95	993.21	1.81	53.00
46.0	422.3	434.7	428.8	33.88	1027.09	1.81	54.81
47.0	413.7	425.6	420.0	33.76	1060.85	1.80	56.61
48.0	404.6	416.6	410.8	33.58	1094.43	1.79	58.40
49.0	395.2	408.1	401.7	33.36	1127.79	1.78	60.18
50.0	385.4	398.8	392.5	33.11	1160.91	1.77	61.95
51.0	376.5	389.1	383.1	32.81	1193.72	1.75	63.70
52.0	366.8	379.4	373.3	32.45	1226.17	1.73	65.43
53.0	356.9	370.3	363.6	32.06	1258.23	1.71	67.14
54.0	346.7	360.3	353.9	31.62	1289.85	1.69	68.83
55.0	337.1	350.2	343.8	31.14	1321.00	1.66	70.49
56.0	326.8	340.6	333.7	30.61	1351.61	1.63	72.12
57.0	316.5	330.2	323.6	30.05	1381.66	1.60	73.73
58.0	305.9	320.4	313.3	29.45	1411.11	1.57	75.30
59.0	296.0	309.6	302.8	28.81	1439.92	1.54	76.84
60.0	285.3	298.7	292.1	28.10	1468.02	1.50	78.34

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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	273.8	288.8	281.6	27.38	1495.40	1.46	79.80
62.0	262.8	277.8	270.9	26.62	1522.02	1.42	81.22
63.0	253.1	267.2	260.3	25.83	1547.85	1.38	82.60
64.0	242.2	256.0	249.2	25.00	1572.85	1.33	83.93
65.0	230.4	245.4	238.1	24.12	1596.96	1.29	85.22
66.0	219.2	234.3	227.1	23.21	1620.18	1.24	86.45
67.0	209.1	223.0	216.2	22.29	1642.47	1.19	87.64
68.0	198.0	212.1	205.1	21.34	1663.81	1.14	88.78
69.0	186.7	201.4	194.0	20.36	1684.18	1.09	89.87
70.0	175.2	190.2	182.6	19.34	1703.52	1.03	90.90
71.0	164.7	178.6	171.6	18.31	1721.83	0.98	91.88
72.0	153.7	167.4	160.5	17.27	1739.10	0.92	92.80
73.0	142.4	156.1	149.2	16.19	1755.30	0.86	93.67
74.0	131.2	145.4	138.3	15.11	1770.41	0.81	94.47
75.0	120.9	134.1	127.5	14.05	1784.46	0.75	95.22
76.0	110.3	123.5	116.7	12.96	1797.42	0.69	95.91
77.0	99.5	112.1	105.7	11.86	1809.27	0.63	96.55
78.0	88.9	101.9	95.3	10.76	1820.04	0.57	97.12
79.0	79.1	91.7	85.3	9.70	1829.74	0.52	97.64
80.0	68.7	81.3	75.1	8.64	1838.39	0.46	98.10
81.0	59.3	71.1	65.0	7.58	1845.96	0.40	98.50
82.0	49.7	61.7	55.6	6.54	1852.50	0.35	98.85
83.0	40.9	51.9	46.3	5.54	1858.04	0.30	99.15
84.0	31.7	42.6	37.2	4.55	1862.59	0.24	99.39
85.0	23.5	33.7	28.6	3.60	1866.19	0.19	99.58
86.0	15.7	25.6	20.7	2.70	1868.89	0.14	99.73
87.0	9.2	17.6	13.3	1.86	1870.75	0.10	99.83
88.0	4.4	10.5	7.3	1.13	1871.88	0.06	99.89
89.0	1.7	5.0	3.0	0.57	1872.45	0.03	99.92
90.0	1.0	1.7	1.4	0.24	1872.69	0.01	99.93
91.0	0.9	1.5	1.2	0.14	1872.83	0.01	99.94
92.0	0.9	1.5	1.2	0.13	1872.96	0.01	99.94
93.0	0.9	1.4	1.2	0.13	1873.09	0.01	99.95
94.0	0.9	1.5	1.2	0.13	1873.23	0.01	99.96
95.0	0.9	1.5	1.2	0.13	1873.36	0.01	99.97
96.0	0.9	1.4	1.2	0.13	1873.49	0.01	99.97
97.0	1.0	1.4	1.2	0.13	1873.62	0.01	99.98
98.0	0.9	1.4	1.2	0.13	1873.75	0.01	99.99
99.0	1.0	1.5	1.2	0.13	1873.88	0.01	99.99
100.0	1.0	1.5	1.2	0.13	1874.01	0.01	100.00



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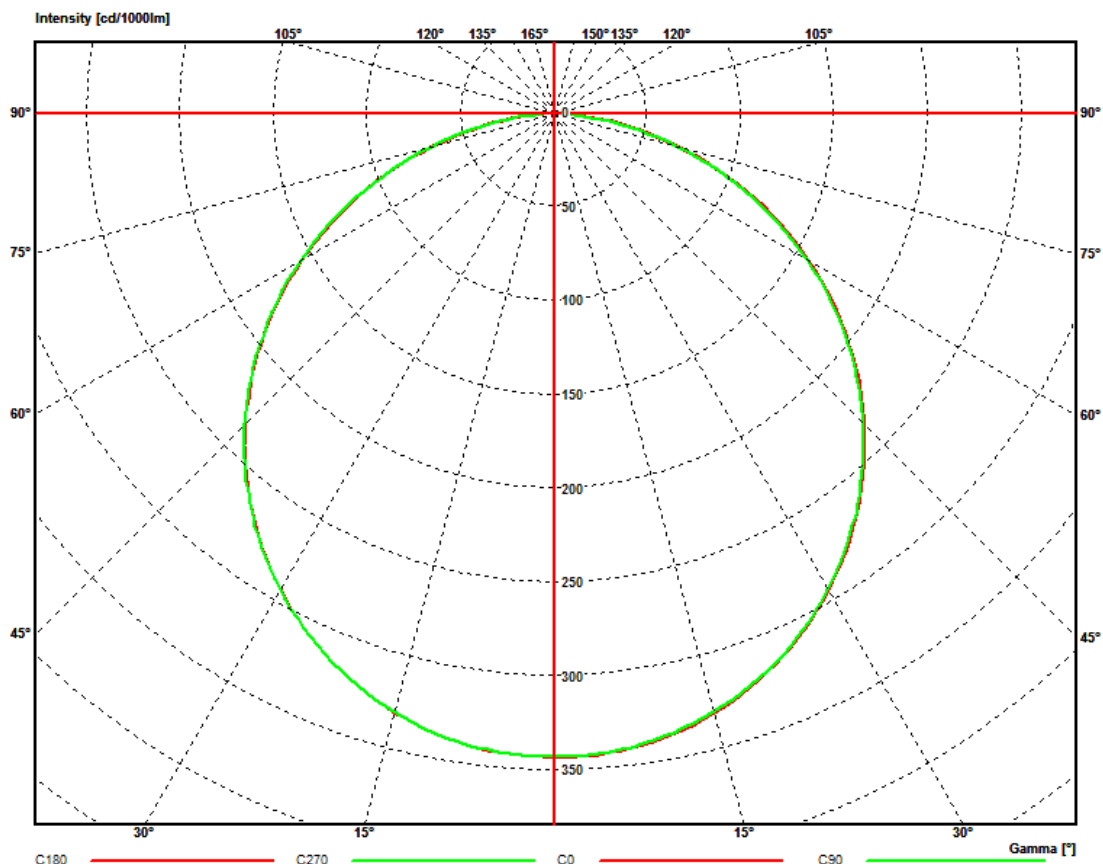
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Polar diagram OPZS201705098-04002-sidaitongdeng-yuan24W-3000K / C-Plane measurement





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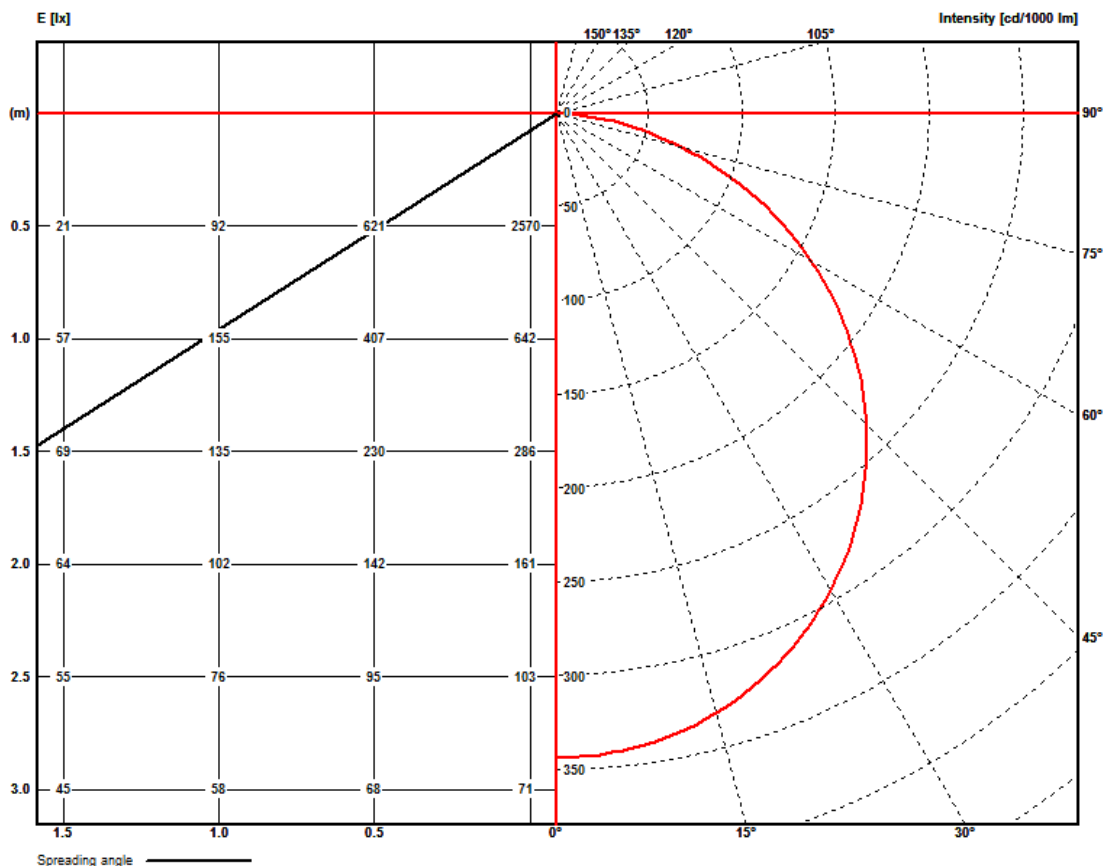
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Illuminance and Intensity diagram OPZS201705098-04002-sidaitongdeng-yuan24W-3000K / C-Plane measurement





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Cartesian diagram OPZS201705098-04002-sidaitongdeng-yuan24W-3000K / C-Plane measurement

