

Intensity [cd/klm] APL5-DS-13 3000K 1000lm / C-Plane measurement

[illegible]

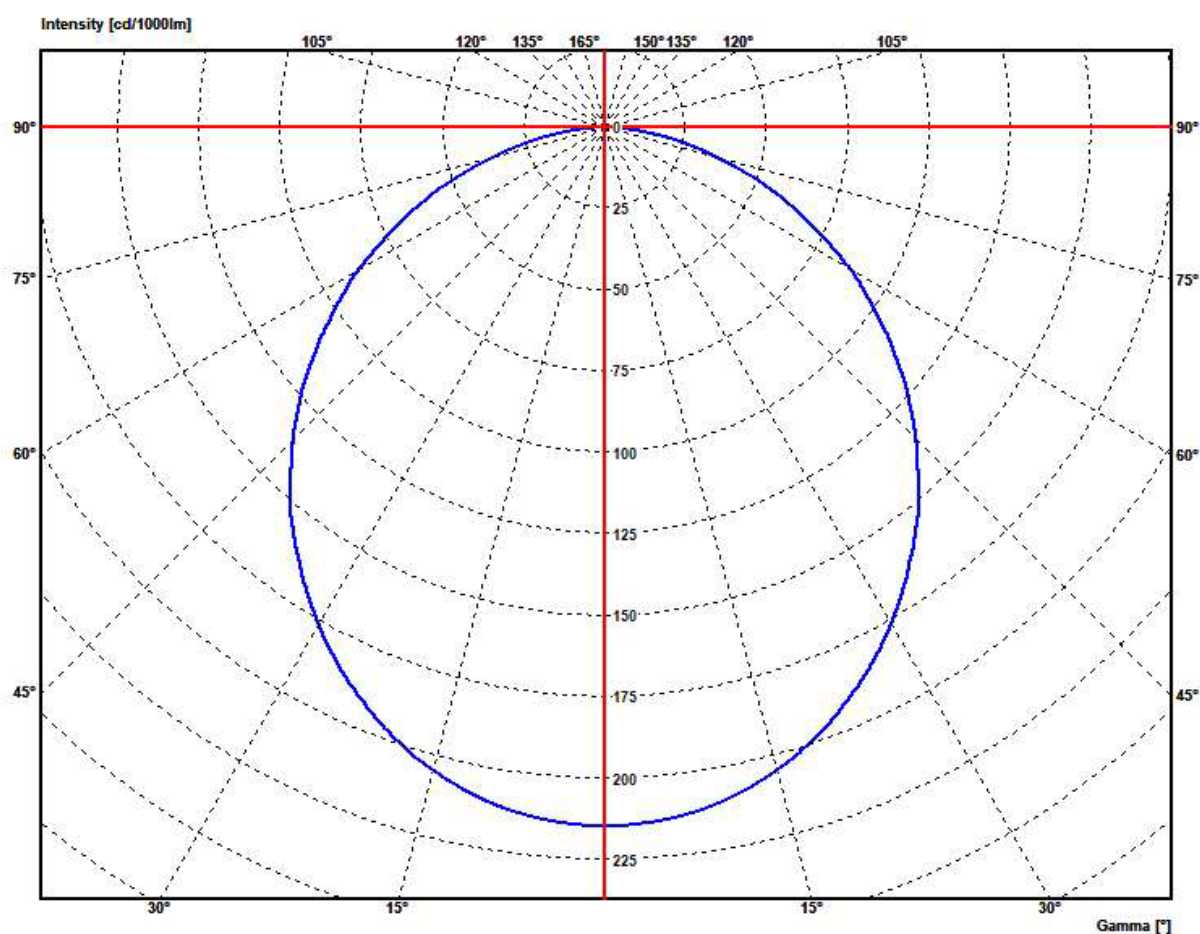
Intensity [cd/klm] APL5-DS-13 3000K 1000lm / C-Plane measurement

[illegible]

PHOTOMETRIC RESULTS

Name:	APL5-DS-13_3000K_1000lm		
Number:	LED PENDANT LIGHT	Diameter:	136 mm
Report:	AL.DIE-CASTING, PC.OPAQUE ACRYLIC COVER. CRI80	Length:	0 mm
Test no.:	LT-2020-09-14-T08	Width:	0 mm
Lamp type:	LED19W, 500mA, 3000K, CRI80	Height:	132 mm
No. of lamps:	1	Power:	18.91 W
Lamp flux:	2528.00 lm	Operator:	ASY
Date:	2020-09-14 PM 3:23:19	LOR:	58.2 %
Comment:	OSRAM OT FIT30/220-240 700 CS, 23-42VDC, 500mA 21W		

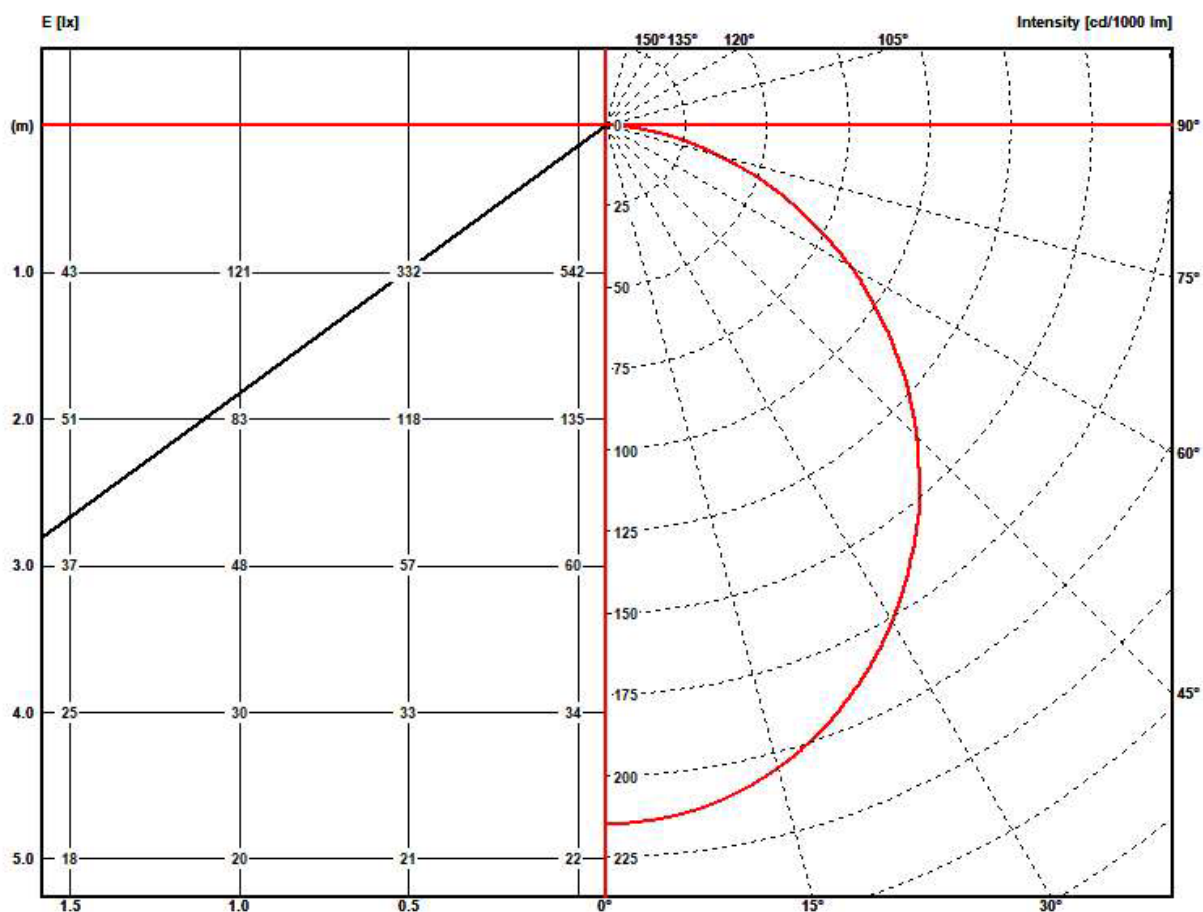
Polar diagram APL5-DS-13_3000K_1000lm / C-Plane measurement



PHOTOMETRIC RESULTS

Name:	APL5-DS-13_3000K_1000lm		
Number:	LED PENDANT LIGHT	Diameter:	136 mm
Report:	AL.DIE-CASTING, PC.OPAQUE ACRYLIC COVER. CRI80	Length:	0 mm
Test no.:	LT-2020-09-14-T08	Width:	0 mm
Lamp type:	LED19W, 500mA, 3000K, CRI80	Height:	132 mm
No. of lamps:	1	Power:	18.91 W
Lamp flux:	2528.00 lm	Operator:	ASY
Date:	2020-09-14 PM 3:23:19	LOR:	58.2 %
Comment:	OSRAM OT FIT30/220-240 700 CS, 23-42VDC, 500mA 21W		

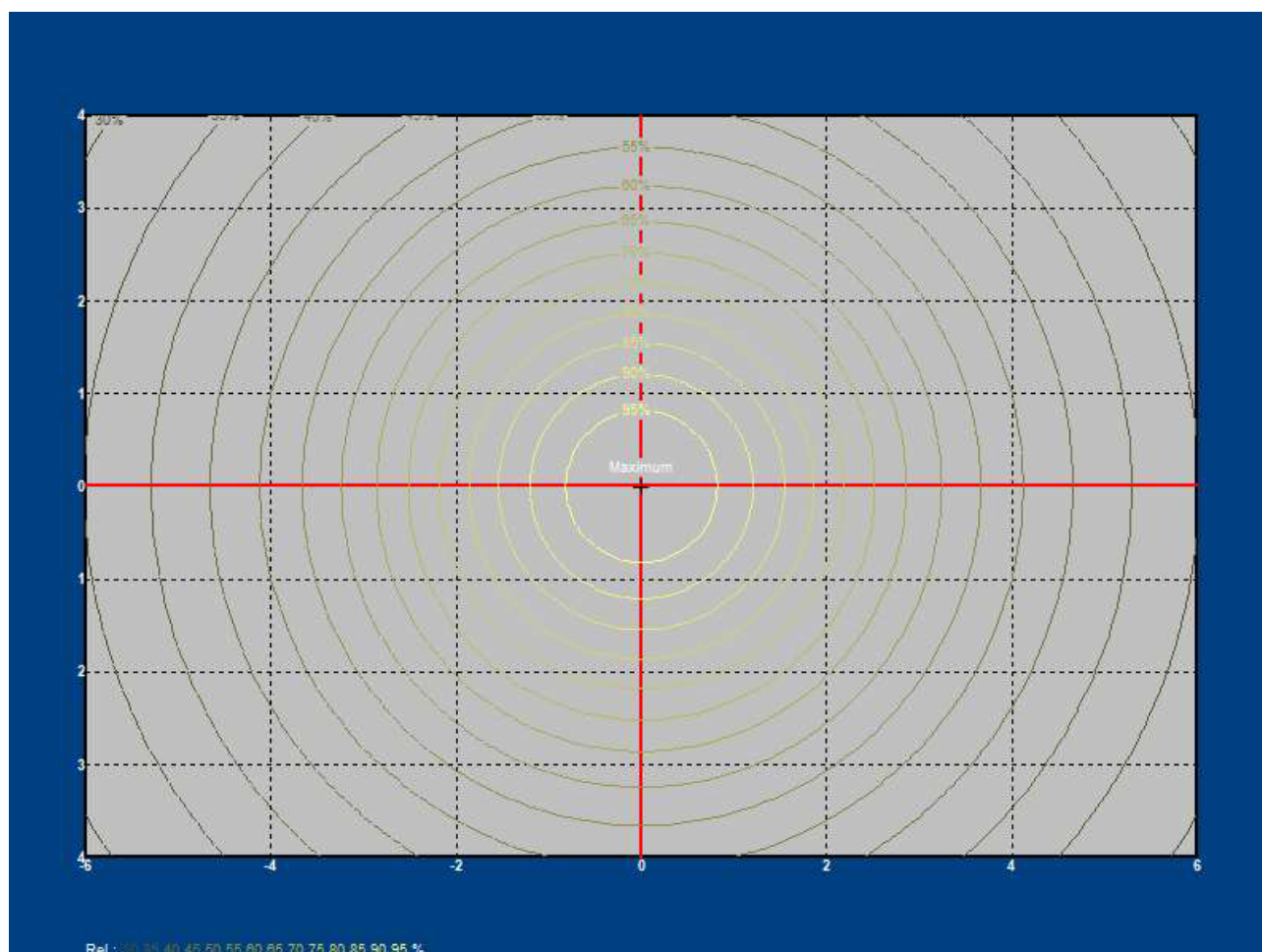
Illuminance and Intensity diagram APL5-DS-13_3000K_1000lm / C-Plane measurement



PHOTOMETRIC RESULTS

Name:	APL5-DS-13_3000K_1000lm		
Number:	LED PENDANT LIGHT	Diameter:	136 mm
Report:	AL.DIE-CASTING, PC.OPAQUE ACRYLIC COVER. CRI80	Length:	0 mm
Test no.:	LT-2020-09-14-T08	Width:	0 mm
Lamp type:	LED19W, 500mA, 3000K, CRI80	Height:	132 mm
No. of lamps:	1	Power:	18.91 W
Lamp flux:	2528.00 lm	Operator:	ASY
Date:	2020-09-14 PM 3:23:19	LOR:	58.2 %
Comment:	OSRAM OT FIT30/220-240 700 CS, 23-42VDC, 500mA 21W		

Isoline diagram APL5-DS-13_3000K_1000lm / C-Plane measurement



Luminaire mounting height above ground: 3 m

Luminaire rotation angle: 0 °

PHOTOMETRIC RESULTS

Name:	APL5-DS-13_3000K_1000lm		
Number:	LED PENDANT LIGHT	Diameter:	136 mm
Report:	AL.DIE-CASTING, PC.OPAQUE ACRYLIC COVER. CRI80	Length:	0 mm
Test no.:	LT-2020-09-14-T08	Width:	0 mm
Lamp type:	LED19W, 500mA, 3000K, CRI80	Height:	132 mm
No. of lamps:	1	Power:	18.91 W
Lamp flux:	2528.00 lm	Operator:	ASY
Date:	2020-09-14 PM 3:23:19	LOR:	58.2 %
Comment:	OSRAM OT FIT30/220-240 700 CS, 23-42VDC, 500mA 21W		

LiTG Utilization factors

Ceiling	70	80	80	50	50	80	80	80	50	50	30	0
Wall	50	50	30	50	30	80	50	30	50	30	30	0
Working plane	20	30	30	30	30	10	10	10	10	10	10	0
Roomindices	Utilization coefficients for ceiling mounted luminaires											
0.6	24	25	20	24	20	36	24	20	24	20	20	16
0.8	30	31	26	30	26	41	30	26	29	26	25	22
1	35	36	31	35	31	45	34	30	34	30	30	26
1.25	40	42	37	40	36	49	39	35	38	35	35	31
1.5	44	46	41	44	40	51	43	39	42	39	38	35
2	48	52	47	49	45	54	47	44	46	43	42	39
2.5	52	56	51	52	49	56	50	47	49	46	46	43
3	55	59	55	55	52	57	53	50	51	49	48	46
4	57	62	59	58	55	59	55	53	53	51	51	48
5	59	65	62	60	57	60	56	55	55	53	52	50

Ceiling	70	80	80	50	50	80	80	80	50	50	30	0
Wall	50	50	30	50	30	80	50	30	50	30	30	0
Working plane	20	30	30	30	30	10	10	10	10	10	10	0
Roomindices	Utilization coefficients for pendant mounted luminaires											
0.6	26	27	21	25	21	38	25	21	24	20	20	16
0.8	32	33	28	32	27	43	31	27	30	26	26	22
1	36	39	33	36	31	47	36	31	34	30	30	26
1.25	42	44	39	42	37	50	41	37	39	36	35	31
1.5	45	49	43	45	41	52	44	40	42	39	38	35
2	50	54	49	50	46	55	48	45	46	44	43	39
2.5	53	58	54	53	50	57	51	48	49	47	46	43
3	56	61	57	56	53	58	53	51	52	50	49	46
4	58	64	61	58	56	59	56	53	53	52	51	48
5	60	66	64	60	58	60	57	55	55	54	53	50

PHOTOMETRIC RESULTS

Name:	APL5-DS-13_3000K_1000lm		
Number:	LED PENDANT LIGHT	Diameter:	136 mm
Report:	AL.DIE-CASTING, PC.OPAQUE ACRYLIC COVER. CRI80	Length:	0 mm
Test no.:	LT-2020-09-14-T08	Width:	0 mm
Lamp type:	LED19W, 500mA, 3000K, CRI80	Height:	132 mm
No. of lamps:	1	Power:	18.91 W
Lamp flux:	2528.00 lm	Operator:	ASY
Date:	2020-09-14 PM 3:23:19	LOR:	58.2 %
Comment:	OSRAM OT FIT30/220-240 700 CS, 23-42VDC, 500mA 21W		

UGR Unified Glare Ratios

Ceiling reflectance		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall reflectance		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Floor cavity reflectance		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimension		Viewed crosswise					Viewed endwise				
2H	2H	17.2	18.8	17.5	19.1	19.4	17.2	18.8	17.5	19.1	19.4
2H	3H	18.2	19.7	18.6	20.1	20.4	18.2	19.7	18.6	20.1	20.4
2H	4H	18.6	20.0	19.0	20.4	20.7	18.6	20.0	19.0	20.4	20.7
2H	6H	18.8	20.1	19.2	20.5	20.9	18.8	20.1	19.2	20.5	20.9
2H	8H	18.8	20.1	19.3	20.5	20.9	18.8	20.1	19.3	20.5	20.9
2H	12H	18.8	20.0	19.2	20.4	20.8	18.8	20.0	19.2	20.4	20.8
4H	2H	17.6	19.0	18.0	19.4	19.7	17.6	19.0	18.0	19.4	19.7
4H	3H	18.8	20.0	19.3	20.4	20.8	18.8	20.0	19.3	20.4	20.8
4H	4H	19.3	20.4	19.8	20.8	21.2	19.3	20.4	19.8	20.8	21.2
4H	6H	19.6	20.5	20.0	21.0	21.4	19.6	20.5	20.0	21.0	21.4
4H	8H	19.6	20.5	20.1	21.0	21.4	19.6	20.5	20.1	21.0	21.4
4H	12H	19.7	20.5	20.2	20.9	21.4	19.7	20.5	20.2	20.9	21.4
8H	4H	19.4	20.3	19.9	20.8	21.2	19.4	20.3	19.9	20.8	21.2
8H	6H	19.7	20.5	20.2	21.0	21.4	19.7	20.5	20.2	21.0	21.4
8H	8H	19.9	20.5	20.4	21.0	21.5	19.9	20.5	20.4	21.0	21.5
8H	12H	19.9	20.5	20.5	21.0	21.5	19.9	20.5	20.5	21.0	21.5
12H	4H	19.5	20.3	19.9	20.7	21.2	19.5	20.3	19.9	20.7	21.2
12H	6H	19.8	20.5	20.3	21.0	21.4	19.8	20.5	20.3	21.0	21.4
12H	8H	19.9	20.5	20.4	21.0	21.5	19.9	20.5	20.4	21.0	21.5

PHOTOMETRIC RESULTS

Name:	APL5-DS-13_3000K_1000lm		
Number:	LED PENDANT LIGHT	Diameter:	136 mm
Report:	AL.DIE-CASTING, PC.OPAQUE ACRYLIC COVER. CRI80	Length:	0 mm
Test no.:	LT-2020-09-14-T08	Width:	0 mm
Lamp type:	LED19W, 500mA, 3000K, CRI80	Height:	132 mm
No. of lamps:	1	Power:	18.91 W
Lamp flux:	2528.00 lm	Operator:	ASY
Date:	2020-09-14 PM 3:23:19	LOR:	58.2 %
Comment:	OSRAM OT FIT30/220-240 700 CS, 23-42VDC, 500mA 21W		

Zonal flux APL5-DS-13_3000K_1000lm / C-Plane measurement

Gamma [°]	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	214.4	214.4	214.4	0.13	0.13	0.01	0.01
1.0	214.3	214.3	214.3	1.04	1.17	0.04	0.05
2.0	214.2	214.2	214.2	2.07	3.24	0.08	0.13
3.0	213.9	213.9	213.9	3.10	6.34	0.12	0.25
4.0	213.6	213.6	213.6	4.13	10.47	0.16	0.41
5.0	213.2	213.2	213.2	5.15	15.62	0.20	0.62
6.0	212.6	212.6	212.6	6.16	21.78	0.24	0.86
7.0	212.0	212.0	212.0	7.16	28.95	0.28	1.15
8.0	211.4	211.4	211.4	8.16	37.10	0.32	1.47
9.0	210.6	210.6	210.6	9.13	46.24	0.36	1.83
10.0	209.7	209.7	209.7	10.10	56.34	0.40	2.23
11.0	208.8	208.8	208.8	11.04	67.38	0.44	2.67
12.0	207.7	207.7	207.7	11.97	79.35	0.47	3.14
13.0	206.5	206.5	206.5	12.88	92.23	0.51	3.65
14.0	205.3	205.3	205.3	13.77	106.00	0.54	4.19
15.0	204.0	204.0	204.0	14.63	120.64	0.58	4.77
16.0	202.7	202.7	202.7	15.49	136.13	0.61	5.38
17.0	201.3	201.3	201.3	16.32	152.44	0.65	6.03
18.0	199.7	199.7	199.7	17.11	169.55	0.68	6.71
19.0	198.2	198.2	198.2	17.89	187.44	0.71	7.41
20.0	196.4	196.4	196.4	18.62	206.06	0.74	8.15
21.0	194.6	194.6	194.6	19.34	225.40	0.76	8.92
22.0	192.8	192.8	192.8	20.02	245.42	0.79	9.71
23.0	190.8	190.8	190.8	20.67	266.09	0.82	10.53
24.0	188.9	188.9	188.9	21.30	287.39	0.84	11.37
25.0	187.0	187.0	187.0	21.91	309.30	0.87	12.23
26.0	184.9	184.9	184.9	22.47	331.77	0.89	13.12
27.0	182.7	182.7	182.7	22.99	354.76	0.91	14.03
28.0	180.5	180.5	180.5	23.49	378.26	0.93	14.96
29.0	178.2	178.2	178.2	23.96	402.21	0.95	15.91

PHOTOMETRIC RESULTS

Name:	APL5-DS-13_3000K_1000lm		
Number:	LED PENDANT LIGHT	Diameter:	136 mm
Report:	AL.DIE-CASTING, PC OPAQUE ACRYLIC COVER. CRI80	Length:	0 mm
Test no.:	LT-2020-09-14-T08	Width:	0 mm
Lamp type:	LED19W, 500mA, 3000K, CRI80	Height:	132 mm
No. of lamps:	1	Power:	18.91 W
Lamp flux:	2528.00 lm	Operator:	ASY
Date:	2020-09-14 PM 3:23:19	LOR:	58.2 %
Comment:	OSRAM OT FIT30/220-240 700 CS, 23-42VDC, 500mA 21W		

Zonal flux APL5-DS-13_3000K_1000lm / C-Plane measurement

Gamma [°]	Imin [cd/klm]	Imax [cd/klm]	Imean [cd/klm]	Zonal flux [lm]	Sum. zonal flux [lm]	Rel. zonal flux [%]	Sum. rel. zonal flux [%]
30.0	175.9	175.9	175.9	24.38	426.59	0.96	16.87
31.0	173.3	173.3	173.3	24.75	451.34	0.98	17.85
32.0	171.1	171.1	171.1	25.14	476.48	0.99	18.85
33.0	168.5	168.5	168.5	25.44	501.92	1.01	19.85
34.0	166.0	166.0	166.0	25.73	527.65	1.02	20.87
35.0	163.3	163.3	163.3	25.96	553.61	1.03	21.90
36.0	160.8	160.8	160.8	26.21	579.82	1.04	22.94
37.0	158.3	158.3	158.3	26.40	606.23	1.04	23.98
38.0	155.5	155.5	155.5	26.54	632.77	1.05	25.03
39.0	153.1	153.1	153.1	26.71	659.47	1.06	26.09
40.0	150.0	150.0	150.0	26.73	686.20	1.06	27.14
41.0	146.9	146.9	146.9	26.71	712.91	1.06	28.20
42.0	143.9	143.9	143.9	26.70	739.62	1.06	29.26
43.0	141.1	141.1	141.1	26.68	766.29	1.06	30.31
44.0	138.1	138.1	138.1	26.60	792.89	1.05	31.36
45.0	135.4	135.4	135.4	26.54	819.43	1.05	32.41
46.0	132.3	132.3	132.3	26.38	845.81	1.04	33.46
47.0	129.2	129.2	129.2	26.19	872.01	1.04	34.49
48.0	126.1	126.1	126.1	25.98	897.98	1.03	35.52
49.0	123.2	123.2	123.2	25.79	923.77	1.02	36.54
50.0	119.9	119.9	119.9	25.46	949.23	1.01	37.55
51.0	116.7	116.7	116.7	25.14	974.37	0.99	38.54
52.0	113.2	113.2	113.2	24.73	999.10	0.98	39.52
53.0	110.2	110.2	110.2	24.40	1023.50	0.97	40.49
54.0	106.9	106.9	106.9	23.98	1047.48	0.95	41.44
55.0	103.3	103.3	103.3	23.46	1070.94	0.93	42.36
56.0	100.3	100.3	100.3	23.05	1093.99	0.91	43.27
57.0	97.1	97.1	97.1	22.57	1116.56	0.89	44.17
58.0	93.7	93.7	93.7	22.03	1138.59	0.87	45.04
59.0	90.9	90.9	90.9	21.60	1160.19	0.85	45.89

PHOTOMETRIC RESULTS

Name:	APL5-DS-13_3000K_1000lm		
Number:	LED PENDANT LIGHT	Diameter:	136 mm
Report:	AL.DIE-CASTING, PC OPAQUE ACRYLIC COVER. CRI80	Length:	0 mm
Test no.:	LT-2020-09-14-T08	Width:	0 mm
Lamp type:	LED19W, 500mA, 3000K, CRI80	Height:	132 mm
No. of lamps:	1	Power:	18.91 W
Lamp flux:	2528.00 lm	Operator:	ASY
Date:	2020-09-14 PM 3:23:19	LOR:	58.2 %
Comment:	OSRAM OT FIT30/220-240 700 CS, 23-42VDC, 500mA 21W		

Zonal flux APL5-DS-13_3000K_1000lm / C-Plane measurement

Gamma [°]	Imin [cd/klm]	Imax [cd/klm]	Imean [cd/klm]	Zonal flux [lm]	Sum. zonal flux [lm]	Rel. zonal flux [%]	Sum. rel. zonal flux [%]
60.0	87.4	87.4	87.4	20.98	1181.17	0.83	46.72
61.0	83.7	83.7	83.7	20.29	1201.45	0.80	47.53
62.0	80.2	80.2	80.2	19.63	1221.09	0.78	48.30
63.0	76.6	76.6	76.6	18.92	1240.00	0.75	49.05
64.0	73.3	73.3	73.3	18.27	1258.27	0.72	49.77
65.0	69.9	69.9	69.9	17.55	1275.82	0.69	50.47
66.0	66.7	66.7	66.7	16.90	1292.72	0.67	51.14
67.0	63.3	63.3	63.3	16.14	1308.86	0.64	51.77
68.0	59.8	59.8	59.8	15.38	1324.24	0.61	52.38
69.0	56.9	56.9	56.9	14.72	1338.96	0.58	52.97
70.0	53.4	53.4	53.4	13.92	1352.88	0.55	53.52
71.0	49.9	49.9	49.9	13.07	1365.95	0.52	54.03
72.0	46.2	46.2	46.2	12.18	1378.13	0.48	54.51
73.0	42.9	42.9	42.9	11.37	1389.50	0.45	54.96
74.0	39.7	39.7	39.7	10.59	1400.09	0.42	55.38
75.0	36.2	36.2	36.2	9.69	1409.78	0.38	55.77
76.0	33.6	33.6	33.6	9.04	1418.82	0.36	56.12
77.0	30.6	30.6	30.6	8.28	1427.10	0.33	56.45
78.0	27.4	27.4	27.4	7.44	1434.54	0.29	56.75
79.0	24.6	24.6	24.6	6.70	1441.24	0.26	57.01
80.0	22.2	22.2	22.2	6.06	1447.30	0.24	57.25
81.0	19.2	19.2	19.2	5.25	1452.55	0.21	57.46
82.0	16.2	16.2	16.2	4.45	1457.00	0.18	57.63
83.0	13.5	13.5	13.5	3.72	1460.72	0.15	57.78
84.0	11.3	11.3	11.3	3.11	1463.83	0.12	57.90
85.0	8.7	8.7	8.7	2.41	1466.24	0.10	58.00
86.0	6.5	6.5	6.5	1.81	1468.05	0.07	58.07
87.0	5.2	5.2	5.2	1.43	1469.48	0.06	58.13
88.0	3.5	3.5	3.5	0.97	1470.45	0.04	58.17
89.0	2.3	2.3	2.3	0.64	1471.09	0.03	58.19

PHOTOMETRIC RESULTS

Name:	APL5-DS-13_3000K_1000lm		
Number:	LED PENDANT LIGHT	Diameter:	136 mm
Report:	AL.DIE-CASTING, PC.OPAQUE ACRYLIC COVER. CRI80	Length:	0 mm
Test no.:	LT-2020-09-14-T08	Width:	0 mm
Lamp type:	LED19W, 500mA, 3000K, CRI80	Height:	132 mm
No. of lamps:	1	Power:	18.91 W
Lamp flux:	2528.00 lm	Operator:	ASY
Date:	2020-09-14 PM 3:23:19	LOR:	58.2 %
Comment:	OSRAM OT FIT30/220-240 700 CS, 23-42VDC, 500mA 21W		

Zonal flux APL5-DS-13_3000K_1000lm / C-Plane measurement

Gamma [°]	Imin [cd/klm]	Imax [cd/klm]	Imean [cd/klm]	Zonal flux [lm]	Sum. zonal flux [lm]	Rel. zonal flux [%]	Sum. rel. zonal flux [%]
90.0	1.4	1.4	1.4	0.38	1471.48	0.02	58.21