

PHOTOMETRIC RESULTS

Name:	CTL-10-DI-530-TWF 3000K		
Number:	LED DOWN LIGHT	Diameter:	35 mm
Report:	AL.Die-casting, PC.MEDIUM LENS.Ø35	Length:	0 mm
Test no.:	LT-2023-11-29-T04	Width:	0 mm
Lamp type:	LED10W, 700mA, 3000K, CRI90	Height:	91 mm
No. of lamps:	1	Power:	10.41 W
Lamp flux:	820.00 lm	Operator:	ASY
Date:	2023-11-29 AM 11:25:54	LOR:	65.2 %
Comment:	EAGL CRISE LS-6-500 SI E 6W Max, 8-13VDC, 700mA		

Intensity [cd/klm] CTL-10-DI-530-TWF 3000K / Distribution

G/C [cd/klm]	0.0	90.0	180.0	270.0
0.0	1084.1	1084.1	1084.1	1084.1
1.0	1082.6	1082.6	1082.6	1082.6
2.0	1077.8	1077.8	1077.8	1077.8
3.0	1069.6	1069.6	1069.6	1069.6
4.0	1058.7	1058.7	1058.7	1058.7
5.0	1044.6	1044.6	1044.6	1044.6
6.0	1027.9	1027.9	1027.9	1027.9
7.0	1007.8	1007.8	1007.8	1007.8
8.0	985.6	985.6	985.6	985.6
9.0	960.8	960.8	960.8	960.8
10.0	934.0	934.0	934.0	934.0
11.0	904.6	904.6	904.6	904.6
12.0	874.0	874.0	874.0	874.0
13.0	842.4	842.4	842.4	842.4
14.0	808.4	808.4	808.4	808.4
15.0	773.0	773.0	773.0	773.0
16.0	737.1	737.1	737.1	737.1
17.0	701.0	701.0	701.0	701.0
18.0	664.4	664.4	664.4	664.4
19.0	626.8	626.8	626.8	626.8
20.0	589.8	589.8	589.8	589.8
21.0	552.8	552.8	552.8	552.8
22.0	517.3	517.3	517.3	517.3
23.0	481.9	481.9	481.9	481.9
24.0	448.5	448.5	448.5	448.5
25.0	415.4	415.4	415.4	415.4
26.0	383.9	383.9	383.9	383.9
27.0	352.5	352.5	352.5	352.5
28.0	322.2	322.2	322.2	322.2
29.0	293.6	293.6	293.6	293.6
30.0	266.1	266.1	266.1	266.1
31.0	238.5	238.5	238.5	238.5
32.0	211.4	211.4	211.4	211.4
33.0	185.4	185.4	185.4	185.4
34.0	160.7	160.7	160.7	160.7
35.0	138.7	138.7	138.7	138.7
36.0	119.8	119.8	119.8	119.8
37.0	104.5	104.5	104.5	104.5
38.0	92.0	92.0	92.0	92.0
39.0	81.3	81.3	81.3	81.3
40.0	72.4	72.4	72.4	72.4
41.0	64.9	64.9	64.9	64.9

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Lamp type:	LED10W, 700mA, 3000K, CRI90	Height:	91 mm
No. of lamps:	1	Power:	10.41 W
Lamp flux:	820.00 lm	Operator:	ASY
Date:	2023-11-29 AM 11:25:54	LOR:	65.2 %
Comment:	EAGL CRISE LS-6-500 SI E 6W Max, 8-13VDC, 700mA		

Intensity [cd/klm] CTL-10-DI-530-TWF 3000K / Distribution

G/C [cd/klm]	0.0	90.0	180.0	270.0
42.0	58.4	58.4	58.4	58.4
43.0	52.5	52.5	52.5	52.5
44.0	47.1	47.1	47.1	47.1
45.0	41.7	41.7	41.7	41.7
46.0	36.3	36.3	36.3	36.3
47.0	31.3	31.3	31.3	31.3
48.0	26.8	26.8	26.8	26.8
49.0	23.4	23.4	23.4	23.4
50.0	21.1	21.1	21.1	21.1
51.0	19.4	19.4	19.4	19.4
52.0	18.0	18.0	18.0	18.0
53.0	16.9	16.9	16.9	16.9
54.0	16.0	16.0	16.0	16.0
55.0	15.3	15.3	15.3	15.3
56.0	14.5	14.5	14.5	14.5
57.0	13.8	13.8	13.8	13.8
58.0	13.2	13.2	13.2	13.2
59.0	12.5	12.5	12.5	12.5
60.0	12.1	12.1	12.1	12.1
61.0	11.3	11.3	11.3	11.3
62.0	10.7	10.7	10.7	10.7
63.0	10.2	10.2	10.2	10.2
64.0	9.6	9.6	9.6	9.6
65.0	9.0	9.0	9.0	9.0
66.0	8.6	8.6	8.6	8.6
67.0	8.0	8.0	8.0	8.0
68.0	7.5	7.5	7.5	7.5
69.0	7.1	7.1	7.1	7.1
70.0	6.6	6.6	6.6	6.6
71.0	6.1	6.1	6.1	6.1
72.0	5.8	5.8	5.8	5.8
73.0	5.5	5.5	5.5	5.5
74.0	5.0	5.0	5.0	5.0
75.0	4.7	4.7	4.7	4.7
76.0	4.3	4.3	4.3	4.3
77.0	3.8	3.8	3.8	3.8
78.0	3.5	3.5	3.5	3.5
79.0	3.2	3.2	3.2	3.2
80.0	2.9	2.9	2.9	2.9
81.0	2.6	2.6	2.6	2.6
82.0	2.3	2.3	2.3	2.3
83.0	2.0	2.0	2.0	2.0

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Test no.:	LT-2023-11-29-T04	Width:	0 mm
Lamp type:	LED10W, 700mA, 3000K, CRI90	Height:	91 mm
No. of lamps:	1	Power:	10.41 W
Lamp flux:	820.00 lm	Operator:	ASY
Date:	2023-11-29 AM 11:25:54	LOR:	65.2 %
Comment:	EAGL CRISE LS-6-500 SI E 6W Max, 8-13VDC, 700mA		

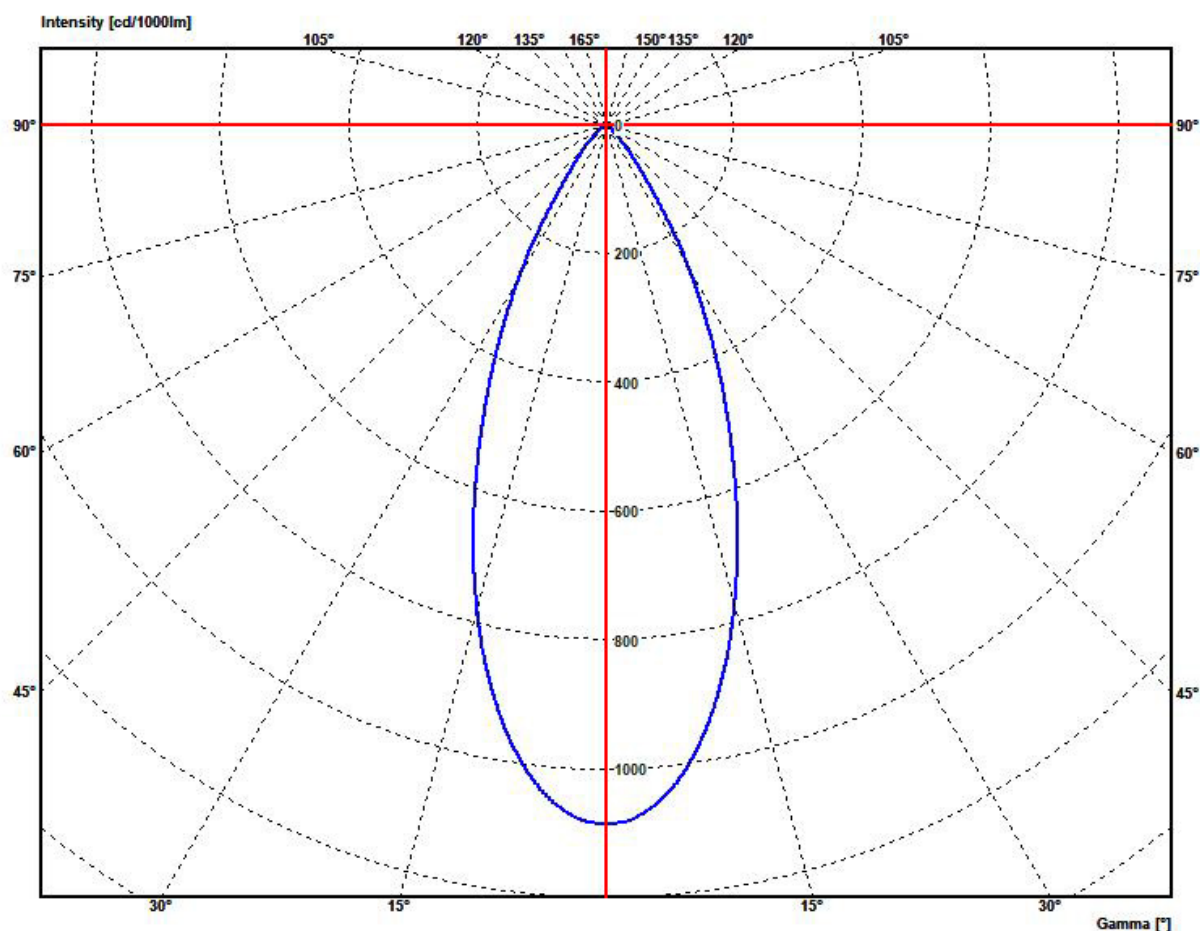
Intensity [cd/klm] CTL-10-DI-530-TWF 3000K / Distribution

G/C [cd/klm]	0.0	90.0	180.0	270.0
84.0	1.6	1.6	1.6	1.6
85.0	1.3	1.3	1.3	1.3
86.0	1.2	1.2	1.2	1.2
87.0	1.0	1.0	1.0	1.0
88.0	0.8	0.8	0.8	0.8
89.0	0.5	0.5	0.5	0.5
90.0	0.4	0.4	0.4	0.4

PHOTOMETRIC RESULTS

Name:	CTL-10-DI-530-TWF 3000K		
Type:	LED DOWN LIGHT	Diameter:	35 mm
Luminaire:	AL.Die-casting, PC.MEDIUM LENS.Ø35	Length:	0 mm
Test no.:	LT-2023-11-29-T04	Width:	0 mm
Lamp type:	LED10W, 700mA, 3000K, CRI90	Height:	91 mm
No. of lamps:	1	Power:	10.41 W
Lamp flux:	820.00 lm	Operator:	ASY
Date:	2023-11-29 AM 11:25:54	LOR:	65.2 %
Comment:	EAGL CRISE LS-8-700 SI E1 9.1W Max, 8-13VDC, 700mA		

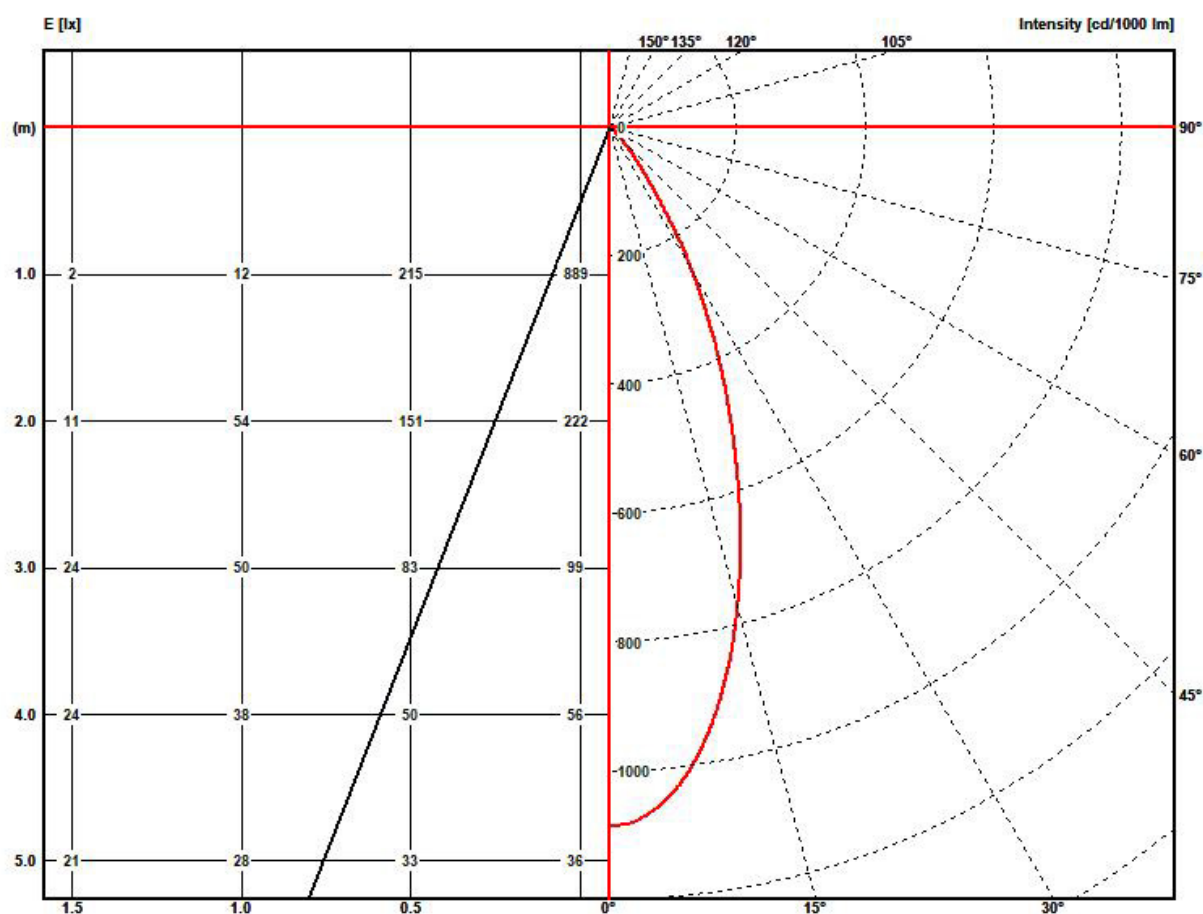
Polar diagram CTL-10-DI-530-TWF 3000K / C-Plane measurement



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Type:	LED DOWN LIGHT	Diameter:	35 mm
Luminaire:	AL.Die-casting, PC.MEDIUM LENS.Ø35	Length:	0 mm
Test no.:	LT-2023-11-29-T04	Width:	0 mm
Lamp type:	LED10W, 700mA, 3000K, CRI90	Height:	91 mm
No. of lamps:	1	Power:	10.41 W
Lamp flux:	820.00 lm	Operator:	ASY
Date:	2023-11-29 AM 11:25:54	LOR:	65.2 %
Comment:	EAGL CRISE LS-8-700 SI E1 9.1W Max, 8-13VDC, 700mA		

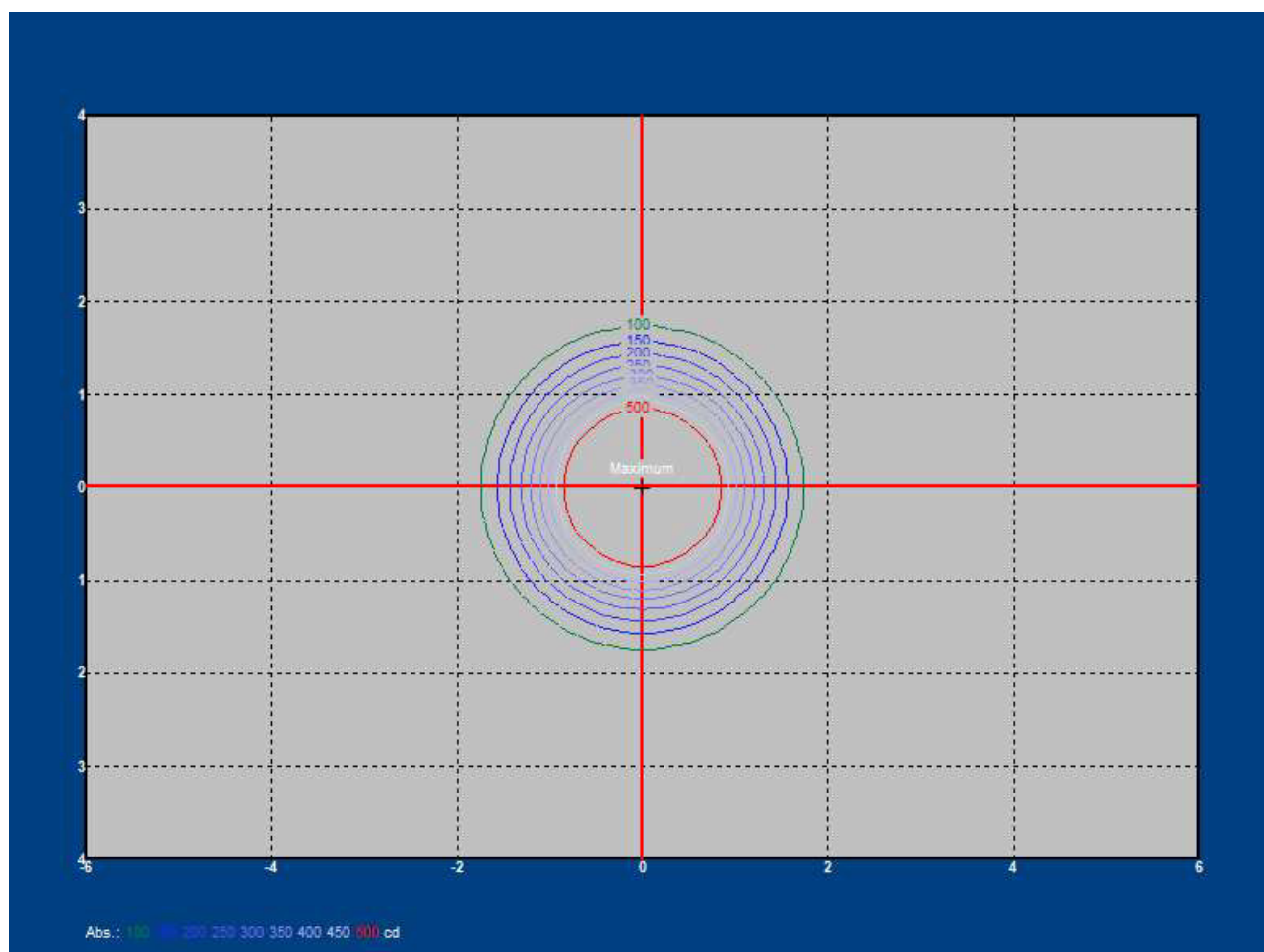
Illuminance and Intensity diagram CTL-10-DI-530-TWF 3000K / C-Plane measurement



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Name:	CTL-10-DI-530-TWF 3000K		
Number:	LED DOWN LIGHT	Diameter:	35 mm
Report:	AL.Die-casting, PC.MEDIUM LENS.Ø35	Length:	0 mm
Test no.:	LT-2023-11-29-T04	Width:	0 mm
Lamp type:	LED10W, 700mA, 3000K, CRI90	Height:	91 mm
No. of lamps:	1	Power:	10.41 W
Lamp flux:	820.00 lm	Operator:	ASY
Date:	2023-11-29 AM 11:25:54	LOR:	65.2 %
Comment:	EAGL CRISE LS-6-500 SI E 6W Max, 8-13VDC, 700mA		

Isoline diagram CTL-10-DI-530-TWF 3000K / C-Plane measurement



Luminaire mounting height above ground: 2.4 m

Luminaire rotation angle: 0 °

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Test no.:	LT-2023-11-29-T04	Width:	0 mm
Lamp type:	LED10W, 700mA, 3000K, CRI90	Height:	91 mm
No. of lamps:	1	Power:	10.41 W
Lamp flux:	820.00 lm	Operator:	ASY
Date:	2023-11-29 AM 11:25:54	LOR:	65.2 %
Comment:	EAGL CRISE LS-6-500 SI E 6W Max, 8-13VDC, 700mA		

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	48	49	46	48	45	54	47	45	47	45	45	42
0.8	53	54	51	53	50	58	52	49	51	49	49	47
1	56	58	54	57	54	61	55	53	54	52	52	50
1.25	61	63	60	61	58	64	59	57	58	57	56	55
1.5	63	66	62	63	61	65	61	59	60	58	58	56
2	65	69	66	66	64	67	63	61	62	61	60	58
2.5	67	71	68	68	65	67	64	63	63	62	61	60
3	68	74	71	69	67	68	66	64	64	63	63	61
4	70	75	73	70	68	69	66	65	65	64	63	61
5	70	77	75	71	70	69	67	66	65	65	64	62

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	49	51	47	49	46	56	48	46	48	45	45	42
0.8	54	57	53	55	51	60	53	50	52	50	49	47
1	58	61	57	58	55	62	56	54	55	53	52	50
1.25	62	66	62	63	60	65	60	58	59	57	57	55
1.5	64	68	65	65	62	66	62	60	61	59	58	56
2	67	72	69	67	65	67	64	63	63	61	61	58
2.5	68	74	71	69	67	68	66	64	64	63	62	60
3	70	76	74	70	69	69	67	66	65	64	63	61
4	71	78	76	71	70	69	67	66	65	65	63	61
5	72	79	77	72	71	69	68	67	66	65	64	62

PHOTOMETRIC RESULTS

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Type:	LED DOWN LIGHT	Diameter:	35 mm
Luminaire:	AL.Die-casting, PC.MEDIUM LENS.Ø35	Length:	0 mm
Test no.:	LT-2023-11-29-T04	Width:	0 mm
Lamp type:	LED10W, 700mA, 3000K, CRI90	Height:	91 mm
No. of lamps:	1	Power:	10.41 W
Lamp flux:	820.00 lm	Operator:	ASY
Date:	2023-11-29 AM 11:25:54	LOR:	65.2 %
Comment:	EAGL CRISE LS-8-700 SI E1 9.1W Max, 8-13VDC, 700mA		

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	16.8	17.7	17.1	18.0	18.3	16.8	17.7	17.1	18.0	18.3
2H	3H	16.8	17.6	17.1	17.9	18.3	16.8	17.6	17.1	17.9	18.3
2H	4H	16.7	17.5	17.1	17.9	18.2	16.7	17.5	17.1	17.9	18.2
2H	6H	16.7	17.4	17.1	17.8	18.2	16.7	17.4	17.1	17.8	18.2
2H	8H	16.6	17.3	17.0	17.7	18.1	16.6	17.3	17.0	17.7	18.1
2H	12H	16.5	17.2	17.0	17.6	18.0	16.5	17.2	17.0	17.6	18.0
4H	2H	16.6	17.3	17.0	17.7	18.1	16.6	17.3	17.0	17.7	18.1
4H	3H	16.6	17.2	17.0	17.6	18.0	16.6	17.2	17.0	17.6	18.0
4H	4H	16.6	17.1	17.0	17.6	18.0	16.6	17.1	17.0	17.6	18.0
4H	6H	16.5	17.0	17.0	17.5	17.9	16.5	17.0	17.0	17.5	17.9
4H	8H	16.5	16.9	17.0	17.4	17.9	16.5	16.9	17.0	17.4	17.9
4H	12H	16.4	16.9	16.9	17.3	17.8	16.4	16.9	16.9	17.3	17.8
8H	4H	16.4	16.9	16.9	17.3	17.8	16.4	16.9	16.9	17.3	17.8
8H	6H	16.3	16.7	16.9	17.2	17.7	16.3	16.7	16.9	17.2	17.7
8H	8H	16.4	16.7	16.9	17.2	17.7	16.4	16.7	16.9	17.2	17.7
8H	12H	16.3	16.6	16.9	17.1	17.6	16.3	16.6	16.9	17.1	17.6
12H	4H	16.4	16.8	16.9	17.3	17.8	16.4	16.8	16.9	17.3	17.8
12H	6H	16.3	16.7	16.9	17.2	17.7	16.3	16.7	16.9	17.2	17.7
12H	8H	16.3	16.6	16.8	17.1	17.6	16.3	16.6	16.8	17.1	17.6

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No. of lamps:	1	Power:	10.41 W
Lamp flux:	820.00 lm	Operator:	ASY
Date:	2023-11-29 AM 11:25:54	LOR:	65.2 %
Comment:	EAGL CRISE LS-8-700 SI E1 9.1W Max, 8-13VDC, 700mA		

Zonal flux CTL-10-DI-530-TWF 3000K / 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	1084.1	1084.1	1084.1	0.21	0.21	0.03	0.03
1.0	1082.6	1082.6	1082.6	1.70	1.91	0.21	0.23
2.0	1077.8	1077.8	1077.8	3.38	5.29	0.41	0.65
3.0	1069.6	1069.6	1069.6	5.03	10.33	0.61	1.26
4.0	1058.7	1058.7	1058.7	6.64	16.97	0.81	2.07
5.0	1044.6	1044.6	1044.6	8.19	25.16	1.00	3.07
6.0	1027.9	1027.9	1027.9	9.66	34.82	1.18	4.25
7.0	1007.8	1007.8	1007.8	11.04	45.86	1.35	5.59
8.0	985.6	985.6	985.6	12.33	58.20	1.50	7.10
9.0	960.8	960.8	960.8	13.52	71.71	1.65	8.75
10.0	934.0	934.0	934.0	14.58	86.30	1.78	10.52
11.0	904.6	904.6	904.6	15.52	101.82	1.89	12.42
12.0	874.0	874.0	874.0	16.34	118.16	1.99	14.41
13.0	842.4	842.4	842.4	17.04	135.20	2.08	16.49
14.0	808.4	808.4	808.4	17.59	152.79	2.14	18.63
15.0	773.0	773.0	773.0	17.99	170.78	2.19	20.83
16.0	737.1	737.1	737.1	18.27	189.04	2.23	23.05
17.0	701.0	701.0	701.0	18.43	207.47	2.25	25.30
18.0	664.4	664.4	664.4	18.46	225.94	2.25	27.55
19.0	626.8	626.8	626.8	18.35	244.29	2.24	29.79
20.0	589.8	589.8	589.8	18.14	262.43	2.21	32.00
21.0	552.8	552.8	552.8	17.81	280.24	2.17	34.18
22.0	517.3	517.3	517.3	17.43	297.67	2.13	36.30
23.0	481.9	481.9	481.9	16.93	314.60	2.06	38.37
24.0	448.5	448.5	448.5	16.40	331.00	2.00	40.37
25.0	415.4	415.4	415.4	15.79	346.79	1.93	42.29
26.0	383.9	383.9	383.9	15.13	361.92	1.85	44.14
27.0	352.5	352.5	352.5	14.39	376.31	1.75	45.89
28.0	322.2	322.2	322.2	13.60	389.91	1.66	47.55
29.0	293.6	293.6	293.6	12.80	402.71	1.56	49.11

Zonal flux CTL-10-DI-530-TWF 3000K / 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	266.1	266.1	266.1	11.97	414.68	1.46	50.57
31.0	238.5	238.5	238.5	11.05	425.72	1.35	51.92
32.0	211.4	211.4	211.4	10.07	435.80	1.23	53.15
33.0	185.4	185.4	185.4	9.08	444.87	1.11	54.25
34.0	160.7	160.7	160.7	8.08	452.96	0.99	55.24
35.0	138.7	138.7	138.7	7.15	460.11	0.87	56.11
36.0	119.8	119.8	119.8	6.33	466.44	0.77	56.88
37.0	104.5	104.5	104.5	5.66	472.10	0.69	57.57
38.0	92.0	92.0	92.0	5.09	477.19	0.62	58.19
39.0	81.3	81.3	81.3	4.60	481.80	0.56	58.76
40.0	72.4	72.4	72.4	4.19	485.98	0.51	59.27
41.0	64.9	64.9	64.9	3.83	489.81	0.47	59.73
42.0	58.4	58.4	58.4	3.51	493.33	0.43	60.16
43.0	52.5	52.5	52.5	3.22	496.54	0.39	60.55
44.0	47.1	47.1	47.1	2.94	499.49	0.36	60.91
45.0	41.7	41.7	41.7	2.65	502.14	0.32	61.24
46.0	36.3	36.3	36.3	2.35	504.49	0.29	61.52
47.0	31.3	31.3	31.3	2.06	506.54	0.25	61.77
48.0	26.8	26.8	26.8	1.79	508.34	0.22	61.99
49.0	23.4	23.4	23.4	1.59	509.92	0.19	62.19
50.0	21.1	21.1	21.1	1.45	511.37	0.18	62.36
51.0	19.4	19.4	19.4	1.35	512.73	0.17	62.53
52.0	18.0	18.0	18.0	1.27	514.00	0.16	62.68
53.0	16.9	16.9	16.9	1.21	515.22	0.15	62.83
54.0	16.0	16.0	16.0	1.16	516.38	0.14	62.97
55.0	15.3	15.3	15.3	1.13	517.51	0.14	63.11
56.0	14.5	14.5	14.5	1.08	518.59	0.13	63.24
57.0	13.8	13.8	13.8	1.04	519.63	0.13	63.37
58.0	13.2	13.2	13.2	1.00	520.64	0.12	63.49
59.0	12.5	12.5	12.5	0.96	521.60	0.12	63.61
60.0	12.1	12.1	12.1	0.94	522.54	0.11	63.72
61.0	11.3	11.3	11.3	0.89	523.43	0.11	63.83
62.0	10.7	10.7	10.7	0.85	524.28	0.10	63.94
63.0	10.2	10.2	10.2	0.82	525.10	0.10	64.04
64.0	9.6	9.6	9.6	0.78	525.87	0.09	64.13
65.0	9.0	9.0	9.0	0.73	526.61	0.09	64.22
66.0	8.6	8.6	8.6	0.70	527.31	0.09	64.31
67.0	8.0	8.0	8.0	0.66	527.98	0.08	64.39
68.0	7.5	7.5	7.5	0.63	528.60	0.08	64.46
69.0	7.1	7.1	7.1	0.59	529.20	0.07	64.54
70.0	6.6	6.6	6.6	0.56	529.76	0.07	64.60
71.0	6.1	6.1	6.1	0.52	530.27	0.06	64.67
72.0	5.8	5.8	5.8	0.49	530.77	0.06	64.73

Zonal flux CTL-10-DI-530-TWF 3000K / 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 [%]
73.0	5.5	5.5	5.5	0.47	531.23	0.06	64.78
74.0	5.0	5.0	5.0	0.43	531.66	0.05	64.84
75.0	4.7	4.7	4.7	0.41	532.07	0.05	64.89
76.0	4.3	4.3	4.3	0.38	532.45	0.05	64.93
77.0	3.8	3.8	3.8	0.33	532.78	0.04	64.97
78.0	3.5	3.5	3.5	0.31	533.09	0.04	65.01
79.0	3.2	3.2	3.2	0.29	533.37	0.03	65.05
80.0	2.9	2.9	2.9	0.26	533.63	0.03	65.08
81.0	2.6	2.6	2.6	0.23	533.86	0.03	65.10
82.0	2.3	2.3	2.3	0.20	534.06	0.02	65.13
83.0	2.0	2.0	2.0	0.18	534.24	0.02	65.15
84.0	1.6	1.6	1.6	0.14	534.38	0.02	65.17
85.0	1.3	1.3	1.3	0.12	534.50	0.01	65.18
86.0	1.2	1.2	1.2	0.11	534.60	0.01	65.20
87.0	1.0	1.0	1.0	0.09	534.70	0.01	65.21
88.0	0.8	0.8	0.8	0.07	534.77	0.01	65.22
89.0	0.5	0.5	0.5	0.05	534.82	0.01	65.22
90.0	0.4	0.4	0.4	0.03	534.85	0.00	65.23