

## PHOTOMETRIC RESULTS

<b>Name:</b>	<b>TTP 50 LINE L1180 TUP 830 END LO</b>		
<b>Number:</b>	90485L120-50	<b>Diameter:</b>	0 mm
<b>Report:</b>	09-01-2020	<b>Length:</b>	1180 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	50 mm
<b>Lamp type:</b>	LED 830 - 01	<b>Height:</b>	50 mm
<b>Number:</b>	1	<b>Power:</b>	22,99 W
<b>Lamp flux:</b>	3440,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	09-01-2020 18:00:30	<b>Output ratio:</b>	95,3 %

## Protocol

**LiTG-class:** A42  
**UTE-class:** 0,93 E + 0,02 T  
**IES-class:** 48 - 80 - 96 - 98 - 95  
**TM5-class:** BZ4

<b>Divergences in the plane through maximum intensity:</b>	Horizontal	Vertical
<b>One half peak divergence</b>	113,0°	113,5°
<b>Half peak side angle (left)</b>	-58,3°	-55,4°
<b>Half peak side angle (right)</b>	54,7°	58,2°
<b>One tenth peak divergence</b>	155,7°	159,1°
<b>Tenth peak side angle (left)</b>	-79,9°	-78,0°
<b>Tenth peak side angle (right)</b>	75,8°	81,2°

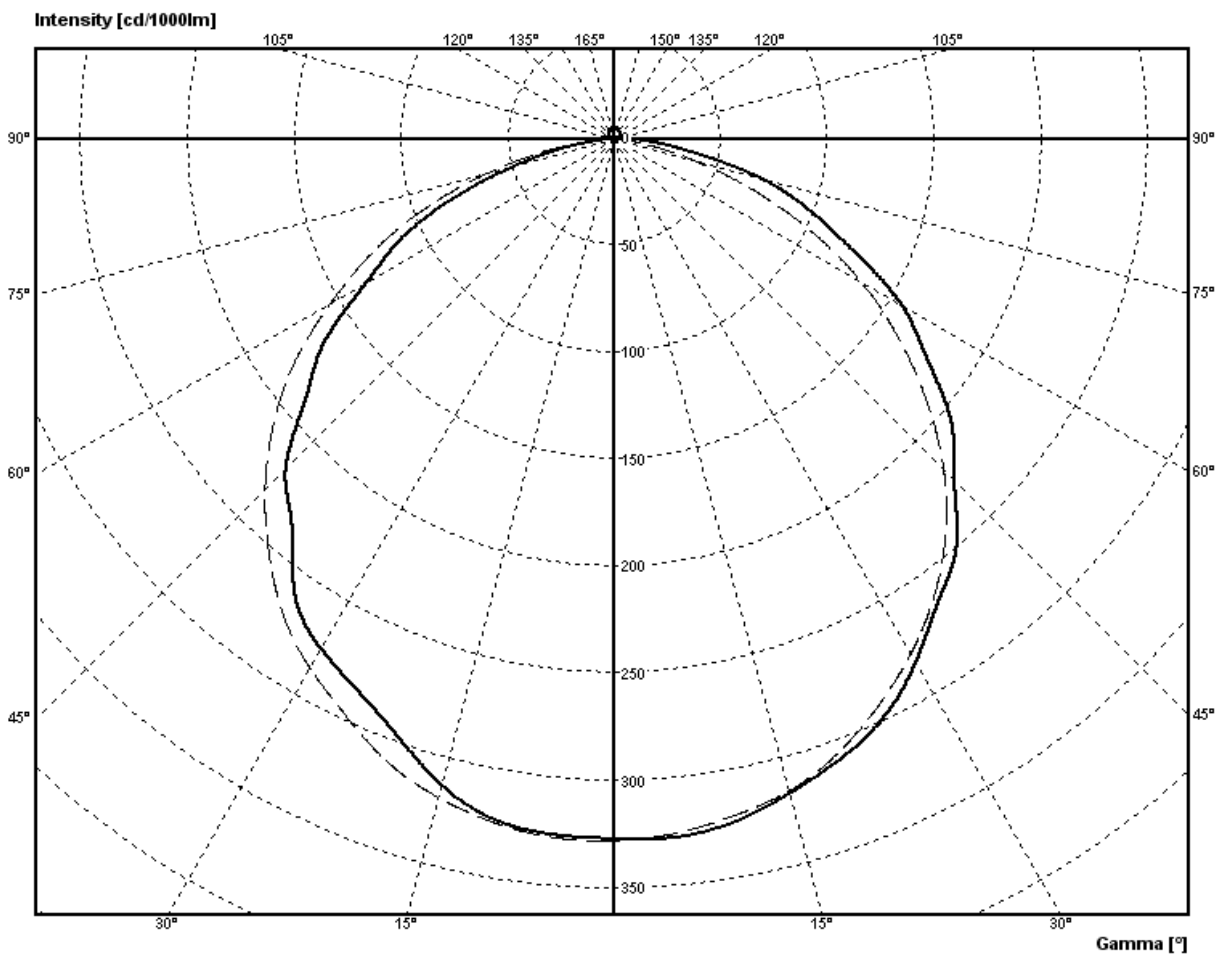
<b>C-planes:</b>	0,0°	15,0°	30,0°	45,0°	60,0°	75,0°	90,0°	105,0°	120,0°	135,0°
	150,0°	165,0°	180,0°	195,0°	210,0°	225,0°	240,0°	255,0°	270,0°	285,0°
	300,0°	315,0°	330,0°	345,0°						

<b>Gamma:</b>	0,0°	5,0°	10,0°	15,0°	20,0°	25,0°	30,0°	35,0°	40,0°	45,0°
	50,0°	55,0°	60,0°	65,0°	70,0°	75,0°	80,0°	85,0°	90,0°	95,0°
	100,0°	105,0°	110,0°	115,0°	120,0°	125,0°	130,0°	135,0°	140,0°	145,0°
	150,0°	155,0°	160,0°	165,0°	170,0°	175,0°	180,0°			

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Polar diagram TTP 50 LINE L1180 TUP 830 END LO / Total in 15° C / 5° G



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## UGR Unified Glare Ratios

<b>Ceiling reflectance</b>		<b>0,7</b>	<b>0,7</b>	<b>0,5</b>	<b>0,5</b>	<b>0,3</b>	<b>0,7</b>	<b>0,7</b>	<b>0,5</b>	<b>0,5</b>	<b>0,3</b>
<b>Wall reflectance</b>		<b>0,5</b>	<b>0,3</b>	<b>0,5</b>	<b>0,3</b>	<b>0,3</b>	<b>0,5</b>	<b>0,3</b>	<b>0,5</b>	<b>0,3</b>	<b>0,3</b>
<b>Floor cavity reflectance</b>		<b>0,2</b>	<b>0,2</b>	<b>0,2</b>	<b>0,2</b>	<b>0,2</b>	<b>0,2</b>	<b>0,2</b>	<b>0,2</b>	<b>0,2</b>	<b>0,2</b>
<b>Room dimension</b>		Viewed crosswise					Viewed endwise				
<b>2H</b>	<b>2H</b>	19,3	20,9	19,7	21,3	21,7	20,9	22,4	21,2	22,8	23,2
<b>2H</b>	<b>3H</b>	20,4	21,8	20,8	22,2	22,6	22,1	23,6	22,6	24,0	24,4
<b>2H</b>	<b>4H</b>	20,8	22,1	21,2	22,5	22,9	22,6	23,9	23,0	24,3	24,7
<b>2H</b>	<b>6H</b>	20,9	22,2	21,4	22,6	23,0	22,8	24,0	23,2	24,5	24,9
<b>2H</b>	<b>8H</b>	20,9	22,1	21,3	22,5	23,0	22,8	24,0	23,3	24,4	24,9
<b>2H</b>	<b>12H</b>	20,9	22,0	21,3	22,5	22,9	22,8	24,0	23,2	24,4	24,8
<b>4H</b>	<b>2H</b>	20,0	21,4	20,4	21,8	22,2	21,2	22,6	21,7	23,0	23,4
<b>4H</b>	<b>3H</b>	21,2	22,4	21,7	22,8	23,2	22,6	23,8	23,1	24,2	24,7
<b>4H</b>	<b>4H</b>	21,7	22,7	22,1	23,1	23,6	23,2	24,2	23,6	24,6	25,1
<b>4H</b>	<b>6H</b>	21,8	22,7	22,3	23,2	23,7	23,4	24,3	23,9	24,8	25,3
<b>4H</b>	<b>8H</b>	21,9	22,7	22,4	23,2	23,7	23,5	24,3	24,0	24,8	25,3
<b>4H</b>	<b>12H</b>	21,9	22,7	22,4	23,1	23,7	23,5	24,3	24,0	24,8	25,3
<b>8H</b>	<b>4H</b>	21,8	22,7	22,3	23,2	23,7	23,2	24,1	23,8	24,6	25,1
<b>8H</b>	<b>6H</b>	22,1	22,8	22,6	23,3	23,8	23,5	24,3	24,1	24,8	25,3
<b>8H</b>	<b>8H</b>	22,2	22,8	22,7	23,3	23,9	23,7	24,3	24,2	24,8	25,4
<b>8H</b>	<b>12H</b>	22,2	22,7	22,7	23,2	23,8	23,7	24,2	24,3	24,8	25,3
<b>12H</b>	<b>4H</b>	21,8	22,6	22,4	23,1	23,7	23,2	24,0	23,8	24,5	25,1
<b>12H</b>	<b>6H</b>	22,1	22,7	22,7	23,3	23,8	23,6	24,2	24,1	24,8	25,3
<b>12H</b>	<b>8H</b>	22,2	22,7	22,7	23,3	23,8	23,7	24,2	24,2	24,8	25,3

UGR values are corrected for lamp flux of 3440 lm by 4,3

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Luminance [cd/m<sup>2</sup>] TTP 50 LINE L1180 TUP 830 END LO / Total in 15° C / 5° G

G/C [cd/	0,00	15,00	30,00	45,00	60,00	75,00	90,00	105,00	120,00
45,00	9332,94	9441,68	10154,1	10878,3	12717,9	14946,2	17312,3	15368,1	12544,9
50,00	8576,06	8634,14	9073,40	10083,2	11540,0	14196,0	16547,3	14384,6	11684,9
55,00	7519,09	7571,02	8224,31	8883,36	10507,3	13197,0	15625,1	13254,3	10982,8
60,00	6668,02	6723,17	7199,36	7928,35	9402,42	11833,0	14490,4	11693,8	9865,24
65,00	5430,27	5489,97	5987,52	6766,48	7949,55	10204,1	12765,0	10085,6	8311,48
70,00	4429,05	4402,52	4747,79	5258,55	6455,60	8419,94	10304,1	8683,65	6816,56
75,00	3368,34	3303,59	3759,94	3861,34	4958,43	6062,70	7090,41	6512,58	5487,53
80,00	1887,07	1821,27	2008,37	2560,37	3195,80	3933,43	3651,36	4108,81	3814,88
85,00	954,70	897,77	1004,51	1130,08	1530,41	1978,94	997,14	2100,72	1889,39

G/C [cd/	135,00	150,00	165,00	180,00	195,00	210,00	225,00	240,00	255,00
45,00	11375,8	10524,0	9777,98	9025,45	9130,60	9299,91	10361,6	11139,0	13680,4
50,00	10472,5	9464,42	9073,45	7850,26	8025,86	8415,78	9071,03	10324,7	12566,3
55,00	9242,69	8603,90	7896,10	6995,87	7109,06	7230,16	8184,67	9254,83	11074,0
60,00	8289,67	7495,85	7098,62	5756,01	6059,59	6309,86	6834,08	7770,40	9404,60
65,00	7046,62	6552,75	5831,41	4864,25	5022,74	4933,72	5807,53	6346,71	7936,56
70,00	5849,14	5177,58	4980,82	3612,93	3721,62	3888,19	4406,73	5039,53	6291,41
75,00	4502,88	4002,18	3694,55	2293,54	2433,71	2611,95	3026,13	3416,48	4220,33
80,00	2978,39	2659,12	2255,89	1136,30	1272,82	1346,39	1632,89	1807,05	2129,57
85,00	1516,31	1331,27	1108,36	227,83	243,84	266,25	357,62	491,24	852,47

G/C [cd/	270,00	285,00	300,00	315,00	330,00	345,00
45,00	18428,2	13450,3	11139,0	9988,52	9000,48	8752,26
50,00	18148,1	12525,9	9967,92	8827,71	8140,29	7713,27
55,00	17691,8	11217,4	8895,31	7885,23	7031,33	6920,85
60,00	16766,8	9698,49	7441,55	6596,64	5865,11	5553,17
65,00	15873,5	7818,10	6062,34	5333,45	4646,32	4474,64
70,00	14364,2	5895,84	4678,57	3963,79	3668,29	3516,42
75,00	11947,9	3898,98	2962,97	2771,94	2011,62	1984,11
80,00	8828,66	2029,35	1455,68	1332,44	1032,23	1014,12
85,00	5166,99	639,35	472,35	357,62	290,46	254,92

## HEADQUARTERS

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