

## PHOTOMETRIC RESULTS

<b>Name:</b>	<b>TTP 70 LINE L1180 TUP 830 END HO</b>		
<b>Number:</b>	90487L120-50	<b>Diameter:</b>	0 mm
<b>Report:</b>	10-01-2020	<b>Length:</b>	1180 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	70 mm
<b>Lamp type:</b>	LED 830 - 01	<b>Height:</b>	70 mm
<b>Number:</b>	1	<b>Power:</b>	54 W
<b>Lamp flux:</b>	7400,00 lm	<b>Operator:</b>	INDELAGUE GROUP
<b>Date:</b>	10-01-2020 11:06:59	<b>Output ratio:</b>	89,4 %

## Protocol

**LiTG-class:** A42  
**UTE-class:** 0,87 E + 0,03 T  
**IES-class:** 46 - 78 - 95 - 97 - 89  
**TM5-class:** BZ4/0.75/BZ5/1.00/BZ4/2.00/BZ5

<b>Divergences in the plane through maximum intensity:</b>	Horizontal	Vertical
<b>One half peak divergence</b>	108,0°	117,0°
<b>Half peak side angle (left)</b>	-54,0°	-58,5°
<b>Half peak side angle (right)</b>	54,0°	58,5°
<b>One tenth peak divergence</b>	154,1°	163,5°
<b>Tenth peak side angle (left)</b>	-77,1°	-81,8°
<b>Tenth peak side angle (right)</b>	77,1°	81,8°

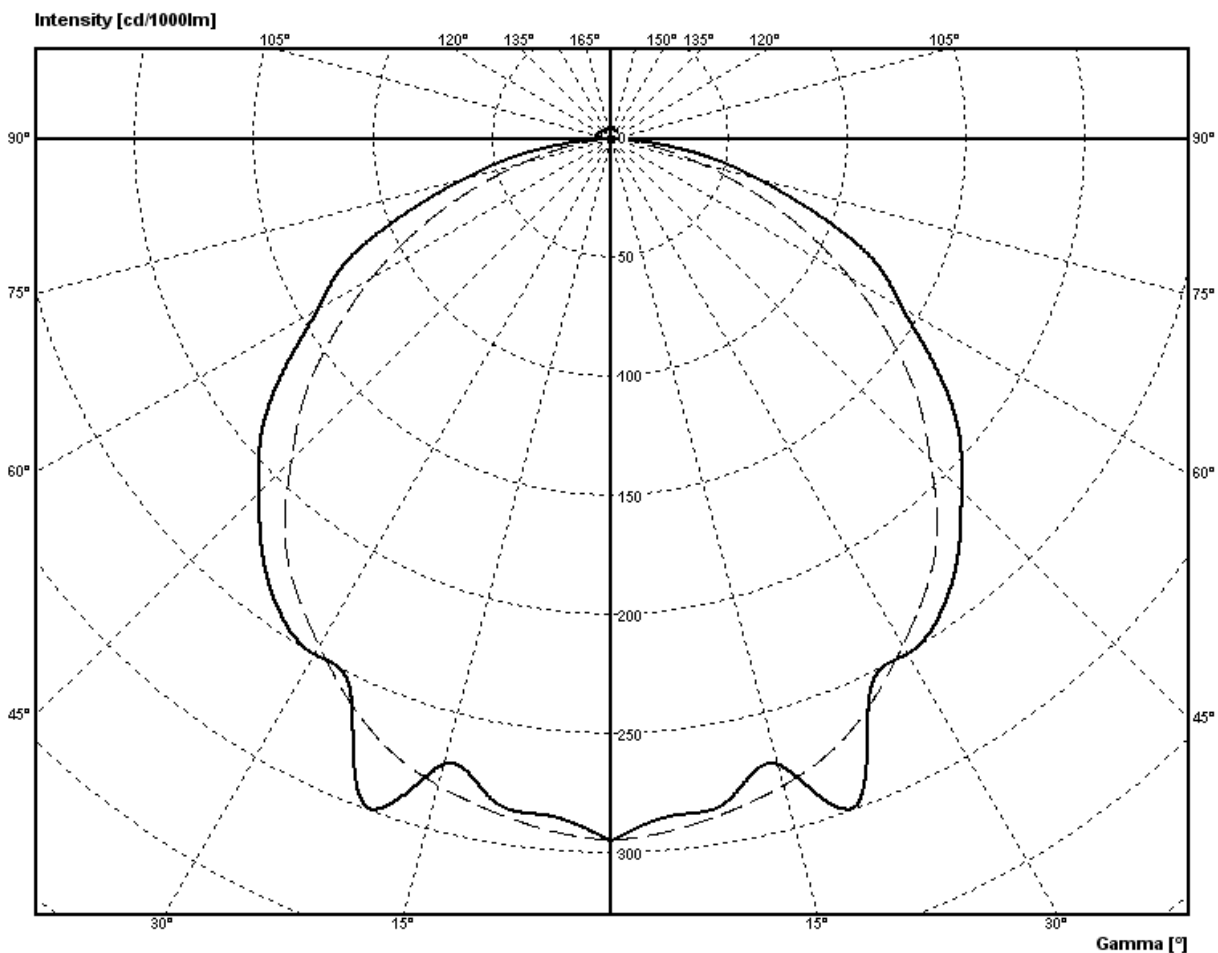
<b>C-planes:</b>	0,0°	15,0°	30,0°	45,0°	60,0°	75,0°	90,0°	105,0°	120,0°	135,0°
	150,0°	165,0°	180,0°	195,0°	210,0°	225,0°	240,0°	255,0°	270,0°	285,0°
	300,0°	315,0°	330,0°	345,0°						

<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 70 LINE L1180 TUP 830 END HO / 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>	20,8	22,4	21,2	22,7	23,1	21,6	23,2	22,0	23,6	24,0
<b>2H</b>	<b>3H</b>	22,0	23,5	22,5	23,9	24,3	22,8	24,2	23,2	24,6	25,0
<b>2H</b>	<b>4H</b>	22,4	23,8	22,9	24,2	24,6	23,2	24,5	23,6	24,9	25,4
<b>2H</b>	<b>6H</b>	22,7	23,9	23,1	24,4	24,8	23,4	24,7	23,9	25,1	25,6
<b>2H</b>	<b>8H</b>	22,7	23,9	23,2	24,4	24,8	23,4	24,6	23,9	25,1	25,5
<b>2H</b>	<b>12H</b>	22,7	23,9	23,2	24,3	24,8	23,4	24,6	23,9	25,0	25,5
<b>4H</b>	<b>2H</b>	21,5	22,8	21,9	23,2	23,7	22,1	23,5	22,6	23,9	24,3
<b>4H</b>	<b>3H</b>	22,9	24,0	23,3	24,5	25,0	23,4	24,6	23,9	25,0	25,5
<b>4H</b>	<b>4H</b>	23,4	24,4	23,9	24,9	25,4	24,0	25,0	24,5	25,5	26,0
<b>4H</b>	<b>6H</b>	23,7	24,6	24,2	25,1	25,6	24,2	25,2	24,8	25,7	26,2
<b>4H</b>	<b>8H</b>	23,8	24,6	24,3	25,1	25,6	24,3	25,2	24,8	25,7	26,2
<b>4H</b>	<b>12H</b>	23,8	24,6	24,3	25,1	25,6	24,4	25,2	24,9	25,7	26,2
<b>8H</b>	<b>4H</b>	23,6	24,5	24,1	25,0	25,5	24,1	25,0	24,7	25,5	26,0
<b>8H</b>	<b>6H</b>	24,0	24,7	24,5	25,2	25,8	24,5	25,2	25,0	25,7	26,3
<b>8H</b>	<b>8H</b>	24,1	24,8	24,7	25,3	25,9	24,7	25,3	25,2	25,9	26,4
<b>8H</b>	<b>12H</b>	24,2	24,7	24,8	25,3	25,9	24,8	25,3	25,3	25,8	26,4
<b>12H</b>	<b>4H</b>	23,6	24,4	24,1	24,9	25,5	24,1	24,9	24,7	25,4	26,0
<b>12H</b>	<b>6H</b>	24,1	24,7	24,6	25,2	25,8	24,6	25,2	25,1	25,8	26,3
<b>12H</b>	<b>8H</b>	24,2	24,7	24,8	25,3	25,9	24,7	25,2	25,3	25,8	26,4

UGR values are corrected for lamp flux of 7400 lm by 7,0

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Luminance [cd/m<sup>2</sup>] TTP 70 LINE L1180 TUP 830 END HO / 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	13312,0	13579,3	14039,0	14816,8	16175,0	17865,4	22834,6	17865,4	16175,0
50,00	12242,5	12404,0	12804,7	13668,6	14631,1	16673,5	21998,5	16673,5	14631,1
55,00	10804,8	11027,6	11449,7	12369,9	13602,5	17382,9	20538,1	17382,9	13602,5
60,00	9344,44	9619,98	9944,52	10862,6	12222,3	15277,1	18891,9	15277,1	12222,3
65,00	8357,66	8486,59	8789,63	9157,21	10445,5	11473,0	16774,1	11473,0	10445,5
70,00	6510,61	6622,28	7212,95	7885,67	8454,40	9800,27	13992,3	9800,27	8454,40
75,00	4650,83	4862,69	5083,69	5850,56	6696,41	7471,17	10585,0	7471,17	6696,41
80,00	3018,29	3114,05	3413,38	3757,99	4598,08	4963,33	7086,29	4963,33	4598,08
85,00	1131,38	1533,51	1745,54	2034,16	2469,21	3360,21	3676,15	3360,21	2469,21

G/C [cd/	135,00	150,00	165,00	180,00	195,00	210,00	225,00	240,00	255,00
45,00	14816,8	14039,0	13579,3	13312,0	13579,3	14039,0	14816,8	16175,0	17865,4
50,00	13668,6	12804,7	12404,0	12242,5	12404,0	12804,7	13668,6	14631,1	16673,5
55,00	12369,9	11449,7	11027,6	10804,8	11027,6	11449,7	12369,9	13602,5	17382,9
60,00	10862,6	9944,52	9619,98	9344,44	9619,98	9944,52	10862,6	12222,3	15277,1
65,00	9157,21	8789,63	8486,59	8357,66	8486,59	8789,63	9157,21	10445,5	11473,0
70,00	7885,67	7212,95	6622,28	6510,61	6622,28	7212,95	7885,67	8454,40	9800,27
75,00	5850,56	5083,69	4862,69	4650,83	4862,69	5083,69	5850,56	6696,41	7471,17
80,00	3757,99	3413,38	3114,05	3018,29	3114,05	3413,38	3757,99	4598,08	4963,33
85,00	2034,16	1745,54	1533,51	1131,38	1533,51	1745,54	2034,16	2469,21	3360,21

G/C [cd/	270,00	285,00	300,00	315,00	330,00	345,00
45,00	22834,6	17865,4	16175,0	14816,8	14039,0	13579,3
50,00	21998,5	16673,5	14631,1	13668,6	12804,7	12404,0
55,00	20538,1	17382,9	13602,5	12369,9	11449,7	11027,6
60,00	18891,9	15277,1	12222,3	10862,6	9944,52	9619,98
65,00	16774,1	11473,0	10445,5	9157,21	8789,63	8486,59
70,00	13992,3	9800,27	8454,40	7885,67	7212,95	6622,28
75,00	10585,0	7471,17	6696,41	5850,56	5083,69	4862,69
80,00	7086,29	4963,33	4598,08	3757,99	3413,38	3114,05
85,00	3676,15	3360,21	2469,21	2034,16	1745,54	1533,51

## HEADQUARTERS

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