

## PHOTOMETRIC RESULTS

<b>Name:</b>	<b>TTP 50 LINE L1460 TUP 840 END LO</b>		
<b>Number:</b>	90485L150-50	<b>Diameter:</b>	0 mm
<b>Report:</b>	07-01-2020	<b>Length:</b>	1460 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	50 mm
<b>Lamp type:</b>	LED 840 - 01	<b>Height:</b>	50 mm
<b>Number:</b>	1	<b>Power:</b>	28,24 W
<b>Lamp flux:</b>	4750,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	07-01-2020 17:57:05	<b>Output ratio:</b>	95,5 %

## Protocol

**LiTG-class:** A42  
**UTE-class:** 0,94 E + 0,02 T  
**IES-class:** 47 - 80 - 96 - 98 - 96  
**TM5-class:** BZ4

<b>Divergences in the plane through maximum intensity:</b>	Horizontal	Vertical
<b>One half peak divergence</b>	116,5°	113,0°
<b>Half peak side angle (left)</b>	-58,3°	-56,5°
<b>Half peak side angle (right)</b>	58,3°	56,5°
<b>One tenth peak divergence</b>	157,5°	159,0°
<b>Tenth peak side angle (left)</b>	-78,7°	-79,5°
<b>Tenth peak side angle (right)</b>	78,7°	79,5°

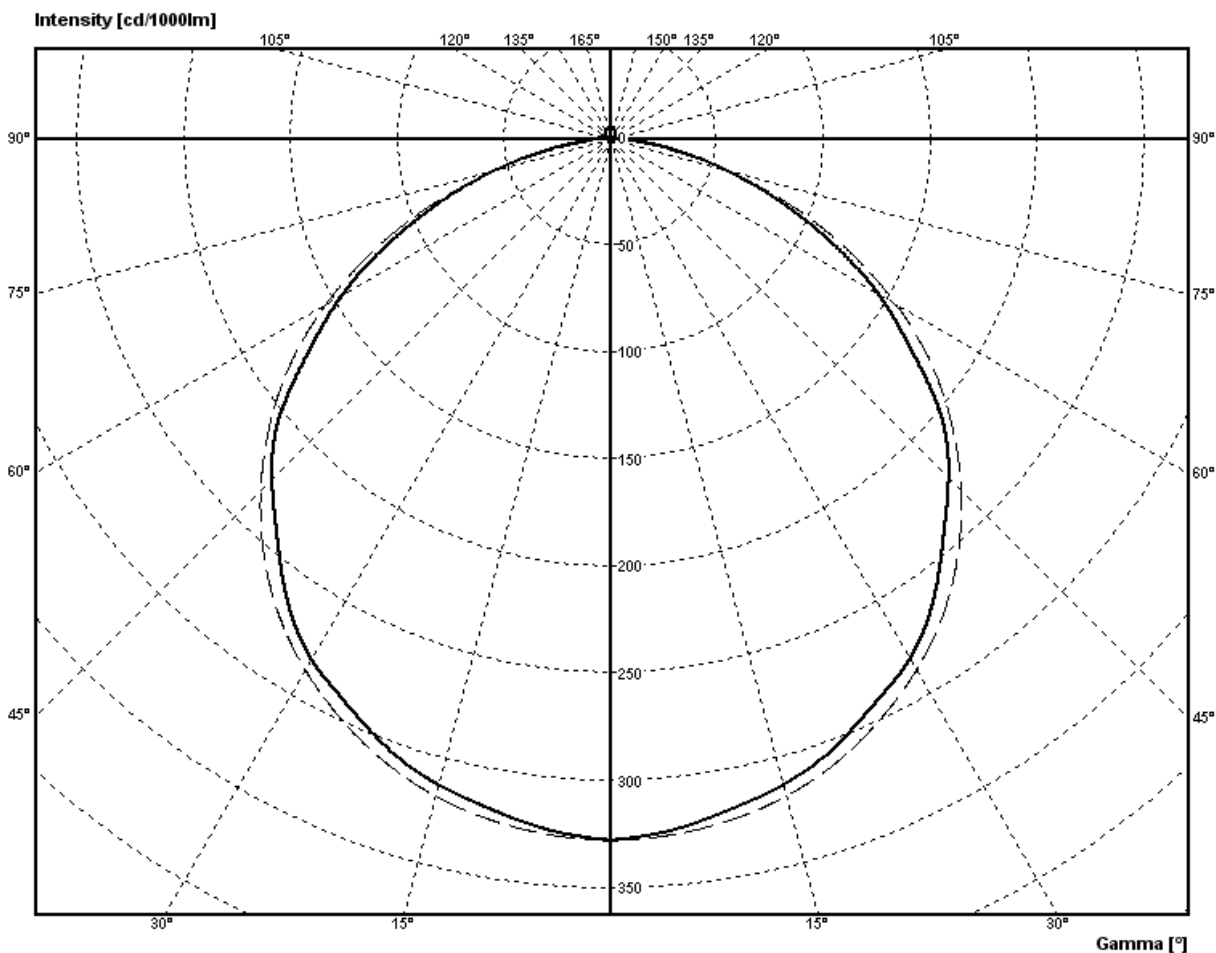
<b>C-planes:</b>	0,0°	15,0°	30,0°	45,0°	60,0°	75,0°	90,0°	105,0°	120,0°	135,0°
	150,0°	165,0°	180,0°	195,0°	210,0°	225,0°	240,0°	255,0°	270,0°	285,0°
	300,0°	315,0°	330,0°	345,0°						

<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 L1460 TUP 840 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>	19,7	21,3	20,1	21,7	22,1	21,5	23,0	21,9	23,4	23,8
<b>2H</b>	<b>3H</b>	20,7	22,2	21,1	22,6	22,9	22,8	24,3	23,3	24,7	25,1
<b>2H</b>	<b>4H</b>	21,0	22,4	21,5	22,8	23,2	23,3	24,7	23,7	25,0	25,5
<b>2H</b>	<b>6H</b>	21,2	22,5	21,6	22,9	23,3	23,6	24,8	24,0	25,2	25,7
<b>2H</b>	<b>8H</b>	21,2	22,4	21,6	22,8	23,3	23,6	24,8	24,0	25,2	25,7
<b>2H</b>	<b>12H</b>	21,2	22,3	21,6	22,7	23,2	23,6	24,7	24,0	25,2	25,6
<b>4H</b>	<b>2H</b>	20,4	21,8	20,9	22,2	22,6	21,8	23,2	22,3	23,6	24,0
<b>4H</b>	<b>3H</b>	21,5	22,7	22,0	23,1	23,6	23,3	24,5	23,7	24,9	25,3
<b>4H</b>	<b>4H</b>	21,9	23,0	22,4	23,4	23,9	23,9	24,9	24,3	25,3	25,8
<b>4H</b>	<b>6H</b>	22,1	23,0	22,6	23,5	24,0	24,1	25,0	24,6	25,5	26,0
<b>4H</b>	<b>8H</b>	22,2	23,0	22,7	23,5	24,0	24,2	25,0	24,7	25,5	26,0
<b>4H</b>	<b>12H</b>	22,2	23,0	22,7	23,4	24,0	24,2	25,0	24,7	25,5	26,0
<b>8H</b>	<b>4H</b>	22,1	23,0	22,6	23,4	23,9	23,9	24,7	24,4	25,2	25,7
<b>8H</b>	<b>6H</b>	22,3	23,1	22,9	23,6	24,1	24,2	24,9	24,7	25,4	26,0
<b>8H</b>	<b>8H</b>	22,5	23,1	23,0	23,6	24,2	24,3	25,0	24,9	25,5	26,0
<b>8H</b>	<b>12H</b>	22,5	23,0	23,0	23,5	24,1	24,4	24,9	24,9	25,4	26,0
<b>12H</b>	<b>4H</b>	22,1	22,9	22,6	23,4	23,9	23,9	24,7	24,4	25,2	25,7
<b>12H</b>	<b>6H</b>	22,4	23,0	23,0	23,6	24,1	24,2	24,9	24,8	25,4	25,9
<b>12H</b>	<b>8H</b>	22,5	23,0	23,0	23,5	24,1	24,3	24,9	24,9	25,4	26,0

UGR values are corrected for lamp flux of 4750 lm by 5,4

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Luminance [cd/m<sup>2</sup>] TTP 50 LINE L1460 TUP 840 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	10355,8	10501,8	11015,1	12015,9	13598,9	16076,7	20725,4	16076,7	13598,9
50,00	9388,98	9465,36	9994,38	10928,3	12648,5	15130,8	20379,2	15130,8	12648,5
55,00	8079,74	8230,40	8831,28	9841,85	11372,4	13880,8	19886,6	13880,8	11372,4
60,00	6928,01	6977,05	7510,25	8564,79	9971,22	12398,5	18961,8	12398,5	9971,22
65,00	5589,01	5680,43	6098,42	6957,74	8403,72	10814,5	17527,8	10814,5	8403,72
70,00	4254,29	4326,65	4576,42	5306,33	6555,71	8636,63	15406,6	8636,63	6555,71
75,00	2933,15	3058,56	3227,78	3795,10	4568,30	6084,71	12147,4	6084,71	4568,30
80,00	1716,84	1799,73	1960,31	2203,16	2684,75	3614,05	8044,21	3614,05	2684,75
85,00	645,63	656,13	782,15	847,46	1139,47	1469,65	4100,54	1469,65	1139,47

G/C [cd/	135,00	150,00	165,00	180,00	195,00	210,00	225,00	240,00	255,00
45,00	12015,9	11015,1	10501,8	10355,8	10501,8	11015,1	12015,9	13598,9	16076,7
50,00	10928,3	9994,38	9465,36	9388,98	9465,36	9994,38	10928,3	12648,5	15130,8
55,00	9841,85	8831,28	8230,40	8079,74	8230,40	8831,28	9841,85	11372,4	13880,8
60,00	8564,79	7510,25	6977,05	6928,01	6977,05	7510,25	8564,79	9971,22	12398,5
65,00	6957,74	6098,42	5680,43	5589,01	5680,43	6098,42	6957,74	8403,72	10814,5
70,00	5306,33	4576,42	4326,65	4254,29	4326,65	4576,42	5306,33	6555,71	8636,63
75,00	3795,10	3227,78	3058,56	2933,15	3058,56	3227,78	3795,10	4568,30	6084,71
80,00	2203,16	1960,31	1799,73	1716,84	1799,73	1960,31	2203,16	2684,75	3614,05
85,00	847,46	782,15	656,13	645,63	656,13	782,15	847,46	1139,47	1469,65

G/C [cd/	270,00	285,00	300,00	315,00	330,00	345,00
45,00	20725,4	16076,7	13598,9	12015,9	11015,1	10501,8
50,00	20379,2	15130,8	12648,5	10928,3	9994,38	9465,36
55,00	19886,6	13880,8	11372,4	9841,85	8831,28	8230,40
60,00	18961,8	12398,5	9971,22	8564,79	7510,25	6977,05
65,00	17527,8	10814,5	8403,72	6957,74	6098,42	5680,43
70,00	15406,6	8636,63	6555,71	5306,33	4576,42	4326,65
75,00	12147,4	6084,71	4568,30	3795,10	3227,78	3058,56
80,00	8044,21	3614,05	2684,75	2203,16	1960,31	1799,73
85,00	4100,54	1469,65	1139,47	847,46	782,15	656,13

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