

## PHOTOMETRIC RESULTS

<b>Name:</b>	<b>TTP 100 L0660 TUP 840 LO</b>		
<b>Number:</b>	90481L060	<b>Diameter:</b>	0 mm
<b>Report:</b>	14-01-2020	<b>Length:</b>	660 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	105 mm
<b>Lamp type:</b>	LED 840 - 01	<b>Height:</b>	105 mm
<b>Number:</b>	1	<b>Power:</b>	22,99 W
<b>Lamp flux:</b>	3800,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	14-01-2020 14:20:02	<b>Output ratio:</b>	96,0 %

## Protocol

**LiTG-class:** A42  
**UTE-class:** 0,94 E + 0,02 T  
**IES-class:** 48 - 80 - 96 - 98 - 96  
**TM5-class:** BZ4

## Divergences in the plane through maximum intensity:

	Horizontal	Vertical
One half peak divergence	110,8°	116,5°
Half peak side angle (left)	-55,4°	-58,2°
Half peak side angle (right)	55,4°	58,2°
One tenth peak divergence	149,9°	159,3°
Tenth peak side angle (left)	-74,9°	-79,7°
Tenth peak side angle (right)	74,9°	79,7°

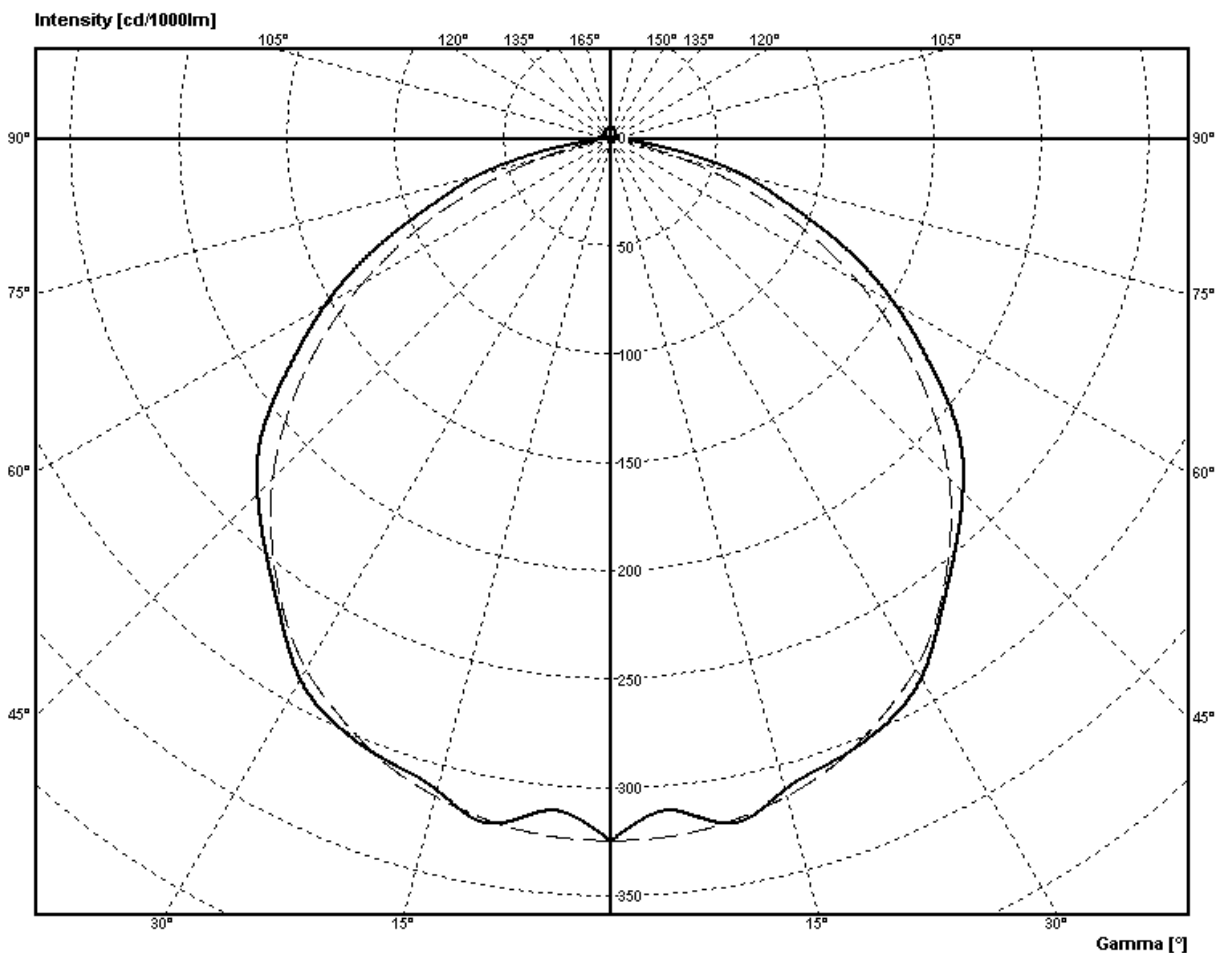
<b>C-planes:</b>	0,0°	15,0°	30,0°	45,0°	60,0°	75,0°	90,0°	105,0°	120,0°	135,0°
	150,0°	165,0°	180,0°	195,0°	210,0°	225,0°	240,0°	255,0°	270,0°	285,0°
	300,0°	315,0°	330,0°	345,0°						

<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 100 L0660 TUP 840 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>	19,6	21,2	20,0	21,6	22,0	20,2	21,7	20,6	22,1	22,5
<b>2H</b>	<b>3H</b>	20,7	22,1	21,1	22,5	22,9	21,2	22,6	21,6	23,0	23,4
<b>2H</b>	<b>4H</b>	21,0	22,4	21,5	22,8	23,2	21,4	22,8	21,9	23,2	23,6
<b>2H</b>	<b>6H</b>	21,2	22,5	21,7	22,9	23,3	21,5	22,8	22,0	23,2	23,6
<b>2H</b>	<b>8H</b>	21,2	22,4	21,6	22,8	23,3	21,5	22,7	21,9	23,1	23,6
<b>2H</b>	<b>12H</b>	21,2	22,3	21,6	22,7	23,2	21,4	22,6	21,9	23,0	23,5
<b>4H</b>	<b>2H</b>	20,2	21,6	20,7	22,0	22,4	20,7	22,0	21,1	22,4	22,8
<b>4H</b>	<b>3H</b>	21,4	22,6	21,9	23,0	23,5	21,8	23,0	22,3	23,4	23,9
<b>4H</b>	<b>4H</b>	21,9	22,9	22,4	23,4	23,9	22,2	23,2	22,7	23,7	24,2
<b>4H</b>	<b>6H</b>	22,1	23,0	22,6	23,5	24,0	22,3	23,2	22,8	23,7	24,2
<b>4H</b>	<b>8H</b>	22,1	23,0	22,6	23,5	24,0	22,3	23,2	22,8	23,6	24,2
<b>4H</b>	<b>12H</b>	22,1	22,9	22,6	23,4	23,9	22,3	23,1	22,8	23,6	24,1
<b>8H</b>	<b>4H</b>	22,1	22,9	22,6	23,4	23,9	22,3	23,2	22,8	23,7	24,2
<b>8H</b>	<b>6H</b>	22,3	23,0	22,8	23,5	24,1	22,5	23,2	23,0	23,7	24,3
<b>8H</b>	<b>8H</b>	22,4	23,0	22,9	23,6	24,1	22,6	23,2	23,1	23,7	24,3
<b>8H</b>	<b>12H</b>	22,4	22,9	23,0	23,5	24,0	22,6	23,1	23,1	23,7	24,2
<b>12H</b>	<b>4H</b>	22,1	22,8	22,6	23,3	23,9	22,3	23,1	22,8	23,6	24,1
<b>12H</b>	<b>6H</b>	22,4	23,0	22,9	23,5	24,1	22,6	23,2	23,1	23,7	24,3
<b>12H</b>	<b>8H</b>	22,4	22,9	23,0	23,5	24,0	22,6	23,1	23,2	23,7	24,2

UGR values are corrected for lamp flux of 3800 lm by 4,6

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Luminance [cd/m<sup>2</sup>] TTP 100 L0660 TUP 840 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	9650,50	9653,37	10233,3	10242,6	11335,7	12304,9	15796,9	12304,9	11335,7
50,00	8824,77	8839,94	9308,55	9412,41	10184,9	11334,7	14840,3	11334,7	10184,9
55,00	7660,16	7763,52	8106,07	8657,49	8770,92	9993,27	13620,3	9993,27	8770,92
60,00	6575,90	6599,92	6862,67	7341,07	8075,53	8762,07	12063,3	8762,07	8075,53
65,00	5377,24	5411,81	5651,98	5929,47	6605,09	7341,31	10076,2	7341,31	6605,09
70,00	4032,93	4282,76	4423,21	4661,62	5260,71	5258,45	7550,06	5258,45	5260,71
75,00	3004,20	3002,53	3210,76	3297,00	3678,09	3661,41	4455,90	3661,41	3678,09
80,00	1542,13	1641,38	1789,09	2114,35	2218,43	2161,18	1783,14	2161,18	2218,43
85,00	408,38	474,53	554,86	691,27	1002,86	958,15	643,73	958,15	1002,86

G/C [cd/	135,00	150,00	165,00	180,00	195,00	210,00	225,00	240,00	255,00
45,00	10242,6	10233,3	9653,37	9650,50	9653,37	10233,3	10242,6	11335,7	12304,9
50,00	9412,41	9308,55	8839,94	8824,77	8839,94	9308,55	9412,41	10184,9	11334,7
55,00	8657,49	8106,07	7763,52	7660,16	7763,52	8106,07	8657,49	8770,92	9993,27
60,00	7341,07	6862,67	6599,92	6575,90	6599,92	6862,67	7341,07	8075,53	8762,07
65,00	5929,47	5651,98	5411,81	5377,24	5411,81	5651,98	5929,47	6605,09	7341,31
70,00	4661,62	4423,21	4282,76	4032,93	4282,76	4423,21	4661,62	5260,71	5258,45
75,00	3297,00	3210,76	3002,53	3004,20	3002,53	3210,76	3297,00	3678,09	3661,41
80,00	2114,35	1789,09	1641,38	1542,13	1641,38	1789,09	2114,35	2218,43	2161,18
85,00	691,27	554,86	474,53	408,38	474,53	554,86	691,27	1002,86	958,15

G/C [cd/	270,00	285,00	300,00	315,00	330,00	345,00
45,00	15796,9	12304,9	11335,7	10242,6	10233,3	9653,37
50,00	14840,3	11334,7	10184,9	9412,41	9308,55	8839,94
55,00	13620,3	9993,27	8770,92	8657,49	8106,07	7763,52
60,00	12063,3	8762,07	8075,53	7341,07	6862,67	6599,92
65,00	10076,2	7341,31	6605,09	5929,47	5651,98	5411,81
70,00	7550,06	5258,45	5260,71	4661,62	4423,21	4282,76
75,00	4455,90	3661,41	3678,09	3297,00	3210,76	3002,53
80,00	1783,14	2161,18	2218,43	2114,35	1789,09	1641,38
85,00	643,73	958,15	1002,86	691,27	554,86	474,53

## HEADQUARTERS

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