

## PHOTOMETRIC RESULTS

<b>Name:</b>	<b>TTP 100 L1500 TOP 840 MO</b>		
<b>Number:</b>	90495L150	<b>Diameter:</b>	0 mm
<b>Report:</b>	08-01-2020	<b>Length:</b>	1500 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>	78,58 W
<b>Lamp flux:</b>	13900,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	08-01-2020 15:23:29	<b>Output ratio:</b>	78,6 %

## Protocol

**LiTG-class:** B31  
**UTE-class:** 0,70 G + 0,08 T  
**IES-class:** 42 - 71 - 89 - 89 - 79  
**TM5-class:** BZ5

<b>Divergences in the plane through maximum intensity:</b>	Horizontal	Vertical
<b>One half peak divergence</b>	102,4°	133,3°
<b>Half peak side angle (left)</b>	-51,2°	-66,6°
<b>Half peak side angle (right)</b>	51,2°	66,6°
<b>One tenth peak divergence</b>	156,5°	236,9°
<b>Tenth peak side angle (left)</b>	-78,3°	-118,5°
<b>Tenth peak side angle (right)</b>	78,3°	118,5°

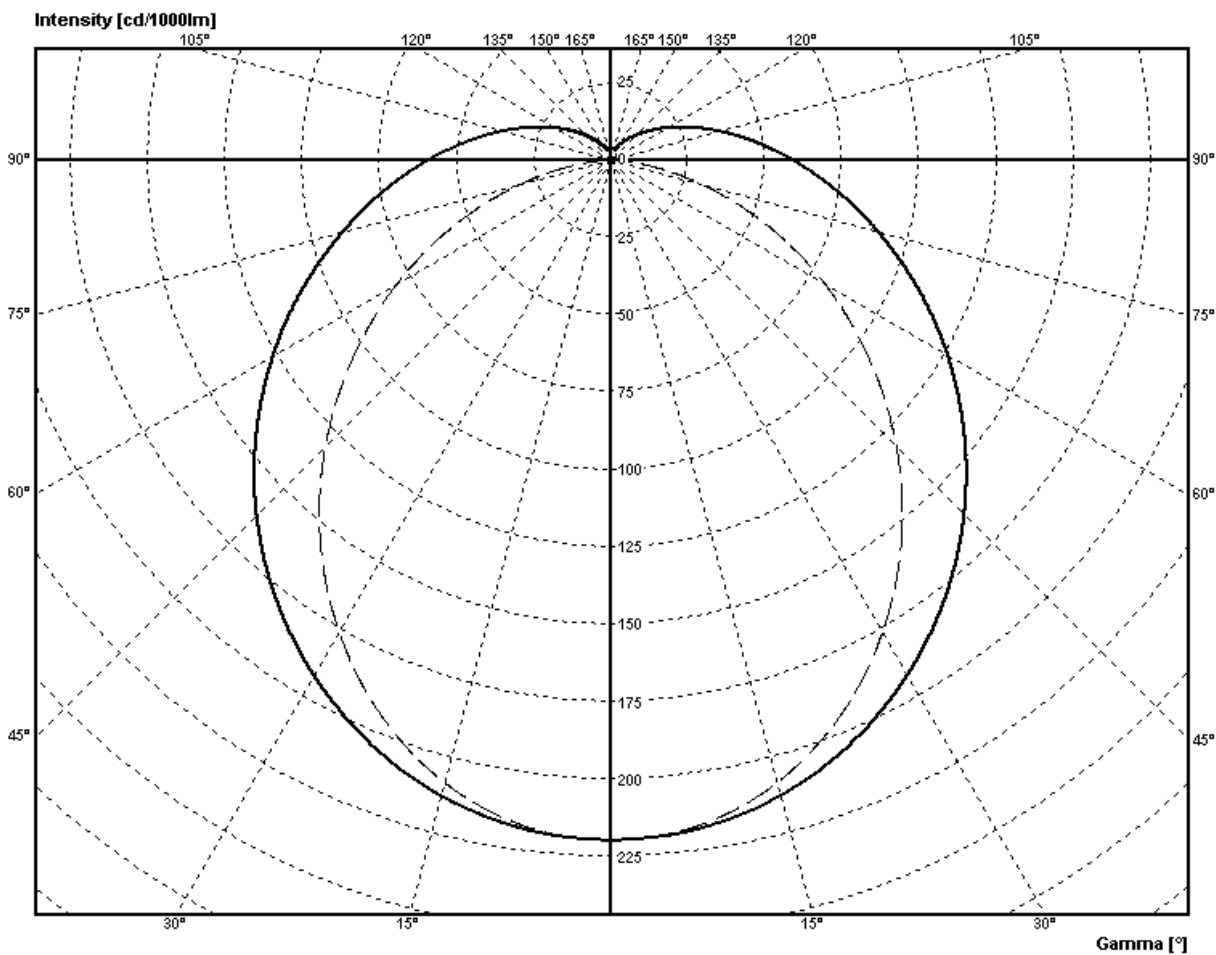
<b>C-planes:</b>	0,0°	15,0°	30,0°	45,0°	60,0°	75,0°	90,0°	105,0°	120,0°	135,0°
	150,0°	165,0°	180,0°	195,0°	210,0°	225,0°	240,0°	255,0°	270,0°	285,0°
	300,0°	315,0°	330,0°	345,0°						

<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°			

## PHOTOMETRIC RESULTS

Name:	TTP 100 L1500 TOP 840 MO		
Number:	90495L150	Diameter:	0 mm
Report:	08-01-2020	Length:	1500 mm
Meas.-no.:	01	Width:	105 mm
Lamp type:	LED 840 - 01	Height:	105 mm
Number:	1	Power:	78,58 W
Lamp flux:	13900,00 lm	Operator:	INDELAGUE GROUP
Date:	08-01-2020 15:23:29	Output ratio:	78,6 %

Polar diagram TTP 100 L1500 TOP 840 MO / Total in 15° C / 5° G



## PHOTOMETRIC RESULTS

<b>Name:</b>	<b>TTP 100 L1500 TOP 840 MO</b>		
<b>Number:</b>	90495L150	<b>Diameter:</b>	0 mm
<b>Report:</b>	08-01-2020	<b>Length:</b>	1500 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>	78,58 W
<b>Lamp flux:</b>	13900,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	08-01-2020 15:23:29	<b>Output ratio:</b>	78,6 %

## 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>	19,5	20,9	20,0	21,4	22,0	19,1	20,6	19,6	21,1	21,7
<b>2H</b>	<b>3H</b>	21,3	22,6	21,8	23,2	23,8	20,5	21,8	21,0	22,4	22,9
<b>2H</b>	<b>4H</b>	22,2	23,4	22,7	24,0	24,6	21,0	22,2	21,5	22,8	23,4
<b>2H</b>	<b>6H</b>	23,0	24,2	23,6	24,8	25,4	21,3	22,5	21,9	23,1	23,7
<b>2H</b>	<b>8H</b>	23,4	24,5	23,9	25,1	25,7	21,4	22,5	22,0	23,1	23,8
<b>2H</b>	<b>12H</b>	23,7	24,8	24,3	25,4	26,1	21,4	22,5	22,0	23,1	23,8
<b>4H</b>	<b>2H</b>	20,1	21,3	20,6	21,9	22,5	19,8	21,1	20,3	21,6	22,2
<b>4H</b>	<b>3H</b>	22,1	23,2	22,7	23,8	24,4	21,3	22,4	21,9	23,0	23,7
<b>4H</b>	<b>4H</b>	23,2	24,2	23,8	24,8	25,4	22,0	23,0	22,6	23,6	24,3
<b>4H</b>	<b>6H</b>	24,2	25,1	24,8	25,7	26,4	22,4	23,3	23,0	23,9	24,6
<b>4H</b>	<b>8H</b>	24,6	25,5	25,3	26,1	26,8	22,6	23,4	23,2	24,0	24,7
<b>4H</b>	<b>12H</b>	25,1	25,9	25,8	26,5	27,3	22,7	23,5	23,3	24,1	24,8
<b>8H</b>	<b>4H</b>	23,5	24,3	24,1	24,9	25,6	22,4	23,3	23,0	23,9	24,6
<b>8H</b>	<b>6H</b>	24,6	25,4	25,3	26,0	26,7	23,0	23,8	23,7	24,4	25,1
<b>8H</b>	<b>8H</b>	25,3	26,0	26,0	26,6	27,4	23,3	24,0	24,0	24,7	25,4
<b>8H</b>	<b>12H</b>	26,0	26,5	26,6	27,2	27,9	23,5	24,1	24,2	24,7	25,5
<b>12H</b>	<b>4H</b>	23,5	24,3	24,1	24,9	25,6	22,5	23,3	23,1	23,9	24,7
<b>12H</b>	<b>6H</b>	24,8	25,4	25,4	26,1	26,8	23,3	23,9	23,9	24,6	25,3
<b>12H</b>	<b>8H</b>	25,5	26,0	26,1	26,7	27,4	23,6	24,2	24,3	24,8	25,6

UGR values are corrected for lamp flux of 13900 lm by 9,1

## PHOTOMETRIC RESULTS

<b>Name:</b>	<b>TTP 100 L1500 TOP 840 MO</b>		
<b>Number:</b>	90495L150	<b>Diameter:</b>	0 mm
<b>Report:</b>	08-01-2020	<b>Length:</b>	1500 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>	78,58 W
<b>Lamp flux:</b>	13900,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	08-01-2020 15:23:29	<b>Output ratio:</b>	78,6 %

## Luminance [cd/m2] TTP 100 L1500 TOP 840 MO / 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	10426,3	10371,5	10442,6	10705,9	11399,0	12856,7	15698,4	12856,7	11399,0
50,00	9720,62	9648,57	9667,08	9853,30	10445,6	11851,6	14870,6	11851,6	10445,6
55,00	9041,58	8959,91	8935,01	9042,81	9506,46	10804,0	13953,4	10804,0	9506,46
60,00	8406,44	8311,57	8245,21	8255,49	8590,64	9703,82	12967,0	9703,82	8590,64
65,00	7803,19	7692,73	7585,49	7521,40	7679,17	8544,41	11760,2	8544,41	7679,17
70,00	7218,30	7111,68	6974,25	6833,37	6828,02	7321,36	10321,1	7321,36	6828,02
75,00	6685,41	6572,39	6416,51	6201,74	6019,36	6065,52	8550,71	6065,52	6019,36
80,00	6206,16	6087,95	5904,49	5629,75	5270,48	4846,68	6423,54	4846,68	5270,48
85,00	5764,90	5643,88	5450,94	5128,59	4638,05	3773,15	3829,68	3773,15	4638,05

G/C [cd/	135,00	150,00	165,00	180,00	195,00	210,00	225,00	240,00	255,00
45,00	10705,9	10442,6	10371,5	10426,3	10371,5	10442,6	10705,9	11399,0	12856,7
50,00	9853,30	9667,08	9648,57	9720,62	9648,57	9667,08	9853,30	10445,6	11851,6
55,00	9042,81	8935,01	8959,91	9041,58	8959,91	8935,01	9042,81	9506,46	10804,0
60,00	8255,49	8245,21	8311,57	8406,44	8311,57	8245,21	8255,49	8590,64	9703,82
65,00	7521,40	7585,49	7692,73	7803,19	7692,73	7585,49	7521,40	7679,17	8544,41
70,00	6833,37	6974,25	7111,68	7218,30	7111,68	6974,25	6833,37	6828,02	7321,36
75,00	6201,74	6416,51	6572,39	6685,41	6572,39	6416,51	6201,74	6019,36	6065,52
80,00	5629,75	5904,49	6087,95	6206,16	6087,95	5904,49	5629,75	5270,48	4846,68
85,00	5128,59	5450,94	5643,88	5764,90	5643,88	5450,94	5128,59	4638,05	3773,15

G/C [cd/	270,00	285,00	300,00	315,00	330,00	345,00
45,00	15698,4	12856,7	11399,0	10705,9	10442,6	10371,5
50,00	14870,6	11851,6	10445,6	9853,30	9667,08	9648,57
55,00	13953,4	10804,0	9506,46	9042,81	8935,01	8959,91
60,00	12967,0	9703,82	8590,64	8255,49	8245,21	8311,57
65,00	11760,2	8544,41	7679,17	7521,40	7585,49	7692,73
70,00	10321,1	7321,36	6828,02	6833,37	6974,25	7111,68
75,00	8550,71	6065,52	6019,36	6201,74	6416,51	6572,39
80,00	6423,54	4846,68	5270,48	5629,75	5904,49	6087,95
85,00	3829,68	3773,15	4638,05	5128,59	5450,94	5643,88

## HEADQUARTERS

INDÚSTRIA ELÉTRICA DE ÁGUEDA S.A.

Rua da Mina 465 | Covão | Zona industrial EN1 Norte

3750-792 Trofa ÁGUEDA | PORTUGAL

www.indelague.com | www.roxolighting.com

indelague@indelague.pt | roxo.london@roxolighting.com

Tel. (+351) 234 612 310

Fax (+351) 234 624 058