

## PHOTOMETRIC RESULTS

<b>Name:</b>	<b>TTP 100 L1220 TOP 840 LO</b>		
<b>Number:</b>	90480L120	<b>Diameter:</b>	0 mm
<b>Report:</b>	10-01-2020	<b>Length:</b>	1220 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>	43,8 W
<b>Lamp flux:</b>	7600,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	10-01-2020 15:30:56	<b>Output ratio:</b>	81,7 %

## Protocol

**LiTG-class:** B31  
**UTE-class:** 0,73 G + 0,09 T  
**IES-class:** 42 - 71 - 89 - 89 - 82  
**TM5-class:** BZ5

<b>Divergences in the plane through maximum intensity:</b>	Horizontal	Vertical
<b>One half peak divergence</b>	101,9°	132,4°
<b>Half peak side angle (left)</b>	-51,0°	-66,2°
<b>Half peak side angle (right)</b>	51,0°	66,2°
<b>One tenth peak divergence</b>	156,1°	236,2°
<b>Tenth peak side angle (left)</b>	-78,0°	-118,1°
<b>Tenth peak side angle (right)</b>	78,0°	118,1°

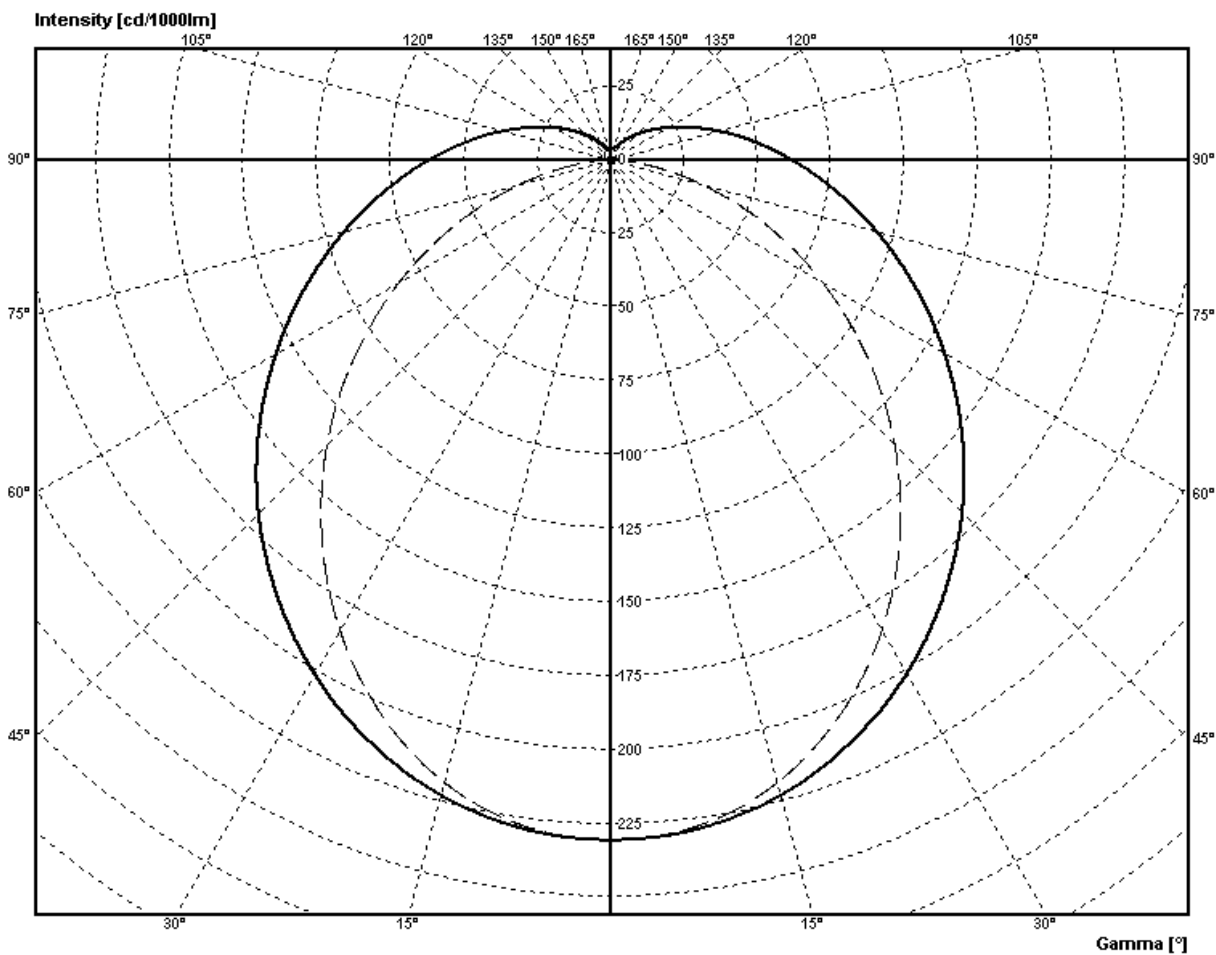
<b>C-planes:</b>	0,0°	15,0°	30,0°	45,0°	60,0°	75,0°	90,0°	105,0°	120,0°	135,0°
	150,0°	165,0°	180,0°	195,0°	210,0°	225,0°	240,0°	255,0°	270,0°	285,0°
	300,0°	315,0°	330,0°	345,0°						

<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 L1220 TOP 840 LO		
Number:	90480L120	Diameter:	0 mm
Report:	10-01-2020	Length:	1220 mm
Meas.-no.:	01	Width:	105 mm
Lamp type:	LED 840 - 01	Height:	105 mm
Number:	1	Power:	43,8 W
Lamp flux:	7600,00 lm	Operator:	INDELAGUE GROUP
Date:	10-01-2020 15:30:56	Output ratio:	81,7 %

Polar diagram TTP 100 L1220 TOP 840 LO / Total in 15° C / 5° G



## PHOTOMETRIC RESULTS

<b>Name:</b>	<b>TTP 100 L1220 TOP 840 LO</b>		
<b>Number:</b>	90480L120	<b>Diameter:</b>	0 mm
<b>Report:</b>	10-01-2020	<b>Length:</b>	1220 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>	43,8 W
<b>Lamp flux:</b>	7600,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	10-01-2020 15:30:56	<b>Output ratio:</b>	81,7 %

## 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>	18,2	19,7	18,7	20,2	20,8	17,9	19,3	18,4	19,9	20,4
<b>2H</b>	<b>3H</b>	20,0	21,4	20,6	21,9	22,5	19,2	20,5	19,7	21,1	21,6
<b>2H</b>	<b>4H</b>	20,9	22,2	21,5	22,8	23,4	19,7	20,9	20,2	21,5	22,1
<b>2H</b>	<b>6H</b>	21,8	23,0	22,3	23,5	24,2	20,0	21,2	20,6	21,7	22,4
<b>2H</b>	<b>8H</b>	22,1	23,3	22,7	23,9	24,5	20,1	21,2	20,6	21,8	22,4
<b>2H</b>	<b>12H</b>	22,5	23,6	23,1	24,2	24,8	20,1	21,2	20,6	21,8	22,4
<b>4H</b>	<b>2H</b>	18,8	20,1	19,4	20,7	21,3	18,5	19,8	19,1	20,4	21,0
<b>4H</b>	<b>3H</b>	20,9	22,0	21,4	22,5	23,2	20,0	21,1	20,6	21,7	22,4
<b>4H</b>	<b>4H</b>	21,9	22,9	22,5	23,5	24,2	20,7	21,7	21,3	22,3	22,9
<b>4H</b>	<b>6H</b>	22,9	23,8	23,5	24,4	25,1	21,1	22,0	21,7	22,6	23,3
<b>4H</b>	<b>8H</b>	23,4	24,3	24,0	24,9	25,6	21,2	22,1	21,8	22,7	23,4
<b>4H</b>	<b>12H</b>	23,9	24,7	24,5	25,3	26,0	21,3	22,1	21,9	22,7	23,5
<b>8H</b>	<b>4H</b>	22,2	23,1	22,8	23,7	24,4	21,1	22,0	21,7	22,6	23,3
<b>8H</b>	<b>6H</b>	23,4	24,1	24,0	24,8	25,5	21,7	22,4	22,3	23,1	23,8
<b>8H</b>	<b>8H</b>	24,1	24,7	24,7	25,4	26,1	22,0	22,7	22,7	23,3	24,0
<b>8H</b>	<b>12H</b>	24,7	25,3	25,4	25,9	26,7	22,2	22,7	22,8	23,4	24,1
<b>12H</b>	<b>4H</b>	22,3	23,0	22,9	23,7	24,4	21,2	22,0	21,8	22,6	23,3
<b>12H</b>	<b>6H</b>	23,5	24,2	24,2	24,8	25,6	22,0	22,6	22,6	23,3	24,0
<b>12H</b>	<b>8H</b>	24,2	24,8	24,9	25,4	26,2	22,3	22,8	22,9	23,5	24,2

UGR values are corrected for lamp flux of 7600 lm by 7,0

## PHOTOMETRIC RESULTS

<b>Name:</b>	<b>TTP 100 L1220 TOP 840 LO</b>		
<b>Number:</b>	90480L120	<b>Diameter:</b>	0 mm
<b>Report:</b>	10-01-2020	<b>Length:</b>	1220 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>	43,8 W
<b>Lamp flux:</b>	7600,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	10-01-2020 15:30:56	<b>Output ratio:</b>	81,7 %

Luminance [cd/m<sup>2</sup>] TTP 100 L1220 TOP 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	7375,04	7313,68	7343,26	7512,78	7980,71	8970,97	10920,2	8970,97	7980,71
50,00	6866,17	6792,65	6783,25	6899,04	7295,75	8237,85	10303,8	8237,85	7295,75
55,00	6382,19	6299,21	6255,97	6316,15	6612,63	7488,34	9617,21	7488,34	6612,63
60,00	5920,26	5832,52	5757,36	5760,83	5964,71	6694,86	8867,95	6694,86	5964,71
65,00	5497,22	5385,40	5291,11	5228,38	5324,01	5864,43	7988,74	5864,43	5324,01
70,00	5087,55	4976,17	4858,32	4741,06	4704,82	5002,13	6974,18	5002,13	4704,82
75,00	4717,87	4593,16	4459,70	4290,66	4134,41	4113,61	5648,78	4113,61	4134,41
80,00	4373,43	4244,85	4099,48	3884,41	3610,06	3253,05	4136,21	3253,05	3610,06
85,00	4068,77	3939,87	3772,74	3528,36	3155,19	2496,29	2332,36	2496,29	3155,19

G/C [cd/	135,00	150,00	165,00	180,00	195,00	210,00	225,00	240,00	255,00
45,00	7512,78	7343,26	7313,68	7375,04	7313,68	7343,26	7512,78	7980,71	8970,97
50,00	6899,04	6783,25	6792,65	6866,17	6792,65	6783,25	6899,04	7295,75	8237,85
55,00	6316,15	6255,97	6299,21	6382,19	6299,21	6255,97	6316,15	6612,63	7488,34
60,00	5760,83	5757,36	5832,52	5920,26	5832,52	5757,36	5760,83	5964,71	6694,86
65,00	5228,38	5291,11	5385,40	5497,22	5385,40	5291,11	5228,38	5324,01	5864,43
70,00	4741,06	4858,32	4976,17	5087,55	4976,17	4858,32	4741,06	4704,82	5002,13
75,00	4290,66	4459,70	4593,16	4717,87	4593,16	4459,70	4290,66	4134,41	4113,61
80,00	3884,41	4099,48	4244,85	4373,43	4244,85	4099,48	3884,41	3610,06	3253,05
85,00	3528,36	3772,74	3939,87	4068,77	3939,87	3772,74	3528,36	3155,19	2496,29

G/C [cd/	270,00	285,00	300,00	315,00	330,00	345,00
45,00	10920,2	8970,97	7980,71	7512,78	7343,26	7313,68
50,00	10303,8	8237,85	7295,75	6899,04	6783,25	6792,65
55,00	9617,21	7488,34	6612,63	6316,15	6255,97	6299,21
60,00	8867,95	6694,86	5964,71	5760,83	5757,36	5832,52
65,00	7988,74	5864,43	5324,01	5228,38	5291,11	5385,40
70,00	6974,18	5002,13	4704,82	4741,06	4858,32	4976,17
75,00	5648,78	4113,61	4134,41	4290,66	4459,70	4593,16
80,00	4136,21	3253,05	3610,06	3884,41	4099,48	4244,85
85,00	2332,36	2496,29	3155,19	3528,36	3772,74	3939,87

## 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