

## PHOTOMETRIC RESULTS

<b>Name:</b>	<b>TTP 50 LINE L0900 TOP 830 END LO</b>		
<b>Number:</b>	90484L090-50	<b>Diameter:</b>	0 mm
<b>Report:</b>	09-01-2020	<b>Length:</b>	900 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	50 mm
<b>Lamp type:</b>	LED 830 - 01	<b>Height:</b>	50 mm
<b>Number:</b>	1	<b>Power:</b>	17,75 W
<b>Lamp flux:</b>	2580,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	09-01-2020 16:46:42	<b>Output ratio:</b>	81,1 %

## Protocol

**LiTG-class:** A31  
**UTE-class:** 0,76 G + 0,05 T  
**IES-class:** 43 - 73 - 91 - 94 - 81  
**TM5-class:** BZ5

<b>Divergences in the plane through maximum intensity:</b>	Horizontal	Vertical
<b>One half peak divergence</b>	112,1°	125,1°
<b>Half peak side angle (left)</b>	-56,1°	-62,6°
<b>Half peak side angle (right)</b>	56,1°	62,6°
<b>One tenth peak divergence</b>	160,6°	205,8°
<b>Tenth peak side angle (left)</b>	-80,3°	-102,9°
<b>Tenth peak side angle (right)</b>	80,3°	102,9°

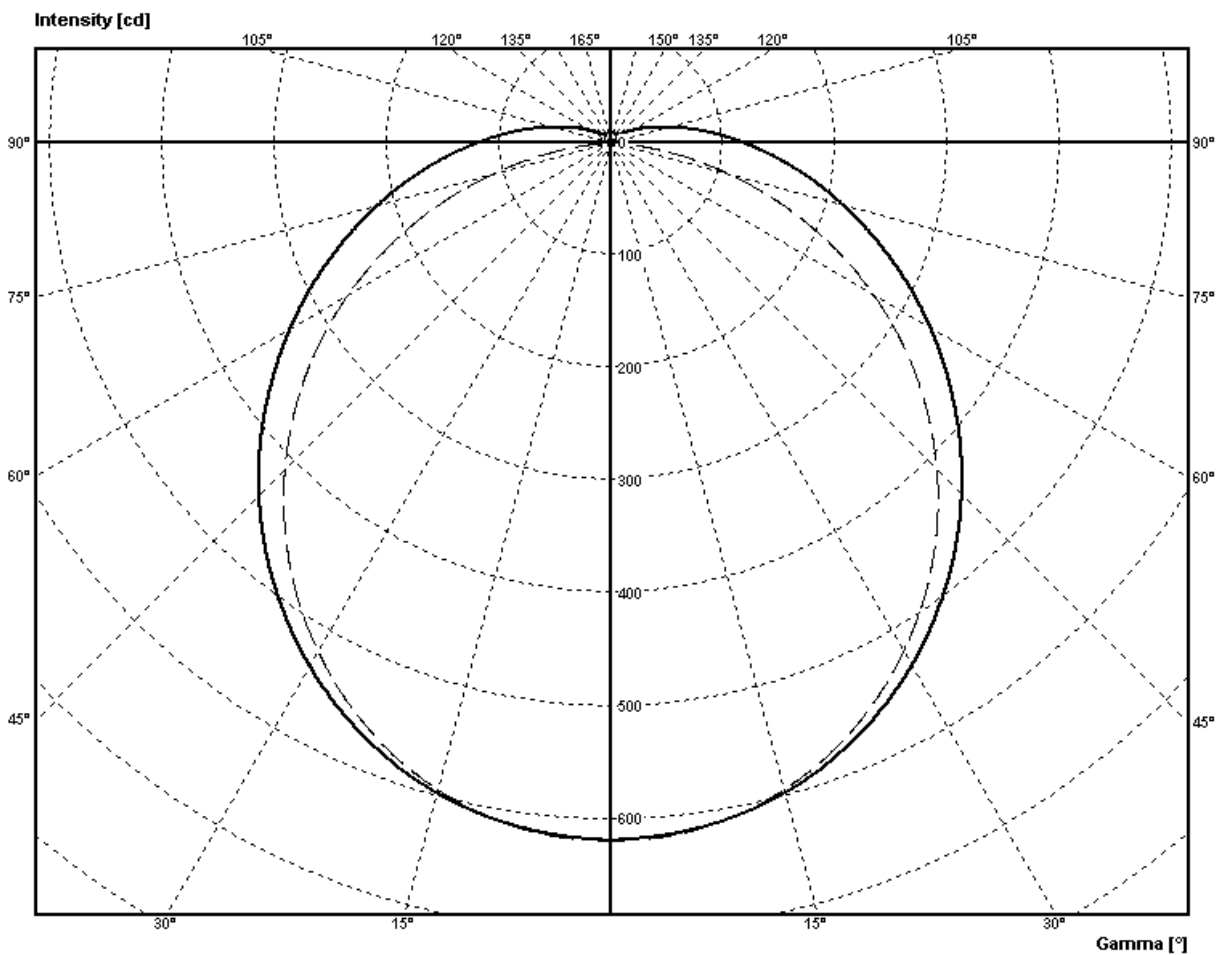
<b>C-planes:</b>	0,0°	15,0°	30,0°	45,0°	60,0°	75,0°	90,0°	105,0°	120,0°	135,0°
	150,0°	165,0°	180,0°	195,0°	210,0°	225,0°	240,0°	255,0°	270,0°	285,0°
	300,0°	315,0°	330,0°	345,0°						

<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 50 LINE L0900 TOP 830 END LO		
Number:	90484L090-50	Diameter:	0 mm
Report:	09-01-2020	Length:	900 mm
Meas.-no.:	01	Width:	50 mm
Lamp type:	LED 830 - 01	Height:	50 mm
Number:	1	Power:	17,75 W
Lamp flux:	2580,00 lm	Operator:	INDELAGUE GROUP
Date:	09-01-2020 16:46:42	Output ratio:	81,1 %

Polar diagram TTP 50 LINE L0900 TOP 830 END LO / Total in 15° C / 5° G



## PHOTOMETRIC RESULTS

<b>Name:</b>	<b>TTP 50 LINE L0900 TOP 830 END LO</b>		
<b>Number:</b>	90484L090-50	<b>Diameter:</b>	0 mm
<b>Report:</b>	09-01-2020	<b>Length:</b>	900 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	50 mm
<b>Lamp type:</b>	LED 830 - 01	<b>Height:</b>	50 mm
<b>Number:</b>	1	<b>Power:</b>	17,75 W
<b>Lamp flux:</b>	2580,00 lm	<b>Operator:</b>	INDELAGUE GROUP
<b>Date:</b>	09-01-2020 16:46:42	<b>Output ratio:</b>	81,1 %

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

UGR values are corrected for lamp flux of 2580 lm by 3,3

## PHOTOMETRIC RESULTS

<b>Name:</b>	<b>TTP 50 LINE L0900 TOP 830 END LO</b>		
<b>Number:</b>	90484L090-50	<b>Diameter:</b>	0 mm
<b>Report:</b>	09-01-2020	<b>Length:</b>	900 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	50 mm
<b>Lamp type:</b>	LED 830 - 01	<b>Height:</b>	50 mm
<b>Number:</b>	1	<b>Power:</b>	17,75 W
<b>Lamp flux:</b>	2580,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	09-01-2020 16:46:42	<b>Output ratio:</b>	81,1 %

Luminance [cd/m<sup>2</sup>] TTP 50 LINE L0900 TOP 830 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	7006,21	7029,94	7252,83	7719,91	8538,53	9936,30	12319,8	9936,30	8538,53
50,00	6457,51	6475,02	6672,45	7099,62	7909,12	9352,32	11986,4	9352,32	7909,12
55,00	5916,79	5935,20	6088,93	6479,27	7232,73	8708,38	11582,6	8708,38	7232,73
60,00	5405,05	5399,96	5526,18	5845,22	6526,32	7956,18	11060,9	7956,18	6526,32
65,00	4902,30	4880,27	4959,45	5202,77	5764,98	7097,30	10377,9	7097,30	5764,98
70,00	4414,20	4373,01	4414,89	4563,65	4963,21	6061,53	9449,84	6061,53	4963,21
75,00	3943,38	3882,72	3870,19	3904,43	4117,03	4882,47	8118,11	4882,47	4117,03
80,00	3509,18	3423,66	3359,41	3284,83	3277,36	3585,84	6311,34	3585,84	3277,36
85,00	3078,94	2977,50	2877,71	2710,52	2511,95	2310,97	3813,09	2310,97	2511,95

G/C [cd/	135,00	150,00	165,00	180,00	195,00	210,00	225,00	240,00	255,00
45,00	7719,91	7252,83	7029,94	7006,21	7029,94	7252,83	7719,91	8538,53	9936,30
50,00	7099,62	6672,45	6475,02	6457,51	6475,02	6672,45	7099,62	7909,12	9352,32
55,00	6479,27	6088,93	5935,20	5916,79	5935,20	6088,93	6479,27	7232,73	8708,38
60,00	5845,22	5526,18	5399,96	5405,05	5399,96	5526,18	5845,22	6526,32	7956,18
65,00	5202,77	4959,45	4880,27	4902,30	4880,27	4959,45	5202,77	5764,98	7097,30
70,00	4563,65	4414,89	4373,01	4414,20	4373,01	4414,89	4563,65	4963,21	6061,53
75,00	3904,43	3870,19	3882,72	3943,38	3882,72	3870,19	3904,43	4117,03	4882,47
80,00	3284,83	3359,41	3423,66	3509,18	3423,66	3359,41	3284,83	3277,36	3585,84
85,00	2710,52	2877,71	2977,50	3078,94	2977,50	2877,71	2710,52	2511,95	2310,97

G/C [cd/	270,00	285,00	300,00	315,00	330,00	345,00
45,00	12319,8	9936,30	8538,53	7719,91	7252,83	7029,94
50,00	11986,4	9352,32	7909,12	7099,62	6672,45	6475,02
55,00	11582,6	8708,38	7232,73	6479,27	6088,93	5935,20
60,00	11060,9	7956,18	6526,32	5845,22	5526,18	5399,96
65,00	10377,9	7097,30	5764,98	5202,77	4959,45	4880,27
70,00	9449,84	6061,53	4963,21	4563,65	4414,89	4373,01
75,00	8118,11	4882,47	4117,03	3904,43	3870,19	3882,72
80,00	6311,34	3585,84	3277,36	3284,83	3359,41	3423,66
85,00	3813,09	2310,97	2511,95	2710,52	2877,71	2977,50

## 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