

## PHOTOMETRIC RESULTS

<b>Name:</b>	REBA 50 /T EXT LINE L1140 SRT/END+INT SYM BFLEX 830 HO		
<b>Number:</b>	90507-83+90499L004	<b>Diameter:</b>	0 mm
<b>Report:</b>	24-01-2020	<b>Length:</b>	1140 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	70 mm
<b>Lamp type:</b>	LED 830 - 01	<b>Height:</b>	114 mm
<b>Number:</b>	01	<b>Power:</b>	28,70 W
<b>Lamp flux:</b>	4320,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	24-01-2020 14:11:52	<b>Output ratio:</b>	64,1 %

## Protocol

**LiTG-class:** A40  
**UTE-class:** 0,64 E  
**IES-class:** 46 - 76 - 93 - 100 - 64  
**TM5-class:** BZ4/0.75/BZ5

## Divergences in the plane through maximum intensity:

	Horizontal	Vertical
One half peak divergence	109,0°	113,2°
Half peak side angle (left)	-54,5°	-56,6°
Half peak side angle (right)	54,5°	56,6°
One tenth peak divergence	163,2°	174,7°
Tenth peak side angle (left)	-81,6°	-87,3°
Tenth peak side angle (right)	81,6°	87,3°

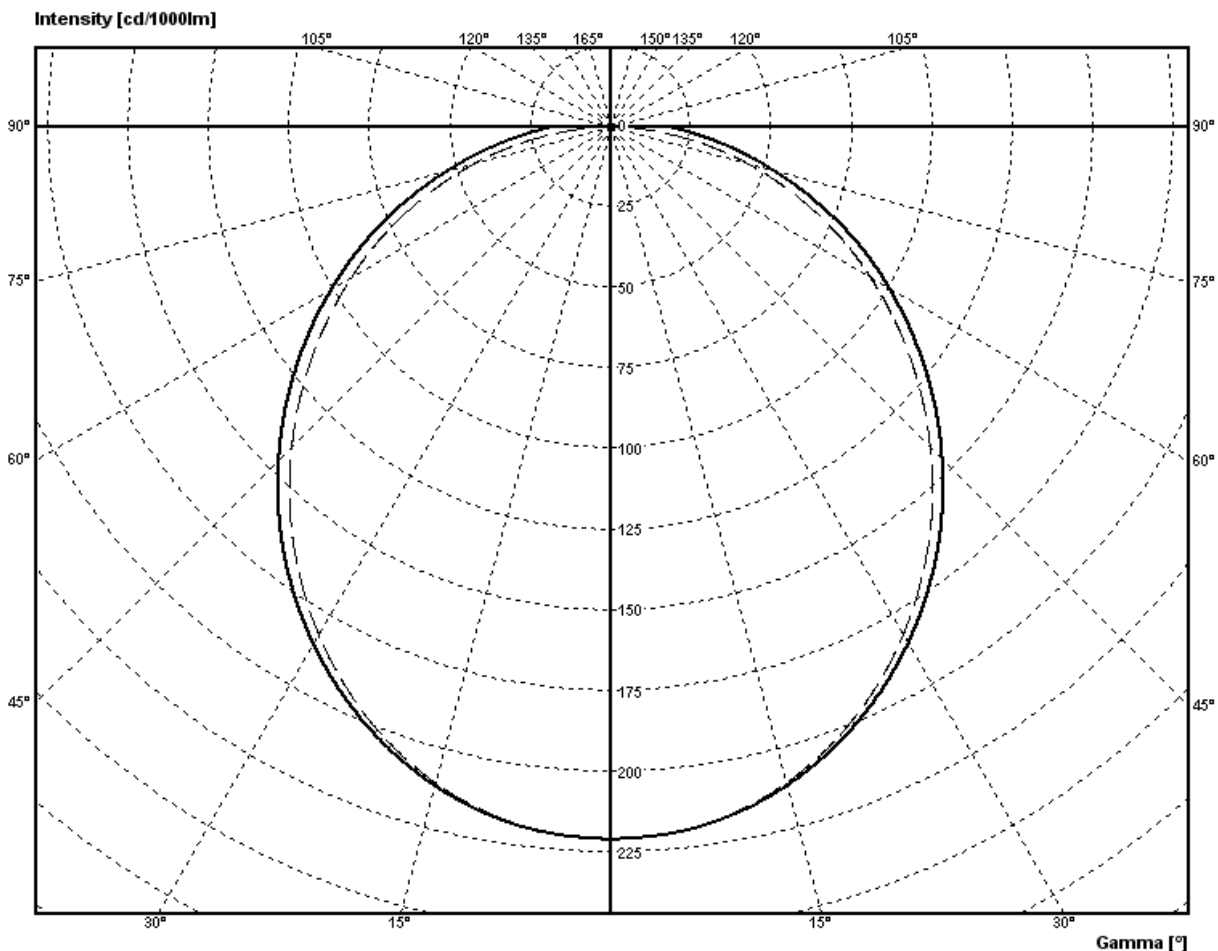
<b>C-planes:</b>	0,0°	15,0°	30,0°	45,0°	60,0°	75,0°	90,0°	105,0°	120,0°	135,0°
	150,0°	165,0°	180,0°	195,0°	210,0°	225,0°	240,0°	255,0°	270,0°	285,0°
	300,0°	315,0°	330,0°	345,0°						

<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°	

## PHOTOMETRIC RESULTS

Name:	REBA 50 /T EXT LINE L1140 SRT/END+INT SYM BFLEX 830 HO		
Number:	90507-83+90499L004	Diameter:	0 mm
Report:	24-01-2020	Length:	1140 mm
Meas.-no.:	01	Width:	70 mm
Lamp type:	LED 830 - 01	Height:	114 mm
Number:	01	Power:	28,70 W
Lamp flux:	4320,00 lm	Operator:	INDELAGUE GROUP
Date:	24-01-2020 14:11:52	Output ratio:	64,1 %

Polar diagram REBA 50 /T EXT LINE L1140 SRT/END+INT SYM BFLEX 830 HO / Direct  
in 15° C / 5° G



## PHOTOMETRIC RESULTS

<b>Name:</b>	REBA 50 /T EXT LINE L1140 SRT/END+INT SYM BFLEX 830 HO		
<b>Number:</b>	90507-83+90499L004	<b>Diameter:</b>	0 mm
<b>Report:</b>	24-01-2020	<b>Length:</b>	1140 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	70 mm
<b>Lamp type:</b>	LED 830 - 01	<b>Height:</b>	114 mm
<b>Number:</b>	01	<b>Power:</b>	28,70 W
<b>Lamp flux:</b>	4320,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	24-01-2020 14:11:52	<b>Output ratio:</b>	64,1 %

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

UGR values are corrected for lamp flux of 4320 lm by 5,1

## PHOTOMETRIC RESULTS

<b>Name:</b>	<b>REBA 50 /T EXT LINE L1140 SRT/END+INT SYM BFLEX 830 HO</b>		
<b>Number:</b>	90507-83+90499L004	<b>Diameter:</b>	0 mm
<b>Report:</b>	24-01-2020	<b>Length:</b>	1140 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	70 mm
<b>Lamp type:</b>	LED 830 - 01	<b>Height:</b>	114 mm
<b>Number:</b>	01	<b>Power:</b>	28,70 W
<b>Lamp flux:</b>	4320,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	24-01-2020 14:11:52	<b>Output ratio:</b>	64,1 %

Luminance [cd/m<sup>2</sup>] REBA 50 /T EXT LINE L1140 SRT/END+INT SYM BFLEX 830 HO//  
Direct 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	4953,64	5027,70	5342,04	6002,04	7203,58	9566,06	15045,8	9566,06	7203,58
50,00	4308,57	4375,24	4659,63	5244,74	6386,24	8660,90	14483,4	8660,90	6386,24
55,00	3708,15	3769,53	4017,61	4557,62	5576,65	7770,28	13866,2	7770,28	5576,65
60,00	3156,80	3203,64	3420,78	3885,95	4810,91	6837,26	13204,8	6837,26	4810,91
65,00	2632,70	2669,81	2851,59	3246,52	4051,31	5881,63	12449,7	5881,63	4051,31
70,00	2125,96	2155,34	2306,46	2629,56	3298,67	4887,46	11439,4	4887,46	3298,67
75,00	1652,57	1670,25	1777,17	2011,21	2526,22	3820,94	10220,4	3820,94	2526,22
80,00	1225,08	1231,22	1290,28	1423,92	1748,76	2648,38	8300,21	2648,38	1748,76
85,00	851,00	847,31	867,28	904,88	1031,28	1423,31	4966,01	1423,31	1031,28

G/C [cd/	135,00	150,00	165,00	180,00	195,00	210,00	225,00	240,00	255,00
45,00	6002,04	5342,04	5027,70	4953,64	5027,70	5342,04	6002,04	7203,58	9566,06
50,00	5244,74	4659,63	4375,24	4308,57	4375,24	4659,63	5244,74	6386,24	8660,90
55,00	4557,62	4017,61	3769,53	3708,15	3769,53	4017,61	4557,62	5576,65	7770,28
60,00	3885,95	3420,78	3203,64	3156,80	3203,64	3420,78	3885,95	4810,91	6837,26
65,00	3246,52	2851,59	2669,81	2632,70	2669,81	2851,59	3246,52	4051,31	5881,63
70,00	2629,56	2306,46	2155,34	2125,96	2155,34	2306,46	2629,56	3298,67	4887,46
75,00	2011,21	1777,17	1670,25	1652,57	1670,25	1777,17	2011,21	2526,22	3820,94
80,00	1423,92	1290,28	1231,22	1225,08	1231,22	1290,28	1423,92	1748,76	2648,38
85,00	904,88	867,28	847,31	851,00	847,31	867,28	904,88	1031,28	1423,31

G/C [cd/	270,00	285,00	300,00	315,00	330,00	345,00
45,00	15045,8	9566,06	7203,58	6002,04	5342,04	5027,70
50,00	14483,4	8660,90	6386,24	5244,74	4659,63	4375,24
55,00	13866,2	7770,28	5576,65	4557,62	4017,61	3769,53
60,00	13204,8	6837,26	4810,91	3885,95	3420,78	3203,64
65,00	12449,7	5881,63	4051,31	3246,52	2851,59	2669,81
70,00	11439,4	4887,46	3298,67	2629,56	2306,46	2155,34
75,00	10220,4	3820,94	2526,22	2011,21	1777,17	1670,25
80,00	8300,21	2648,38	1748,76	1423,92	1290,28	1231,22
85,00	4966,01	1423,31	1031,28	904,88	867,28	847,31

## 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