

## PHOTOMETRIC RESULTS

<b>Name:</b>	REBA 50 /E EXT L0590+INT SYM BLINE 830 HO		
<b>Number:</b>	90520+90497L002	<b>Diameter:</b>	0 mm
<b>Report:</b>	24-01-2020	<b>Length:</b>	590 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	62 mm
<b>Lamp type:</b>	LED 830 - 01	<b>Height:</b>	72 mm
<b>Number:</b>	1	<b>Power:</b>	14,71 W
<b>Lamp flux:</b>	2160,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	24-01-2020 9:05:06	<b>Output ratio:</b>	63,5 %

## Protocol

**LiTG-class:** A40  
**UTE-class:** 0,64 E  
**IES-class:** 49 - 80 - 96 - 100 - 64  
**TM5-class:** BZ5/0.75/BZ4

## Divergences in the plane through maximum intensity:

	Horizontal	Vertical
One half peak divergence	102,5°	102,0°
Half peak side angle (left)	-51,3°	-51,0°
Half peak side angle (right)	51,3°	51,0°
One tenth peak divergence	156,9°	160,8°
Tenth peak side angle (left)	-78,4°	-80,4°
Tenth peak side angle (right)	78,4°	80,4°

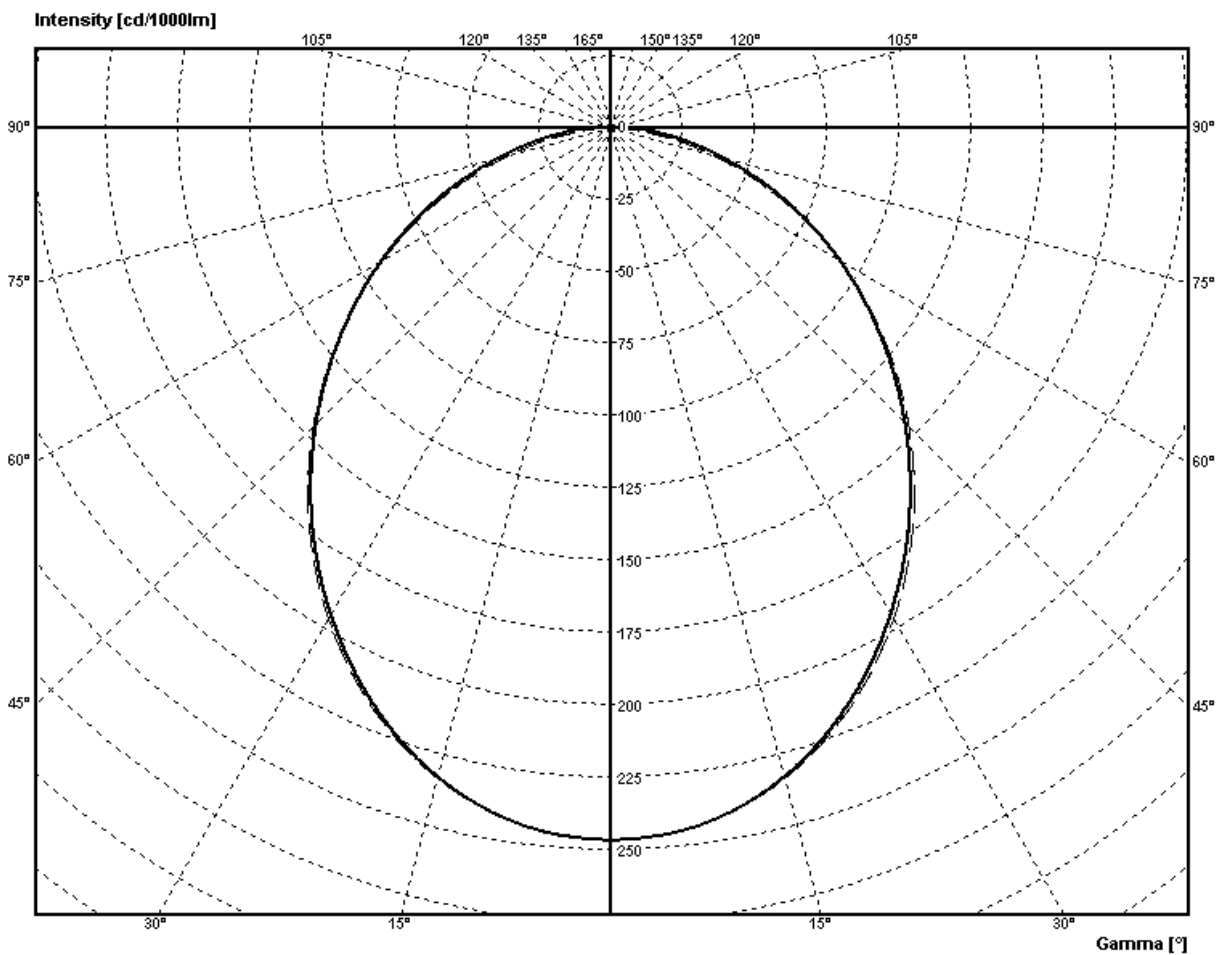
<b>C-planes:</b>	0,0°	15,0°	30,0°	45,0°	60,0°	75,0°	90,0°	105,0°	120,0°	135,0°
	150,0°	165,0°	180,0°	195,0°	210,0°	225,0°	240,0°	255,0°	270,0°	285,0°
	300,0°	315,0°	330,0°	345,0°						

<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 /E EXT L0590+INT SYM BLINE 830 HO		
Number:	90520+90497L002	Diameter:	0 mm
Report:	24-01-2020	Length:	590 mm
Meas.-no.:	01	Width:	62 mm
Lamp type:	LED 830 - 01	Height:	72 mm
Number:	1	Power:	14,71 W
Lamp flux:	2160,00 lm	Operator:	INDELAGUE GROUP
Date:	24-01-2020 9:05:06	Output ratio:	63,5 %

Polar diagram REBA 50 /E EXT L0590+INT SYM BLINE 830 HO / Direct in 15° C / 5° 



## PHOTOMETRIC RESULTS

<b>Name:</b>	REBA 50 /E EXT L0590+INT SYM BLINE 830 HO		
<b>Number:</b>	90520+90497L002	<b>Diameter:</b>	0 mm
<b>Report:</b>	24-01-2020	<b>Length:</b>	590 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	62 mm
<b>Lamp type:</b>	LED 830 - 01	<b>Height:</b>	72 mm
<b>Number:</b>	1	<b>Power:</b>	14,71 W
<b>Lamp flux:</b>	2160,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	24-01-2020 9:05:06	<b>Output ratio:</b>	63,5 %

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

UGR values are corrected for lamp flux of 2160 lm by 2,7

## PHOTOMETRIC RESULTS

<b>Name:</b>	REBA 50 /E EXT L0590+INT SYM BLINE 830 HO		
<b>Number:</b>	90520+90497L002	<b>Diameter:</b>	0 mm
<b>Report:</b>	24-01-2020	<b>Length:</b>	590 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	62 mm
<b>Lamp type:</b>	LED 830 - 01	<b>Height:</b>	72 mm
<b>Number:</b>	1	<b>Power:</b>	14,71 W
<b>Lamp flux:</b>	2160,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	24-01-2020 9:05:06	<b>Output ratio:</b>	63,5 %

Luminance [cd/m<sup>2</sup>] REBA 50 /E EXT L0590+INT SYM BLINE 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	6645,51	6705,45	7070,83	7812,78	9106,50	11280,7	15274,4	11280,7	9106,50
50,00	5747,00	5795,12	6137,92	6833,18	8054,60	10203,6	14415,4	10203,6	8054,60
55,00	4912,88	4956,52	5260,28	5895,89	7026,36	9104,09	13478,2	9104,09	7026,36
60,00	4124,47	4157,00	4426,64	4982,97	6018,68	7955,37	12451,1	7955,37	6018,68
65,00	3361,46	3383,70	3613,81	4091,98	4985,07	6732,24	11235,4	6732,24	4985,07
70,00	2623,40	2644,26	2817,43	3191,07	3923,40	5411,31	9717,22	5411,31	3923,40
75,00	1908,77	1912,67	2036,72	2304,05	2842,64	3972,30	7842,88	3972,30	2842,64
80,00	1248,48	1239,96	1318,21	1461,82	1783,25	2488,91	5441,71	2488,91	1783,25
85,00	694,81	673,69	711,51	740,51	881,80	1137,98	2718,22	1137,98	881,80

G/C [cd/	135,00	150,00	165,00	180,00	195,00	210,00	225,00	240,00	255,00
45,00	7812,78	7070,83	6705,45	6645,51	6705,45	7070,83	7812,78	9106,50	11280,7
50,00	6833,18	6137,92	5795,12	5747,00	5795,12	6137,92	6833,18	8054,60	10203,6
55,00	5895,89	5260,28	4956,52	4912,88	4956,52	5260,28	5895,89	7026,36	9104,09
60,00	4982,97	4426,64	4157,00	4124,47	4157,00	4426,64	4982,97	6018,68	7955,37
65,00	4091,98	3613,81	3383,70	3361,46	3383,70	3613,81	4091,98	4985,07	6732,24
70,00	3191,07	2817,43	2644,26	2623,40	2644,26	2817,43	3191,07	3923,40	5411,31
75,00	2304,05	2036,72	1912,67	1908,77	1912,67	2036,72	2304,05	2842,64	3972,30
80,00	1461,82	1318,21	1239,96	1248,48	1239,96	1318,21	1461,82	1783,25	2488,91
85,00	740,51	711,51	673,69	694,81	673,69	711,51	740,51	881,80	1137,98

G/C [cd/	270,00	285,00	300,00	315,00	330,00	345,00
45,00	15274,4	11280,7	9106,50	7812,78	7070,83	6705,45
50,00	14415,4	10203,6	8054,60	6833,18	6137,92	5795,12
55,00	13478,2	9104,09	7026,36	5895,89	5260,28	4956,52
60,00	12451,1	7955,37	6018,68	4982,97	4426,64	4157,00
65,00	11235,4	6732,24	4985,07	4091,98	3613,81	3383,70
70,00	9717,22	5411,31	3923,40	3191,07	2817,43	2644,26
75,00	7842,88	3972,30	2842,64	2304,05	2036,72	1912,67
80,00	5441,71	2488,91	1783,25	1461,82	1318,21	1239,96
85,00	2718,22	1137,98	881,80	740,51	711,51	673,69

## 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