

## PHOTOMETRIC RESULTS

<b>Name:</b>	<b>REBA 35 LED L1128 bLINE HF 840 Z</b>		
<b>Number:</b>	01	<b>Diameter:</b>	0 mm
<b>Report:</b>	13-03-2019	<b>Length:</b>	1128 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	35 mm
<b>Lamp type:</b>	LED 840 - 01	<b>Height:</b>	100 mm
<b>Number:</b>	1	<b>Power:</b>	32,11 W
<b>Lamp flux:</b>	4988,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	13-03-2019 10:32:10	<b>Output ratio:</b>	58,7 %

## Protocol

**LiTG-class:** A40  
**UTE-class:** 0,59 D  
**IES-class:** 51 - 82 - 96 - 100 - 59  
**TM5-class:** BZ4

<b>Divergences in the plane through maximum intensity:</b>	Horizontal	Vertical
<b>One half peak divergence</b>	100,8°	95,5°
<b>Half peak side angle (left)</b>	-50,4°	-47,7°
<b>Half peak side angle (right)</b>	50,4°	47,7°
<b>One tenth peak divergence</b>	156,3°	154,7°
<b>Tenth peak side angle (left)</b>	-78,1°	-77,4°
<b>Tenth peak side angle (right)</b>	78,1°	77,4°

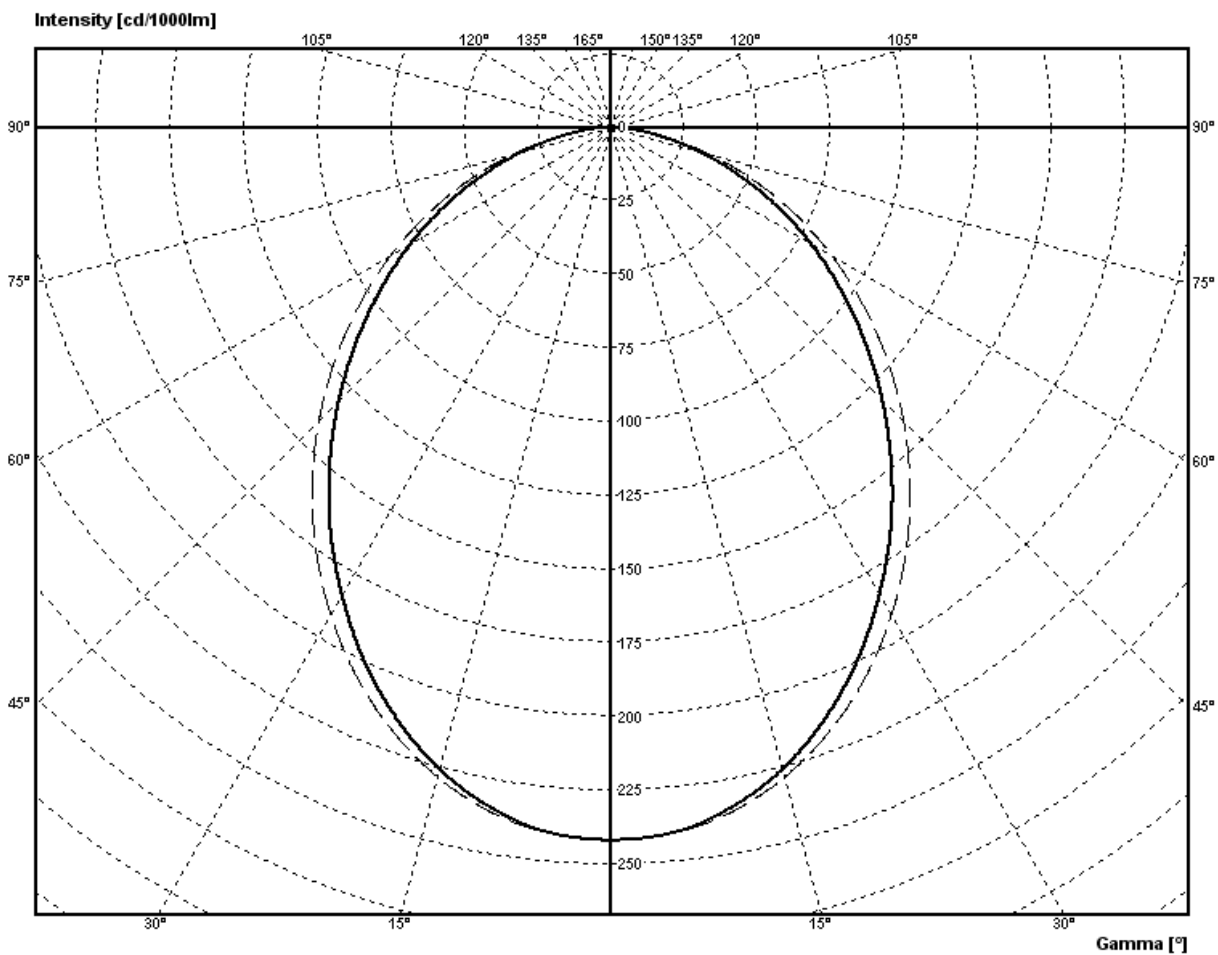
<b>C-planes:</b>	0,0°	15,0°	30,0°	45,0°	60,0°	75,0°	90,0°	105,0°	120,0°	135,0°
	150,0°	165,0°	180,0°	195,0°	210,0°	225,0°	240,0°	255,0°	270,0°	285,0°
	300,0°	315,0°	330,0°	345,0°						

<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 35 LED L1128 bLINE HF 840 Z		
Number:	01	Diameter:	0 mm
Report:	13-03-2019	Length:	1128 mm
Meas.-no.:	01	Width:	35 mm
Lamp type:	LED 840 - 01	Height:	100 mm
Number:	1	Power:	32,11 W
Lamp flux:	4988,00 lm	Operator:	INDELAGUE GROUP
Date:	13-03-2019 10:32:10	Output ratio:	58,7 %

Polar diagram REBA 35 LED L1128 bLINE HF 840 Z / Direct in 15° C / 5° G



## PHOTOMETRIC RESULTS

<b>Name:</b>	<b>REBA 35 LED L1128 bLINE HF 840 Z</b>		
<b>Number:</b>	01	<b>Diameter:</b>	0 mm
<b>Report:</b>	13-03-2019	<b>Length:</b>	1128 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	35 mm
<b>Lamp type:</b>	LED 840 - 01	<b>Height:</b>	100 mm
<b>Number:</b>	1	<b>Power:</b>	32,11 W
<b>Lamp flux:</b>	4988,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	13-03-2019 10:32:10	<b>Output ratio:</b>	58,7 %

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

UGR values are corrected for lamp flux of 4988 lm by 5,6

## PHOTOMETRIC RESULTS

<b>Name:</b>	<b>REBA 35 LED L1128 bLINE HF 840 Z</b>		
<b>Number:</b>	01	<b>Diameter:</b>	0 mm
<b>Report:</b>	13-03-2019	<b>Length:</b>	1128 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	35 mm
<b>Lamp type:</b>	LED 840 - 01	<b>Height:</b>	100 mm
<b>Number:</b>	1	<b>Power:</b>	32,11 W
<b>Lamp flux:</b>	4988,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	13-03-2019 10:32:10	<b>Output ratio:</b>	58,7 %

Luminance [cd/m<sup>2</sup>] REBA 35 LED L1128 bLINE HF 840 Z / 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	6366,13	6524,82	7142,71	8372,67	10647,3	15259,2	27970,5	15259,2	10647,3
50,00	5265,47	5407,12	5943,91	7028,93	9067,69	13362,3	26389,9	13362,3	9067,69
55,00	4301,01	4426,69	4881,94	5810,56	7603,65	11523,8	24711,7	11523,8	7603,65
60,00	3448,62	3547,00	3931,11	4708,54	6239,11	9709,66	22928,4	9709,66	6239,11
65,00	2663,92	2743,52	3045,40	3687,24	4949,37	7908,81	20816,8	7908,81	4949,37
70,00	1949,88	2003,95	2242,34	2719,67	3699,89	6073,02	18241,2	6073,02	3699,89
75,00	1300,24	1332,63	1498,84	1825,03	2515,37	4234,80	14991,4	4234,80	2515,37
80,00	738,28	745,85	846,57	1026,04	1433,53	2485,97	10862,3	2485,97	1433,53
85,00	300,47	290,19	334,07	396,24	571,56	992,15	5961,97	992,15	571,56

G/C [cd/	135,00	150,00	165,00	180,00	195,00	210,00	225,00	240,00	255,00
45,00	8372,67	7142,71	6524,82	6366,13	6524,82	7142,71	8372,67	10647,3	15259,2
50,00	7028,93	5943,91	5407,12	5265,47	5407,12	5943,91	7028,93	9067,69	13362,3
55,00	5810,56	4881,94	4426,69	4301,01	4426,69	4881,94	5810,56	7603,65	11523,8
60,00	4708,54	3931,11	3547,00	3448,62	3547,00	3931,11	4708,54	6239,11	9709,66
65,00	3687,24	3045,40	2743,52	2663,92	2743,52	3045,40	3687,24	4949,37	7908,81
70,00	2719,67	2242,34	2003,95	1949,88	2003,95	2242,34	2719,67	3699,89	6073,02
75,00	1825,03	1498,84	1332,63	1300,24	1332,63	1498,84	1825,03	2515,37	4234,80
80,00	1026,04	846,57	745,85	738,28	745,85	846,57	1026,04	1433,53	2485,97
85,00	396,24	334,07	290,19	300,47	290,19	334,07	396,24	571,56	992,15

G/C [cd/	270,00	285,00	300,00	315,00	330,00	345,00
45,00	27970,5	15259,2	10647,3	8372,67	7142,71	6524,82
50,00	26389,9	13362,3	9067,69	7028,93	5943,91	5407,12
55,00	24711,7	11523,8	7603,65	5810,56	4881,94	4426,69
60,00	22928,4	9709,66	6239,11	4708,54	3931,11	3547,00
65,00	20816,8	7908,81	4949,37	3687,24	3045,40	2743,52
70,00	18241,2	6073,02	3699,89	2719,67	2242,34	2003,95
75,00	14991,4	4234,80	2515,37	1825,03	1498,84	1332,63
80,00	10862,3	2485,97	1433,53	1026,04	846,57	745,85
85,00	5961,97	992,15	571,56	396,24	334,07	290,19

## 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