

## PHOTOMETRIC RESULTS

<b>Name:</b>	<b>REBA 35 LED L1688 bLINE HF 840 Z</b>		
<b>Number:</b>	01	<b>Diameter:</b>	0 mm
<b>Report:</b>	14-03-2019	<b>Length:</b>	1688 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>	47,23 W
<b>Lamp flux:</b>	7482,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	14-03-2019 10:54:58	<b>Output ratio:</b>	57,2 %

## Protocol

**LiTG-class:** A40  
**UTE-class:** 0,57 D  
**IES-class:** 51 - 81 - 96 - 100 - 57  
**TM5-class:** BZ4

<b>Divergences in the plane through maximum intensity:</b>	Horizontal	Vertical
<b>One half peak divergence</b>	102,2°	96,8°
<b>Half peak side angle (left)</b>	-51,1°	-48,4°
<b>Half peak side angle (right)</b>	51,1°	48,4°
<b>One tenth peak divergence</b>	157,0°	155,5°
<b>Tenth peak side angle (left)</b>	-78,5°	-77,8°
<b>Tenth peak side angle (right)</b>	78,5°	77,8°

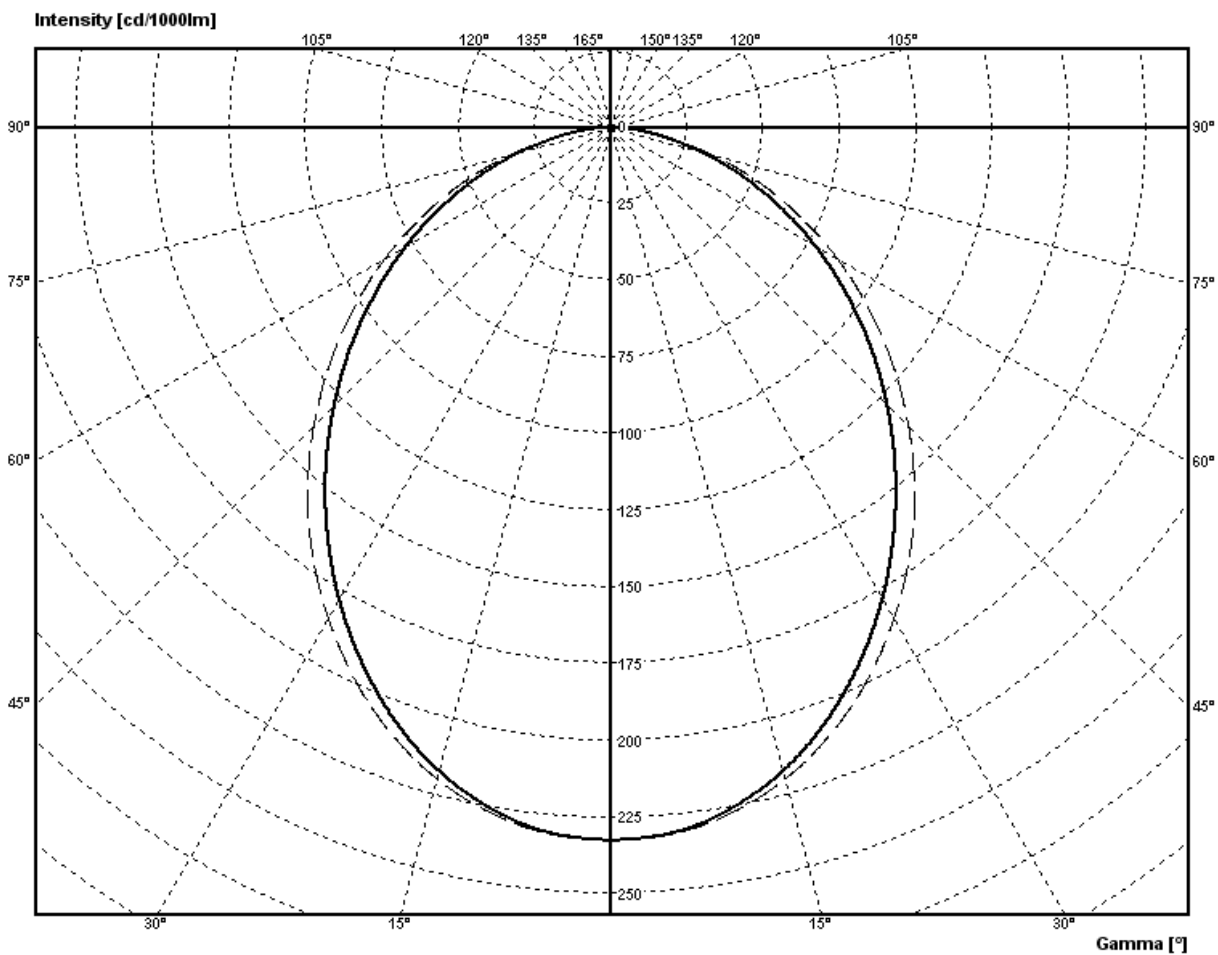
<b>C-planes:</b>	0,0°	15,0°	30,0°	45,0°	60,0°	75,0°	90,0°	105,0°	120,0°	135,0°
	150,0°	165,0°	180,0°	195,0°	210,0°	225,0°	240,0°	255,0°	270,0°	285,0°
	300,0°	315,0°	330,0°	345,0°						

<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 L1688 bLINE HF 840 Z		
Number:	01	Diameter:	0 mm
Report:	14-03-2019	Length:	1688 mm
Meas.-no.:	01	Width:	35 mm
Lamp type:	LED 840 - 01	Height:	100 mm
Number:	1	Power:	47,23 W
Lamp flux:	7482,00 lm	Operator:	INDELAGUE GROUP
Date:	14-03-2019 10:54:58	Output ratio:	57,2 %

Polar diagram REBA 35 LED L1688 bLINE HF 840 Z / Direct in 15° C / 5° G



## PHOTOMETRIC RESULTS

<b>Name:</b>	<b>REBA 35 LED L1688 bLINE HF 840 Z</b>		
<b>Number:</b>	01	<b>Diameter:</b>	0 mm
<b>Report:</b>	14-03-2019	<b>Length:</b>	1688 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>	47,23 W
<b>Lamp flux:</b>	7482,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	14-03-2019 10:54:58	<b>Output ratio:</b>	57,2 %

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

UGR values are corrected for lamp flux of 7482 lm by 7,0

## PHOTOMETRIC RESULTS

<b>Name:</b>	<b>REBA 35 LED L1688 bLINE HF 840 Z</b>		
<b>Number:</b>	01	<b>Diameter:</b>	0 mm
<b>Report:</b>	14-03-2019	<b>Length:</b>	1688 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>	47,23 W
<b>Lamp flux:</b>	7482,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	14-03-2019 10:54:58	<b>Output ratio:</b>	57,2 %

Luminance [cd/m<sup>2</sup>] REBA 35 LED L1688 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	6226,26	6394,61	7004,47	8218,79	10507,6	15138,5	28105,5	15138,5	10507,6
50,00	5171,87	5312,27	5844,70	6925,46	8970,58	13317,7	26753,4	13317,7	8970,58
55,00	4231,89	4358,52	4809,44	5748,45	7557,50	11529,0	25305,4	11529,0	7557,50
60,00	3398,02	3479,52	3884,39	4667,93	6225,75	9754,75	23702,5	9754,75	6225,75
65,00	2630,68	2713,45	3023,53	3666,25	4938,78	7973,74	21773,2	7973,74	4938,78
70,00	1939,22	1997,43	2232,99	2721,59	3711,19	6166,16	19458,2	6166,16	3711,19
75,00	1300,03	1331,22	1498,00	1824,12	2530,20	4297,38	16380,9	4297,38	2530,20
80,00	749,59	751,27	849,07	1035,02	1447,53	2529,67	12377,6	2529,67	1447,53
85,00	320,69	297,33	338,49	405,44	578,68	1004,38	7320,29	1004,38	578,68

G/C [cd/	135,00	150,00	165,00	180,00	195,00	210,00	225,00	240,00	255,00
45,00	8218,79	7004,47	6394,61	6226,26	6394,61	7004,47	8218,79	10507,6	15138,5
50,00	6925,46	5844,70	5312,27	5171,87	5312,27	5844,70	6925,46	8970,58	13317,7
55,00	5748,45	4809,44	4358,52	4231,89	4358,52	4809,44	5748,45	7557,50	11529,0
60,00	4667,93	3884,39	3479,52	3398,02	3479,52	3884,39	4667,93	6225,75	9754,75
65,00	3666,25	3023,53	2713,45	2630,68	2713,45	3023,53	3666,25	4938,78	7973,74
70,00	2721,59	2232,99	1997,43	1939,22	1997,43	2232,99	2721,59	3711,19	6166,16
75,00	1824,12	1498,00	1331,22	1300,03	1331,22	1498,00	1824,12	2530,20	4297,38
80,00	1035,02	849,07	751,27	749,59	751,27	849,07	1035,02	1447,53	2529,67
85,00	405,44	338,49	297,33	320,69	297,33	338,49	405,44	578,68	1004,38

G/C [cd/	270,00	285,00	300,00	315,00	330,00	345,00
45,00	28105,5	15138,5	10507,6	8218,79	7004,47	6394,61
50,00	26753,4	13317,7	8970,58	6925,46	5844,70	5312,27
55,00	25305,4	11529,0	7557,50	5748,45	4809,44	4358,52
60,00	23702,5	9754,75	6225,75	4667,93	3884,39	3479,52
65,00	21773,2	7973,74	4938,78	3666,25	3023,53	2713,45
70,00	19458,2	6166,16	3711,19	2721,59	2232,99	1997,43
75,00	16380,9	4297,38	2530,20	1824,12	1498,00	1331,22
80,00	12377,6	2529,67	1447,53	1035,02	849,07	751,27
85,00	7320,29	1004,38	578,68	405,44	338,49	297,33

## 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