

**PHOTOMETRIC RESULTS**

<b>Name:</b>	<b>REBA LED Line 47W bLINE [1402mm]</b>		
<b>Number:</b>	01	<b>Diameter:</b>	0 mm
<b>Report:</b>	03-02-2017	<b>Length:</b>	1402 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	50 mm
<b>Lamp type:</b>	LED 840 - 01	<b>Height:</b>	70 mm
<b>Number:</b>	1	<b>Power:</b>	46,98 W
<b>Lamp flux:</b>	6450,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	03-02-2017 14:21:42	<b>Output ratio:</b>	57,5 %

**Protocol**

**LiTG-class:** A40  
**UTE-class:** 0,58 E  
**IES-class:** 50 - 81 - 96 - 100 - 58  
**TM5-class:** BZ4

**Divergences in the plane through maximum intensity:**

	Horizontal	Vertical
<b>One half peak divergence</b>	103,4°	98,8°
<b>Half peak side angle (left)</b>	-51,7°	-49,4°
<b>Half peak side angle (right)</b>	51,7°	49,4°
<b>One tenth peak divergence</b>	158,6°	157,6°
<b>Tenth peak side angle (left)</b>	-79,3°	-78,8°
<b>Tenth peak side angle (right)</b>	79,3°	78,8°

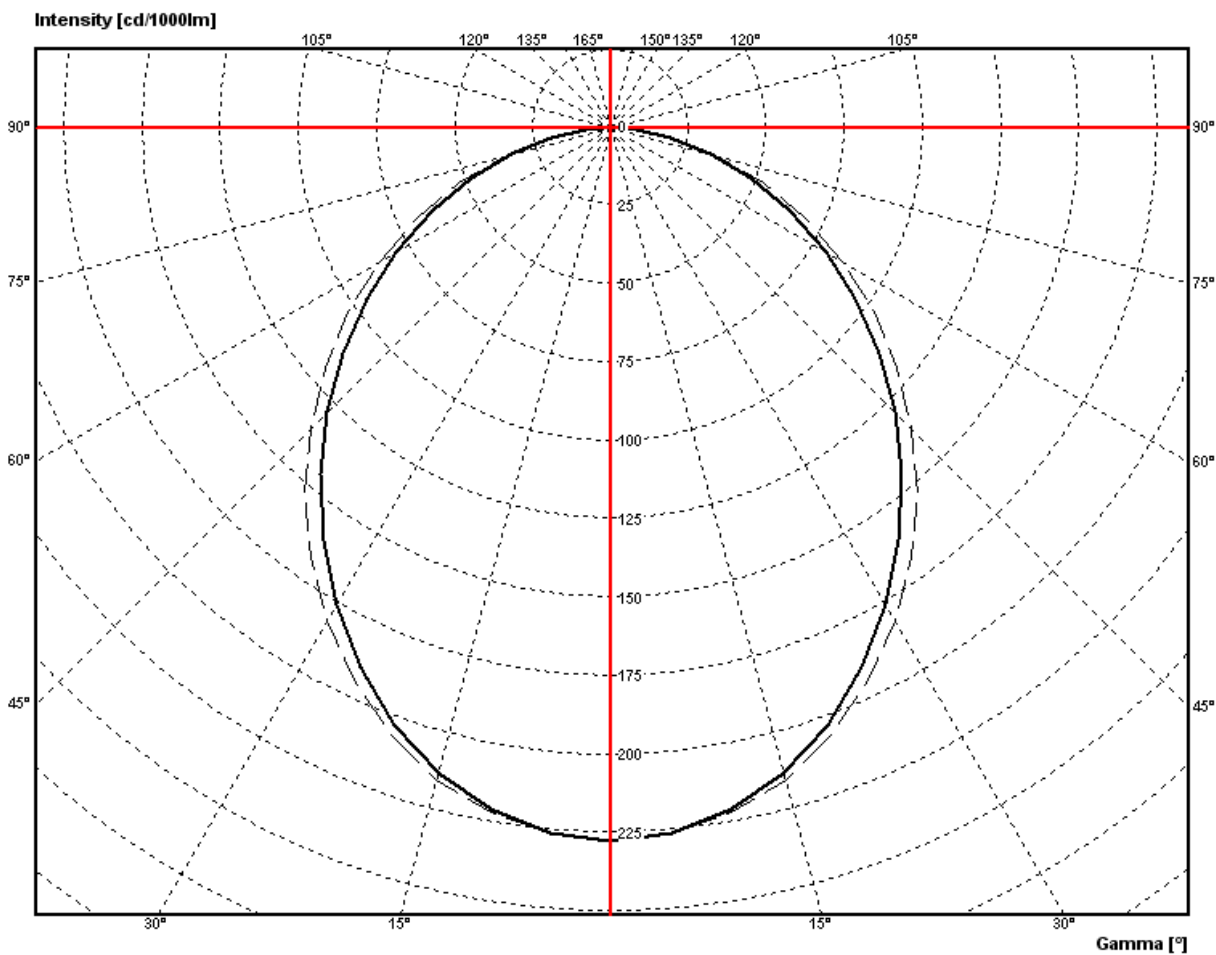
<b>C-planes:</b>	0,0°	15,0°	30,0°	45,0°	60,0°	75,0°	90,0°	105,0°	120,0°	135,0°
	150,0°	165,0°	180,0°	195,0°	210,0°	225,0°	240,0°	255,0°	270,0°	285,0°
	300,0°	315,0°	330,0°	345,0°						

<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**

<b>Name:</b>	REBA LED Line 47W bLINE [1402mm]		
<b>Number:</b>	01	<b>Diameter:</b>	0 mm
<b>Report:</b>	03-02-2017	<b>Length:</b>	1402 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	50 mm
<b>Lamp type:</b>	LED 840 - 01	<b>Height:</b>	70 mm
<b>Number:</b>	1	<b>Power:</b>	46,98 W
<b>Lamp flux:</b>	6450,00 lm	<b>Operator:</b>	INDELAGUE GROUP
<b>Date:</b>	03-02-2017 14:21:42	<b>Output ratio:</b>	57,5 %

Polar diagram REBA LED Line 47W bLINE [1402mm] / Direct in 15° C / 5° G



**PHOTOMETRIC RESULTS**

<b>Name:</b>	<b>REBA LED Line 47W bLINE [1402mm]</b>		
<b>Number:</b>	01	<b>Diameter:</b>	0 mm
<b>Report:</b>	03-02-2017	<b>Length:</b>	1402 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	50 mm
<b>Lamp type:</b>	LED 840 - 01	<b>Height:</b>	70 mm
<b>Number:</b>	1	<b>Power:</b>	46,98 W
<b>Lamp flux:</b>	6450,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	03-02-2017 14:21:42	<b>Output ratio:</b>	57,5 %

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

UGR values are corrected for lamp flux of 6450 lm by 6,5

**PHOTOMETRIC RESULTS**

<b>Name:</b>	<b>REBA LED Line 47W bLINE [1402mm]</b>		
<b>Number:</b>	01	<b>Diameter:</b>	0 mm
<b>Report:</b>	03-02-2017	<b>Length:</b>	1402 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	50 mm
<b>Lamp type:</b>	LED 840 - 01	<b>Height:</b>	70 mm
<b>Number:</b>	1	<b>Power:</b>	46,98 W
<b>Lamp flux:</b>	6450,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	03-02-2017 14:21:42	<b>Output ratio:</b>	57,5 %

Luminance [cd/m<sup>2</sup>] REBA LED Line 47W bLINE [1402mm] / 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	7186,90	7325,93	7849,04	8838,59	10519,9	13286,7	18314,3	13286,7	10519,9
50,00	6173,76	6296,57	6794,98	7725,19	9333,81	12118,7	17544,1	12118,7	9333,81
55,00	5233,74	5345,61	5795,21	6653,39	8178,41	10905,4	16682,9	10905,4	8178,41
60,00	4350,20	4444,34	4845,99	5613,43	7017,90	9644,58	15746,9	9644,58	7017,90
65,00	3491,07	3579,79	3921,07	4590,93	5836,03	8277,24	14645,2	8277,24	5836,03
70,00	2681,92	2744,90	3017,67	3563,79	4609,09	6780,29	13282,1	6780,29	4609,09
75,00	1896,54	1941,70	2140,98	2552,01	3357,18	5138,10	11542,8	5138,10	3357,18
80,00	1165,47	1189,08	1321,98	1571,95	2116,98	3359,90	9278,58	3359,90	2116,98
85,00	529,60	520,06	588,69	697,72	969,45	1586,04	6315,56	1586,04	969,45

G/C [cd/	135,00	150,00	165,00	180,00	195,00	210,00	225,00	240,00	255,00
45,00	8838,59	7849,04	7325,93	7186,90	7325,93	7849,04	8838,59	10519,9	13286,7
50,00	7725,19	6794,98	6296,57	6173,76	6296,57	6794,98	7725,19	9333,81	12118,7
55,00	6653,39	5795,21	5345,61	5233,74	5345,61	5795,21	6653,39	8178,41	10905,4
60,00	5613,43	4845,99	4444,34	4350,20	4444,34	4845,99	5613,43	7017,90	9644,58
65,00	4590,93	3921,07	3579,79	3491,07	3579,79	3921,07	4590,93	5836,03	8277,24
70,00	3563,79	3017,67	2744,90	2681,92	2744,90	3017,67	3563,79	4609,09	6780,29
75,00	2552,01	2140,98	1941,70	1896,54	1941,70	2140,98	2552,01	3357,18	5138,10
80,00	1571,95	1321,98	1189,08	1165,47	1189,08	1321,98	1571,95	2116,98	3359,90
85,00	697,72	588,69	520,06	529,60	520,06	588,69	697,72	969,45	1586,04

G/C [cd/	270,00	285,00	300,00	315,00	330,00	345,00
45,00	18314,3	13286,7	10519,9	8838,59	7849,04	7325,93
50,00	17544,1	12118,7	9333,81	7725,19	6794,98	6296,57
55,00	16682,9	10905,4	8178,41	6653,39	5795,21	5345,61
60,00	15746,9	9644,58	7017,90	5613,43	4845,99	4444,34
65,00	14645,2	8277,24	5836,03	4590,93	3921,07	3579,79
70,00	13282,1	6780,29	4609,09	3563,79	3017,67	2744,90
75,00	11542,8	5138,10	3357,18	2552,01	2140,98	1941,70
80,00	9278,58	3359,90	2116,98	1571,95	1321,98	1189,08
85,00	6315,56	1586,04	969,45	697,72	588,69	520,06

## 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