

**PHOTOMETRIC RESULTS**

<b>Name:</b>	<b>REBA _E LED 30W bGLARE [1138mm]</b>		
<b>Number:</b>	01	<b>Diameter:</b>	0 mm
<b>Report:</b>	08-02-2018	<b>Length:</b>	1138 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	62 mm
<b>Lamp type:</b>	LED 840 - 01	<b>Height:</b>	85 mm
<b>Number:</b>	1	<b>Power:</b>	30,48 W
<b>Lamp flux:</b>	4052,00 lm	<b>Operator:</b>	INDELAGUE GROUP
<b>Date:</b>	08-02-2018 15:50:50	<b>Output ratio:</b>	61,1 %

**Protocol**

**LiTG-class:** A50  
**UTE-class:** 0,61 C  
**IES-class:** 65 - 90 - 98 - 100 - 61  
**TM5-class:** B22

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

	Horizontal	Vertical
<b>One half peak divergence</b>	75,5°	75,7°
<b>Half peak side angle (left)</b>	-37,8°	-37,9°
<b>Half peak side angle (right)</b>	37,8°	37,9°
<b>One tenth peak divergence</b>	128,6°	131,0°
<b>Tenth peak side angle (left)</b>	-64,3°	-65,5°
<b>Tenth peak side angle (right)</b>	64,3°	65,5°

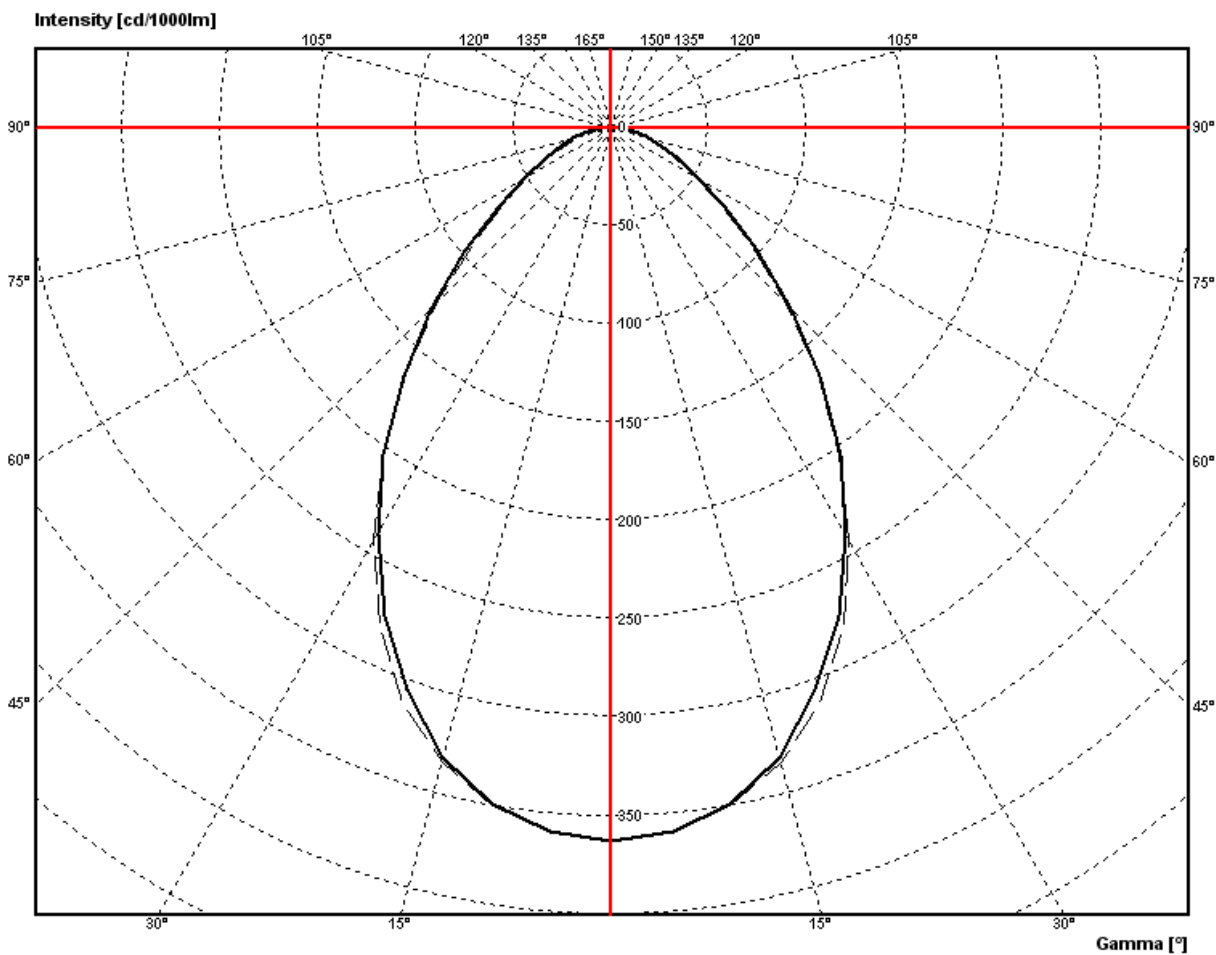
<b>C-planes:</b>	0,0°	15,0°	30,0°	45,0°	60,0°	75,0°	90,0°	105,0°	120,0°	135,0°
	150,0°	165,0°	180,0°	195,0°	210,0°	225,0°	240,0°	255,0°	270,0°	285,0°
	300,0°	315,0°	330,0°	345,0°						

<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 _E LED 30W bGLARE [1138mm]		
Number:	01	Diameter:	0 mm
Report:	08-02-2018	Length:	1138 mm
Meas.-no.:	01	Width:	62 mm
Lamp type:	LED 840 - 01	Height:	85 mm
Number:	1	Power:	30,48 W
Lamp flux:	4052,00 lm	Operator:	INDELAGUE GROUP
Date:	08-02-2018 15:50:50	Output ratio:	61,1 %

Polar diagram REBA \_E LED 30W bGLARE [1138mm] / Direct in 15° C / 5° G



**PHOTOMETRIC RESULTS**

<b>Name:</b>	<b>REBA _E LED 30W bGLARE [1138mm]</b>		
<b>Number:</b>	01	<b>Diameter:</b>	0 mm
<b>Report:</b>	08-02-2018	<b>Length:</b>	1138 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	62 mm
<b>Lamp type:</b>	LED 840 - 01	<b>Height:</b>	85 mm
<b>Number:</b>	1	<b>Power:</b>	30,48 W
<b>Lamp flux:</b>	4052,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	08-02-2018 15:50:50	<b>Output ratio:</b>	61,1 %

**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>		<b>Viewed crosswise</b>					<b>Viewed endwise</b>				
<b>2H</b>	<b>2H</b>	15,9	17,3	16,2	17,6	17,9	17,6	19,0	18,0	19,3	19,6
<b>2H</b>	<b>3H</b>	16,2	17,5	16,6	17,8	18,2	18,2	19,4	18,5	19,8	20,1
<b>2H</b>	<b>4H</b>	16,3	17,5	16,7	17,9	18,2	18,4	19,6	18,8	19,9	20,3
<b>2H</b>	<b>6H</b>	16,4	17,5	16,8	17,9	18,3	18,6	19,7	19,0	20,1	20,5
<b>2H</b>	<b>8H</b>	16,4	17,4	16,8	17,8	18,2	18,6	19,7	19,0	20,1	20,5
<b>2H</b>	<b>12H</b>	16,3	17,3	16,8	17,7	18,1	18,6	19,6	19,1	20,0	20,4
<b>4H</b>	<b>2H</b>	16,1	17,3	16,5	17,7	18,0	17,7	18,8	18,1	19,2	19,6
<b>4H</b>	<b>3H</b>	16,6	17,6	17,0	18,0	18,4	18,3	19,3	18,7	19,7	20,1
<b>4H</b>	<b>4H</b>	16,8	17,7	17,2	18,1	18,5	18,7	19,5	19,1	19,9	20,4
<b>4H</b>	<b>6H</b>	16,9	17,7	17,3	18,1	18,5	18,9	19,6	19,3	20,1	20,5
<b>4H</b>	<b>8H</b>	16,9	17,6	17,4	18,1	18,5	18,9	19,7	19,4	20,1	20,6
<b>4H</b>	<b>12H</b>	16,9	17,6	17,4	18,0	18,5	19,0	19,7	19,5	20,1	20,6
<b>8H</b>	<b>4H</b>	16,8	17,5	17,3	18,0	18,5	18,6	19,3	19,1	19,8	20,2
<b>8H</b>	<b>6H</b>	16,9	17,5	17,4	18,0	18,5	18,8	19,4	19,3	19,9	20,4
<b>8H</b>	<b>8H</b>	17,0	17,6	17,6	18,1	18,6	19,0	19,5	19,5	20,0	20,5
<b>8H</b>	<b>12H</b>	17,0	17,5	17,6	18,0	18,5	19,0	19,5	19,6	20,0	20,5
<b>12H</b>	<b>4H</b>	16,8	17,5	17,3	17,9	18,4	18,6	19,2	19,1	19,7	20,2
<b>12H</b>	<b>6H</b>	17,0	17,5	17,5	18,0	18,5	18,9	19,4	19,4	19,9	20,4
<b>12H</b>	<b>8H</b>	17,0	17,5	17,6	18,0	18,5	19,0	19,4	19,5	19,9	20,4

UGR values are corrected for lamp flux of 4052 lm by 4,9

**PHOTOMETRIC RESULTS**

<b>Name:</b>	<b>REBA _E LED 30W bGLARE [1138mm]</b>		
<b>Number:</b>	01	<b>Diameter:</b>	0 mm
<b>Report:</b>	08-02-2018	<b>Length:</b>	1138 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	62 mm
<b>Lamp type:</b>	LED 840 - 01	<b>Height:</b>	85 mm
<b>Number:</b>	1	<b>Power:</b>	30,48 W
<b>Lamp flux:</b>	4052,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	08-02-2018 15:50:50	<b>Output ratio:</b>	61,1 %

**Luminance [cd/m<sup>2</sup>] REBA \_E LED 30W bGLARE [1138mm] / 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	5047,61	5139,63	5593,25	6281,93	7303,05	9093,46	13036,9	9093,46	7303,05
50,00	3697,22	3794,12	4118,41	4645,28	5456,55	6903,74	10350,2	6903,74	5456,55
55,00	2642,62	2703,11	3018,66	3389,46	3984,51	5150,30	8211,36	5150,30	3984,51
60,00	1905,36	1920,03	2183,95	2443,76	2895,37	3862,31	6696,20	3862,31	2895,37
65,00	1396,05	1388,04	1544,74	1749,14	2105,19	2896,87	5489,15	2896,87	2105,19
70,00	1017,25	1030,91	1123,40	1258,22	1570,84	2208,23	4550,55	2208,23	1570,84
75,00	711,45	736,91	793,76	889,70	1140,67	1694,37	3950,50	1694,37	1140,67
80,00	461,73	462,99	518,41	564,10	749,10	1175,86	3261,48	1175,86	749,10
85,00	221,40	223,62	256,79	273,89	358,70	583,21	2263,09	583,21	358,70

G/C [cd/	135,00	150,00	165,00	180,00	195,00	210,00	225,00	240,00	255,00
45,00	6281,93	5593,25	5139,63	5047,61	5139,63	5593,25	6281,93	7303,05	9093,46
50,00	4645,28	4118,41	3794,12	3697,22	3794,12	4118,41	4645,28	5456,55	6903,74
55,00	3389,46	3018,66	2703,11	2642,62	2703,11	3018,66	3389,46	3984,51	5150,30
60,00	2443,76	2183,95	1920,03	1905,36	1920,03	2183,95	2443,76	2895,37	3862,31
65,00	1749,14	1544,74	1388,04	1396,05	1388,04	1544,74	1749,14	2105,19	2896,87
70,00	1258,22	1123,40	1030,91	1017,25	1030,91	1123,40	1258,22	1570,84	2208,23
75,00	889,70	793,76	736,91	711,45	736,91	793,76	889,70	1140,67	1694,37
80,00	564,10	518,41	462,99	461,73	462,99	518,41	564,10	749,10	1175,86
85,00	273,89	256,79	223,62	221,40	223,62	256,79	273,89	358,70	583,21

G/C [cd/	270,00	285,00	300,00	315,00	330,00	345,00
45,00	13036,9	9093,46	7303,05	6281,93	5593,25	5139,63
50,00	10350,2	6903,74	5456,55	4645,28	4118,41	3794,12
55,00	8211,36	5150,30	3984,51	3389,46	3018,66	2703,11
60,00	6696,20	3862,31	2895,37	2443,76	2183,95	1920,03
65,00	5489,15	2896,87	2105,19	1749,14	1544,74	1388,04
70,00	4550,55	2208,23	1570,84	1258,22	1123,40	1030,91
75,00	3950,50	1694,37	1140,67	889,70	793,76	736,91
80,00	3261,48	1175,86	749,10	564,10	518,41	462,99
85,00	2263,09	583,21	358,70	273,89	256,79	223,62

**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