

**PHOTOMETRIC RESULTS**

<b>Name:</b>	<b>REBA 65 LED 24W bGLARE [848mm]</b>		
<b>Number:</b>	01	<b>Diameter:</b>	0 mm
<b>Report:</b>	03-02-2017	<b>Length:</b>	848 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	65 mm
<b>Lamp type:</b>	LED 840 - 01	<b>Height:</b>	80 mm
<b>Number:</b>	1	<b>Power:</b>	23,89 W
<b>Lamp flux:</b>	3039,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	03-02-2017 9:19:52	<b>Output ratio:</b>	63,1 %

**Protocol**

**LiTG-class:** A50  
**UTE-class:** 0,63 C  
**IES-class:** 65 - 90 - 98 - 100 - 63  
**TM5-class:** B22

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

	Horizontal	Vertical
<b>One half peak divergence</b>	77,3°	76,6°
<b>Half peak side angle (left)</b>	-38,7°	-38,3°
<b>Half peak side angle (right)</b>	38,7°	38,3°
<b>One tenth peak divergence</b>	129,8°	132,1°
<b>Tenth peak side angle (left)</b>	-64,9°	-66,1°
<b>Tenth peak side angle (right)</b>	64,9°	66,1°

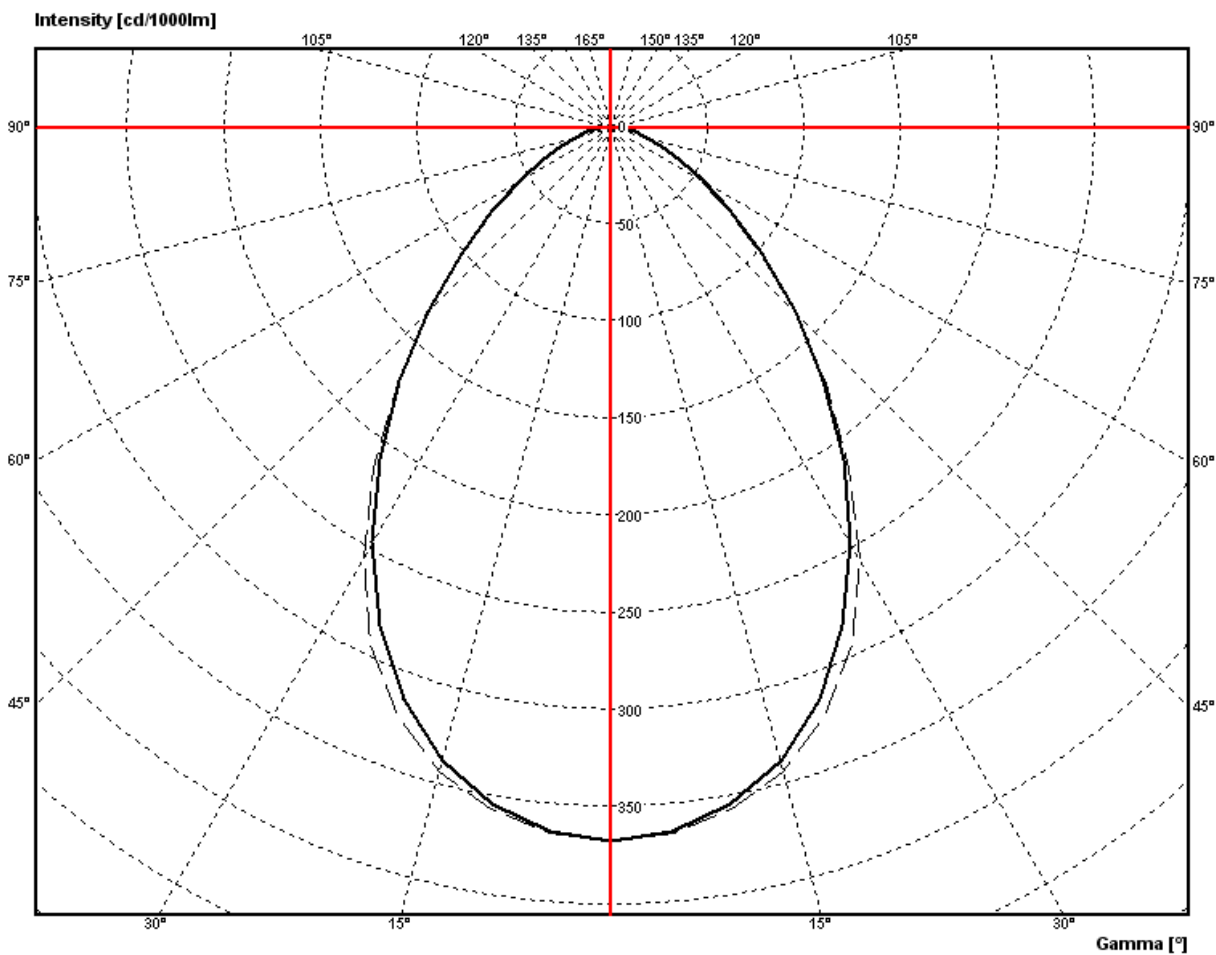
<b>C-planes:</b>	0,0°	15,0°	30,0°	45,0°	60,0°	75,0°	90,0°	105,0°	120,0°	135,0°
	150,0°	165,0°	180,0°	195,0°	210,0°	225,0°	240,0°	255,0°	270,0°	285,0°
	300,0°	315,0°	330,0°	345,0°						

<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>	<b>REBA 65 LED 24W bGLARE [848mm]</b>		
<b>Number:</b>	01	<b>Diameter:</b>	0 mm
<b>Report:</b>	03-02-2017	<b>Length:</b>	848 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	65 mm
<b>Lamp type:</b>	LED 840 - 01	<b>Height:</b>	80 mm
<b>Number:</b>	1	<b>Power:</b>	23,89 W
<b>Lamp flux:</b>	3039,00 lm	<b>Operator:</b>	INDELAGUE GROUP
<b>Date:</b>	03-02-2017 9:19:52	<b>Output ratio:</b>	63,1 %

Polar diagram REBA 65 LED 24W bGLARE [848mm] / Direct in 15° C / 5° G



**PHOTOMETRIC RESULTS**

<b>Name:</b>	<b>REBA 65 LED 24W bGLARE [848mm]</b>		
<b>Number:</b>	01	<b>Diameter:</b>	0 mm
<b>Report:</b>	03-02-2017	<b>Length:</b>	848 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	65 mm
<b>Lamp type:</b>	LED 840 - 01	<b>Height:</b>	80 mm
<b>Number:</b>	1	<b>Power:</b>	23,89 W
<b>Lamp flux:</b>	3039,00 lm	<b>Operator:</b>	INDELAGUE GROUP
<b>Date:</b>	03-02-2017 9:19:52	<b>Output ratio:</b>	63,1 %

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

UGR values are corrected for lamp flux of 3039 lm by 3,9

**PHOTOMETRIC RESULTS**

<b>Name:</b>	<b>REBA 65 LED 24W bGLARE [848mm]</b>		
<b>Number:</b>	01	<b>Diameter:</b>	0 mm
<b>Report:</b>	03-02-2017	<b>Length:</b>	848 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	65 mm
<b>Lamp type:</b>	LED 840 - 01	<b>Height:</b>	80 mm
<b>Number:</b>	1	<b>Power:</b>	23,89 W
<b>Lamp flux:</b>	3039,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	03-02-2017 9:19:52	<b>Output ratio:</b>	63,1 %

**Luminance [cd/m<sup>2</sup>] REBA 65 LED 24W bGLARE [848mm] / 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	4860,28	4874,65	5199,00	5778,41	6625,79	7923,46	10285,6	7923,46	6625,79
50,00	3623,63	3627,51	3840,12	4284,50	4992,48	6070,66	8305,04	6070,66	4992,48
55,00	2677,27	2648,74	2814,23	3133,45	3663,83	4563,21	6504,72	4563,21	3663,83
60,00	1958,15	1903,65	2086,23	2295,54	2672,48	3450,89	5178,02	3450,89	2672,48
65,00	1437,86	1386,81	1517,22	1685,89	1949,64	2616,12	4223,91	2616,12	1949,64
70,00	1027,90	1032,31	1110,07	1217,36	1422,94	1967,48	3456,39	1967,48	1422,94
75,00	730,66	763,42	806,68	889,04	1039,74	1486,07	2853,87	1486,07	1039,74
80,00	499,55	510,25	548,82	579,27	719,42	1054,68	2412,45	1054,68	719,42
85,00	269,83	268,46	294,22	308,28	387,74	584,62	1625,16	584,62	387,74

G/C [cd/	135,00	150,00	165,00	180,00	195,00	210,00	225,00	240,00	255,00
45,00	5778,41	5199,00	4874,65	4860,28	4874,65	5199,00	5778,41	6625,79	7923,46
50,00	4284,50	3840,12	3627,51	3623,63	3627,51	3840,12	4284,50	4992,48	6070,66
55,00	3133,45	2814,23	2648,74	2677,27	2648,74	2814,23	3133,45	3663,83	4563,21
60,00	2295,54	2086,23	1903,65	1958,15	1903,65	2086,23	2295,54	2672,48	3450,89
65,00	1685,89	1517,22	1386,81	1437,86	1386,81	1517,22	1685,89	1949,64	2616,12
70,00	1217,36	1110,07	1032,31	1027,90	1032,31	1110,07	1217,36	1422,94	1967,48
75,00	889,04	806,68	763,42	730,66	763,42	806,68	889,04	1039,74	1486,07
80,00	579,27	548,82	510,25	499,55	510,25	548,82	579,27	719,42	1054,68
85,00	308,28	294,22	268,46	269,83	268,46	294,22	308,28	387,74	584,62

G/C [cd/	270,00	285,00	300,00	315,00	330,00	345,00
45,00	10285,6	7923,46	6625,79	5778,41	5199,00	4874,65
50,00	8305,04	6070,66	4992,48	4284,50	3840,12	3627,51
55,00	6504,72	4563,21	3663,83	3133,45	2814,23	2648,74
60,00	5178,02	3450,89	2672,48	2295,54	2086,23	1903,65
65,00	4223,91	2616,12	1949,64	1685,89	1517,22	1386,81
70,00	3456,39	1967,48	1422,94	1217,36	1110,07	1032,31
75,00	2853,87	1486,07	1039,74	889,04	806,68	763,42
80,00	2412,45	1054,68	719,42	579,27	548,82	510,25
85,00	1625,16	584,62	387,74	308,28	294,22	268,46

**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