

## PHOTOMETRIC RESULTS

<b>Name:</b>	REBA 50 D/I EXT L2260+INT ASYM 830 HO		
<b>Number:</b>	90523+90530L008	<b>Diameter:</b>	0 mm
<b>Report:</b>	27-02-2020	<b>Length:</b>	2260 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	50 mm
<b>Lamp type:</b>	LED 830 - 01	<b>Height:</b>	87 mm
<b>Number:</b>	01	<b>Power:</b>	108,14 W
<b>Lamp flux:</b>	16080,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	27-02-2020 16:09:44	<b>Output ratio:</b>	58,8 %

## Protocol

**LiTG-class:** C53  
**UTE-class:** 0,34 C + 0,25 T  
**IES-class:** 61 - 87 - 97 - 58 - 59  
**TM5-class:** BZ3

<b>Divergences in the plane through maximum intensity:</b>	Horizontal	Vertical
<b>One half peak divergence</b>	92,7°	53,6°
<b>Half peak side angle (left)</b>	-46,4°	-38,9°
<b>Half peak side angle (right)</b>	46,4°	14,7°
<b>One tenth peak divergence</b>	141,1°	130,4°
<b>Tenth peak side angle (left)</b>	-70,6°	-61,2°
<b>Tenth peak side angle (right)</b>	70,6°	69,2°

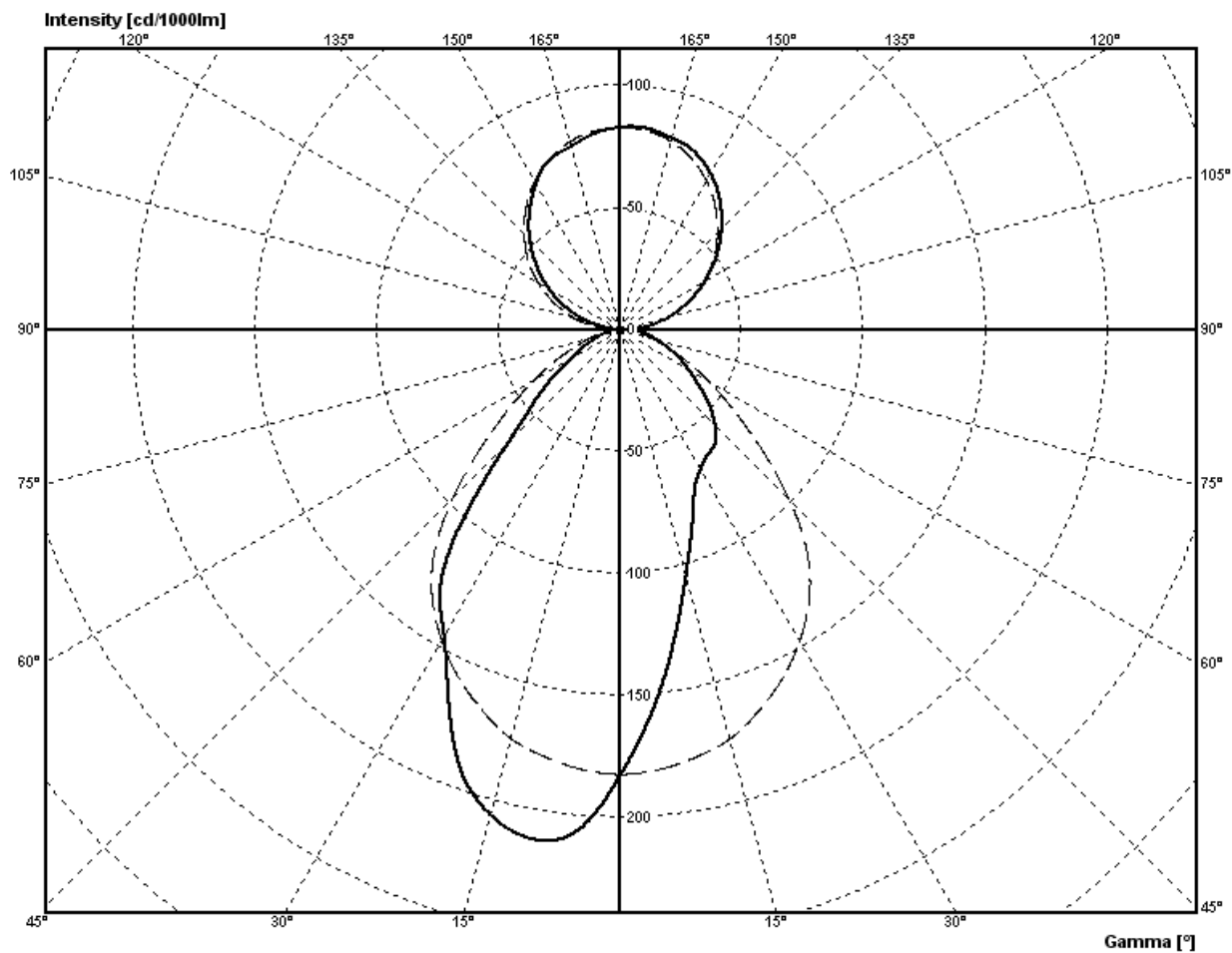
<b>C-planes:</b>	0,0°	15,0°	30,0°	45,0°	60,0°	75,0°	90,0°	105,0°	120,0°	135,0°
	150,0°	165,0°	180,0°	195,0°	210,0°	225,0°	240,0°	255,0°	270,0°	285,0°
	300,0°	315,0°	330,0°	345,0°						

<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°	95,0°
	100,0°	105,0°	110,0°	115,0°	120,0°	125,0°	130,0°	135,0°	140,0°	145,0°
	150,0°	155,0°	160,0°	165,0°	170,0°	175,0°	180,0°			

## PHOTOMETRIC RESULTS

Name:	REBA 50 D/I EXT L2260+INT ASYM 830 HO		
Number:	90523+90530L008	Diameter:	0 mm
Report:	27-02-2020	Length:	2260 mm
Meas.-no.:	01	Width:	50 mm
Lamp type:	LED 830 - 01	Height:	87 mm
Number:	01	Power:	108,14 W
Lamp flux:	16080,00 lm	Operator:	INDELAGUE GROUP
Date:	27-02-2020 16:09:44	Output ratio:	58,8 %

Polar diagram REBA 50 D/I EXT L2260+INT ASYM 830 HO / Total in 15° C / 5° G



## PHOTOMETRIC RESULTS

<b>Name:</b>	REBA 50 D/I EXT L2260+INT ASYM 830 HO		
<b>Number:</b>	90523+90530L008	<b>Diameter:</b>	0 mm
<b>Report:</b>	27-02-2020	<b>Length:</b>	2260 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	50 mm
<b>Lamp type:</b>	LED 830 - 01	<b>Height:</b>	87 mm
<b>Number:</b>	01	<b>Power:</b>	108,14 W
<b>Lamp flux:</b>	16080,00 lm	<b>Operator:</b>	INDELAGUE GROUP
<b>Date:</b>	27-02-2020 16:09:44	<b>Output ratio:</b>	58,8 %

## 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>	12,4	13,2	13,3	14,1	15,3	16,4	17,3	17,3	18,2	19,3
<b>2H</b>	<b>3H</b>	12,8	13,6	13,7	14,5	15,7	17,1	17,9	18,0	18,8	20,0
<b>2H</b>	<b>4H</b>	13,0	13,7	13,9	14,6	15,8	17,3	18,1	18,2	19,0	20,2
<b>2H</b>	<b>6H</b>	13,1	13,8	14,0	14,7	15,9	17,5	18,2	18,5	19,1	20,3
<b>2H</b>	<b>8H</b>	13,1	13,7	14,0	14,7	15,9	17,5	18,2	18,5	19,1	20,4
<b>2H</b>	<b>12H</b>	13,0	13,7	14,0	14,6	15,8	17,6	18,2	18,5	19,1	20,3
<b>4H</b>	<b>2H</b>	12,8	13,5	13,7	14,5	15,6	16,3	17,1	17,3	18,0	19,2
<b>4H</b>	<b>3H</b>	13,4	14,0	14,3	14,9	16,2	17,1	17,7	18,0	18,7	19,9
<b>4H</b>	<b>4H</b>	13,6	14,2	14,6	15,2	16,4	17,4	18,0	18,4	19,0	20,2
<b>4H</b>	<b>6H</b>	13,8	14,3	14,7	15,2	16,5	17,7	18,1	18,6	19,1	20,4
<b>4H</b>	<b>8H</b>	13,8	14,3	14,8	15,2	16,5	17,7	18,2	18,7	19,2	20,4
<b>4H</b>	<b>12H</b>	13,8	14,3	14,8	15,2	16,5	17,8	18,2	18,8	19,2	20,5
<b>8H</b>	<b>4H</b>	13,7	14,2	14,7	15,2	16,4	17,4	17,8	18,3	18,8	20,0
<b>8H</b>	<b>6H</b>	13,9	14,3	14,9	15,3	16,6	17,6	18,0	18,6	19,0	20,2
<b>8H</b>	<b>8H</b>	14,1	14,4	15,1	15,4	16,7	17,7	18,1	18,8	19,1	20,3
<b>8H</b>	<b>12H</b>	14,1	14,4	15,1	15,4	16,6	17,8	18,1	18,8	19,1	20,4
<b>12H</b>	<b>4H</b>	13,7	14,2	14,7	15,1	16,4	17,3	17,7	18,3	18,7	20,0
<b>12H</b>	<b>6H</b>	14,0	14,3	15,0	15,3	16,6	17,6	17,9	18,6	18,9	20,2
<b>12H</b>	<b>8H</b>	14,1	14,4	15,1	15,4	16,6	17,7	18,0	18,7	19,0	20,3

UGR values are corrected for lamp flux of 16080 lm by 9,7

## PHOTOMETRIC RESULTS

<b>Name:</b>	<b>REBA 50 D/I EXT L2260+INT ASYM 830 HO</b>		
<b>Number:</b>	90523+90530L008	<b>Diameter:</b>	0 mm
<b>Report:</b>	27-02-2020	<b>Length:</b>	2260 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	50 mm
<b>Lamp type:</b>	LED 830 - 01	<b>Height:</b>	87 mm
<b>Number:</b>	01	<b>Power:</b>	108,14 W
<b>Lamp flux:</b>	16080,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	27-02-2020 16:09:44	<b>Output ratio:</b>	58,8 %

Luminance [cd/m<sup>2</sup>] REBA 50 D/I EXT L2260+INT ASYM 830 HO / Total 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	4191,14	4337,10	4708,44	5308,97	7113,91	11577,5	20646,0	14973,5	11364,2
50,00	3562,81	3605,93	3852,49	4481,97	5930,08	9349,45	17256,3	11430,1	8394,27
55,00	2875,23	2894,64	3176,47	3707,66	4925,36	7416,56	14229,3	8666,70	5756,39
60,00	2345,28	2331,25	2737,86	3042,21	4009,82	6089,72	11853,2	6266,66	4082,16
65,00	1919,47	1893,67	2290,36	2480,12	3272,69	4771,54	9667,19	4443,01	2741,41
70,00	1485,30	1492,70	1794,50	1926,73	2622,86	3679,14	7810,61	3141,55	1851,43
75,00	1123,82	1167,08	1391,05	1491,93	1961,39	2926,98	6436,75	2140,36	1188,37
80,00	803,15	802,20	1000,42	1048,09	1452,30	2268,43	5349,88	1235,48	683,43
85,00	490,88	493,32	629,84	640,17	874,98	1373,22	4467,30	526,40	300,36

G/C [cd/	135,00	150,00	165,00	180,00	195,00	210,00	225,00	240,00	255,00
45,00	8997,83	6370,24	5515,59	4944,08	5515,59	6370,24	8997,83	11364,2	14973,5
50,00	5863,57	4210,53	3666,25	3426,03	3666,25	4210,53	5863,57	8394,27	11430,1
55,00	4232,64	3055,93	2636,90	2458,06	2636,90	3055,93	4232,64	5756,39	8666,70
60,00	2794,88	2108,23	1792,76	1650,62	1792,76	2108,23	2794,88	4082,16	6266,66
65,00	1853,83	1458,15	1295,33	1211,63	1295,33	1458,15	1853,83	2741,41	4443,01
70,00	1355,53	1066,61	902,25	842,31	902,25	1066,61	1355,53	1851,43	3141,55
75,00	886,38	713,93	607,15	574,98	607,15	713,93	886,38	1188,37	2140,36
80,00	555,95	469,89	401,10	374,80	401,10	469,89	555,95	683,43	1235,48
85,00	238,87	244,06	228,79	214,33	228,79	244,06	238,87	300,36	526,40

G/C [cd/	270,00	285,00	300,00	315,00	330,00	345,00
45,00	20646,0	11577,5	7113,91	5308,97	4708,44	4337,10
50,00	17256,3	9349,45	5930,08	4481,97	3852,49	3605,93
55,00	14229,3	7416,56	4925,36	3707,66	3176,47	2894,64
60,00	11853,2	6089,72	4009,82	3042,21	2737,86	2331,25
65,00	9667,19	4771,54	3272,69	2480,12	2290,36	1893,67
70,00	7810,61	3679,14	2622,86	1926,73	1794,50	1492,70
75,00	6436,75	2926,98	1961,39	1491,93	1391,05	1167,08
80,00	5349,88	2268,43	1452,30	1048,09	1000,42	802,20
85,00	4467,30	1373,22	874,98	640,17	629,84	493,32

## 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