

## PHOTOMETRIC RESULTS

Name:	REBA 50 EXT L2540+INT ASYM K3 830 HO		
Number:	90517+90500L009	Diameter:	0 mm
Report:	23-01-2020	Length:	2540 mm
Meas.-no.:	01	Width:	50 mm
Lamp type:	LED 830 - 01	Height:	72 mm
Number:	01	Power:	72,17 W
Lamp flux:	10800,00 lm	Operator:	INDEL AGUE GROUP
Date:	23-01-2020 15:43:22	Output ratio:	56,7 %

## Protocol

LiTG-class: A50  
UTE-class: 0,57 C  
IES-class: 60 - 88 - 97 - 100 - 57  
TM5-class: BZ3

Divergences in the plane through maximum intensity:	Horizontal	Vertical
One half peak divergence	93,9°	54,8°
Half peak side angle (left)	-46,9°	-40,0°
Half peak side angle (right)	46,9°	14,8°
One tenth peak divergence	140,7°	130,5°
Tenth peak side angle (left)	-70,3°	-62,5°
Tenth peak side angle (right)	70,3°	68,0°

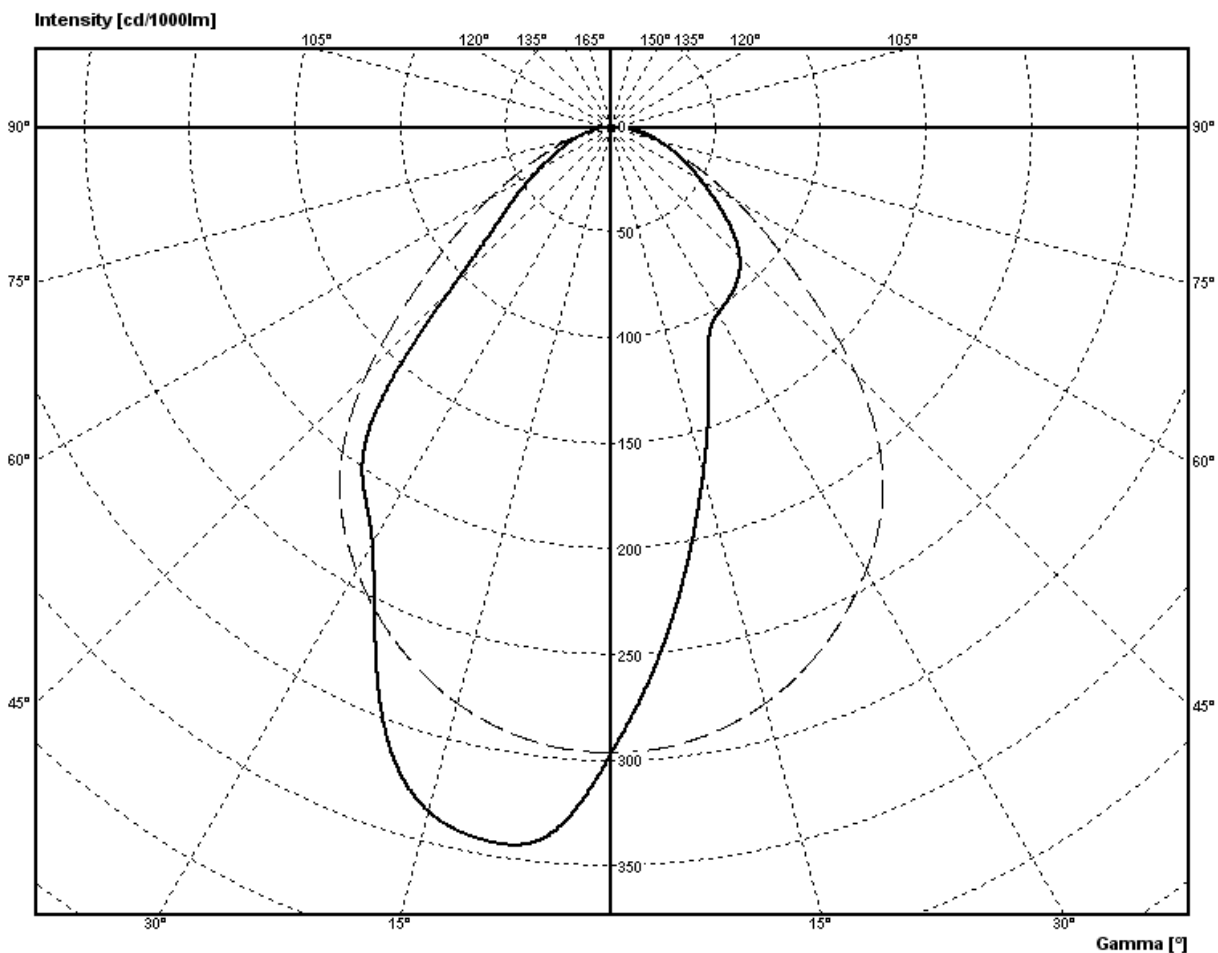
C-planes:	0,0°	15,0°	30,0°	45,0°	60,0°	75,0°	90,0°	105,0°	120,0°	135,0°
	150,0°	165,0°	180,0°	195,0°	210,0°	225,0°	240,0°	255,0°	270,0°	285,0°
	300,0°	315,0°	330,0°	345,0°						

Gamma:	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 50 EXT L2540+INT ASYM K3 830 HO		
Number:	90517+90500L009	Diameter:	0 mm
Report:	23-01-2020	Length:	2540 mm
Meas.-no.:	01	Width:	50 mm
Lamp type:	LED 830 - 01	Height:	72 mm
Number:	01	Power:	72,17 W
Lamp flux:	10800,00 lm	Operator:	INDELAGUE GROUP
Date:	23-01-2020 15:43:22	Output ratio:	56,7 %

Polar diagram REBA 50 EXT L2540+INT ASYM K3 830 HO / Direct in 15° C / 5° G



## PHOTOMETRIC RESULTS

<b>Name:</b>	<b>REBA 50 EXT L2540+INT ASYM K3 830 HO</b>		
<b>Number:</b>	90517+90500L009	<b>Diameter:</b>	0 mm
<b>Report:</b>	23-01-2020	<b>Length:</b>	2540 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	50 mm
<b>Lamp type:</b>	LED 830 - 01	<b>Height:</b>	72 mm
<b>Number:</b>	01	<b>Power:</b>	72,17 W
<b>Lamp flux:</b>	10800,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	23-01-2020 15:43:22	<b>Output ratio:</b>	56,7 %

## 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>	16,2	17,7	16,6	18,0	18,3	19,9	21,4	20,2	21,7	22,0
<b>2H</b>	<b>3H</b>	16,7	18,0	17,1	18,4	18,7	20,6	21,9	20,9	22,2	22,6
<b>2H</b>	<b>4H</b>	16,9	18,1	17,3	18,5	18,9	20,8	22,1	21,2	22,4	22,8
<b>2H</b>	<b>6H</b>	17,0	18,2	17,5	18,6	19,0	21,0	22,2	21,4	22,5	22,9
<b>2H</b>	<b>8H</b>	17,0	18,1	17,5	18,5	18,9	21,0	22,1	21,5	22,5	22,9
<b>2H</b>	<b>12H</b>	17,0	18,1	17,4	18,5	18,9	21,1	22,1	21,5	22,5	22,9
<b>4H</b>	<b>2H</b>	16,7	17,9	17,1	18,3	18,7	19,9	21,2	20,3	21,5	21,9
<b>4H</b>	<b>3H</b>	17,3	18,4	17,7	18,8	19,2	20,7	21,7	21,1	22,1	22,5
<b>4H</b>	<b>4H</b>	17,6	18,6	18,1	19,0	19,4	21,0	22,0	21,5	22,4	22,8
<b>4H</b>	<b>6H</b>	17,8	18,6	18,3	19,1	19,5	21,2	22,1	21,7	22,5	23,0
<b>4H</b>	<b>8H</b>	17,8	18,6	18,3	19,1	19,5	21,3	22,1	21,8	22,5	23,0
<b>4H</b>	<b>12H</b>	17,9	18,6	18,4	19,0	19,5	21,4	22,1	21,9	22,5	23,0
<b>8H</b>	<b>4H</b>	17,8	18,5	18,2	19,0	19,4	21,0	21,7	21,5	22,2	22,7
<b>8H</b>	<b>6H</b>	18,0	18,6	18,5	19,1	19,6	21,2	21,9	21,7	22,3	22,8
<b>8H</b>	<b>8H</b>	18,1	18,7	18,6	19,2	19,7	21,4	21,9	21,9	22,5	22,9
<b>8H</b>	<b>12H</b>	18,2	18,6	18,7	19,1	19,7	21,5	21,9	22,0	22,4	23,0
<b>12H</b>	<b>4H</b>	17,8	18,5	18,3	18,9	19,4	21,0	21,7	21,4	22,1	22,6
<b>12H</b>	<b>6H</b>	18,1	18,6	18,6	19,1	19,6	21,3	21,8	21,8	22,3	22,8
<b>12H</b>	<b>8H</b>	18,2	18,6	18,7	19,1	19,6	21,4	21,8	21,9	22,4	22,9

UGR values are corrected for lamp flux of 10800 lm by 8,3

## PHOTOMETRIC RESULTS

<b>Name:</b>	<b>REBA 50 EXT L2540+INT ASYM K3 830 HO</b>		
<b>Number:</b>	90517+90500L009	<b>Diameter:</b>	0 mm
<b>Report:</b>	23-01-2020	<b>Length:</b>	2540 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	50 mm
<b>Lamp type:</b>	LED 830 - 01	<b>Height:</b>	72 mm
<b>Number:</b>	01	<b>Power:</b>	72,17 W
<b>Lamp flux:</b>	10800,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	23-01-2020 15:43:22	<b>Output ratio:</b>	56,7 %

Luminance [cd/m<sup>2</sup>] REBA 50 EXT L2540+INT ASYM K3 830 HO / Direct in 15° C / 5° 

G/C [cd/	0,00	15,00	30,00	45,00	60,00	75,00	90,00	105,00	120,00
45,00	4437,06	4555,03	4756,14	5383,25	6982,57	11528,4	20881,1	17055,4	13305,1
50,00	3790,03	3723,84	3946,67	4453,11	5782,70	9056,20	17298,4	13431,9	10194,1
55,00	3063,95	3011,90	3365,05	3718,35	4752,38	7153,40	14316,1	10193,0	7495,90
60,00	2460,07	2396,99	2828,21	3093,36	3865,55	5673,76	11713,6	7565,02	5425,95
65,00	1993,52	1936,42	2247,55	2459,78	3113,15	4347,19	9439,97	5492,55	3825,43
70,00	1582,94	1567,25	1729,36	1922,93	2401,98	3371,44	7632,90	3928,63	2633,81
75,00	1213,58	1178,18	1296,52	1436,47	1808,41	2632,52	6453,65	2799,66	1842,53
80,00	894,95	787,89	904,23	1005,32	1265,80	1909,61	5432,70	1921,40	1236,54
85,00	510,73	390,98	469,30	527,40	675,86	1036,89	4028,78	1064,17	675,86

G/C [cd/	135,00	150,00	165,00	180,00	195,00	210,00	225,00	240,00	255,00
45,00	10474,2	8987,11	7812,62	5437,79	7812,62	8987,11	10474,2	13305,1	17055,4
50,00	7993,01	5964,05	4806,35	3543,64	4806,35	5964,05	7993,01	10194,1	13431,9
55,00	5456,74	3984,49	3332,65	2653,99	3332,65	3984,49	5456,74	7495,90	10193,0
60,00	3756,22	2882,92	2475,32	1978,13	2475,32	2882,92	3756,22	5425,95	7565,02
65,00	2597,26	2089,75	1849,48	1464,34	1849,48	2089,75	2597,26	3825,43	5492,55
70,00	1826,79	1546,41	1398,47	1104,38	1398,47	1546,41	1826,79	2633,81	3928,63
75,00	1336,50	1170,91	1046,35	821,61	1046,35	1170,91	1336,50	1842,53	2799,66
80,00	933,51	811,01	694,19	505,84	694,19	811,01	933,51	1236,54	1921,40
85,00	527,40	474,19	417,64	291,84	417,64	474,19	527,40	675,86	1064,17

G/C [cd/	270,00	285,00	300,00	315,00	330,00	345,00
45,00	20881,1	11528,4	6982,57	5383,25	4756,14	4555,03
50,00	17298,4	9056,20	5782,70	4453,11	3946,67	3723,84
55,00	14316,1	7153,40	4752,38	3718,35	3365,05	3011,90
60,00	11713,6	5673,76	3865,55	3093,36	2828,21	2396,99
65,00	9439,97	4347,19	3113,15	2459,78	2247,55	1936,42
70,00	7632,90	3371,44	2401,98	1922,93	1729,36	1567,25
75,00	6453,65	2632,52	1808,41	1436,47	1296,52	1178,18
80,00	5432,70	1909,61	1265,80	1005,32	904,23	787,89
85,00	4028,78	1036,89	675,86	527,40	469,30	390,98

## 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