

## PHOTOMETRIC RESULTS

<b>Name:</b>	<b>REBA 50 EXT L1980+INT ASYM 840 HO</b>		
<b>Number:</b>	90517+90500L007	<b>Diameter:</b>	0 mm
<b>Report:</b>	23-01-2020	<b>Length:</b>	1980 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	50 mm
<b>Lamp type:</b>	LED 840 - 01	<b>Height:</b>	72 mm
<b>Number:</b>	01	<b>Power:</b>	57,16 W
<b>Lamp flux:</b>	8729,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	23-01-2020 15:20:22	<b>Output ratio:</b>	56,7 %

## Protocol

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

<b>Divergences in the plane through maximum intensity:</b>	Horizontal	Vertical
<b>One half peak divergence</b>	94,2°	54,4°
<b>Half peak side angle (left)</b>	-47,1°	-39,9°
<b>Half peak side angle (right)</b>	47,1°	14,5°
<b>One tenth peak divergence</b>	141,1°	130,7°
<b>Tenth peak side angle (left)</b>	-70,6°	-62,4°
<b>Tenth peak side angle (right)</b>	70,6°	68,3°

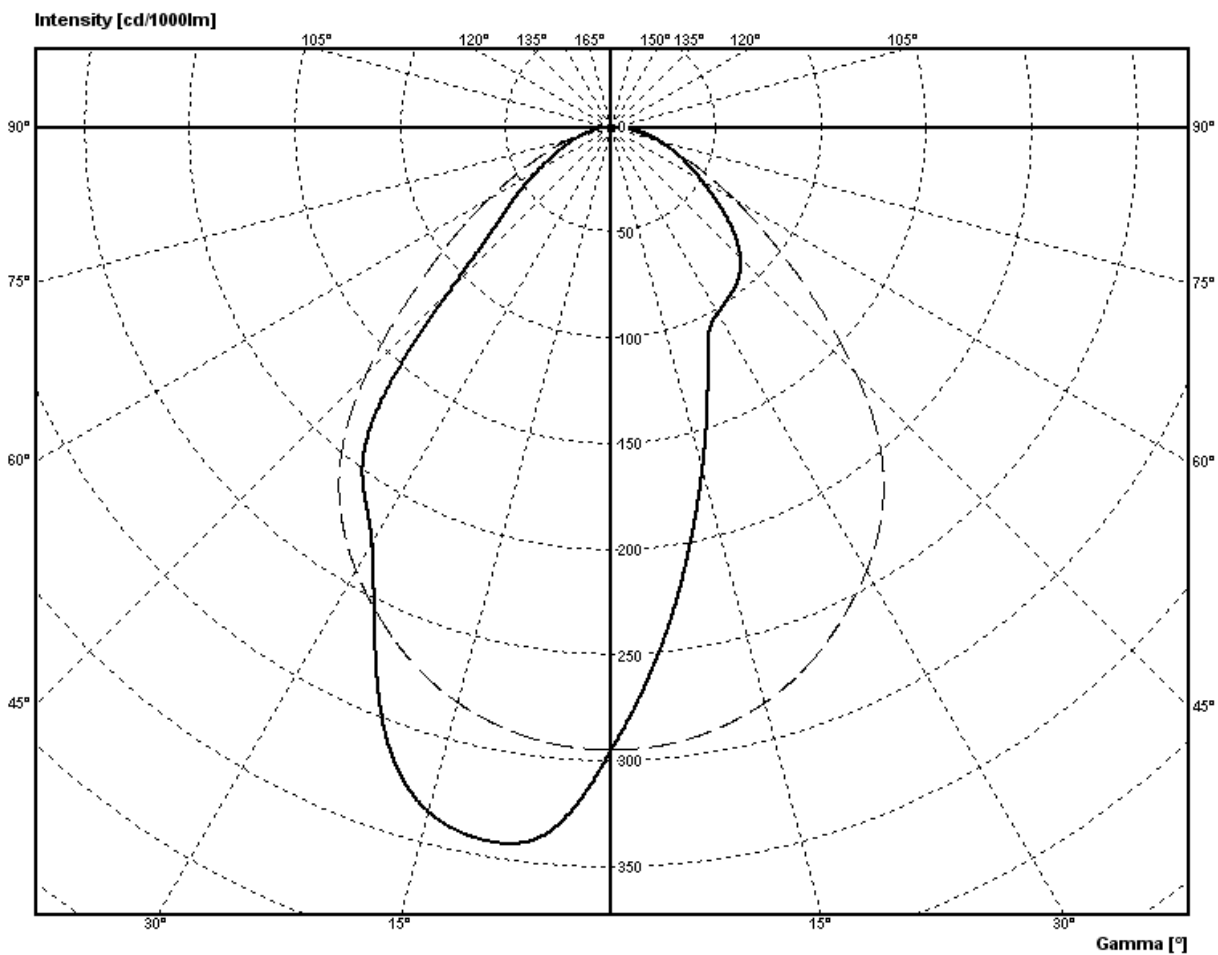
<b>C-planes:</b>	0,0°	15,0°	30,0°	45,0°	60,0°	75,0°	90,0°	105,0°	120,0°	135,0°
	150,0°	165,0°	180,0°	195,0°	210,0°	225,0°	240,0°	255,0°	270,0°	285,0°
	300,0°	315,0°	330,0°	345,0°						

<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 50 EXT L1980+INT ASYM 840 HO		
Number:	90517+90500L007	Diameter:	0 mm
Report:	23-01-2020	Length:	1980 mm
Meas.-no.:	01	Width:	50 mm
Lamp type:	LED 840 - 01	Height:	72 mm
Number:	01	Power:	57,16 W
Lamp flux:	8729,00 lm	Operator:	INDELAGUE GROUP
Date:	23-01-2020 15:20:22	Output ratio:	56,7 %

Polar diagram REBA 50 EXT L1980+INT ASYM 840 HO / Direct in 15° C / 5° G



## PHOTOMETRIC RESULTS

<b>Name:</b>	<b>REBA 50 EXT L1980+INT ASYM 840 HO</b>		
<b>Number:</b>	90517+90500L007	<b>Diameter:</b>	0 mm
<b>Report:</b>	23-01-2020	<b>Length:</b>	1980 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	50 mm
<b>Lamp type:</b>	LED 840 - 01	<b>Height:</b>	72 mm
<b>Number:</b>	01	<b>Power:</b>	57,16 W
<b>Lamp flux:</b>	8729,00 lm	<b>Operator:</b>	INDELAGUE GROUP
<b>Date:</b>	23-01-2020 15:20:22	<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>	16,4	17,8	16,7	18,1	18,5	20,0	21,5	20,4	21,8	22,1
<b>2H</b>	<b>3H</b>	16,9	18,2	17,2	18,5	18,9	20,7	22,0	21,1	22,4	22,7
<b>2H</b>	<b>4H</b>	17,1	18,3	17,5	18,7	19,0	20,9	22,2	21,3	22,5	22,9
<b>2H</b>	<b>6H</b>	17,2	18,3	17,6	18,7	19,1	21,2	22,3	21,6	22,7	23,1
<b>2H</b>	<b>8H</b>	17,2	18,3	17,6	18,7	19,1	21,2	22,3	21,6	22,7	23,1
<b>2H</b>	<b>12H</b>	17,2	18,2	17,6	18,6	19,0	21,2	22,2	21,6	22,6	23,0
<b>4H</b>	<b>2H</b>	16,8	18,1	17,2	18,4	18,8	20,0	21,3	20,4	21,6	22,0
<b>4H</b>	<b>3H</b>	17,5	18,5	17,9	18,9	19,3	20,8	21,9	21,2	22,3	22,7
<b>4H</b>	<b>4H</b>	17,8	18,7	18,2	19,1	19,6	21,2	22,1	21,6	22,5	22,9
<b>4H</b>	<b>6H</b>	18,0	18,8	18,4	19,2	19,7	21,4	22,2	21,8	22,7	23,1
<b>4H</b>	<b>8H</b>	18,0	18,8	18,5	19,2	19,7	21,5	22,2	21,9	22,7	23,1
<b>4H</b>	<b>12H</b>	18,0	18,7	18,5	19,2	19,7	21,5	22,2	22,0	22,7	23,2
<b>8H</b>	<b>4H</b>	17,9	18,7	18,4	19,1	19,6	21,1	21,9	21,6	22,3	22,8
<b>8H</b>	<b>6H</b>	18,1	18,8	18,6	19,2	19,7	21,4	22,0	21,9	22,5	23,0
<b>8H</b>	<b>8H</b>	18,3	18,8	18,8	19,3	19,8	21,5	22,1	22,0	22,6	23,1
<b>8H</b>	<b>12H</b>	18,3	18,8	18,9	19,3	19,8	21,6	22,1	22,1	22,6	23,1
<b>12H</b>	<b>4H</b>	17,9	18,6	18,4	19,1	19,6	21,1	21,8	21,6	22,3	22,8
<b>12H</b>	<b>6H</b>	18,2	18,8	18,7	19,3	19,8	21,4	22,0	21,9	22,5	23,0
<b>12H</b>	<b>8H</b>	18,3	18,8	18,8	19,3	19,8	21,5	22,0	22,0	22,5	23,0

UGR values are corrected for lamp flux of 8729 lm by 7,5

## PHOTOMETRIC RESULTS

<b>Name:</b>	<b>REBA 50 EXT L1980+INT ASYM 840 HO</b>		
<b>Number:</b>	90517+90500L007	<b>Diameter:</b>	0 mm
<b>Report:</b>	23-01-2020	<b>Length:</b>	1980 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	50 mm
<b>Lamp type:</b>	LED 840 - 01	<b>Height:</b>	72 mm
<b>Number:</b>	01	<b>Power:</b>	57,16 W
<b>Lamp flux:</b>	8729,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	23-01-2020 15:20:22	<b>Output ratio:</b>	56,7 %

Luminance [cd/m<sup>2</sup>] REBA 50 EXT L1980+INT ASYM 840 HO / 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	4633,63	4777,41	4958,81	5593,99	7235,52	11910,0	21579,3	17711,9	13796,6
50,00	3969,40	3910,93	4126,67	4640,82	5996,26	9390,48	17909,1	13930,2	10559,2
55,00	3227,92	3173,79	3515,60	3874,93	4938,55	7416,62	14758,9	10586,5	7767,92
60,00	2588,38	2519,47	2967,30	3224,26	4012,76	5892,43	12074,8	7886,05	5607,28
65,00	2094,07	2043,86	2363,48	2580,12	3250,41	4535,23	9747,87	5707,83	3971,37
70,00	1670,54	1656,17	1813,57	2017,92	2497,76	3505,73	7849,63	4058,77	2728,32
75,00	1280,84	1240,27	1365,92	1510,34	1885,77	2733,71	6573,59	2899,39	1906,12
80,00	949,00	834,89	953,70	1051,21	1322,89	1983,05	5484,70	1983,05	1279,28
85,00	551,01	422,13	502,49	560,34	702,51	1091,22	3953,30	1091,22	694,61

G/C [cd/	135,00	150,00	165,00	180,00	195,00	210,00	225,00	240,00	255,00
45,00	10877,4	9346,44	8108,81	5655,98	8108,81	9346,44	10877,4	13796,6	17711,9
50,00	8290,54	6213,04	5021,58	3686,91	5021,58	6213,04	8290,54	10559,2	13930,2
55,00	5670,63	4151,00	3455,55	2753,44	3455,55	4151,00	5670,63	7767,92	10586,5
60,00	3894,99	2988,31	2558,65	2041,94	2558,65	2988,31	3894,99	5607,28	7886,05
65,00	2687,83	2163,32	1909,45	1514,39	1909,45	2163,32	2687,83	3971,37	5707,83
70,00	1886,75	1591,77	1439,10	1133,32	1439,10	1591,77	1886,75	2728,32	4058,77
75,00	1384,48	1204,70	1071,33	836,31	1071,33	1204,70	1384,48	1906,12	2899,39
80,00	957,64	828,09	715,62	513,39	715,62	828,09	957,64	1279,28	1983,05
85,00	542,83	482,98	426,57	299,81	426,57	482,98	542,83	694,61	1091,22

G/C [cd/	270,00	285,00	300,00	315,00	330,00	345,00
45,00	21579,3	11910,0	7235,52	5593,99	4958,81	4777,41
50,00	17909,1	9390,48	5996,26	4640,82	4126,67	3910,93
55,00	14758,9	7416,62	4938,55	3874,93	3515,60	3173,79
60,00	12074,8	5892,43	4012,76	3224,26	2967,30	2519,47
65,00	9747,87	4535,23	3250,41	2580,12	2363,48	2043,86
70,00	7849,63	3505,73	2497,76	2017,92	1813,57	1656,17
75,00	6573,59	2733,71	1885,77	1510,34	1365,92	1240,27
80,00	5484,70	1983,05	1322,89	1051,21	953,70	834,89
85,00	3953,30	1091,22	702,51	560,34	502,49	422,13

## 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