

## PHOTOMETRIC RESULTS

<b>Name:</b>	REBA 65 EXT LINE L1969 SRT/END+INT ASYM 840 HO		
<b>Number:</b>	90509-83+90504L007	<b>Diameter:</b>	0 mm
<b>Report:</b>	22-01-2020	<b>Length:</b>	1969 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	65 mm
<b>Lamp type:</b>	LED 840 - 01	<b>Height:</b>	82 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>	22-01-2020 15:49:34	<b>Output ratio:</b>	58,1 %

## Protocol

**LiTG-class:** A50  
**UTE-class:** 0,58 D  
**IES-class:** 60 - 87 - 97 - 100 - 58  
**TM5-class:** BZ3

<b>Divergences in the plane through maximum intensity:</b>	Horizontal	Vertical
<b>One half peak divergence</b>	96,3°	56,5°
<b>Half peak side angle (left)</b>	-48,2°	-40,1°
<b>Half peak side angle (right)</b>	48,2°	16,4°
<b>One tenth peak divergence</b>	142,1°	133,9°
<b>Tenth peak side angle (left)</b>	-71,1°	-66,2°
<b>Tenth peak side angle (right)</b>	71,1°	67,6°

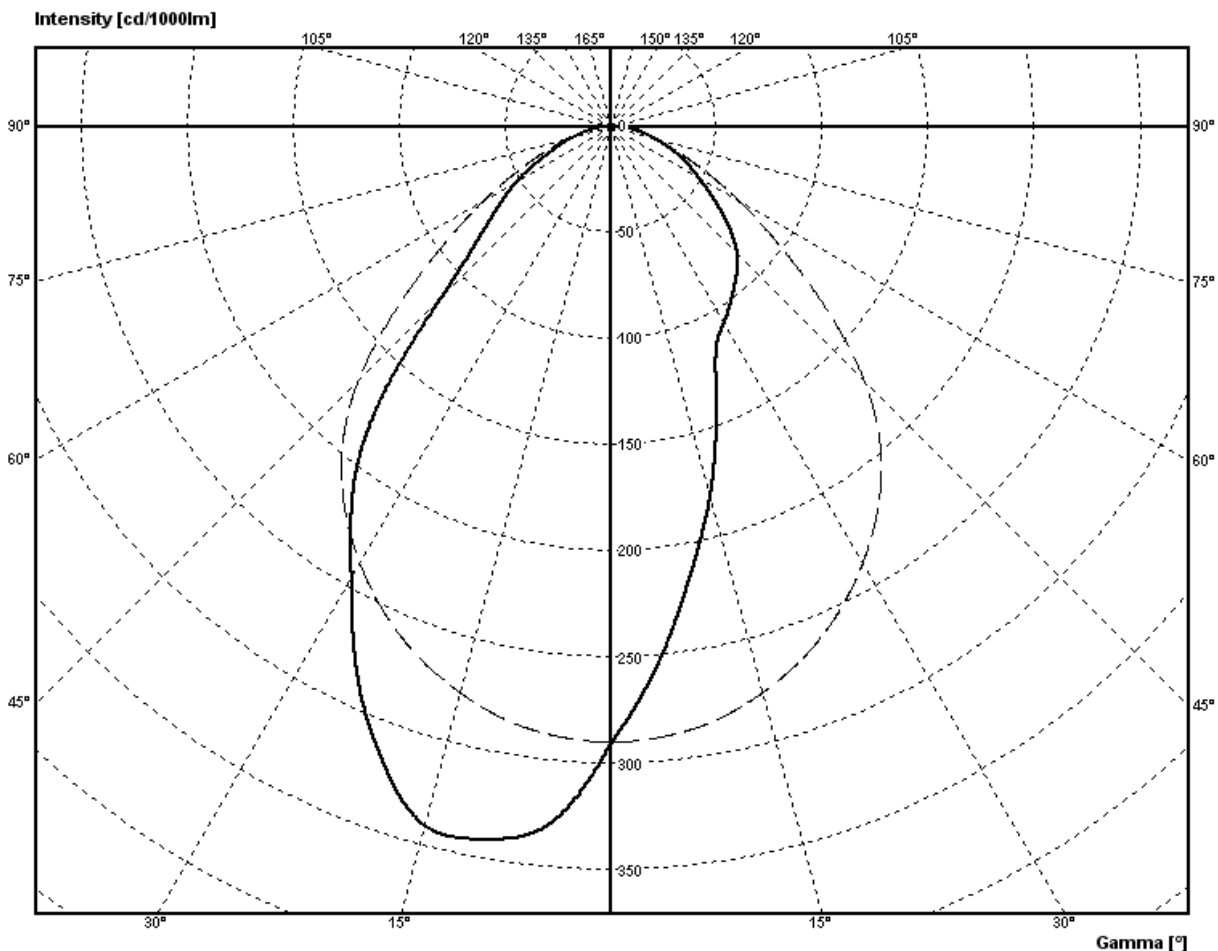
<b>C-planes:</b>	0,0°	15,0°	30,0°	45,0°	60,0°	75,0°	90,0°	105,0°	120,0°	135,0°
	150,0°	165,0°	180,0°	195,0°	210,0°	225,0°	240,0°	255,0°	270,0°	285,0°
	300,0°	315,0°	330,0°	345,0°						

<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 65 EXT LINE L1969 SRT/END+INT ASYM 840 HO		
Number:	90509-83+90504L007	Diameter:	0 mm
Report:	22-01-2020	Length:	1969 mm
Meas.-no.:	01	Width:	65 mm
Lamp type:	LED 840 - 01	Height:	82 mm
Number:	01	Power:	57,16 W
Lamp flux:	8729,00 lm	Operator:	INDELAGUE GROUP
Date:	22-01-2020 15:49:34	Output ratio:	58,1 %

Polar diagram REBA 65 EXT LINE L1969 SRT/END+INT ASYM 840 HO / Direct in 15° C  
/ 5° G



## PHOTOMETRIC RESULTS

<b>Name:</b>	<b>REBA 65 EXT LINE L1969 SRT/END+INT ASYM 840 HO</b>		
<b>Number:</b>	90509-83+90504L007	<b>Diameter:</b>	0 mm
<b>Report:</b>	22-01-2020	<b>Length:</b>	1969 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	65 mm
<b>Lamp type:</b>	LED 840 - 01	<b>Height:</b>	82 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>	22-01-2020 15:49:34	<b>Output ratio:</b>	58,1 %

## 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>	15,8	17,3	16,2	17,6	17,9	19,4	20,9	19,7	21,2	21,5
<b>2H</b>	<b>3H</b>	16,4	17,7	16,8	18,1	18,4	20,0	21,4	20,4	21,7	22,1
<b>2H</b>	<b>4H</b>	16,6	17,9	17,0	18,2	18,6	20,3	21,5	20,7	21,9	22,3
<b>2H</b>	<b>6H</b>	16,8	17,9	17,2	18,3	18,7	20,5	21,6	20,9	22,0	22,4
<b>2H</b>	<b>8H</b>	16,8	17,9	17,2	18,2	18,6	20,5	21,6	20,9	22,0	22,4
<b>2H</b>	<b>12H</b>	16,8	17,8	17,2	18,2	18,6	20,5	21,6	20,9	21,9	22,4
<b>4H</b>	<b>2H</b>	16,3	17,6	16,7	17,9	18,3	19,4	20,7	19,8	21,0	21,4
<b>4H</b>	<b>3H</b>	17,0	18,1	17,5	18,5	18,9	20,2	21,2	20,6	21,6	22,0
<b>4H</b>	<b>4H</b>	17,4	18,3	17,8	18,7	19,2	20,5	21,4	20,9	21,9	22,3
<b>4H</b>	<b>6H</b>	17,5	18,4	18,0	18,8	19,2	20,7	21,5	21,2	22,0	22,4
<b>4H</b>	<b>8H</b>	17,6	18,4	18,1	18,8	19,3	20,8	21,5	21,3	22,0	22,5
<b>4H</b>	<b>12H</b>	17,6	18,3	18,1	18,8	19,3	20,8	21,5	21,3	22,0	22,5
<b>8H</b>	<b>4H</b>	17,5	18,3	18,0	18,7	19,2	20,5	21,2	20,9	21,7	22,1
<b>8H</b>	<b>6H</b>	17,7	18,4	18,2	18,8	19,3	20,7	21,3	21,2	21,8	22,3
<b>8H</b>	<b>8H</b>	17,9	18,4	18,4	18,9	19,4	20,8	21,4	21,4	21,9	22,4
<b>8H</b>	<b>12H</b>	17,9	18,4	18,5	18,9	19,4	20,9	21,4	21,4	21,9	22,4
<b>12H</b>	<b>4H</b>	17,5	18,2	18,0	18,6	19,1	20,5	21,2	20,9	21,6	22,1
<b>12H</b>	<b>6H</b>	17,8	18,3	18,3	18,9	19,3	20,7	21,3	21,2	21,8	22,3
<b>12H</b>	<b>8H</b>	17,9	18,4	18,4	18,9	19,4	20,8	21,3	21,4	21,8	22,3

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

## PHOTOMETRIC RESULTS

<b>Name:</b>	<b>REBA 65 EXT LINE L1969 SRT/END+INT ASYM 840 HO</b>		
<b>Number:</b>	90509-83+90504L007	<b>Diameter:</b>	0 mm
<b>Report:</b>	22-01-2020	<b>Length:</b>	1969 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	65 mm
<b>Lamp type:</b>	LED 840 - 01	<b>Height:</b>	82 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>	22-01-2020 15:49:34	<b>Output ratio:</b>	58,1 %

Luminance [cd/m<sup>2</sup>] REBA 65 EXT LINE L1969 SRT/END+INT ASYM 840 HO / Direct im  
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	3698,13	3745,22	3937,13	4579,63	6082,44	9852,62	16655,1	14173,0	11795,3
50,00	3159,90	3073,67	3223,53	3767,37	5104,46	7959,88	14154,4	11499,2	9055,34
55,00	2579,10	2478,28	2699,49	3067,95	4188,03	6265,49	11489,6	8830,45	6773,30
60,00	2095,72	1984,41	2266,86	2584,50	3353,56	4970,09	9365,91	6578,81	4969,89
65,00	1724,84	1600,37	1828,56	2075,50	2628,92	3848,75	7466,67	4836,07	3454,21
70,00	1345,40	1299,51	1432,00	1615,63	1968,87	2894,82	5986,95	3495,82	2313,43
75,00	981,97	991,91	1070,94	1204,86	1442,60	2178,26	4935,76	2491,03	1622,93
80,00	725,57	674,05	750,93	839,89	1041,00	1528,13	3985,54	1693,68	1081,66
85,00	498,45	387,51	425,05	473,01	571,99	836,62	2825,52	956,14	616,68

G/C [cd/	135,00	150,00	165,00	180,00	195,00	210,00	225,00	240,00	255,00
45,00	9381,92	7800,84	6708,38	4952,42	6708,38	7800,84	9381,92	11795,3	14173,0
50,00	7077,17	5271,95	4504,88	3520,80	4504,88	5271,95	7077,17	9055,34	11499,2
55,00	4874,75	3677,36	3340,29	2787,35	3340,29	3677,36	4874,75	6773,30	8830,45
60,00	3382,97	2814,99	2609,69	2240,81	2609,69	2814,99	3382,97	4969,89	6578,81
65,00	2405,20	2169,64	2032,43	1626,74	2032,43	2169,64	2405,20	3454,21	4836,07
70,00	1739,05	1685,28	1534,14	1186,62	1534,14	1685,28	1739,05	2313,43	3495,82
75,00	1310,66	1283,11	1094,37	835,53	1094,37	1283,11	1310,66	1622,93	2491,03
80,00	908,33	856,69	722,54	555,37	722,54	856,69	908,33	1081,66	1693,68
85,00	546,30	492,16	443,59	366,78	443,59	492,16	546,30	616,68	956,14

G/C [cd/	270,00	285,00	300,00	315,00	330,00	345,00
45,00	16655,1	9852,62	6082,44	4579,63	3937,13	3745,22
50,00	14154,4	7959,88	5104,46	3767,37	3223,53	3073,67
55,00	11489,6	6265,49	4188,03	3067,95	2699,49	2478,28
60,00	9365,91	4970,09	3353,56	2584,50	2266,86	1984,41
65,00	7466,67	3848,75	2628,92	2075,50	1828,56	1600,37
70,00	5986,95	2894,82	1968,87	1615,63	1432,00	1299,51
75,00	4935,76	2178,26	1442,60	1204,86	1070,94	991,91
80,00	3985,54	1528,13	1041,00	839,89	750,93	674,05
85,00	2825,52	836,62	571,99	473,01	425,05	387,51

## 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