

## PHOTOMETRIC RESULTS

<b>Name:</b>	<b>REBA 50 /W EXT L1128+INT DIR BLINE 830 HO</b>		
<b>Number:</b>	90521+90535L004	<b>Diameter:</b>	0 mm
<b>Report:</b>	09-03-2020	<b>Length:</b>	1128 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	90 mm
<b>Lamp type:</b>	LED 830 - 01	<b>Height:</b>	54 mm
<b>Number:</b>	01	<b>Power:</b>	28,70 W
<b>Lamp flux:</b>	4320,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	09-03-2020 17:01:21	<b>Output ratio:</b>	57,0 %

## Protocol

**LiTG-class:** B11  
**UTE-class:** Not available  
**IES-class:** 10 - 32 - 64 - 69 - 57  
**TM5-class:** BZ10

<b>Divergences in the plane through maximum intensity:</b>	Horizontal	Vertical
<b>One half peak divergence</b>	11,5°	52,5°
<b>Half peak side angle (left)</b>	81,0°	45,9°
<b>Half peak side angle (right)</b>	92,5°	98,4°
<b>One tenth peak divergence</b>	0,0°	139,4°
<b>Tenth peak side angle (left)</b>	-9999,0°	17,6°
<b>Tenth peak side angle (right)</b>	-9999,0°	157,1°

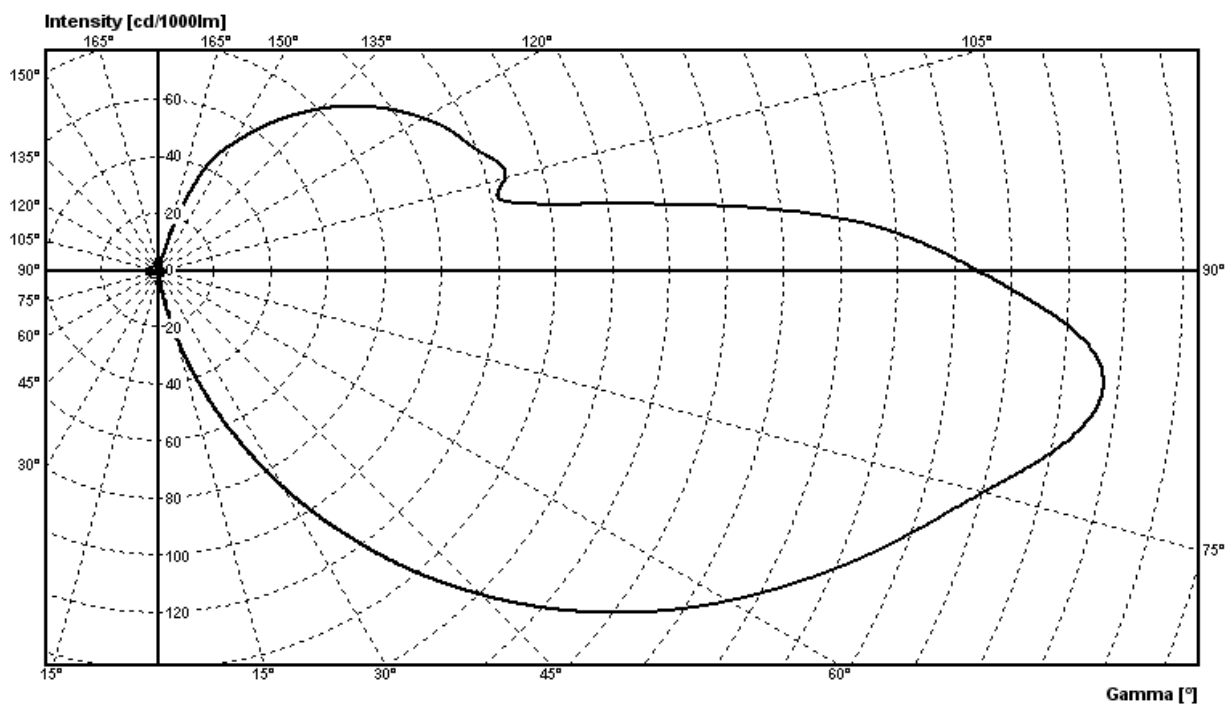
<b>C-planes:</b>	0,0°	15,0°	30,0°	45,0°	60,0°	75,0°	90,0°	105,0°	120,0°	135,0°
	150,0°	165,0°	180,0°	195,0°	210,0°	225,0°	240,0°	255,0°	270,0°	285,0°
	300,0°	315,0°	330,0°	345,0°						

<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°	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 /W EXT L1128+INT DIR BLINE 830 HO		
Number:	90521+90535L004	Diameter:	0 mm
Report:	09-03-2020	Length:	1128 mm
Meas.-no.:	01	Width:	90 mm
Lamp type:	LED 830 - 01	Height:	54 mm
Number:	01	Power:	28,70 W
Lamp flux:	4320,00 lm	Operator:	INDEL AGUE GROUP
Date:	09-03-2020 17:01:21	Output ratio:	57,0 %

Polar diagram REBA 50 /W EXT L1128+INT DIR BLINE 830 HO / Total in 15° C / 5° G



## PHOTOMETRIC RESULTS

<b>Name:</b>	<b>REBA 50 /W EXT L1128+INT DIR BLINE 830 HO</b>		
<b>Number:</b>	90521+90535L004	<b>Diameter:</b>	0 mm
<b>Report:</b>	09-03-2020	<b>Length:</b>	1128 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	90 mm
<b>Lamp type:</b>	LED 830 - 01	<b>Height:</b>	54 mm
<b>Number:</b>	01	<b>Power:</b>	28,70 W
<b>Lamp flux:</b>	4320,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	09-03-2020 17:01:21	<b>Output ratio:</b>	57,0 %

## 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>	18,6	19,9	19,3	20,7	21,7	13,9	15,3	14,6	16,1	17,0
<b>2H</b>	<b>3H</b>	22,0	23,2	22,7	24,0	25,0	16,0	17,3	16,7	18,1	19,0
<b>2H</b>	<b>4H</b>	23,7	25,0	24,5	25,8	26,7	17,0	18,2	17,7	19,0	20,0
<b>2H</b>	<b>6H</b>	25,5	26,7	26,3	27,5	28,5	18,0	19,2	18,7	20,0	21,0
<b>2H</b>	<b>8H</b>	26,3	27,5	27,1	28,3	29,3	18,4	19,5	19,1	20,3	21,3
<b>2H</b>	<b>12H</b>	27,1	28,2	27,8	29,0	30,0	18,8	19,9	19,5	20,7	21,7
<b>4H</b>	<b>2H</b>	19,2	20,5	20,0	21,3	22,2	17,0	18,2	17,7	19,0	20,0
<b>4H</b>	<b>3H</b>	22,9	24,0	23,6	24,8	25,8	19,3	20,4	20,0	21,2	22,2
<b>4H</b>	<b>4H</b>	24,9	25,9	25,6	26,7	27,8	20,4	21,5	21,2	22,3	23,3
<b>4H</b>	<b>6H</b>	26,8	27,8	27,6	28,6	29,7	21,4	22,4	22,2	23,2	24,2
<b>4H</b>	<b>8H</b>	27,8	28,7	28,6	29,6	30,6	21,8	22,7	22,6	23,5	24,6
<b>4H</b>	<b>12H</b>	28,7	29,6	29,5	30,4	31,5	22,2	23,0	23,0	23,9	24,9
<b>8H</b>	<b>4H</b>	25,2	26,2	26,0	27,0	28,0	22,3	23,2	23,1	24,1	25,1
<b>8H</b>	<b>6H</b>	27,5	28,3	28,3	29,1	30,2	23,6	24,4	24,5	25,3	26,4
<b>8H</b>	<b>8H</b>	28,7	29,4	29,5	30,3	31,3	24,3	25,0	25,1	25,9	26,9
<b>8H</b>	<b>12H</b>	29,8	30,4	30,6	31,3	32,4	24,7	25,3	25,5	26,2	27,3
<b>12H</b>	<b>4H</b>	25,3	26,2	26,1	27,0	28,1	22,8	23,7	23,6	24,5	25,6
<b>12H</b>	<b>6H</b>	27,7	28,4	28,5	29,3	30,3	24,4	25,1	25,2	26,0	27,0
<b>12H</b>	<b>8H</b>	28,9	29,5	29,7	30,4	31,5	25,1	25,7	25,9	26,6	27,7

UGR values are corrected for lamp flux of 4320 lm by 5,1

## PHOTOMETRIC RESULTS

<b>Name:</b>	<b>REBA 50 /W EXT L1128+INT DIR BLINE 830 HO</b>		
<b>Number:</b>	90521+90535L004	<b>Diameter:</b>	0 mm
<b>Report:</b>	09-03-2020	<b>Length:</b>	1128 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	90 mm
<b>Lamp type:</b>	LED 830 - 01	<b>Height:</b>	54 mm
<b>Number:</b>	01	<b>Power:</b>	28,70 W
<b>Lamp flux:</b>	4320,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	09-03-2020 17:01:21	<b>Output ratio:</b>	57,0 %

Luminance [cd/m<sup>2</sup>] REBA 50 /W EXT L1128+INT DIR BLINE 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	15910,0	15216,0	14332,3	12617,2	10247,0	5674,62	11346,9	444,95	247,66
50,00	16950,1	16219,3	15209,1	13499,9	11208,9	6599,55	12445,6	420,56	229,93
55,00	17918,9	17106,8	16063,6	14344,9	12074,4	7578,70	13849,0	412,27	243,11
60,00	18831,4	17938,6	16819,7	15091,4	12908,8	8544,49	15638,4	407,80	256,64
65,00	19772,0	18824,4	17600,5	15827,7	13665,2	9489,42	18050,4	416,04	270,84
70,00	20799,7	19794,9	18452,8	16609,6	14444,5	10416,1	21478,8	417,73	262,20
75,00	22003,8	20928,6	19500,8	17569,3	15358,2	11428,6	27022,1	426,91	279,24
80,00	23597,3	22492,2	20995,7	18815,9	16488,5	12559,3	37795,0	434,59	297,71
85,00	23559,6	22921,4	21570,6	20220,4	17988,8	13804,0	75242,0	445,43	295,27

G/C [cd/	135,00	150,00	165,00	180,00	195,00	210,00	225,00	240,00	255,00
45,00	199,22	163,49	146,94	157,84	163,26	181,65	243,49	371,49	757,00
50,00	184,65	168,24	151,16	175,35	166,28	185,07	246,20	373,63	760,24
55,00	192,55	173,58	170,08	178,09	184,25	205,13	250,32	378,17	758,38
60,00	219,25	194,53	174,68	194,81	188,12	209,50	255,79	384,96	767,06
65,00	227,61	200,66	193,01	198,96	193,01	214,99	262,63	393,95	794,68
70,00	237,04	221,66	198,94	216,29	211,38	221,66	270,90	381,38	821,85
75,00	247,69	229,58	218,13	222,50	218,13	229,58	280,71	395,59	818,24
80,00	259,75	238,89	226,23	230,11	226,23	225,62	275,99	389,31	860,41
85,00	273,47	249,75	235,82	227,85	224,03	249,75	289,55	408,84	899,60

G/C [cd/	270,00	285,00	300,00	315,00	330,00	345,00
45,00	16515,2	8529,26	13869,0	15959,7	17438,6	17844,6
50,00	18993,6	9915,50	14973,9	16905,7	18355,3	18758,8
55,00	22090,3	11406,2	16045,1	17733,8	19124,8	19572,9
60,00	26086,8	12612,8	16912,3	18526,3	19917,3	20411,0
65,00	31585,0	13743,3	17727,8	19311,9	20753,7	21320,6
70,00	39343,5	14834,1	18449,0	20131,3	21666,8	22306,6
75,00	51712,1	15662,1	19174,6	21053,5	22796,0	23570,4
80,00	73090,8	16145,8	20015,3	21932,9	23397,9	24218,7
85,00	119996,	15297,5	18306,8	19753,9	20637,3	21424,0

## 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