

PHOTOMETRIC RESULTS

| | | | |
|-------------------|---|----------------------|------------------|
| Name: | REBA 50 /W EXT L1688+INT D/I BLINE 830 HO | | |
| Number: | 90521+90536L006 | Diameter: | 0 mm |
| Report: | 09-03-2020 | Length: | 1688 mm |
| Meas.-no.: | 01 | Width: | 90 mm |
| Lamp type: | LED 830 - 01 | Height: | 54 mm |
| Number: | 01 | Power: | 87,57 W |
| Lamp flux: | 12960,00 lm | Operator: | INDEL AGUE GROUP |
| Date: | 09-03-2020 9:06:50 | Output ratio: | 60,8 % |

Protocol

LiTG-class: B11
UTE-class: Not available
IES-class: 10 - 32 - 64 - 63 - 61
TM5-class: BZ10

| | | |
|--|------------|----------|
| Divergences in the plane through maximum intensity: | Horizontal | Vertical |
| One half peak divergence | -13,1° | 215,4° |
| Half peak side angle (left) | 6,6° | -107,7° |
| Half peak side angle (right) | -6,6° | 107,7° |
| One tenth peak divergence | 0,0° | 322,7° |
| Tenth peak side angle (left) | -9999,0° | -161,3° |
| Tenth peak side angle (right) | -9999,0° | 161,3° |

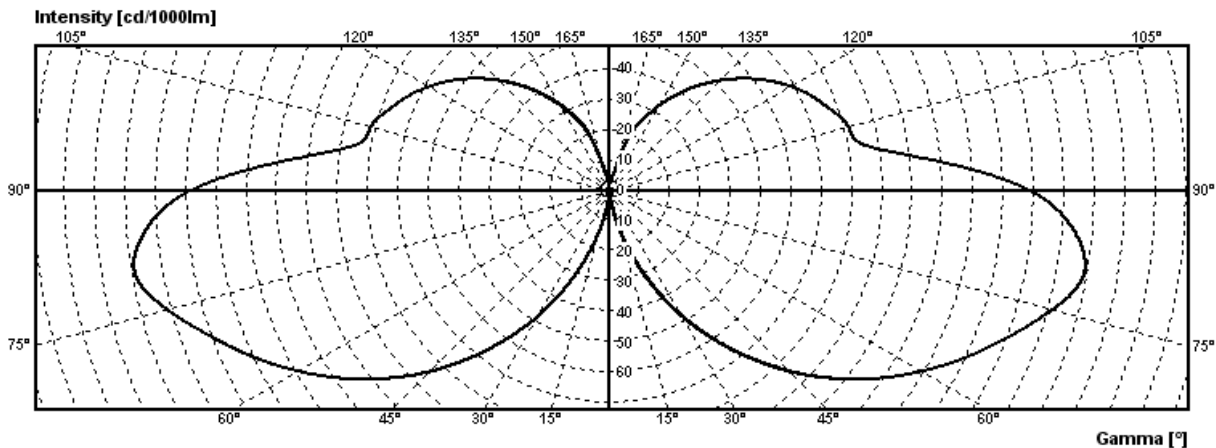
| | | | | | | | | | | |
|------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| C-planes: | 0,0° | 15,0° | 30,0° | 45,0° | 60,0° | 75,0° | 90,0° | 105,0° | 120,0° | 135,0° |
| | 150,0° | 165,0° | 180,0° | 195,0° | 210,0° | 225,0° | 240,0° | 255,0° | 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° | 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° | | | |

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Polar diagram REBA 50 /W EXT L1688+INT D/I BLINE 830 HO / Total in 15° C / 5° G



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UGR Unified Glare Ratios

| | | | | | | | | | | | |
|---------------------------------|------------|------------------|------------|------------|------------|------------|----------------|------------|------------|------------|------------|
| Ceiling reflectance | | 0,7 | 0,7 | 0,5 | 0,5 | 0,3 | 0,7 | 0,7 | 0,5 | 0,5 | 0,3 |
| Wall reflectance | | 0,5 | 0,3 | 0,5 | 0,3 | 0,3 | 0,5 | 0,3 | 0,5 | 0,3 | 0,3 |
| Floor cavity reflectance | | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 | 0,2 |
| Room dimension | | Viewed crosswise | | | | | Viewed endwise | | | | |
| 2H | 2H | 21,0 | 22,2 | 21,7 | 23,1 | 24,1 | 15,0 | 16,3 | 15,8 | 17,2 | 18,2 |
| 2H | 3H | 24,3 | 25,5 | 25,1 | 26,3 | 27,4 | 17,1 | 18,3 | 17,9 | 19,2 | 20,2 |
| 2H | 4H | 26,0 | 27,1 | 26,8 | 28,0 | 29,0 | 18,2 | 19,3 | 19,0 | 20,2 | 21,2 |
| 2H | 6H | 27,6 | 28,7 | 28,4 | 29,6 | 30,7 | 19,2 | 20,3 | 20,0 | 21,2 | 22,3 |
| 2H | 8H | 28,4 | 29,4 | 29,2 | 30,3 | 31,4 | 19,7 | 20,7 | 20,5 | 21,6 | 22,7 |
| 2H | 12H | 29,0 | 30,1 | 29,8 | 30,9 | 32,0 | 20,1 | 21,2 | 21,0 | 22,0 | 23,1 |
| 4H | 2H | 21,7 | 22,8 | 22,5 | 23,7 | 24,8 | 18,2 | 19,3 | 19,0 | 20,2 | 21,3 |
| 4H | 3H | 25,2 | 26,2 | 26,0 | 27,1 | 28,2 | 20,5 | 21,5 | 21,3 | 22,4 | 23,5 |
| 4H | 4H | 27,1 | 28,1 | 28,0 | 29,0 | 30,1 | 21,6 | 22,6 | 22,5 | 23,5 | 24,6 |
| 4H | 6H | 29,0 | 29,9 | 29,8 | 30,8 | 31,9 | 22,6 | 23,5 | 23,5 | 24,4 | 25,5 |
| 4H | 8H | 29,8 | 30,7 | 30,7 | 31,6 | 32,7 | 23,1 | 23,9 | 24,0 | 24,8 | 26,0 |
| 4H | 12H | 30,7 | 31,4 | 31,5 | 32,3 | 33,5 | 23,5 | 24,3 | 24,4 | 25,2 | 26,3 |
| 8H | 4H | 27,5 | 28,4 | 28,4 | 29,3 | 30,4 | 23,6 | 24,4 | 24,4 | 25,3 | 26,4 |
| 8H | 6H | 29,6 | 30,4 | 30,5 | 31,3 | 32,4 | 24,9 | 25,7 | 25,8 | 26,6 | 27,7 |
| 8H | 8H | 30,7 | 31,4 | 31,6 | 32,3 | 33,5 | 25,6 | 26,3 | 26,5 | 27,2 | 28,3 |
| 8H | 12H | 31,7 | 32,3 | 32,6 | 33,3 | 34,4 | 26,1 | 26,7 | 27,0 | 27,6 | 28,8 |
| 12H | 4H | 27,6 | 28,4 | 28,5 | 29,3 | 30,4 | 24,1 | 24,9 | 24,9 | 25,8 | 26,9 |
| 12H | 6H | 29,8 | 30,5 | 30,7 | 31,4 | 32,6 | 25,7 | 26,4 | 26,6 | 27,3 | 28,4 |
| 12H | 8H | 30,9 | 31,5 | 31,8 | 32,5 | 33,6 | 26,5 | 27,0 | 27,3 | 28,0 | 29,1 |

UGR values are corrected for lamp flux of 12960 lm by 8,9

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Luminance [cd/m²] REBA 50 /W EXT L1688+INT D/I 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 | 16746,0 | 16432,5 | 15637,0 | 14338,0 | 12122,8 | 7861,12 | 26319,7 | 7861,12 | 12122,8 |
| 50,00 | 17676,6 | 17352,1 | 16539,7 | 15295,0 | 13144,1 | 8948,82 | 30085,5 | 8948,82 | 13144,1 |
| 55,00 | 18551,0 | 18182,0 | 17336,5 | 16133,9 | 14097,7 | 10121,5 | 34867,0 | 10121,5 | 14097,7 |
| 60,00 | 19375,4 | 19003,9 | 18080,6 | 16869,4 | 14926,9 | 11179,7 | 40958,6 | 11179,7 | 14926,9 |
| 65,00 | 20231,7 | 19822,0 | 18838,0 | 17564,9 | 15676,8 | 12191,3 | 49272,0 | 12191,3 | 15676,8 |
| 70,00 | 21124,7 | 20687,5 | 19622,3 | 18290,7 | 16413,2 | 13226,1 | 61642,9 | 13226,1 | 16413,2 |
| 75,00 | 22200,4 | 21706,7 | 20547,4 | 19113,7 | 17235,0 | 14211,0 | 81420,0 | 14211,0 | 17235,0 |
| 80,00 | 22912,9 | 22596,7 | 21450,1 | 20138,0 | 18172,7 | 15174,8 | 117875,0 | 15174,8 | 18172,7 |
| 85,00 | 21977,7 | 21583,9 | 20624,7 | 19720,5 | 18209,6 | 15703,2 | 202900,0 | 15703,2 | 18209,6 |

| G/C [cd/ | 135,00 | 150,00 | 165,00 | 180,00 | 195,00 | 210,00 | 225,00 | 240,00 | 255,00 |
|----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 45,00 | 14338,0 | 15637,0 | 16432,5 | 16746,0 | 16432,5 | 15637,0 | 14338,0 | 12122,8 | 7861,12 |
| 50,00 | 15295,0 | 16539,7 | 17352,1 | 17676,6 | 17352,1 | 16539,7 | 15295,0 | 13144,1 | 8948,82 |
| 55,00 | 16133,9 | 17336,5 | 18182,0 | 18551,0 | 18182,0 | 17336,5 | 16133,9 | 14097,7 | 10121,5 |
| 60,00 | 16869,4 | 18080,6 | 19003,9 | 19375,4 | 19003,9 | 18080,6 | 16869,4 | 14926,9 | 11179,7 |
| 65,00 | 17564,9 | 18838,0 | 19822,0 | 20231,7 | 19822,0 | 18838,0 | 17564,9 | 15676,8 | 12191,3 |
| 70,00 | 18290,7 | 19622,3 | 20687,5 | 21124,7 | 20687,5 | 19622,3 | 18290,7 | 16413,2 | 13226,1 |
| 75,00 | 19113,7 | 20547,4 | 21706,7 | 22200,4 | 21706,7 | 20547,4 | 19113,7 | 17235,0 | 14211,0 |
| 80,00 | 20138,0 | 21450,1 | 22596,7 | 22912,9 | 22596,7 | 21450,1 | 20138,0 | 18172,7 | 15174,8 |
| 85,00 | 19720,5 | 20624,7 | 21583,9 | 21977,7 | 21583,9 | 20624,7 | 19720,5 | 18209,6 | 15703,2 |

| G/C [cd/ | 270,00 | 285,00 | 300,00 | 315,00 | 330,00 | 345,00 |
|----------|----------|---------|---------|---------|---------|---------|
| 45,00 | 26319,7 | 7861,12 | 12122,8 | 14338,0 | 15637,0 | 16432,5 |
| 50,00 | 30085,5 | 8948,82 | 13144,1 | 15295,0 | 16539,7 | 17352,1 |
| 55,00 | 34867,0 | 10121,5 | 14097,7 | 16133,9 | 17336,5 | 18182,0 |
| 60,00 | 40958,6 | 11179,7 | 14926,9 | 16869,4 | 18080,6 | 19003,9 |
| 65,00 | 49272,0 | 12191,3 | 15676,8 | 17564,9 | 18838,0 | 19822,0 |
| 70,00 | 61642,9 | 13226,1 | 16413,2 | 18290,7 | 19622,3 | 20687,5 |
| 75,00 | 81420,0 | 14211,0 | 17235,0 | 19113,7 | 20547,4 | 21706,7 |
| 80,00 | 117875,0 | 15174,8 | 18172,7 | 20138,0 | 21450,1 | 22596,7 |
| 85,00 | 202900,0 | 15703,2 | 18209,6 | 19720,5 | 20624,7 | 21583,9 |

HEADQUARTERS

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REBA 50 /W EXT L1688+INT D/I BLINE 830 HO

Luminance [cd/m²] REBA 50 /W EXT L1688+INT D/I BLINE 830 HO / Total in 15° C / 5°
G