

## PHOTOMETRIC RESULTS

<b>Name:</b>	<b>TTP 70 LINE L0620 TUP 840 SRT/MID LO</b>		
<b>Number:</b>	90489L060-58	<b>Diameter:</b>	0 mm
<b>Report:</b>	14-01-2020	<b>Length:</b>	620 mm
<b>Meas.-no.:</b>	01	<b>Width:</b>	70 mm
<b>Lamp type:</b>	LED 840 - 01	<b>Height:</b>	70 mm
<b>Number:</b>	1	<b>Power:</b>	12,66 W
<b>Lamp flux:</b>	1900,00 lm	<b>Operator:</b>	INDEL AGUE GROUP
<b>Date:</b>	14-01-2020 8:56:09	<b>Output ratio:</b>	90,4 %

## Protocol

**LiTG-class:** A42  
**UTE-class:** 0,88 E + 0,02 T  
**IES-class:** 48 - 80 - 96 - 97 - 90  
**TM5-class:** BZ4

<b>Divergences in the plane through maximum intensity:</b>	Horizontal	Vertical
<b>One half peak divergence</b>	109,2°	114,1°
<b>Half peak side angle (left)</b>	-54,6°	-57,1°
<b>Half peak side angle (right)</b>	54,6°	57,1°
<b>One tenth peak divergence</b>	152,4°	161,2°
<b>Tenth peak side angle (left)</b>	-76,2°	-80,6°
<b>Tenth peak side angle (right)</b>	76,2°	80,6°

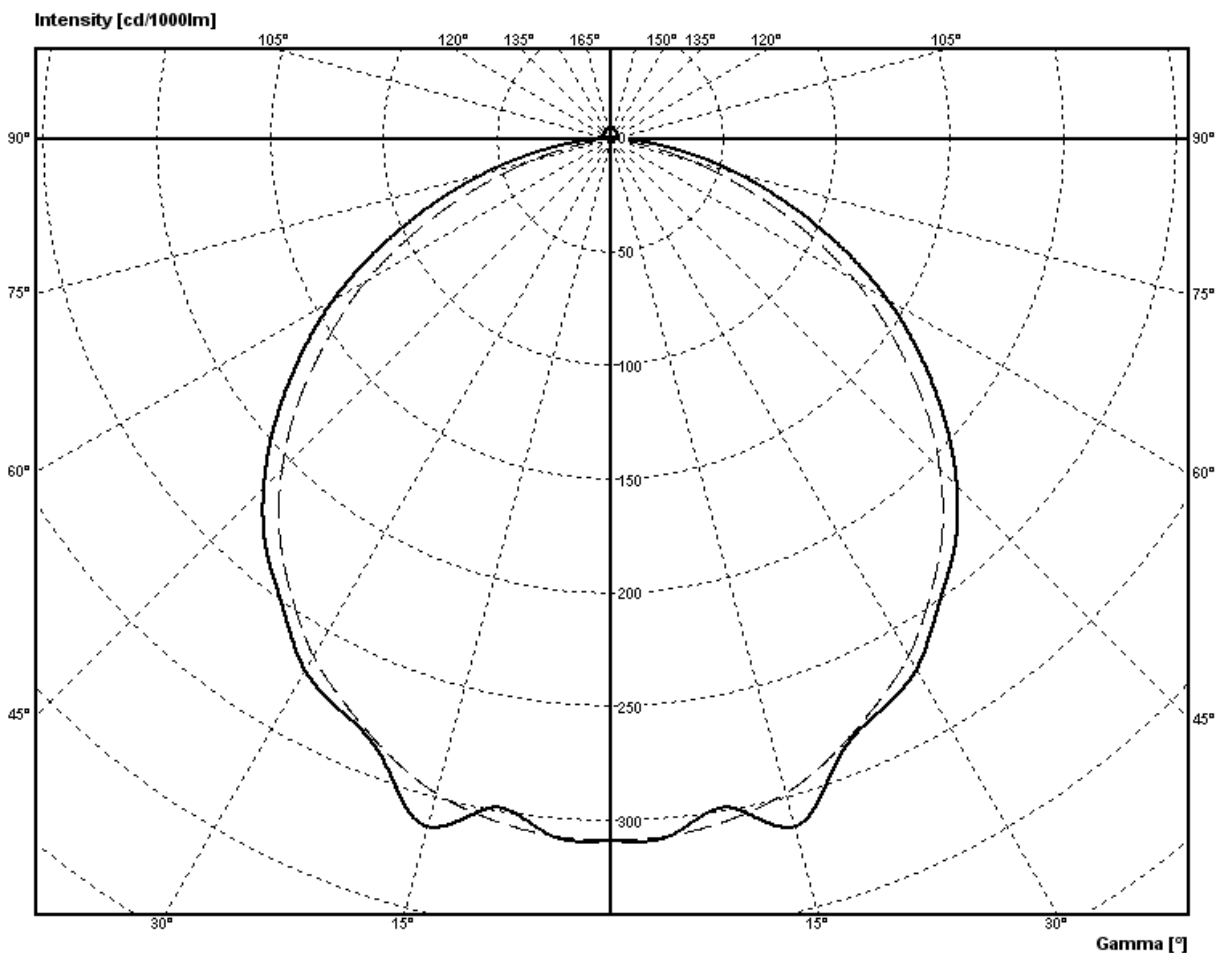
<b>C-planes:</b>	0,0°	15,0°	30,0°	45,0°	60,0°	75,0°	90,0°	105,0°	120,0°	135,0°
	150,0°	165,0°	180,0°	195,0°	210,0°	225,0°	240,0°	255,0°	270,0°	285,0°
	300,0°	315,0°	330,0°	345,0°						

<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°	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 TTP 70 LINE L0620 TUP 840 SRT/MID LO / Total in 15° C / 5° G



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

UGR values are corrected for lamp flux of 1900 lm by 2,2

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Luminance [cd/m<sup>2</sup>] TTP 70 LINE L0620 TUP 840 SRT/MID LO / 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	6768,59	6794,04	6869,46	7437,74	8033,37	9356,38	11527,4	9356,38	8033,37
50,00	6058,05	6108,74	6201,54	6728,46	7468,75	9373,28	10906,3	9373,28	7468,75
55,00	5319,16	5404,40	5505,66	5969,06	6696,57	8364,34	10083,1	8364,34	6696,57
60,00	4574,66	4559,54	4719,91	5099,35	5697,06	6610,49	9191,70	6610,49	5697,06
65,00	3738,72	3721,62	3888,74	4221,25	4720,44	5630,23	7835,59	5630,23	4720,44
70,00	2883,62	2920,77	3056,62	3318,20	3775,18	4394,17	6187,53	4394,17	3775,18
75,00	2084,63	2084,59	2177,33	2401,83	2677,86	3054,73	4309,80	3054,73	2677,86
80,00	1287,37	1301,69	1380,66	1504,42	1706,13	1828,32	2274,32	1828,32	1706,13
85,00	598,53	580,15	634,07	689,50	884,62	911,35	839,42	911,35	884,62

G/C [cd/	135,00	150,00	165,00	180,00	195,00	210,00	225,00	240,00	255,00
45,00	7437,74	6869,46	6794,04	6768,59	6794,04	6869,46	7437,74	8033,37	9356,38
50,00	6728,46	6201,54	6108,74	6058,05	6108,74	6201,54	6728,46	7468,75	9373,28
55,00	5969,06	5505,66	5404,40	5319,16	5404,40	5505,66	5969,06	6696,57	8364,34
60,00	5099,35	4719,91	4559,54	4574,66	4559,54	4719,91	5099,35	5697,06	6610,49
65,00	4221,25	3888,74	3721,62	3738,72	3721,62	3888,74	4221,25	4720,44	5630,23
70,00	3318,20	3056,62	2920,77	2883,62	2920,77	3056,62	3318,20	3775,18	4394,17
75,00	2401,83	2177,33	2084,59	2084,63	2084,59	2177,33	2401,83	2677,86	3054,73
80,00	1504,42	1380,66	1301,69	1287,37	1301,69	1380,66	1504,42	1706,13	1828,32
85,00	689,50	634,07	580,15	598,53	580,15	634,07	689,50	884,62	911,35

G/C [cd/	270,00	285,00	300,00	315,00	330,00	345,00
45,00	11527,4	9356,38	8033,37	7437,74	6869,46	6794,04
50,00	10906,3	9373,28	7468,75	6728,46	6201,54	6108,74
55,00	10083,1	8364,34	6696,57	5969,06	5505,66	5404,40
60,00	9191,70	6610,49	5697,06	5099,35	4719,91	4559,54
65,00	7835,59	5630,23	4720,44	4221,25	3888,74	3721,62
70,00	6187,53	4394,17	3775,18	3318,20	3056,62	2920,77
75,00	4309,80	3054,73	2677,86	2401,83	2177,33	2084,59
80,00	2274,32	1828,32	1706,13	1504,42	1380,66	1301,69
85,00	839,42	911,35	884,62	689,50	634,07	580,15

## HEADQUARTERS

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