

Luminaire

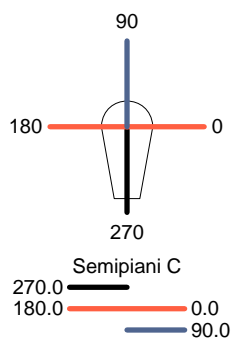
Code TTU LWW 31
Name Tubes Large Wall 2x13W

Measurement

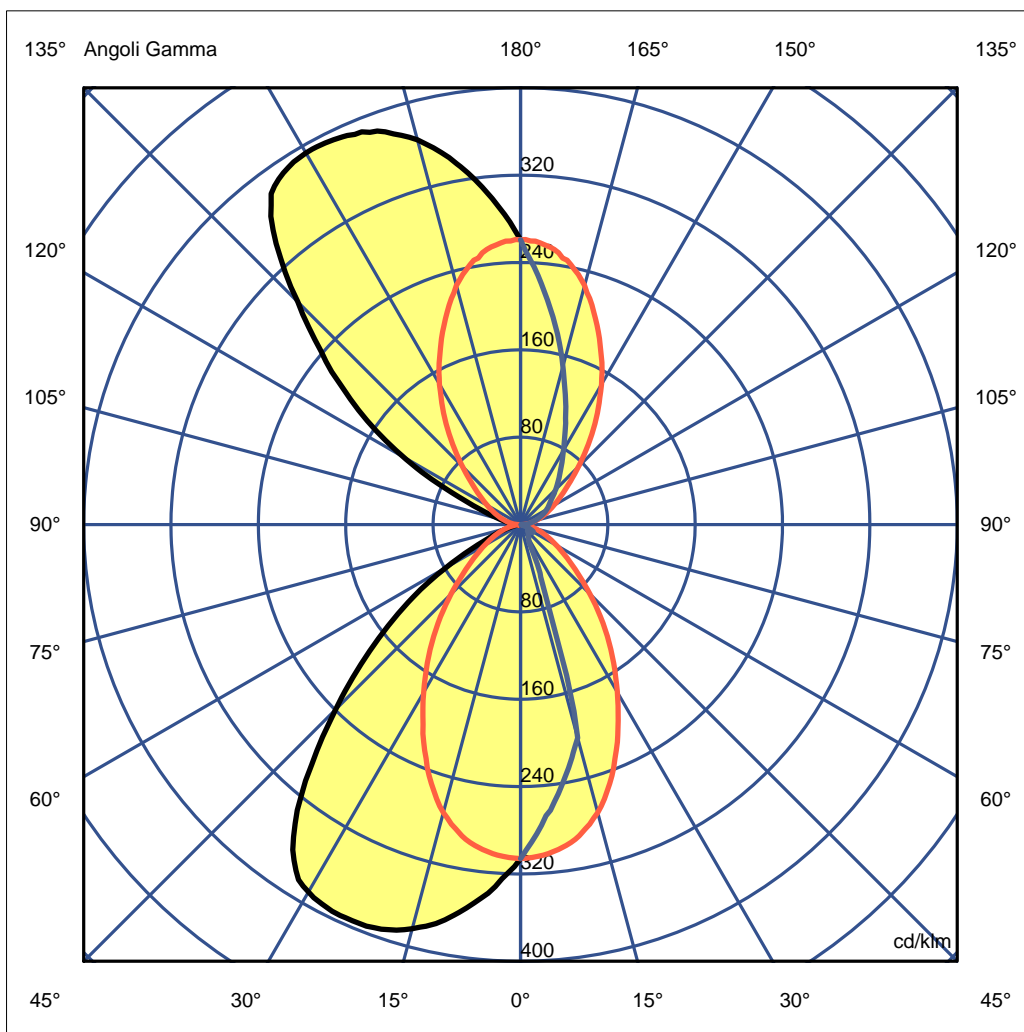
Code t112018
Name Tubes Large Wall 2x13W

Luminaire Flux	1280.00 lm	Luminaire Power	26.00 W	Efficacy	49.23 lm/W	Efficiency	100.00%
Lamps Flux	1280.00 lm	Maximum value	394.10 cd/klm	Position	C=270.00 G=23.00	CG	Sym. on planes 270-90
Rectangular Luminaire		Length	178 mm	Width	145 mm	Height	310 mm
Rectangular Luminous Area		Length	178 mm	Width	145 mm	Height	155 mm
Horizontal Luminous Area		0.025810 m2		Emitting area on Plane 180°		0.027590 m2	
Emitting area on Plane 0°		0.027590 m2		Emitting area on Plane 270°		0.022475 m2	
Emitting area on Plane 90°		0.022475 m2		Glare area at 76°		0.033014 m2	
Coordinate system		CG Roads		Symmetry Type		Sym. on planes 270-90	
Date		27-01-2000		Maximum Gamma Angle		180	
Measurement Distance		0.00		Measurement Flux		1280.00 lm	
Operator				Source Voltage [V]		120.00 V	
Temperature		25.00 °C		Source current [A]			
Humidity		60.00 %		Photocell			
Notes							

Line	Code	Luminaire Lamps	Flux [lm]	Pow. [W]	Q.ty
	Led	Name	1280.00	26.00	1
C.I.E.	66 91 98 50 100	D DIN 5040	C51		



ULOR 50.17 %
DLOR 49.83 %
RN 50.17 %



Luminaire

Code TTU LWW 31
Name Tubes Large Wall 2x13W

Measurerm.

Code tl12018
Name Tubes Large Wall 2x13W

Luminaire Flux	1280.00 lm		Luminaire Power		26.00 W		Efficacy		49.23 lm/W		Efficiency		100.00%	
Lamps Flux	1280.00 lm		Maximum value		394.10 cd/klm		Position		C=270.00 G=23.00		CG Sym. on planes		270-90	
Luminous Intensity Table cd/klm Table 1/6														
	C 270.00	C 280.00	C 290.00	C 300.00	C 310.00	C 320.00	C 330.00	C 340.00	C 350.00	C 0.00	C 10.00	C 20.00	C 30.00	
G 0.0	305.83	305.83	305.83	305.83	305.83	305.83	305.83	305.83	305.83	305.83	305.83	305.83	305.83	
G 1.0	313.30	313.06	312.58	312.09	311.45	310.36	310.14	308.06	306.77	305.55	304.35	302.62	302.31	
G 2.0	318.86	319.01	319.28	317.13	316.50	314.26	312.95	309.81	307.50	305.00	302.78	300.81	298.57	
G 3.0	324.78	325.33	325.01	322.11	321.14	317.83	315.64	311.17	307.89	304.23	301.27	297.76	294.83	
G 4.0	332.34	331.11	330.69	328.13	325.82	321.42	318.24	312.43	308.16	303.38	299.25	295.00	290.48	
G 5.0	338.85	337.13	336.30	332.56	330.23	324.50	320.50	313.24	308.43	302.27	297.07	291.61	286.22	
G 6.0	343.89	342.42	341.59	337.11	334.29	327.39	322.70	314.22	308.23	300.65	294.55	288.15	281.95	
G 7.0	349.08	347.45	346.76	341.75	337.83	330.20	324.49	314.56	307.33	298.75	291.92	285.07	277.02	
G 8.0	354.43	352.92	351.47	345.59	341.39	332.80	326.03	314.76	306.57	297.10	288.92	280.71	271.40	
G 9.0	359.53	357.52	355.73	349.25	344.21	334.78	327.12	314.76	305.38	294.88	285.30	276.82	265.72	
G 10.0	364.33	361.75	360.22	353.48	347.07	336.33	328.06	314.19	303.92	292.20	281.71	272.78	262.06	
G 11.0	369.60	365.93	364.42	357.07	349.80	338.04	328.63	313.64	302.22	288.82	277.39	268.41	256.53	
G 12.0	373.46	369.76	367.55	359.58	352.15	339.07	328.96	312.42	299.46	284.98	273.05	263.28	250.82	
G 13.0	377.13	373.10	371.03	361.73	353.97	339.71	328.92	311.06	297.09	281.54	268.94	258.64	245.61	
G 14.0	379.90	376.18	373.87	364.01	355.76	340.29	328.63	309.10	293.89	277.02	262.86	252.87	239.36	
G 15.0	383.18	379.16	376.38	365.93	357.10	341.39	327.70	306.42	290.24	273.09	259.36	247.49	232.81	
G 16.0	385.96	381.45	378.89	367.45	357.85	341.35	326.31	303.37	286.43	268.18	253.22	240.66	226.11	
G 17.0	388.46	383.69	380.69	368.63	358.54	340.76	324.46	299.72	281.60	262.68	247.53	234.83	219.60	
G 18.0	390.06	385.56	382.03	369.65	359.07	339.43	322.20	295.37	276.51	256.64	241.07	227.68	212.86	
G 19.0	391.83	386.72	383.35	370.17	359.08	337.76	319.07	290.38	271.02	250.76	234.95	220.59	206.09	
G 20.0	392.81	387.59	384.27	370.42	358.67	335.86	315.29	285.37	265.05	244.74	228.19	214.97	199.07	
G 21.0	393.96	388.41	384.94	370.25	358.00	332.97	311.09	279.66	258.92	238.30	221.16	207.18	193.10	
G 22.0	393.98	388.62	385.21	369.77	356.62	329.28	306.44	273.50	251.97	230.88	214.07	200.59	185.82	
G 23.0	394.10	388.73	384.85	368.88	354.70	325.23	301.20	266.80	245.60	224.61	208.11	193.47	179.04	
G 24.0	394.08	388.56	384.25	368.05	351.90	320.66	295.37	260.25	238.73	218.00	201.72	187.09	173.00	
G 25.0	394.05	388.14	383.47	366.61	348.11	315.36	288.71	254.36	231.60	211.37	194.48	180.68	166.48	
G 26.0	393.96	387.27	382.40	363.79	344.33	309.00	282.17	246.76	223.83	203.63	188.61	174.29	160.52	
G 27.0	392.90	386.31	380.96	360.60	338.44	302.15	275.09	239.64	216.82	196.80	182.02	167.93	154.43	
G 28.0	391.64	384.69	379.30	355.97	333.09	295.63	267.80	232.83	209.32	190.45	175.41	161.62	149.04	
G 29.0	390.65	382.79	376.94	350.82	326.71	288.26	260.42	225.69	201.87	184.04	169.24	155.86	143.00	
G 30.0	388.48	380.48	372.85	344.22	319.86	280.20	252.67	217.97	195.58	177.38	163.08	149.93	137.42	
G 31.0	386.34	377.67	367.90	337.62	311.18	272.21	245.06	210.67	188.95	170.87	157.03	143.67	132.43	
G 32.0	383.50	373.22	361.32	330.00	303.34	263.76	237.19	203.79	181.94	164.52	150.60	138.13	127.01	
G 33.0	377.67	366.50	354.03	320.82	295.31	256.21	229.76	196.11	174.99	158.58	144.67	132.71	121.37	
G 34.0	370.90	358.93	346.19	311.24	286.87	246.82	221.49	188.86	168.49	152.21	139.10	127.14	116.36	
G 35.0	363.54	349.31	337.23	301.59	277.03	238.51	213.71	181.75	161.59	146.52	133.53	121.77	111.62	
G 36.0	353.53	339.46	327.08	292.15	267.77	231.23	204.88	174.69	155.67	140.37	128.03	117.29	106.98	
G 37.0	342.78	328.30	316.27	280.44	258.39	221.62	197.53	168.00	149.37	134.86	122.70	112.49	102.14	
G 38.0	332.03	316.42	304.79	271.00	249.08	213.13	189.60	161.26	142.84	128.38	117.33	107.08	97.59	
G 39.0	318.84	302.93	292.60	260.43	239.52	204.92	181.88	153.60	136.68	123.00	112.20	101.96	93.66	
G 40.0	306.20	289.98	280.04	250.47	229.80	196.74	174.20	146.94	130.20	117.22	106.91	97.74	89.23	
G 41.0	291.52	276.67	269.20	239.55	219.79	187.45	166.13	139.55	123.92	111.62	101.92	93.31	85.22	
G 42.0	278.56	264.43	257.42	229.41	210.18	179.22	158.16	132.56	117.58	105.80	97.05	88.84	81.37	
G 43.0	265.87	252.26	244.98	219.52	200.58	170.65	150.40	125.92	111.37	100.57	92.06	84.80	77.44	
G 44.0	251.85	239.04	233.25	208.42	191.11	162.14	142.67	119.40	105.16	95.22	87.50	80.67	74.01	
G 45.0	239.42	228.17	222.83	198.65	182.25	153.34	134.94	112.03	99.17	90.07	83.06	76.47	70.44	
G 46.0	227.54	215.35	211.35	188.39	172.10	145.07	127.31	105.70	93.81	85.11	78.76	72.97	67.15	
G 47.0	215.37	204.71	199.30	178.81	162.69	136.78	120.33	100.07	88.22	80.56	74.73	69.51	63.94	
G 48.0	203.90	193.91	189.94	168.79	153.65	128.39	112.43	93.16	82.80	75.98	70.71	65.88	60.85	
G 49.0	191.18	181.85	179.23	158.00	144.33	119.90	105.22	86.73	77.49	71.64	67.04	62.41	57.87	
G 50.0	180.42	171.93	168.71	148.65	134.32	111.60	98.01	80.72	72.77	67.43	63.47	59.53	55.44	
G 51.0	169.79	161.97	158.58	139.63	125.27	103.83	91.63	75.78	67.97	63.44	60.18	56.65	52.87	
G 52.0	158.52	151.21	148.34	129.53	116.39	96.28	84.33	70.28	63.50	60.02	57.00	53.87	50.26	
G 53.0	148.20	141.02	137.86	118.61	107.23	88.16	77.75	65.15	59.67	56.50	53.96	51.17	47.95	
G 54.0	138.75	131.08	127.31	109.71	98.47	81.13	71.61	60.43	55.92	53.35	51.28	48.81	45.68	
G 55.0	128.45	120.91	116.71	100.93	90.57	74.30	66.16	56.32	52.40	50.29	48.64	46.50	43.57	
G 56.0	118.43	110.20	107.64	91.76	82.94	67.46	61.07	52.53	49.36	47.70	46.23	44.20	41.62	
G 57.0	109.06	100.82	97.13	82.74	75.20	62.30	56.44	48.90	46.37	45.13	44.02	42.07	39.71	
G 58.0	98.47	91.95	87.73	74.62	67.77	56.63	51.89	45.58	43.57	42.45	41.79	39.95	37.68	
G 59.0	88.98	82.92	78.78	67.51	61.33	51.82	47.81	42.77	40.97	40.29	39.62	38.00	35.85	
G 60.0	79.02	73.32	70.51	60.35	55.70	47.35	44.32	39.97	38.72	38.36	37.77	36.14	34.14	
G 61.0	70.06	64.82	62.99	53.51	49.88	43.28	41.19	37.55	36.58	36.26	35.84	34.40	32.39	
G 62.0	62.47	57.43	55.78	48.49	45.34	40.11	38.22	35.19	34.47	34.31	33.98	32.70	30.54	
G 63.0	53.53	50.63	49.39	43.40	41.23	36.83	35.64	33.01	32.54	32.47	32.15	30.83	28.93	
G 64.0	47.47	43.76	43.78	38.61	37.47	33.77	33.25	30.90	30.62	30.55	30.46	29.29	27.47	
G 65.0	41.12	38.44	38.80	35.05	34.10	31.41	30.86	28.90	28.68	28.86	28.73	27.67	25.95	
G 66.0	36.55	34.14	34.43	31.50	31.14	28.92	28.76	27.02	26.96	26.96	27.04	26.03	24.42	
G 67.0	31.80	29.99	30.69	28.34	28.50	26.57	26.53	25.01	25.14	25.43	25.49	24.53	23.04	

Luminaire

Code TTU LWW 31
Name Tubes Large Wall 2x13W

Measur.

Code tl112018
Name Tubes Large Wall 2x13W

Luminaire Flux	1280.00 lm	Luminaire Power	26.00 W	Efficacy	49.23 lm/W	Efficiency	100.00%
Lamps Flux	1280.00 lm	Maximum value	394.10 cd/klm	Position	C=270.00 G=23.00	CG	Sym. on planes 270-90

Luminous Intensity Table cd/klm Table 2/6

	C 40.00	C 50.00	C 60.00	C 70.00	C 80.00	C 90.00
G 0.0	305.83	305.83	305.83	305.83	305.83	305.83
G 1.0	300.78	299.89	299.04	298.60	298.63	298.20
G 2.0	296.22	294.40	293.38	291.61	291.55	290.93
G 3.0	291.87	289.18	287.50	284.97	285.31	283.72
G 4.0	287.10	283.57	281.33	278.38	278.17	276.12
G 5.0	281.95	277.57	274.97	271.42	271.30	267.62
G 6.0	276.68	270.48	268.89	263.45	264.80	263.09
G 7.0	271.83	264.35	262.35	257.44	257.62	255.62
G 8.0	266.13	259.28	256.16	251.44	250.73	248.99
G 9.0	260.32	253.23	249.35	244.52	243.70	241.98
G 10.0	254.91	246.84	243.08	237.76	237.36	234.60
G 11.0	249.46	240.49	236.36	231.11	230.02	228.17
G 12.0	243.29	234.30	230.04	225.04	223.24	221.85
G 13.0	237.46	228.05	223.54	217.56	217.14	214.29
G 14.0	230.71	221.36	217.34	210.90	209.68	208.13
G 15.0	224.33	214.63	210.09	204.12	202.74	202.19
G 16.0	217.35	207.92	202.47	197.60	195.57	177.80
G 17.0	210.58	200.90	195.51	182.74	170.44	144.57
G 18.0	203.85	193.93	188.64	161.45	136.96	101.86
G 19.0	197.00	187.51	173.61	137.70	106.48	76.56
G 20.0	189.71	178.65	151.49	118.53	87.34	62.38
G 21.0	183.27	163.69	131.58	105.53	76.05	51.50
G 22.0	176.58	147.64	114.82	96.41	69.02	47.93
G 23.0	169.65	132.62	103.23	91.05	62.90	39.73
G 24.0	163.75	122.80	94.80	84.66	55.25	30.41
G 25.0	158.09	115.86	89.31	76.35	47.17	22.71
G 26.0	151.89	110.01	83.48	69.52	41.53	17.95
G 27.0	145.78	104.83	76.13	64.22	37.98	16.28
G 28.0	140.02	99.57	71.06	60.37	36.46	15.85
G 29.0	134.88	94.87	65.70	57.53	35.10	15.45
G 30.0	129.53	90.76	61.90	55.62	33.79	15.04
G 31.0	124.00	86.72	59.14	53.12	32.58	14.61
G 32.0	119.03	83.33	56.89	50.75	31.30	14.17
G 33.0	114.58	80.28	54.45	48.53	30.14	13.79
G 34.0	109.51	76.75	52.24	46.35	28.80	13.43
G 35.0	104.95	73.60	49.88	44.45	27.70	12.99
G 36.0	100.56	70.50	47.91	42.29	26.51	12.61
G 37.0	96.20	67.67	46.03	40.60	25.37	12.27
G 38.0	91.84	64.75	43.84	38.83	24.40	11.91
G 39.0	87.99	62.05	42.03	37.13	23.32	11.57
G 40.0	84.20	59.42	40.24	35.42	22.33	11.24
G 41.0	80.03	56.76	38.58	33.79	21.45	10.89
G 42.0	76.44	54.31	36.81	32.23	20.46	10.56
G 43.0	72.89	52.03	35.39	30.85	19.51	10.20
G 44.0	69.85	49.75	33.78	29.49	18.69	9.91
G 45.0	66.62	47.63	32.36	28.09	17.73	9.60
G 46.0	63.34	45.35	30.90	26.77	16.98	9.24
G 47.0	60.65	43.40	29.69	26.19	16.70	8.94
G 48.0	57.97	41.47	28.45	26.11	16.80	8.59
G 49.0	55.04	39.62	27.14	26.18	17.23	8.67
G 50.0	52.50	37.82	26.03	26.79	17.68	9.10
G 51.0	50.13	36.16	25.32	26.21	17.45	9.57
G 52.0	47.88	34.41	24.69	25.68	17.35	10.28
G 53.0	45.51	32.86	24.19	25.61	17.39	11.05
G 54.0	43.67	31.25	23.81	25.44	17.40	11.73
G 55.0	41.61	29.74	23.28	25.12	17.37	12.34
G 56.0	39.49	28.37	22.64	24.72	17.12	12.80
G 57.0	37.45	26.89	21.98	24.10	16.91	13.16
G 58.0	35.81	25.50	21.00	23.30	16.47	13.36
G 59.0	34.02	24.19	20.13	22.29	15.99	13.58
G 60.0	32.14	22.90	19.29	21.12	15.66	13.57
G 61.0	30.60	21.60	18.53	20.14	15.48	13.28
G 62.0	28.96	20.52	17.65	19.18	14.89	12.96
G 63.0	27.32	19.50	16.81	18.15	13.59	12.36
G 64.0	25.60	18.54	15.98	16.87	12.21	11.45
G 65.0	24.22	17.71	15.00	15.52	10.67	10.30
G 66.0	23.17	17.01	14.04	13.86	9.50	9.16
G 67.0	22.29	16.20	13.05	12.45	8.50	7.86
G 68.0	21.40	15.46	12.07	11.16	7.43	6.65
G 69.0	20.52	14.70	11.15	9.89	6.64	5.32
G 70.0	19.74	14.01	10.49	8.87	5.92	4.52
G 71.0	18.74	13.24	9.91	8.01	5.03	3.56
G 72.0	17.58	12.49	9.45	7.27	4.13	3.04

Luminaire

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Luminaire Flux		1280.00 lm		Luminaire Power		26.00 W		Efficacy		49.23 lm/W		Efficiency		100.00%	
Lamps Flux		1280.00 lm		Maximum value		394.10 cd/klm		Position		C=270.00 G=23.00		CG Sym. on planes		270-90	
Luminous Intensity Table cd/klm Table 3/6															
	C 270.00	C 280.00	C 290.00	C 300.00	C 310.00	C 320.00	C 330.00	C 340.00	C 350.00	C 0.00	C 10.00	C 20.00	C 30.00		
G 73.0	14.76	13.99	14.85	14.38	15.15	14.72	15.56	15.00	15.60	16.39	17.41	17.87	17.56		
G 74.0	12.68	12.00	12.82	12.47	13.40	13.10	13.86	13.61	14.36	15.32	16.57	16.97	16.58		
G 75.0	10.60	9.90	11.01	10.51	11.60	11.31	12.33	12.26	13.38	14.49	15.68	15.95	15.69		
G 76.0	8.80	8.29	9.18	8.89	9.90	9.94	11.08	11.39	12.54	13.59	14.76	15.04	14.74		
G 77.0	7.17	6.74	7.55	7.53	8.59	8.97	10.09	10.54	11.53	12.66	13.79	14.09	13.75		
G 78.0	5.78	5.66	6.34	6.65	7.64	8.09	9.23	9.61	10.66	11.62	12.81	13.09	12.75		
G 79.0	5.24	5.16	5.75	6.02	6.90	7.30	8.38	8.67	9.68	10.66	11.82	12.09	11.84		
G 80.0	4.72	4.56	5.14	5.24	6.14	6.38	7.44	7.68	8.66	9.67	10.76	11.15	10.91		
G 81.0	4.08	3.87	4.38	4.42	5.24	5.50	6.47	6.68	7.50	8.64	9.79	10.19	9.93		
G 82.0	3.24	2.96	3.45	3.48	4.27	4.47	5.38	5.69	6.53	7.49	8.70	9.18	9.01		
G 83.0	2.07	1.74	2.46	2.25	3.10	3.20	4.21	4.48	5.48	6.52	7.68	8.16	8.09		
G 84.0	1.12	1.06	1.21	1.18	1.94	2.13	3.11	3.33	4.39	5.42	6.63	7.21	7.17		
G 85.0	1.08	1.05	1.01	0.93	1.02	1.11	1.96	2.24	3.25	4.33	5.61	6.24	6.30		
G 86.0	1.07	1.04	1.00	0.92	0.86	0.78	0.99	1.14	2.18	3.30	4.62	5.29	5.35		
G 87.0	1.05	1.03	0.99	0.91	0.85	0.77	0.70	0.62	1.12	2.26	3.55	4.39	4.50		
G 88.0	1.04	1.01	0.97	0.89	0.84	0.76	0.69	0.60	0.55	1.24	2.56	3.47	3.47		
G 89.0	1.03	0.99	0.96	0.87	0.83	0.74	0.68	0.62	0.52	0.58	1.48	2.47	2.65		
G 90.0	6.62	6.26	5.78	5.12	4.65	4.20	3.94	3.64	3.17	2.09	5.79	8.92	11.02		
G 91.0	5.60	5.26	4.78	4.22	3.83	3.44	3.46	3.02	2.76	1.84	4.74	7.19	8.91		
G 92.0	5.57	5.22	4.95	4.34	4.39	3.93	4.04	3.55	3.29	2.50	4.47	7.06	8.79		
G 93.0	6.37	5.46	5.56	4.79	4.95	4.43	4.56	4.04	3.82	3.03	4.32	7.20	8.97		
G 94.0	7.41	6.73	6.66	5.65	5.71	5.07	5.14	4.61	4.33	4.01	4.65	7.50	9.28		
G 95.0	8.42	7.81	7.67	6.71	6.84	6.06	6.20	5.37	5.32	5.11	5.21	7.86	9.68		
G 96.0	9.16	8.69	8.65	7.85	7.94	7.20	7.35	6.55	6.36	6.06	5.97	8.25	10.05		
G 97.0	9.71	9.32	9.44	8.81	8.97	8.25	8.43	7.67	7.42	7.14	7.08	8.72	10.47		
G 98.0	10.24	9.83	10.11	9.51	9.85	9.25	9.60	8.63	8.55	8.19	8.10	9.18	10.92		
G 99.0	10.66	10.31	10.68	10.27	10.69	10.30	10.59	9.75	9.61	9.20	9.07	9.63	11.42		
G100.0	11.88	11.14	11.95	11.14	11.56	11.17	11.52	10.79	10.60	10.27	10.19	10.13	11.85		
G101.0	13.26	12.43	13.47	12.52	12.82	11.99	12.48	11.80	11.73	11.32	11.24	10.84	12.41		
G102.0	14.89	13.93	15.06	13.82	14.11	13.17	13.46	12.75	12.78	12.44	12.33	11.83	12.94		
G103.0	16.77	15.69	16.77	15.42	15.64	14.42	14.68	13.75	13.77	13.50	13.33	12.67	13.54		
G104.0	18.52	17.46	18.63	17.34	17.17	15.72	15.90	14.70	14.70	14.48	14.36	13.76	14.16		
G105.0	20.72	19.52	20.56	19.10	18.94	17.10	17.07	15.94	15.66	15.49	15.42	14.91	14.73		
G106.0	23.19	21.42	22.75	20.94	20.91	18.61	18.30	17.03	16.74	16.51	16.43	15.93	15.47		
G107.0	25.51	23.93	24.85	23.12	22.84	20.29	19.90	18.24	18.00	17.40	17.40	16.96	16.16		
G108.0	28.49	26.32	27.20	25.27	24.87	22.06	21.50	19.54	18.96	18.37	18.43	18.03	17.16		
G109.0	32.14	29.25	30.00	27.26	26.92	23.76	22.97	20.91	20.25	19.41	19.37	19.01	18.19		
G110.0	36.20	33.05	33.15	29.95	29.11	25.57	24.60	22.43	21.57	20.56	20.33	19.98	19.33		
G111.0	40.68	37.10	36.51	32.72	31.36	27.56	26.30	23.97	22.88	21.67	21.38	20.91	20.34		
G112.0	46.64	41.90	40.81	35.64	33.88	29.31	27.99	25.41	24.26	22.99	22.52	21.85	21.35		
G113.0	53.41	47.33	45.93	39.31	36.79	31.36	29.74	26.98	25.79	24.42	23.60	22.79	22.27		
G114.0	61.28	55.14	52.11	43.82	40.00	33.93	31.56	28.68	27.32	25.82	24.80	23.86	23.31		
G115.0	69.65	62.68	59.05	48.80	43.98	36.43	33.51	30.17	28.87	27.31	26.10	24.88	24.21		
G116.0	79.62	71.34	66.48	54.08	47.95	39.05	35.54	31.97	30.41	28.72	27.49	26.20	25.04		
G117.0	91.32	81.03	75.78	60.34	52.78	42.26	37.88	33.82	32.08	30.29	28.95	27.48	26.10		
G118.0	102.43	91.41	83.98	67.63	58.05	45.74	40.40	35.84	33.74	31.94	30.54	28.72	27.17		
G119.0	111.81	101.00	93.78	75.23	63.67	49.72	43.29	37.88	35.46	33.60	31.95	30.17	28.34		
G120.0	123.20	111.91	103.55	82.78	70.06	53.72	46.43	39.89	37.21	35.28	33.46	31.81	29.64		
G121.0	136.05	122.27	113.49	90.75	77.11	57.93	49.93	42.25	39.22	37.11	35.33	33.30	31.27		
G122.0	146.45	133.81	122.98	99.96	83.82	63.66	53.56	45.01	41.16	38.89	36.93	34.78	32.60		
G123.0	156.96	144.35	132.36	108.22	91.23	69.23	57.46	48.04	43.43	40.77	38.56	36.51	34.11		
G124.0	167.31	154.48	142.20	116.26	99.31	75.17	62.16	50.62	45.83	42.72	40.46	38.16	35.59		
G125.0	179.13	164.77	151.22	125.50	106.68	80.78	66.78	54.03	48.35	44.83	42.29	39.83	37.26		
G126.0	189.99	175.29	160.64	134.85	114.69	87.71	71.57	57.96	51.20	47.11	44.17	41.46	38.81		
G127.0	199.53	184.91	169.71	142.49	122.50	94.19	77.17	61.62	54.19	49.31	46.28	43.28	40.42		
G128.0	210.07	194.94	180.37	151.17	130.94	100.82	82.78	65.73	57.04	51.87	48.39	45.16	42.07		
G129.0	222.59	204.37	189.16	160.19	138.88	107.52	88.42	70.13	60.62	54.64	50.40	47.03	43.91		
G130.0	232.59	214.49	198.60	168.56	146.77	114.45	94.44	74.85	64.32	57.48	52.83	48.94	45.56		
G131.0	242.01	225.23	208.48	176.68	154.46	121.51	100.47	79.61	68.22	60.60	55.38	51.18	47.19		
G132.0	253.36	234.80	219.14	184.92	162.67	128.61	106.71	84.29	72.43	63.78	58.02	53.26	49.21		
G133.0	265.06	245.72	229.19	193.47	170.29	135.92	112.90	89.71	76.29	67.46	60.90	55.50	51.12		
G134.0	277.36	257.59	238.50	202.88	177.89	143.09	119.27	94.78	80.85	71.19	63.95	58.21	53.05		
G135.0	288.41	267.34	248.63	211.04	186.36	150.08	125.87	100.81	85.88	75.07	67.27	61.07	55.22		
G136.0	302.77	280.03	259.57	219.66	194.70	157.51	132.51	106.04	90.23	79.31	70.89	63.59	57.56		
G137.0	315.97	293.63	271.04	229.22	202.43	164.59	139.08	111.84	95.03	83.46	73.96	66.62	59.93		
G138.0	328.42	304.84	281.49	239.06	210.14	171.31	145.62	118.04	100.28	87.72	77.70	69.58	62.22		
G139.0	341.03	317.56	292.52	247.11	218.81	178.87	152.16	123.92	105.47	92.33	81.92	73.06	65.05		
G140.0	352.43	330.61	304.11	256.45	227.32	186.43	159.13	129.64	110.39	96.67	85.86	76.34	68.00		
G141.0	363.41	341.05	314.54	266.97	235.50	193.95	165.83	135.67	115.81	101.98	89.71	80.03	70.90		
G142.0	370.88	350.76	324.66	275.97	244.22	200.50	172.01	141.73	121.17	106.90	94.13	83.81	73.87		
G143.0	379.48	358.25	334.36	285.01	251.66	207.91	179.16	147.59	127.13	111.61	98.83	87.53	77.53		
G144.0	383.26	365.13	342.43	293.88	260.09	215.37	185.83	153.58	132.49	116.87	103.17	91.57	81.02		
G145.0	386.19	370.44	349.55	303.13	267.33	222.51	192.24	159.39	137.87	121.81	108.04	95.94	84.73		

Luminaire

Code TTU LWW 31
Name Tubes Large Wall 2x13W

Measurem.

Code tl112018
Name Tubes Large Wall 2x13W

Luminaire Flux	1280.00 lm	Luminaire Power	26.00 W	Efficacy	49.23 lm/W	Efficiency	100.00%
Lamps Flux	1280.00 lm	Maximum value	394.10 cd/klm	Position	C=270.00 G=23.00	CG	Sym. on planes 270-90

Luminous Intensity Table cd/klm Table 4/6

	C 40.00	C 50.00	C 60.00	C 70.00	C 80.00	C 90.00
G 73.0	16.60	11.78	8.96	6.80	3.64	2.86
G 74.0	15.57	11.05	8.50	6.43	3.48	2.71
G 75.0	14.48	10.41	7.99	6.11	3.27	2.53
G 76.0	13.45	9.72	7.56	5.76	3.11	2.37
G 77.0	12.53	9.13	7.12	5.42	2.95	2.22
G 78.0	11.66	8.46	6.61	5.09	2.80	2.08
G 79.0	10.57	7.84	6.14	4.77	2.64	1.94
G 80.0	9.59	7.29	5.71	4.48	2.48	1.77
G 81.0	8.54	6.62	5.27	4.15	2.33	1.64
G 82.0	7.65	6.01	4.81	3.88	2.19	1.53
G 83.0	6.86	5.29	4.28	3.61	2.06	1.40
G 84.0	6.24	4.70	3.88	3.34	1.95	1.29
G 85.0	5.78	4.38	3.58	3.08	1.82	1.18
G 86.0	5.03	4.05	3.29	2.75	1.69	1.06
G 87.0	4.33	3.46	2.94	2.50	1.57	0.94
G 88.0	3.64	2.97	2.56	2.16	1.44	0.80
G 89.0	2.86	2.26	2.16	1.81	1.25	0.67
G 90.0	11.83	12.28	10.24	7.44	5.33	4.85
G 91.0	9.57	10.20	8.49	5.85	4.60	4.33
G 92.0	9.64	10.29	8.84	6.20	5.02	4.82
G 93.0	9.94	10.68	9.15	6.60	5.43	5.33
G 94.0	10.28	10.99	9.55	7.01	5.88	5.81
G 95.0	10.68	11.42	9.90	7.50	6.47	6.33
G 96.0	11.05	11.77	10.33	7.98	7.00	6.88
G 97.0	11.48	12.22	10.87	8.51	7.54	7.44
G 98.0	11.98	12.69	11.41	9.06	8.07	8.03
G 99.0	12.45	13.18	12.02	9.62	8.59	8.61
G100.0	12.96	13.62	12.63	10.18	9.20	9.37
G101.0	13.51	14.17	13.30	10.88	9.94	10.12
G102.0	14.06	14.76	13.86	11.70	10.83	11.10
G103.0	14.67	15.40	14.48	12.62	11.70	11.86
G104.0	15.29	16.00	15.16	13.45	12.62	12.76
G105.0	15.90	16.61	15.91	14.23	13.47	13.57
G106.0	16.56	17.29	16.58	15.08	14.31	14.34
G107.0	17.27	18.02	17.38	15.91	15.15	15.12
G108.0	17.87	18.68	18.17	16.86	16.07	15.93
G109.0	18.61	19.43	18.97	17.67	16.98	16.91
G110.0	19.35	20.21	19.78	18.70	17.91	17.78
G111.0	20.15	20.90	20.64	19.58	18.88	18.69
G112.0	20.97	21.67	21.52	20.49	19.80	19.71
G113.0	22.08	22.42	22.22	21.50	20.77	20.70
G114.0	23.15	23.20	23.11	22.57	21.85	21.67
G115.0	24.10	24.01	24.01	23.45	22.83	22.66
G116.0	25.11	24.86	24.80	24.37	23.80	23.66
G117.0	26.03	26.06	25.65	25.39	24.77	24.82
G118.0	26.83	26.99	26.42	26.22	25.75	25.74
G119.0	27.63	27.98	27.44	27.16	26.65	26.67
G120.0	28.76	28.83	28.46	27.94	27.63	27.62
G121.0	29.90	29.78	29.43	29.03	28.49	28.71
G122.0	31.24	30.62	30.19	29.95	29.54	29.68
G123.0	32.67	31.65	31.02	30.91	30.46	30.66
G124.0	34.26	32.82	31.83	31.71	31.39	31.57
G125.0	35.70	34.33	32.85	32.50	32.26	32.41
G126.0	37.08	35.79	34.09	33.27	32.95	33.14
G127.0	38.68	37.30	35.59	34.44	33.76	33.88
G128.0	40.47	38.73	37.02	35.74	34.98	34.93
G129.0	41.98	40.35	38.48	37.16	36.29	36.23
G130.0	43.48	41.86	40.04	38.70	37.76	37.59
G131.0	45.16	43.37	41.56	40.13	39.24	39.05
G132.0	46.84	44.90	43.09	41.62	40.88	40.64
G133.0	48.40	46.68	44.67	43.21	42.44	42.29
G134.0	50.22	48.31	46.14	44.74	43.93	43.68
G135.0	52.15	49.91	47.86	46.34	45.78	45.59
G136.0	54.12	51.68	49.45	47.96	47.38	47.31
G137.0	56.21	53.57	51.15	49.61	49.07	49.08
G138.0	58.40	55.30	53.00	51.36	50.85	50.77
G139.0	60.83	57.47	54.78	52.99	52.69	52.56
G140.0	63.16	59.74	56.83	54.99	54.48	54.48
G141.0	65.83	61.96	58.90	56.95	56.41	56.44
G142.0	68.76	64.36	61.16	58.86	58.42	58.31
G143.0	71.75	67.07	63.62	61.31	60.65	60.66
G144.0	74.69	69.86	66.05	63.71	62.88	62.81
G145.0	77.60	72.60	68.64	66.13	64.97	64.69

Luminaire

Code TTU LWW 31
Name Tubes Large Wall 2x13W

Measurem.

Code tl112018
Name Tubes Large Wall 2x13W

Luminaire Flux	1280.00 lm		Luminaire Power		26.00 W		Efficacy		49.23 lm/W		Efficiency		100.00%	
Lamps Flux	1280.00 lm		Maximum value		394.10 cd/klm		Position		C=270.00 G=23.00		CG Sym. on planes		270-90	
Luminous Intensity Table cd/klm Table 5/6														
	C 270.00	C 280.00	C 290.00	C 300.00	C 310.00	C 320.00	C 330.00	C 340.00	C 350.00	C 0.00	C 10.00	C 20.00	C 30.00	
G146.0	388.48	373.81	355.98	311.13	275.40	228.86	198.91	165.92	143.55	127.26	112.56	100.13	88.44	
G147.0	390.21	376.67	360.08	318.27	282.67	235.64	205.53	171.47	148.85	132.14	117.63	104.81	92.45	
G148.0	391.81	378.42	365.42	324.67	289.94	242.14	211.58	177.45	154.33	137.07	122.27	109.13	96.66	
G149.0	392.36	379.87	368.96	330.44	295.99	248.96	217.89	183.32	160.11	142.65	127.07	113.60	100.83	
G150.0	393.16	381.08	370.85	335.78	301.57	255.36	224.33	189.45	165.87	148.47	132.46	118.52	105.08	
G151.0	393.27	381.67	372.37	339.07	307.94	261.24	230.08	194.86	171.28	153.52	137.32	123.17	109.83	
G152.0	392.91	382.31	373.52	342.72	313.14	267.65	235.72	200.35	176.61	158.56	142.73	128.11	114.04	
G153.0	392.78	382.11	374.37	345.62	317.91	272.98	241.41	206.14	181.86	164.41	147.48	133.11	118.83	
G154.0	391.83	382.58	375.01	347.36	322.19	278.48	247.15	211.13	187.76	169.62	152.80	137.98	123.92	
G155.0	391.08	381.70	374.83	349.05	325.49	283.41	252.52	217.08	192.62	174.31	158.37	143.25	128.42	
G156.0	390.14	381.48	375.04	350.55	328.20	287.75	257.67	222.31	198.27	179.15	163.13	148.06	133.46	
G157.0	388.35	379.77	374.02	350.67	330.22	291.92	262.43	227.36	203.49	185.10	168.03	153.48	138.74	
G158.0	387.99	378.96	373.26	351.63	331.58	295.32	267.06	232.01	208.48	190.32	173.71	158.87	143.93	
G159.0	384.85	377.39	371.80	351.41	332.71	298.11	270.85	237.12	213.81	195.49	179.10	164.25	148.87	
G160.0	383.60	374.82	369.85	350.34	333.00	301.14	274.76	241.37	219.68	200.86	184.11	169.32	154.57	
G161.0	380.44	372.83	367.86	349.04	333.31	302.95	277.87	246.59	224.44	206.05	189.32	174.87	160.04	
G162.0	376.25	369.54	364.63	347.75	332.92	304.02	281.26	250.53	229.63	211.51	194.66	180.54	166.38	
G163.0	372.83	365.77	361.77	345.29	332.02	304.99	283.44	254.70	234.50	216.57	199.80	185.98	171.75	
G164.0	369.08	362.16	357.96	343.06	330.70	305.51	285.17	258.25	238.56	221.07	205.31	191.63	177.55	
G165.0	364.87	357.86	353.96	340.46	328.86	305.44	286.08	261.09	242.33	226.70	210.82	197.02	183.02	
G166.0	359.47	353.40	349.72	336.75	326.38	304.99	287.34	263.70	246.46	230.87	215.29	202.38	188.80	
G167.0	354.13	348.20	344.86	333.09	323.66	304.11	287.84	266.45	249.86	235.19	220.16	207.66	194.65	
G168.0	348.30	343.27	340.34	328.76	320.63	302.66	287.80	268.08	252.45	238.58	224.84	213.04	200.75	
G169.0	342.52	337.90	334.83	324.77	316.99	301.20	287.48	269.37	254.78	242.37	229.70	218.73	206.56	
G170.0	335.49	331.60	329.15	320.15	313.05	298.96	286.65	270.21	256.79	245.87	233.85	223.44	211.84	
G171.0	328.76	325.33	323.34	314.63	309.34	296.29	285.86	270.83	258.96	247.11	237.66	228.27	217.45	
G172.0	322.44	318.81	317.17	309.93	305.34	293.60	284.30	270.71	259.89	251.34	241.16	233.15	222.74	
G173.0	314.97	312.39	311.35	304.57	299.83	290.56	282.43	270.93	261.78	253.87	244.77	237.26	227.79	
G174.0	307.29	305.04	304.28	298.64	295.22	286.84	280.36	270.47	262.67	255.81	246.92	241.25	233.06	
G175.0	299.98	298.04	297.61	292.77	289.60	283.27	277.89	269.73	263.12	257.07	250.29	245.30	238.29	
G176.0	292.50	291.12	290.70	286.75	284.89	279.03	275.13	268.07	263.00	258.70	251.92	249.30	243.26	
G177.0	285.05	283.76	283.65	280.59	279.34	275.20	271.98	267.33	263.18	260.07	254.91	252.42	247.56	
G178.0	277.23	276.20	276.28	274.51	273.57	270.56	268.77	265.76	262.65	259.98	257.24	255.37	251.09	
G179.0	268.72	268.67	268.50	267.45	267.31	266.23	265.26	263.55	261.87	261.14	259.13	258.40	256.61	
G180.0	260.95	260.95	260.95	260.95	260.95	260.95	260.95	260.95	260.95	260.95	260.95	260.95	260.95	

Luminaire

Code TTU LWW 31
Name Tubes Large Wall 2x13W

Measurem.

Code tl112018
Name Tubes Large Wall 2x13W

Luminaire Flux	1280.00 lm	Luminaire Power	26.00 W	Efficacy	49.23 lm/W	Efficiency	100.00%
Lamps Flux	1280.00 lm	Maximum value	394.10 cd/klm	Position	C=270.00 G=23.00	CG	Sym. on planes 270-90

Luminous Intensity Table cd/klm Table 6/6

	C 40.00	C 50.00	C 60.00	C 70.00	C 80.00	C 90.00
G146.0	81.45	75.62	71.60	68.71	67.90	67.23
G147.0	84.99	79.03	74.48	71.35	70.53	70.21
G148.0	88.56	82.54	77.64	74.46	73.12	72.72
G149.0	92.51	85.75	81.17	77.48	76.19	75.64
G150.0	96.86	89.46	84.76	80.57	79.49	79.06
G151.0	101.00	93.55	88.12	84.32	82.67	82.12
G152.0	105.07	97.63	91.92	87.78	86.16	85.55
G153.0	109.66	101.49	95.96	91.83	89.96	88.85
G154.0	114.30	106.15	100.17	95.81	94.22	92.77
G155.0	119.21	111.13	104.69	100.23	98.26	97.10
G156.0	124.03	115.69	108.92	104.34	102.42	101.63
G157.0	129.39	120.22	114.36	109.06	107.04	105.70
G158.0	134.50	125.88	119.36	114.20	111.82	110.39
G159.0	139.83	130.97	124.13	119.26	116.99	115.75
G160.0	145.25	135.83	129.26	124.27	121.87	120.54
G161.0	150.73	141.45	135.32	129.82	127.30	125.70
G162.0	156.55	147.55	140.88	136.13	133.56	131.69
G163.0	162.19	153.62	146.98	141.73	139.10	137.63
G164.0	167.98	158.96	153.31	147.86	145.05	143.30
G165.0	174.09	165.22	159.52	154.16	152.16	149.95
G166.0	179.77	171.67	165.97	160.54	158.40	156.92
G167.0	185.59	177.56	172.10	167.22	164.92	163.79
G168.0	191.91	183.71	179.26	174.18	171.81	170.50
G169.0	198.12	190.98	185.66	181.02	179.32	177.58
G170.0	204.46	196.98	192.27	187.97	186.07	184.88
G171.0	210.43	203.25	199.13	195.26	192.63	191.21
G172.0	217.29	209.97	206.02	201.88	200.25	198.80
G173.0	222.91	216.55	212.61	209.19	207.49	206.18
G174.0	228.48	222.61	219.81	216.33	214.75	213.39
G175.0	234.37	228.92	226.26	223.24	222.33	221.03
G176.0	240.21	235.82	233.36	230.64	230.63	228.84
G177.0	245.33	242.34	239.91	238.01	237.71	236.69
G178.0	250.16	247.97	246.34	244.13	245.11	243.52
G179.0	255.54	253.74	253.45	252.12	252.79	251.12
G180.0	260.95	260.95	260.95	260.95	260.95	260.95