

SPECIFICATION SHEET

SUBJECT

LED ULTRATHIN GIMBAL

CUSTOMER PROJECT

Project: _____
Type: _____
Cat. No.: _____
Qty: _____
Date: _____
EEL Rep: _____



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Telephone: 905 415 8878 Fax Number: 905 415 8872 Toll Free Telephone: 855 415 8878 Toll Free Fax: 855 415 8872

DESCRIPTION

The UltraThin 6" Recessed adjustable Gimbal is the perfect solution for slope ceilings and wall washing applications that features a 15 degree tilt. The recessed LED slim luminaire is dimmable, Non-IC, damp location and Energy Star approved.



ULTRATHIN GIMBAL 6" LED RECESSED LUMINAIRE

SPECIFICATION FEATURES

Construction

Round 6" fixture with integral LEDs
15 degrees tilt

Controls

Isolated driver factory installed inside connection box

Electrical

Ambient temperature -40°C to 40°C. CRI:80.
120V dimmable / 277-347V non-dimmable.
12 Watt equivalent to 65 Watt halogen
15 Watt equivalent to 75 Watt halogen

Mounting

Cut hole in ceiling and snap fixture in opening with attached spring clips. Clearance needed - 2" (50mm)

Beam Angle

120°

Finish

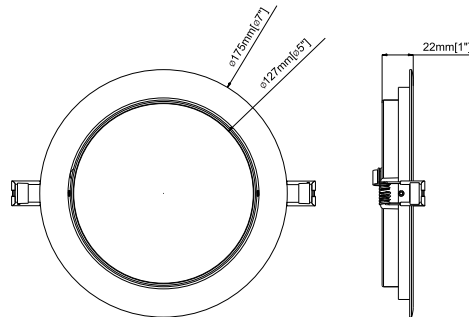
White (Optional Brushed Nickel and Black)

Compliance

CETL and Energy Star

Warranty

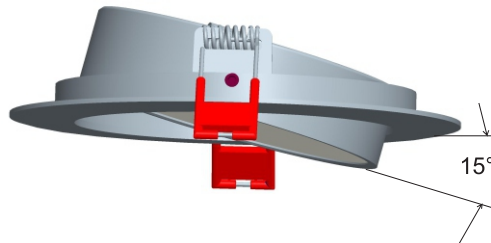
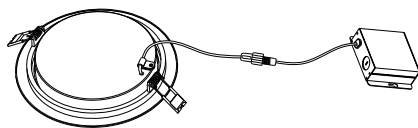
5 years, 50,000+ hours



UTLED-6-S12W-3KWH-G / UTLED-6-S12W-4KWH-G
UTLED-6-S15W-3KWH-G / UTLED-6-S15W-4KWH-G

Dimensions

OD 7" (175mm) x ID 5-15/16" (151mm)
Cut out 6-1/8" (±1/8") (155 ± 3mm)
Thickness 1" (22mm)





ORDERING CODE, ENERGY AND PERFORMANCE DATA

	Model No.	Delivered Lumens (lm)	Input Watts (W)	Voltage (V)	Colour Temp. (K)	Certification	Type
	UTLED-6-S12W-3KWH-G	700	12	120V / 277-347V	3000K		Special Order
	UTLED-6-S12W-4KWH-G White	800	12	120V / 277-347V	4000K		Special Order
	UTLED-6-S15W-3KWH-G	900	15	120V / 277-347V	3000K		Special Order
	UTLED-6-S15W-4KWH-G White	1000	15	120V / 277-347V	4000K		Special Order

- NOTE:**
- 120V dimmable / 277-347V non-dimmable
 - Lumens are estimated
 - Energy Star certification applies to 120V only

OPTIONAL ACCESSORIES

- UTLED-G-6-ICCAN | IC Rated Can for 6" UltraThin Gimbal
- UTLED-6-MP | Mounting Plate for 6" UltraThin models
- UTLED-JC-10 | Extension Cable 10ft for UltraThin models
- UTLED-JC-20 | Extension Cable 20ft for UltraThin models

SHIPPING DATA

Model No.	Gross Weight
UTLED-6-S12W-3KWH-G	0.73 kg / 1.61 lbs
UTLED-6-S12W-4KWH-G	0.73 kg / 1.61 lbs
UTLED-6-S15W-3KWH-G	0.73 kg / 1.61 lbs
UTLED-6-S15W-4KWH-G	0.73 kg / 1.61 lbs



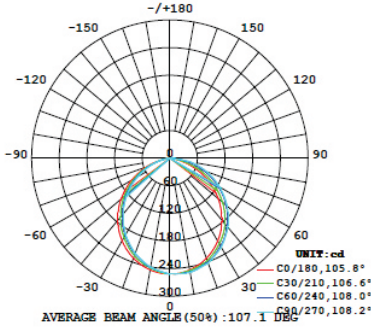


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PHOTOMETRICS



UTLED-6-S12W-3K

S/MH(C0/180) = 1.23
 S/MH(C90/270) = 1.31
 Lumens: 661.09
 Nominal Power: 12 W
 Efficacy: 65.54 lm/W

Candlepower

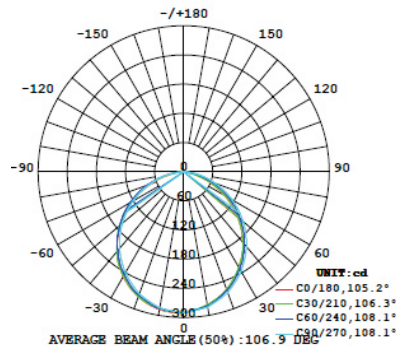
y	C0	C45	C90	C135	C180	C225	C270	C315
5	250.6	251.3	252.0	251.2	250.4	247.2	246.3	247.3
10	246.6	249.6	252.3	249.4	246.5	241.4	240.7	241.5
15	240.2	246.0	247.4	245.5	240.1	233.8	230.5	234.0
20	231.6	238.2	242.5	237.8	231.3	222.5	220.3	222.7
25	220.7	229.6	232.9	229.0	220.3	210.5	206.3	210.5
30	207.9	218.2	222.2	217.5	207.5	196.3	192.3	196.2
35	192.7	204.9	209.6	203.8	192.9	180.4	175.4	180.3
40	175.8	190.7	196.0	189.3	176.6	163.9	158.6	163.8
45	157.1	173.0	179.3	172.1	158.2	145.5	139.6	144.9
50	137.3	155.1	162.6	154.6	138.5	127.1	120.8	125.7
55	116.4	134.8	143.7	133.9	117.7	106.4	100.5	105.0
60	94.49	114.5	124.8	113.2	96.11	85.73	80.35	84.42
65	72.06	92.19	104.5	90.95	74.04	64.69	60.42	63.32
70	49.44	69.41	84.07	64.86	52.17	44.23	40.48	43.16
75	27.45	46.07	63.79	40.11	30.89	24.82	23.43	24.04
80	9.530	22.48	42.51	21.25	11.75	9.462	6.974	8.977
85	0	2.644	0	4.282	0	0.4177	0	0.2851
90	0	0	0	0	0	0	0	0

Zonal Lumen Summary

y	φ zone	φ total	lum, lamp
0- 5	5.985	5.985	0.91,0.91
5- 10	17.73	23.70	3.59,3.59
10- 15	29.76	52.47	7.94,7.94
15- 20	39.72	91.20	12.8,12.8
20- 25	47.25	138.5	20.9,20.9
25- 30	54.01	192.5	29.1,29.1
30- 35	58.85	251.3	38.38
35- 40	61.52	312.8	47.3,47.3
40- 45	62.04	374.9	56.7,56.7
45- 50	60.20	438.2	65.8,65.8
50- 55	56.44	491.6	74.4,74.4
55- 60	50.58	542.2	82.82
60- 65	43.01	585.2	88.5,88.5
65- 70	33.87	619.1	93.6,93.6
70- 75	23.78	642.9	97.2,97.2
75- 80	13.79	656.6	99.3,99.3
80- 85	4.381	661.0	100,100
85- 90	0.0561	661.1	100,100

Coefficient of Utilization

pcc	80%			70%			50%			30%			10%			0														
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
pcw	20%			20%			20%			20%			20%			0														
pec	20%			20%			20%			20%			20%			0														
RCR	RCR:Room Cavity Ratio															Coefficients of Utilization(CU)														
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00														
1.0	1.05	1.01	.97	1.03	.99	.96	.99	.96	.93	.95	.92	.90	.91	.89	.87	.85														
2.0	.92	.85	.80	.90	.84	.79	.87	.82	.77	.83	.79	.75	.80	.77	.74	.72														
3.0	.81	.73	.67	.79	.72	.66	.76	.70	.65	.74	.68	.64	.71	.67	.63	.61														
4.0	.72	.63	.57	.71	.63	.56	.68	.61	.56	.66	.60	.55	.64	.58	.54	.52														
5.0	.64	.56	.49	.63	.55	.49	.61	.54	.48	.59	.53	.48	.57	.52	.47	.45														
6.0	.58	.49	.43	.57	.49	.43	.55	.48	.42	.54	.47	.42	.52	.46	.42	.40														
7.0	.53	.44	.38	.52	.44	.38	.50	.43	.38	.49	.42	.37	.47	.42	.37	.35														
8.0	.48	.40	.34	.47	.39	.34	.46	.39	.34	.45	.38	.33	.44	.38	.33	.31														
9.0	.44	.36	.31	.44	.36	.30	.42	.35	.30	.41	.35	.30	.40	.34	.30	.28														
10.0	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.27	.37	.32	.27	.26														



UTLED-6-S12W-4K

S/MH(C0/180) = 1.18
 S/MH(C90/270) = 1.22
 Lumens: 758.78
 Nominal Power: 12 W
 Efficacy: 74.78 lm/W

Candlepower

y	C0	C45	C90	C135	C180	C225	C270	C315
5	285.7	284.8	286.2	287.9	290.2	288.5	287.0	285.4
10	279.0	278.7	282.7	284.7	287.7	285.9	284.4	279.8
15	269.8	270.5	273.7	275.1	282.2	281.0	276.0	272.2
20	257.7	259.0	264.6	266.1	273.9	271.5	267.6	260.1
25	243.4	244.6	250.7	251.9	263.1	260.5	254.3	246.9
30	227.2	228.6	236.7	237.8	249.6	247.4	240.9	231.2
35	209.1	210.7	218.9	220.2	233.1	231.4	223.7	213.7
40	189.2	192.2	201.1	203.5	214.1	214.6	206.4	195.8
45	167.7	171.0	180.5	183.6	194.6	194.6	186.2	174.5
50	144.8	149.4	159.9	163.2	170.5	174.2	165.9	153.6
55	120.7	125.8	137.5	142.7	146.7	150.6	143.5	130.4
60	95.87	102.3	115.2	120.1	122.0	127.0	121.1	107.3
65	70.69	77.58	91.40	94.61	96.38	102.1	97.78	82.92
70	45.65	53.66	67.65	66.92	70.43	77.16	74.43	59.19
75	22.02	30.58	46.17	39.34	44.66	52.10	51.95	36.13
80	8.211	11.20	24.69	19.86	18.80	28.41	29.48	15.49
85	0	0.1746	0	3.595	0	6.101	0	1.594
90	0	0	0	0	0	0	0	0

Zonal Lumen Summary

y	φ zone	φ total	lum, lamp
0- 5	6.883	6.883	0.91,0.91
5- 10	20.37	27.25	3.59,3.59
10- 15	33.09	60.34	7.95,7.95
15- 20	44.51	104.8	13.9,13.8
20- 25	54.30	159.1	21.2,21
25- 30	62.04	221.2	29.1,29.1
30- 35	67.57	288.8	38.1,38.1
35- 40	70.61	359.4	47.4,47.4
40- 45	71.14	430.5	56.7,56.7
45- 50	69.13	499.6	65.8,65.8
50- 55	64.71	564.3	74.4,74.4
55- 60	58.01	622.4	82.82
60- 65	49.32	671.7	88.5,88.5
65- 70	38.58	710.5	93.6,93.6
70- 75	27.22	737.7	97.2,97.2
75- 80	15.80	752.5	99.3,99.3
80- 85	5.171	758.7	100,100
85- 90	0.0891	758.8	100,100

Coefficient of Utilization

pcc	80%			70%			50%			30%			10%			0														
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0														
pcw	20%			20%			20%			20%			20%			0														
pec	20%			20%			20%			20%			20%			0														
RCR	RCR:Room Cavity Ratio															Coefficients of Utilization(CU)														
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00														
1.0	1.05	1.01	.97	1.03	.99	.96	.99	.96	.93	.95	.92	.90	.91	.89	.87	.85														
2.0	.92	.85	.80	.90	.84	.79	.87	.82	.77	.83	.79	.75	.80	.77	.74	.72														
3.0	.81	.73	.67	.79	.72	.66	.76	.70	.65	.74	.68	.64	.71	.67	.63	.61														
4.0	.72	.63	.57	.71	.63	.56	.68	.61	.56	.66	.60	.55	.64	.58	.54	.52														
5.0	.64	.56	.49	.63	.55	.49	.61	.54	.48	.59	.53	.48	.57	.52	.47	.45														
6.0	.58	.49	.43	.57	.49	.43	.55	.48	.42	.54	.47	.42	.52	.46	.42	.40														
7.0	.53	.44	.38	.52	.44	.38	.50	.43	.38	.49	.42	.37	.47	.42	.37	.35														
8.0	.48	.40	.34	.47	.39	.34	.46	.39	.34	.45	.38	.33	.44	.38	.33	.31														
9.0	.44	.36	.31	.44	.36	.30	.42	.35	.30	.41	.35	.30	.40	.34	.30	.28														
10.0	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.27	.37	.32	.27	.26														



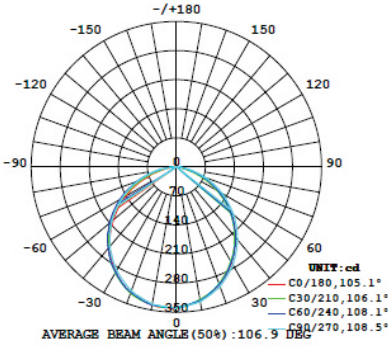


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PHOTOMETRICS



UTLED-6-S15W-3K

S/MH(C0/180) = 1.17
 S/MH(C90/270) = 1.20
 Lumens: 889.63
 Nominal Power: 14 W
 Efficacy: 70.63 lm/W

Candlepower

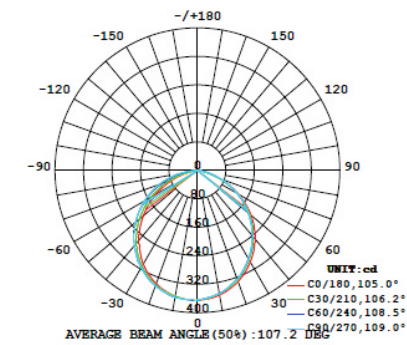
y	C0	C45	C90	C135	C180	C225	C270	C315
5	324.9	322.0	324.6	327.0	340.4	339.1	327.6	335.1
10	326.8	325.3	329.6	332.6	337.8	336.9	335.5	329.3
15	315.6	314.8	318.1	325.8	331.7	332.2	326.8	320.9
20	301.5	299.5	306.7	313.5	322.5	322.1	318.1	307.3
25	284.6	282.9	289.5	299.9	309.7	310.7	303.2	292.7
30	265.9	263.6	272.2	282.9	292.3	295.2	288.4	274.7
35	244.3	242.0	250.8	262.5	272.5	276.9	269.1	254.4
40	221.6	219.7	229.3	240.6	248.9	257.0	248.7	233.4
45	196.7	194.4	204.7	215.6	225.1	232.5	226.6	209.1
50	170.6	169.3	180.0	190.3	198.5	209.6	203.5	185.0
55	142.6	142.1	153.1	162.0	170.5	182.0	177.9	168.4
60	113.6	115.0	126.2	133.7	141.3	154.4	152.2	142.1
65	84.04	86.44	98.55	102.9	111.0	129.1	129.2	124.2
70	54.43	58.88	70.86	69.76	80.49	95.37	95.19	76.33
75	26.00	32.80	46.40	40.79	50.10	65.19	71.45	48.70
80	2.700	11.39	21.92	19.20	20.91	36.33	44.71	21.86
85	0	0	0	2.955	0	8.102	0	2.640
90	0	0	0	0	0	0	0	0

Zonal Lumen Summary

y	φ zone	φ total	llum, lum
0- 5	8.069	8.069	0.91,0.91
5- 10	23.89	31.95	3.59,2.99
10- 15	38.81	70.76	7.95,7.95
15- 20	52.23	123.0	13.6,13.8
20- 25	63.73	186.7	21.21
25- 30	72.79	259.5	29.2,29.2
30- 35	78.22	338.7	38.1,28.1
35- 40	82.74	421.5	47.4,47.4
40- 45	83.37	504.8	56.7,56.7
45- 50	81.02	589.9	65.9,65.9
50- 55	75.89	661.8	74.4,74.4
55- 60	68.06	729.8	82.82
60- 65	57.86	787.7	88.5,88.5
65- 70	45.52	833.2	93.7,93.7
70- 75	31.95	865.1	97.2,97.2
75- 80	18.43	883.6	99.3,99.3
80- 85	5.954	889.5	100,100
85- 90	0.0982	889.6	100,100

Coefficient of Utilization

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilisation (CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.05	1.01	.97	1.03	.99	.96	.99	.96	.93	.95	.92	.90	.91	.89	.87	.85
2.0	.92	.85	.80	.90	.84	.79	.87	.82	.77	.83	.79	.75	.80	.77	.74	.72
3.0	.81	.73	.67	.79	.72	.66	.76	.70	.65	.74	.68	.64	.71	.67	.63	.61
4.0	.72	.63	.57	.71	.63	.56	.68	.61	.56	.66	.60	.55	.64	.58	.54	.52
5.0	.64	.56	.49	.63	.55	.49	.61	.54	.48	.59	.53	.48	.57	.52	.47	.45
6.0	.58	.49	.43	.57	.49	.43	.55	.48	.42	.54	.47	.42	.52	.46	.42	.40
7.0	.53	.44	.38	.52	.44	.38	.50	.43	.38	.49	.42	.37	.48	.42	.37	.35
8.0	.48	.40	.34	.47	.39	.34	.46	.39	.34	.45	.38	.33	.44	.38	.33	.31
9.0	.44	.36	.31	.44	.36	.30	.42	.35	.30	.41	.35	.30	.40	.34	.30	.28
10.0	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.27	.37	.32	.27	.26



UTLED-6-S15W-4K

S/MH(C0/180) = 1.22
 S/MH(C90/270) = 1.18
 Lumens: 950.782 W
 Nominal Power: 14W
 Efficacy: 73.48 lm/W

Candlepower

y	C0	C45	C90	C135	C180	C225	C270	C315
5	362.1	358.9	358.5	360.1	362.8	362.8	362.7	362.6
10	355.5	351.3	352.3	353.2	359.0	360.8	362.7	358.6
15	345.5	341.0	339.2	343.9	350.5	355.1	354.5	351.6
20	332.6	325.2	326.0	329.1	338.8	343.7	346.3	339.0
25	316.1	308.3	308.7	312.9	323.6	331.1	331.8	325.2
30	297.1	289.1	287.4	293.2	304.6	314.7	316.7	307.6
35	275.7	265.2	263.9	269.6	281.1	294.8	296.3	287.1
40	252.1	241.8	240.4	244.8	255.9	273.1	275.9	265.7
45	225.5	215.1	213.4	216.9	228.2	247.3	251.7	240.7
50	196.8	188.4	186.5	188.9	198.8	221.1	227.6	215.7
55	165.4	158.4	157.2	167.8	167.8	191.3	200.2	187.3
60	131.8	127.7	127.9	126.9	135.5	161.2	173.1	158.1
65	97.38	95.49	95.12	94.96	102.2	126.7	144.0	125.7
70	62.29	64.17	63.33	61.84	69.86	95.60	113.8	92.16
75	29.34	34.77	42.03	31.87	36.48	62.45	84.20	57.36
80	2.378	12.01	17.73	10.71	7.549	30.63	53.62	25.15
85	0	0	0	0.0022	0	5.066	0	2.824
90	0	0	0	0	0	0	0	0

Zonal Lumen Summary

y	φ zone	φ total	llum, lum
0- 5	8.675	8.675	0.91,0.91
5- 10	25.68	34.35	3.61,3.61
10- 15	41.74	76.09	8,8
15- 20	56.19	132.3	13.9,13.9
20- 25	68.60	200.9	21.1,21.1
25- 30	78.42	279.2	29.4,29.4
30- 35	85.38	364.7	38.4,38.4
35- 40	89.20	453.9	47.7,47.7
40- 45	89.90	543.8	57.2,57.2
45- 50	87.35	621.1	66.4,66.4
50- 55	81.68	712.8	75.75
55- 60	72.97	785.8	82.6,82.6
60- 65	61.62	847.4	89.1,89.1
65- 70	47.86	895.3	94.2,94.2
70- 75	32.64	927.9	97.6,97.6
75- 80	17.75	945.6	99.5,99.5
80- 85	5.098	950.7	100,100
85- 90	0.0499	950.8	100,100

Coefficient of Utilization

pcc	80%			70%			50%			30%			10%			0
	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
pfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio						Coefficients of Utilisation (CU)									
0.0	1.19	1.19	1.19	1.16	1.16	1.16	1.11	1.11	1.11	1.06	1.06	1.06	1.02	1.02	1.02	1.00
1.0	1.05	1.01	.98	1.03	.99	.96	.99	.96	.93	.95	.92	.90	.91	.89	.88	.86
2.0	.92	.86	.80	.90	.84	.79	.87	.82	.78	.84	.79	.76	.81	.77	.74	.72
3.0	.81	.73	.67	.80	.72	.67	.77	.71	.65	.74	.69	.64	.72	.67	.63	.61
4.0	.72	.64	.57	.71	.63	.57	.68	.61	.56	.66	.60	.55	.64	.59	.55	.52
5.0	.65	.56	.49	.64	.55	.49	.61	.54	.49	.59	.53	.48	.58	.52	.48	.45
6.0	.58	.49	.43	.57	.49	.43	.56	.48	.43	.54	.47	.42	.52	.46	.42	.40
7.0	.53	.44	.38	.52	.44	.38	.51	.43	.38	.49	.42	.38	.48	.42	.37	.35
8.0	.48	.40	.34	.48	.40	.34	.46	.39	.34	.45	.38	.33	.44	.38	.33	.32
9.0	.44	.36	.31	.44	.36	.31	.43	.35	.31	.42	.35	.30	.41	.35	.30	.28
10.0	.41	.33	.28	.40	.33	.28	.39	.32	.28	.38	.32	.28	.38	.32	.27	.26

