

Catalog Number
Notes
Type

FEATURES & SPECIFICATIONS

INTENDED USE — The 2GTL_R LED Relight assembly is the ideal solution for renovating existing fluorescent lensed troffers, delivering improved quality of light and refreshing the space. 2GTLR delivers high efficiency and energy savings vs. existing fluorescent systems. The 2GTL_R Relight assembly is recommended for offices, restaurants, schools, hospitals, and other general lighting applications where existing 2x2 or 2x4 lensed troffers are currently in use.

CONSTRUCTION — Universal end brackets/driver assembly are constructed of aluminum for optimal thermal performance and are secured to the host fixture with provided tek screws. End brackets are painted white to match existing lensed troffer finish. The LED light engine panel is highly reflective white aluminum with plug-in connection to driver. A steel wiring connection cover is provided for use if required. Standard kit requires use of existing door frame/lens assembly.

OPTICS — LED light panel is designed to provide consistent, uniform lighting.

Mounting brackets optimize source-to-aperture distance.

ELECTRICAL — Long-life LEDs, coupled with high-efficiency drivers, provide extended service life. 2GTLR is rated to deliver L90 performance at 60,000 hours. eldoLED driver options deliver choice of dimming range, and choice of control, while assuring flicker-free, low current inrush, 89% efficiency and low EMI. Ballast disconnect is provided for quick installation.

INSTALLATION — After existing fluorescent components are removed from housing, universal end brackets with integral driver assembly are fastened in place with provided tek screws. Supply wiring connection is made with plug-in ballast disconnect. The LED panel plugs into the driver assembly and snaps into place between end brackets for consistent source-to-aperture positioning. LED boards include plug-in connectors for easy replacement or servicing. UL Classified as suitable for damp location and air-handling installations.

LISTINGS — UL/cUL classified for use in recessed fluorescent light fixtures. Installation per instructions will not impact existing fixture UL listing or air-handling capabilities. Tested to LM80 standards. DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/QPL to confirm which versions are qualified.

WARRANTY — 5-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at:

www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.

All values are design or typical values, measured under laboratory conditions at 25 °C.

Specifications subject to change without notice.

2GTL2R 2GTL4R

2' x 2' and 2' x 4' Relight
LED Retrofit Assembly



Specifications

Intended for installation in most existing 2x2 or 2x4 lensed troffers; 1x4 configurations are available



eldoLED®

ORDERING INFORMATION

Lead times will vary depending on options selected. Consult with your sales representative.

Example: 2GTL4R 40L EZ1 LP835

Series	Lumens ¹	Driver	Voltage	Color temperature
2GTL2R 2' x 2' retrofit	20L 2000 lumens 30L 3000 lumens 40L 4000 lumens	EZ1 eldoLED Dims to 1% (0-10 volt dimming)	(blank) MVOLT (120-277V)	LP835 82 CRI, 3500 K LP840 82 CRI, 4000 K
2GTL4R 2' x 4' retrofit	20L 2000 lumens 30L 3000 lumens 40L 4000 lumens 48L 4800 lumens 60L 6000 lumens 72L 7200 lumens			

Notes

1 Approximate lumen output.

2GTL4R Recessed LED Lighting, 2x4

Energy Comparison - 2x4 LED vs. T12 & T8				
System	Lamp type	Ballast factor	Input watts	Watts saved by using LED
LED - nominal 4000 lm	LED	1.0	39	---
4-lamp T12	F40T12	0.88	144	105
4-lamp T8	F32T8	0.88	110	71
3-lamp T12	F40T12	0.88	108	69
3-lamp T8	F32T8	0.88	90	51
2-lamp T12	F40T12	0.88	72	33

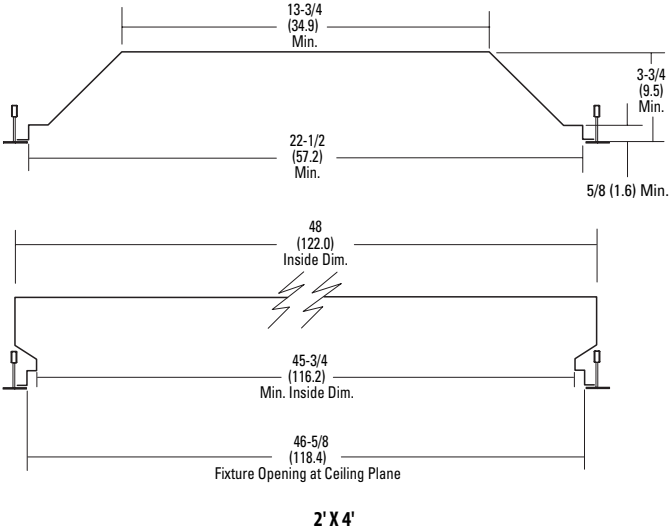
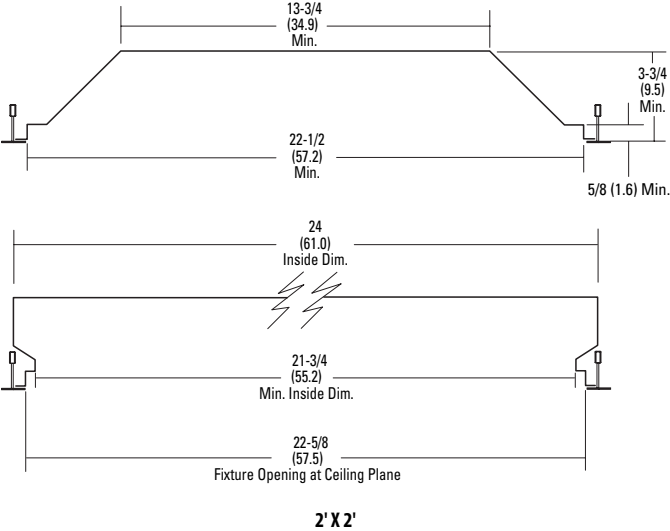
2 x 2 Performance Data			
Lumen package	Lumens	Input watts	LPW
20L LP835	1,944	19.7	99
20L LP840	1,990	19.7	101
30L LP835	2,541	27.8	91
30L LP840	2,603	27.8	94

2 x 4 Performance Data			
Lumen package	Lumens	Input watts	LPW
30L LP835	2,995	25.8	116
30L LP840	3,072	25.8	119
40L LP835	4,278	38.6	111
40L LP840	4,402	38.5	114
48L LP835	5,027	46.9	107
48L LP840	5,143	49.7	103
60L LP835	5,887	52.7	112
60L LP840	6,135	53.8	114

FIT COMPATIBILITY

The 2GTL_RT Relight assembly was engineered to upgrade recessed 2X2 or 2X4 lensed troffers from all major manufacturers. Dimensional requirements are below but Lithonia Lighting recommends a trial installation prior to purchasing project quantities.

Relight assemblies are designed to fit most recessed fixtures mounted in T-grid installations.

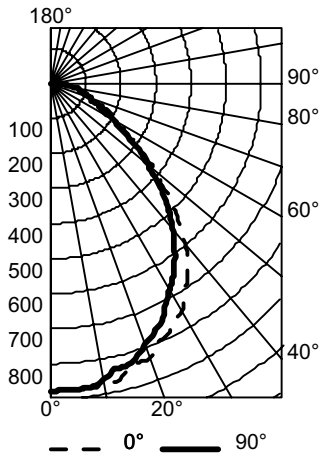


Dimensions are inches (centimeters) unless otherwise noted.

2GTL4R Recessed LED Lighting, 2x4

PHOTOMETRICS

2GTL2R 20L EZ1 LP835, 1944 delivered lumens, test no. LTL3105P0, tested in accordance to IESNA LM-79



CP Summary

	0°	90
0°	878	878
5°	877	876
15°	844	833
25°	791	748
35°	680	617
45°	496	459
55°	290	275
65°	168	154
75°	85	85
85°	41	42
90	1	1

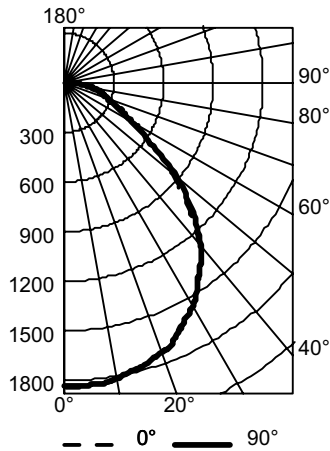
Coefficients of Utilization

ROR	pw	80%			70%			50%		
		70%	50%	30%	50%	30%	10%	50%	30%	10%
		70%	50%	30%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111	111
1	110	106	102	103	100	97	99	96	94	
2	101	94	88	92	86	81	88	84	80	
3	93	84	76	82	75	70	79	73	68	
4	86	75	67	74	66	60	71	65	60	
5	80	68	59	67	59	53	65	58	52	
6	74	62	53	61	53	47	59	52	47	
7	69	56	48	55	48	42	54	47	42	
8	64	52	44	51	43	38	50	43	38	
9	60	48	40	47	39	34	46	39	34	
10	57	44	36	43	36	31	43	36	31	

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	672	34.5	34.5
0° - 40°	1073	55.2	55.2
0° - 60°	1682	86.5	86.5
0° - 90°	1944	100.0	100.0
90° - 180°	0	0.0	0.0
0° - 180°	1944	100.0	100.0

2GTL4R 40L EZ1 LP835, 4278 delivered lumens, test no. LTL3102P0, tested in accordance to IESNA LM-79



CP Summary

	0°	90
0°	1836	1836
5°	1834	1833
15°	1786	1781
25°	1654	1647
35°	1420	1417
45°	1059	1102
55°	649	637
65°	388	356
75°	209	227
85°	79	100
90	5	7

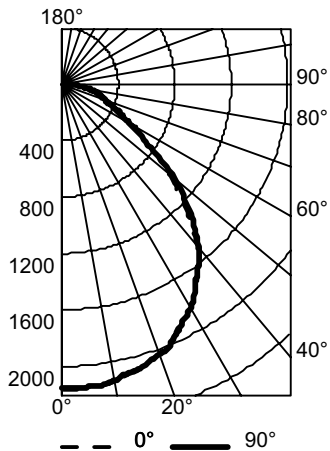
Coefficients of Utilization

ROR	pw	80%			70%			50%		
		70%	50%	30%	50%	30%	10%	50%	30%	10%
		70%	50%	30%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111	111
1	110	105	101	103	99	96	99	96	93	
2	101	93	87	91	86	81	88	83	79	
3	93	83	75	81	74	69	79	73	68	
4	85	74	66	73	65	60	71	64	59	
5	79	67	59	66	58	52	64	57	52	
6	73	61	52	60	52	46	58	51	46	
7	68	55	47	55	47	41	53	46	41	
8	64	51	43	50	42	37	49	42	37	
9	60	47	39	46	39	34	45	38	33	
10	56	43	36	43	36	31	42	35	30	

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	1426	33.3	33.3
0° - 40°	2299	53.7	53.7
0° - 60°	3661	85.6	85.6
0° - 90°	4279	100.0	100.0
90° - 180°	0	0.0	0.0
0° - 180°	4279	100.0	100.0

2GTL4R 48L EZ1 LP835, 5027 delivered lumens, test no. LTL3102P4, tested in accordance to IESNA LM-79



CP Summary

	0°	90
0°	2157	2157
5°	2155	2154
15°	2099	2093
25°	1944	1935
35°	1668	1665
45°	1244	1295
55°	762	748
65°	455	419
75°	246	267
85°	93	117
90	6	9

Coefficients of Utilization

ROR	pw	80%			70%			50%		
		70%	50%	30%	50%	30%	10%	50%	30%	10%
		70%	50%	30%	50%	30%	10%	50%	30%	10%
0	119	119	119	116	116	116	111	111	111	111
1	110	105	101	103	99	96	99	96	93	
2	101	93	87	91	86	81	88	83	79	
3	93	83	75	81	74	69	79	73	68	
4	85	74	66	73	65	60	71	64	59	
5	79	67	59	66	58	52	64	57	52	
6	73	61	52	60	52	46	58	51	46	
7	68	55	47	55	47	41	53	46	41	
8	64	51	43	50	42	37	49	42	37	
9	60	47	39	46	39	34	45	38	33	
10	56	43	36	43	36	31	42	35	30	

Zonal Lumen Summary

Zone	Lumens	% Lamp	% Fixture
0° - 30°	1676	33.3	33.3
0° - 40°	2702	53.7	53.7
0° - 60°	4302	85.6	85.6
0° - 90°	5028	100.0	100.0
90° - 180°	0	0.0	0.0
0° - 180°	5028	100.0	100.0