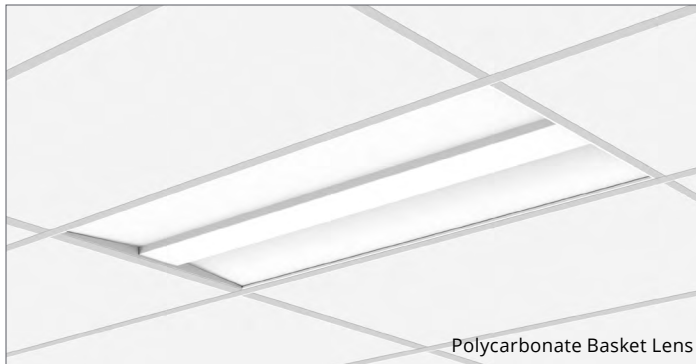


CARLISLE TC5

LED . RECESSED . DIRECT



PART #:	
PREP BY:	DATE:
PROJECT:	QTY:
NOTES:	
APPROVAL SIGNATURE:	DATE (DD/MM/YYYY):

PERFORMANCE SUMMARY @ 3500K

		1 x 4			2 x 2			2 x 4		
		L	W	E	L	W	E	L	W	E
PCB Polycarbonate Basket Lens	L1	3047	23.3	131	2527	20.7	122	3045	22.1	138
	L2	3539	26.6	133	3060	25	122	4068	29.2	139
	L3	4071	30.6	133	3547	29.1	122	5049	36.8	137
	L4	5053	38.2	132	4052	33.7	120	6564	47.9	137
	L5	7005	54.4	129	4576	38.7	118	8074	60.6	133
Color Rendering ¹		80+ CRI								
L80 Estimate		≥ 50,000 hrs								

¹ See page 2 for complete Light Level Performance chart and 90 CRI Lumen Adjustment Factor chart.

FEATURES

- high performance, classically designed architectural troffer
- delivers balanced amount of light to work stations and walls
- ideal ambient lighting for offices, schools, hospitals and retail applications
- Up to 139 lm/W
- CRI 80+ standard (CRI 90+ optional)
- Rated to deliver L80 performance ≥ 50,000
- IC rated

ORDERING LOGIC

Example Part Number: TC5-2L35K-24-PCB24-W-L21-T-4-90

TC5										
1	2	3	4	5	6	7	8	9	10	11
1. SERIES TC5	2. COLOR TEMP 2L30K 3000K 2L35K 3500K 2L40K 4000K 2LTUN Tunable White* (2700 - 6500K) 90 CRI is available under OPTIONS	3. SIZE 14 1 x 4 ft 22 2 x 2 ft 24 2 x 4 ft	4. OPTICS PCB Polycarbonate Basket Lens PCB70 Polycarbonate Basket Lens with decorative side rails PCB24 Polycarbonate Basket Lens with rectangular printed basket overlay and decorative side rails	5. FINISH W White AM Antimicrobial White Paint C Custom Finish*	6. LIGHT LEVEL / DRIVER L1 L2 L3 L4 L5	7. CIRCUITRY 1 1 Circuit EM Emergency / Night Light* B Battery Pack	8. MOUNTING T Recessed T-bar Recessed Drywall Mounting Kit is available under OPTIONS	9. VOLTAGE 3 347V 4 UNV (120 - 277V)	10. CONTROLS* / SENSORS* CLM Connected Lighting Module _ None (leave space empty)	11. OPTIONS 90 90 CRI, High R9 DK14 Drywall Mounting Kit 1x4 DK22 Drywall Mounting Kit 2x2 DK24 Drywall Mounting Kit 2x4 AIR Air In / Air Return* _ None (leave space empty)

*Consult factory.

Select Driver:

- FD** Factory standard 0-10V, dimming to 1%
- LHE** Lutron H-Series Hi-lume 1% EcoSystem LED Driver
- LA2** Lutron A-Series Hi-lume 1% 2-wire LED Driver
- L5E** Lutron 5-Series EcoSystem LED Driver

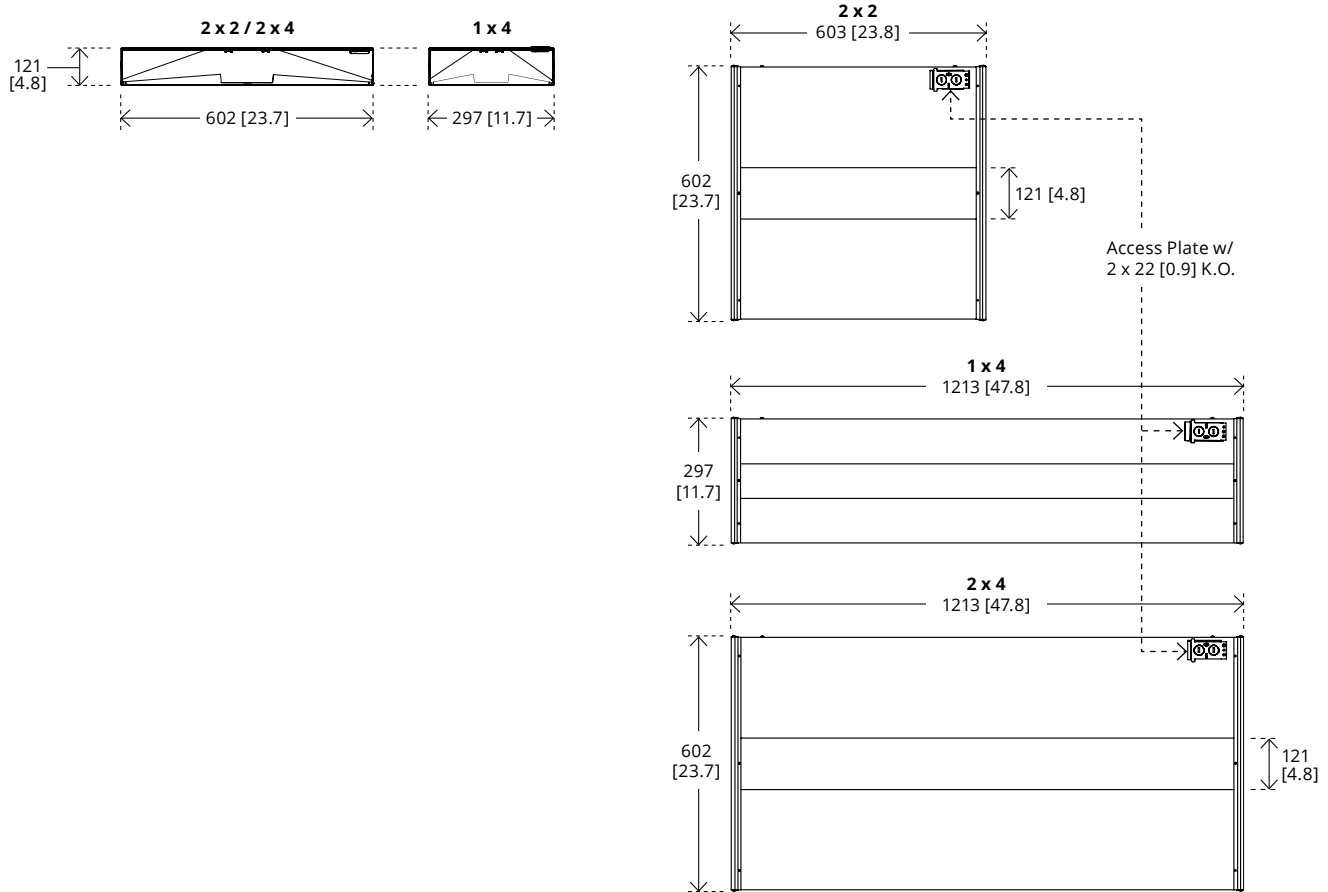
Light Level Performance at 3500K

Optics	Light Level	1 x 4			2 x 2			2 x 4		
		Lumens	Wattage	Efficacy (lm/W)	Lumens	Wattage	Efficacy (lm/W)	Lumens	Wattage	Efficacy (lm/W)
PCB Lens Only	L1	3047	23.3	131	2527	20.7	122	3045	22.1	138
	L2	3539	26.6	133	3060	25	122	4068	29.2	139
	L3	4071	30.6	133	3547	29.1	122	5049	36.8	137
	L4	5053	38.2	132	4052	33.7	120	6564	47.9	137
	L5	7005	54.4	129	4576	38.7	118	8074	60.6	133
PCB70 Lens with Rails	L1	2843	23.2	123	2381	20.7	115	2911	22.2	131
	L2	3302	26.6	124	2883	25	115	3889	29.3	133
	L3	3799	30.5	125	3341	29.1	115	4826	36.7	131
	L4	4715	38.1	124	3818	33.6	114	6273	47.9	131
	L5	6536	53.7	122	4310	38.7	111	7718	60.6	127
PCB24 Lens with Overlay and Rails	L1	2608	23.2	112	2117	20.7	102	2710	22.2	122
	L2	3029	26.6	114	2564	25	103	3620	29.3	124
	L3	3484	30.5	114	2972	29.1	102	4493	36.7	122
	L4	4324	38.1	113	3395	33.6	101	5840	47.9	122
	L5	5994	53.7	112	3834	38.7	99	7185	60.6	119

Lumen Adjustment Factor

Color Temp	80 CRI	90 CRI
3000K	0.984	0.873
3500K	1.000	0.875
4000K	1.032	0.879

CROSS SECTIONS & DIMENSIONS



SPECIFICATIONS

Due to the Continuous Improvement Policy at Metalumen, we reserve the right to change our specifications without notice.

<p>Housing: Die-formed, code gauge pre-painted, high-reflectance white steel housing. Precision formed steel reflector. Wiring access plate and knockout is provided on end plate.</p> <p>Optical System: White translucent single-piece Polycarbonate diffuser lens is standard. Decorative rails and</p>	<p>rectangular printed overlay is optional.</p> <p>CRI: 80+ CRI</p> <p>Lumen Maintenance: At an ambient operating temperature of 35°C, the LED lifetime expectancy is ≥ 50 000hrs at L80.</p> <p>Finish: White, polyester powder painted finish is standard.</p>	<p>Mounting: This luminaire has been designed to fit 9/16" and 15/16" T-bar. Holes provided for chain-mounting support to building structure. Integral earthquake clips are provided for additional support.</p> <p>Electrical: Long life LEDs coupled with high efficiency drivers provide quality</p>	<p>illumination.</p> <p>Drivers: Standard low voltage dimming (0-10V).</p> <p>Approvals: cULus listed. IC rated.</p> <p>Environment: Suitable for dry or damp locations.</p>
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WARRANTY

Metalumen will warrant defective luminaires for 5 years from date of purchase. Warranty is valid if luminaire is installed and used according to specification. If defective, Metalumen will send replacement boards or drivers at no cost along with detailed replacement instructions and instructions on how to return defective components to Metalumen.

PHOTOMETRIC DATA - 3500K, 80 CRI, PCB

Optics: **Polycarbonate basket lens**
 IES File: **TC5-2L35K-14-PCB-W-L3**
 Lumens: **4071** Wattage: **30.6**
 Efficacy: **133**

ZONAL LUMEN SUMMARY

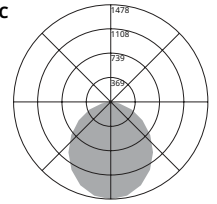
Zone	Lumens	%Fixt
0-90	4071	100
90-180	0	0
0-180	4071	100

LUMINANCE DATA (CD/M2)

Vertical Angle	Horizontal Angle		
	0	45	90
45	3384	3545	3599
55	3143	3360	3426
65	2865	3165	3232
75	2478	2958	2980
85	2131	2876	2855

PHOTOMETRIC CURVE

100% Down



Optics: **Polycarbonate basket lens**
 IES File: **TC5-2L35K-22-PCB-W-L3**
 Lumens: **3547** Wattage: **29.1**
 Efficacy: **122**

ZONAL LUMEN SUMMARY

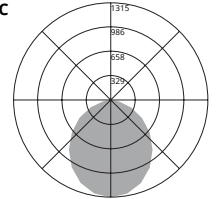
Zone	Lumens	%Fixt
0-90	3547	100
90-180	0	0
0-180	3547	100

LUMINANCE DATA (CD/M2)

Vertical Angle	Horizontal Angle		
	0	45	90
45	2980	3077	3164
55	2762	2903	3016
65	2508	2711	2862
75	2117	2537	2762
85	1727	2479	2788

PHOTOMETRIC CURVE

100% Down



Optics: **Polycarbonate basket lens**
 IES File: **TC5-2L35K-24-PCB-W-L3**
 Lumens: **5049** Wattage: **36.8**
 Efficacy: **137**

ZONAL LUMEN SUMMARY

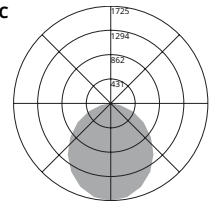
Zone	Lumens	%Fixt
0-90	5049	100
90-180	0	0
0-180	5049	100

LUMINANCE DATA (CD/M2)

Vertical Angle	Horizontal Angle		
	0	45	90
45	2010	2155	2233
55	1886	2086	2191
65	1741	2030	2174
75	1542	2046	2263
85	1378	2643	3117

PHOTOMETRIC CURVE

100% Down



PHOTOMETRIC DATA - 3500K, 80 CRI, PCB70

Optics: **Polycarbonate basket lens with side rails**
 IES File: **TC5-2L35K-14-PCB70-W-L3**
 Lumens: **3799** Wattage: **30.5**
 Efficacy: **125**

ZONAL LUMEN SUMMARY

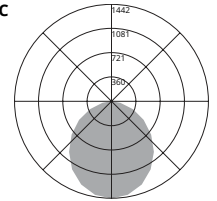
Zone	Lumens	%Fixt
0-90	3799	100
90-180	0	0
0-180	3799	100

LUMINANCE DATA (CD/M2)

Vertical Angle	Horizontal Angle		
	0	45	90
45	3324	3328	3284
55	3100	3092	3025
65	2836	2818	2724
75	2459	2474	2301
85	2117	2235	1968

PHOTOMETRIC CURVE

100% Down



Optics: **Polycarbonate basket lens with side rails**
 IES File: **TC5-2L35K-22-PCB70-W-L3**
 Lumens: **3341** Wattage: **29.1**
 Efficacy: **115**

ZONAL LUMEN SUMMARY

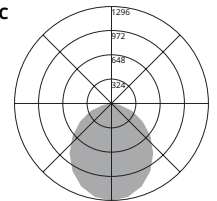
Zone	Lumens	%Fixt
0-90	3341	100
90-180	0	0
0-180	3341	100

LUMINANCE DATA (CD/M2)

Vertical Angle	Horizontal Angle		
	0	45	90
45	2936	2906	2909
55	2721	2689	2692
65	2468	2437	2446
75	2074	2154	2166
85	1673	1974	1973

PHOTOMETRIC CURVE

100% Down



Optics: **Polycarbonate basket lens with side rails**
 IES File: **TC5-2L35K-24-PCB70-W-L3**
 Lumens: **4826** Wattage: **36.7**
 Efficacy: **131**

ZONAL LUMEN SUMMARY

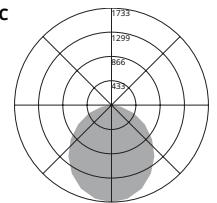
Zone	Lumens	%Fixt
0-90	4826	100
90-180	0	0
0-180	4826	100

LUMINANCE DATA (CD/M2)

Vertical Angle	Horizontal Angle		
	0	45	90
45	2034	2089	2122
55	1914	1989	2021
65	1771	1873	1911
75	1575	1769	1812
85	1413	1874	1960

PHOTOMETRIC CURVE

100% Down



Photometric performance is measured and scaled in accordance with IESNA LM-79.

PHOTOMETRIC DATA - 3500K, 80 CRI, PCB24

Optics: **Polycarbonate basket lens with overlay and side rails**
 IES File: **TC5-2L35K-14-PCB24-W-L3**
 Lumens: **3484** Wattage: **30.5**
 Efficacy: **114**

ZONAL LUMEN SUMMARY

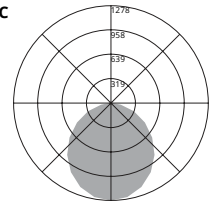
Zone	Lumens	%Fixt
0-90	3484	100
90-180	0	0
0-180	3484	100

LUMINANCE DATA (CD/M2)

Vertical Angle	Horizontal Angle		
	0	45	90
45	3032	3066	3087
55	2859	2870	2874
65	2648	2631	2602
75	2339	2297	2146
85	2051	2018	1717

PHOTOMETRIC CURVE

100% Down



Optics: **Polycarbonate basket lens with overlay and side rails**
 IES File: **TC5-2L35K-22-PCB24-W-L3**
 Lumens: **2972** Wattage: **29.1**
 Efficacy: **102**

ZONAL LUMEN SUMMARY

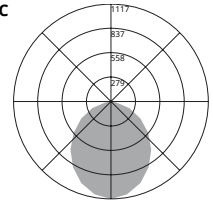
Zone	Lumens	%Fixt
0-90	2972	100
90-180	0	0
0-180	2972	100

LUMINANCE DATA (CD/M2)

Vertical Angle	Horizontal Angle		
	0	45	90
45	2217	2470	2526
55	1963	2226	2272
65	1527	1910	1938
75	1060	1676	1673
85	1060	1676	1673

PHOTOMETRIC CURVE

100% Down



Optics: **Polycarbonate basket lens with overlay and side rails**
 IES File: **TC5-2L35K-24-PCB24-W-L3**
 Lumens: **4493** Wattage: **36.7**
 Efficacy: **122**

ZONAL LUMEN SUMMARY

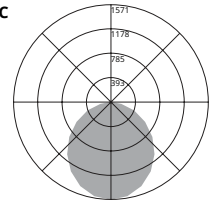
Zone	Lumens	%Fixt
0-90	4493	100
90-180	0	0
0-180	4493	100

LUMINANCE DATA (CD/M2)

Vertical Angle	Horizontal Angle		
	0	45	90
45	1868	1941	1994
55	1768	1859	1921
65	1646	1770	1845
75	1476	1700	1789
85	1338	1824	1973

PHOTOMETRIC CURVE

100% Down



Photometric performance is measured and scaled in accordance with IESNA LM-79.