PROJECT	Job Name	Ca	atalog Number	
INFORMATION	Fixture Type	Αι	Approved by	

MILLENIUM DOWNLIGHT

Luminaires for High Abuse Applications

HADL4 SERIES

PRODUCT FEATURES:

- » 4" sealed, recessed downlight with a flush trim; round or square aperture
- » 850 2,400 lm with multiple distribution, lens and color options
- » 1% Dimming via 0-10V or DALI-2 control

» Peace of Mind Guarantee® against breakage

SPECIFICATIONS

HEAT SINK: Die-cast aluminum with external radial fins for natural convection.

ROUGH-IN FRAME: 18-gauge die-formed, corrosion-resistant steel. Vertically adjustable collar accommodates ceiling thicknesses up to 1.5", adjustable post-installation. Adjustable mounting bars for installation with wood and steel frame joists and T-grid ceiling systems spaced up to 24" on center. Quick-access junction box accessible post-installation from above and below ceiling. Includes (5) 1/2" knock-outs to allow straight conduit runs.

TRIM/HOUSING SECTION: IP-rated housing section incorporates the heat sink, LED module, optics and lower trim. Flush lens trim secured with three (Round) or four (Square) Torx® tamperresistant, captive fasteners. Closed-cell gasketing at ceiling flange. See Trim Ordering Information for available options.

OPTICAL: Clear tempered-glass upper lens. 1/8" clear polycarbonate flush lens at ceiling trim with continuous seal to trim ring. Available with various reflector finishes. See Ordering Information for available options.

ELECTRICAL: LED source available in multiple CCT and CRI combinations with a maximum 3-step MacAdam variation allowance. See Trim Ordering Information for available options. 120-277VAC or 347VAC, 50/60Hz electrical input with serviceable constant current driver (<20% THD, >0.90 PF). Minimum 85% driver efficiency. Standard 0-10V dimming with 1-100% range and dim-to-dark capabilities; 0.2mA maximum source current. Optional eldoLED ECOdrive DALI-2/LEDcode2 driver with 1-100% range.

PHOTOMETRICS: Photometry tested to the IESNA LM-79-08 standard by an ILAC/ISO17025 accredited laboratory. For photometric information, go to www.kenall.com.

WARRANTY: Limited five (5) year LED warranty. Peace of Mind Guarantee against breakage.

LISTINGS: Luminaire is certified to UL standards by Intertek Testing Laboratory for non-IC and Wet Location installations. IP65 rating per IEC60598. Optional CCEA compliance.



ORDERING INFORMATION (EX: HADL4S-FF-5FW-11L-40K8-CS-G-RIG4S-277-DIM1-LEL)

TRIM							ROUGH-IN				
Model	Trim Style	Trim Finish	Lamp Power	Lamp Color	Reflector Finish	Flush Lens Type	Rough-In Input Voltage Driver Typ	e Options			
	FF		_			G					
Model											
	High Abuse - Rou			Lamp Color			Rough-In				
HADL4S 4"	High Abuse - Squ	lare			K / 80 CRI min.		RIG4 4" High Abuse Rough-In - Round				
					K / 90 CRI min.		RIG4S 4" High Abuse Rough-In - Square				
Trim Style					K / 80 CRI min.						
FF Flush	Lens (With Faste	ners)			K / 90 CRI min.		Input Voltage				
				40K8 4000	K / 80 CRI min.		120 120VAC, 50/60Hz				
Trim Finish				40K9 4000	K / 90 CRI min.		277 277VAC, 50/60Hz				
2FW Cold	-Rolled Steel in Fla	at White		50K8 5000	K / 80 CRI min.		347† 347VAC, 60Hz				
5BR Type	304 Stainless Ste	el with 4B Brush	ed Finish								
5FW Type	304 Stainless Ste	el in Flat White		Reflector Finish	ı		Driver Type				
XBR Type	316 Stainless Ste	el with 4B Brush	ed Finish	FW Flat White			DIM1 0-10V Dimming to 1% with Dim-to	p-Dark			
XFW Type	316 Stainless Ste	el in Flat White		CD Clear Diffuse			DALI DALI-2/LEDcode2 Dimming to 1% without Dim-to-Da				
				CS Clear Spec	ular (square only)		5				
Lamp Power				CSS Clear Sem	i-Specular (round or	nly)	Options				
	/att LED					,,	LEL Emergency Battery Backup with Rem	ote Test Switch			
23L* 23 W				Flush Lens Type	2		(0°C min ambient)				
				G 1/8" Clear	r Polycarbonate		FS Fuse & Holder				
					,		CCEA CCEA Approved				







 N/A with DALI Driver Type. N/A with LEL and CCEA option
Must be installed with a minimum 24" on-center spacing, 12" from wall, and have 6" clearance above the

Trim/Housing



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HADL4 SERIES

PERFORMANCE

	Optic			1	Initial Delivered Lumens, By Lamp Color					F #0	Input	TM-21	TM-21							
Aperture	Trim Style	Reflector Finish	Lens Type	Lamp Power	30K8	30K9	35K8	35K9	40K8	40K9	50K8	Efficacy (lm/W)	Power (W)	Reported L90 (hrs)	Reported L70 (hrs)					
		(D)		11L	1,201	975	1,229	1,011	1,236	1,031	1,251	73 - 93	13	>55,000	>55,000					
			CD CSS G FW	23L	2,333	1,894	2,387	1,962	2,401	2,003	2,429	69 - 89	27	52,000	>55,000					
Round FF		<u> </u>		11L	1,217	988	1,246	1,024	1,253	1,045	1,268	74 - 95	13	>55,000	>55,000					
	rr	CSS		23L	2,364	1,919	2,419	1,989	2,433	2,030	2,462	70 - 90	27	52,000	>55,000					
		EVA/		11L	1,140	926	1,167	959	1,174	979	1,187	69 - 89	13	>55,000	>55,000					
		FVV		23L	2,214	1,798	2,266	1,863	2,279	1,901	2,306	66 - 85	27	52,000	>55,000					
		CD		11L	1,026	833	1,050	863	1,056	881	1,069	62 - 80	13	>55,000	>55,000					
					23L	1,993	1,618	2,040	1,677	2,051	1,711	2,075	59 - 76	27	52,000	>55,000				
Causas	FF (6	EE	FF			65	FF 66		11L	1,201	975	1,229	1,010	1,236	1,031	1,250	73 - 93	13	>55,000	>55,000
Square FF	rr	CS	G	23L	2,332	1,893	2,386	1,962	2,400	2,002	2,428	69 - 89	27	52,000	>55,000					
		EVA/		11L	1,055	856	1,079	887	1,086	906	1,098	64 - 82	13	>55,000	>55,000					
		FW		23L	2,048	1,663	2,096	1,723	2,108	1,759	2,133	61 - 78	27	52,000	>55,000					

Subject to change without notice. Visit www.kenall.com for ies files and additional information.

	HADL4-FF-rrrr-	23L-40K8-CSS-G		HADL4S-FF-rrr	r-23L-40K8-CS-G		
Round Aperture Candela Curve	Initial center beam foot-candles	Beam diameter (ft)	Distance to illuminated plane (ft)	Initial center beam foot-candles	Beam diameter (ft)	Square Aperture Candela Curve	
1509	147.5	2.5	5'	189.2	3.5	1182	
3019	102.4	3.0	6'	131.4	4.2	2365	
4528	75.2	3.5	7'	96.5	4.9	3547 /	
	57.6	4.0	8'	73.9	5.6		
$ \langle \rangle / H$	45.5	4.5	9'	58.4	6.3		
	36.9	5.0	10'	47.3	7.0		
Spacing Criteria: 0.72	foot	Spacing Criteria: 0.64					
Beam Angle: 28		Beam Angle: 39					

	HADL4-FF-rrrr-	23L-40K8-CD-G		HADL4S-FF-rrr	r-23L-40K8-CD-G	
Round Aperture Candela Curve	Initial center beam foot-candles	Beam diameter (ft)	Distance to illuminated plane (ft)	Initial center beam foot-candles	Beam diameter (ft)	Square Aperture Candela Curve
839	134.3	5.2	5'	124.3	4.6	777
1678	93.2	6.3	6'	86.3	5.5	1553
2518	68.5	7.3	7'	63.4	6.4	2330 /
	52.5	8.4	8'	48.5	7.3	
$ \times / \uparrow +$	41.4	9.4	9'	38.4	8.2	
	33.6	10.5	10'	31.1	9.1	
Spacing Criteria: 0.74 foot-candle multipliers for 30K8(.96), 30K9(.79), 35K8(.99), 35K9(.82), 40K9(.83), 50K8(1.01)						Spacing Criteria: 0.79
Beam Angle: 55		Beam Angle: 49				



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MILLENIUM DOWNLIGHT

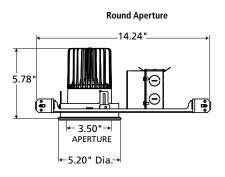
Luminaires for High Abuse Applications

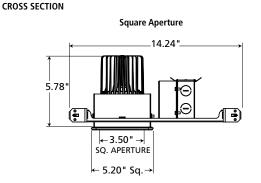
HADL4 SERIES

PERFORMANCE

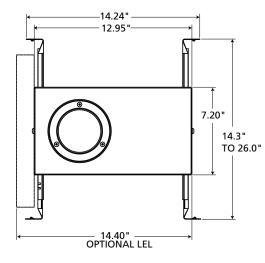
	HADL4-FF-rrrr-	23L-40K8-FW-G		HADL4S-FF-rrr	r-23L-40K8-FW-G	Square Aperture Candela Curve	
Round Aperture Candela Curve	Initial center beam foot-candles	Beam diameter (ft)	Distance to illuminated plane (ft)	Initial center beam foot-candles	Beam diameter (ft)		
607	97.2	5.4	5'	96.4	4.8	602	
1215	67.5	6.5	6'	66.9	5.8	1205	
1822	49.6	7.6	7'	49.2	6.8	1807	
	38.0	8.7	8'	37.7	7.7		
$ \times / \uparrow +$	30.0	9.7	9'	29.8	8.7		
	24.3	10.8	10'	24.1	9.7		
Spacing Criteria: 0.88	foot	8(1.01)	Spacing Criteria: 0.85				
Beam Angle: 57	Beam diameter is where foot-candles drop to 50% of maximum					Beam Angle: 52	

DIMENSIONAL DATA

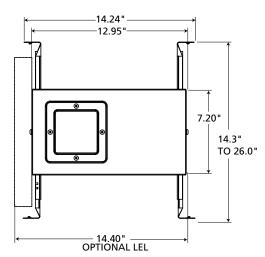




BOTTOM VIEW



RECOMMENDED CEILING CUTOUT: 4.875" DIA.



RECOMMENDED CEILING CUTOUT: 4.875" X 4.875"



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