PROJECT	Job Name	Ca	Catalog Number
INFORMATION	Fixture Type	Ar	Approved by

470nm (Blue)

MEDMASTER NARROW SPECTRUM

Luminaires for Behavioral Health Applications

BHDL SERIES

PRODUCT FEATURES:

- » 6" sealed, recessed downlight with flush lens trim
- » Peace of Mind Guarantee® against breakage
- » Phosphor-converted 590nm Amber LED source provides higher lumen output and lifetime than native Amber sources
- » Suitable for circadian and other spectrally sensitive healthcare applications
- » 1% Dimming via 0-10V or DALI control
- » Ligature resistant construction

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 2", adjustable post-installation. Universal mounting brackets accept 3/4" and 1-1/2" lathers channel, 1/2" EMT conduit and hanger bars. Quick-access junction box accessible post-installation from above and below ceiling. Includes (4) 1/2" and (2) 3/4" knock-outs to allow straight conduit runs. Listed for (8) 12AWG, 90°C conductors and feed-thru branch wiring. Provided with FMC with electrical quick-connect to Trim Section.

TRIM/HOUSING SECTION: IP-rated housing section incorporates the heat sink, LED module, optics and lower trim. Flush lens trim secured with four (4) Torx® tamper-resistant, captive fasteners. Anti-microbial finish standard on all exposed painted surfaces. See trim ordering information for available options.

OPTICAL: Diffused tempered-glass upper lens. Available with various reflector distribution patterns and finishes. Flush lens trim options include a clear lens. See distribution and reflector finish ordering information for available options.

ELECTRICAL: Phosphor-converted (PC) LED source provides Amber light with a 590nm nominal peak wavelength. Phosphor-converted InGaN-based source provides a higher output and efficacy as well as longer lifetime compared to native amber (AllnGaP-based) source for applications where a broader spectrum is acceptable. Native Blue LED option with 470nm nominal peak wavelength. 120-277VAC, 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; 165μA max. source current. Optional eldoLED ECOdrive DALI 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 compliant. Ligature resistant construction













ORDERING INFORMATION (EX: BHDL6-FF-2FW-12PA-W-CSS-G-RIG6-DV-DIM1)

Model	Trim	Style	Trim Finish	Lamp Power	Distril	oution	Reflector Finish	Flush Lens Type
BHD	L6	FF_						
Trim St	tyle				.Dist	ribution	1	
FF I	Flush Lens (W	ith Fast	eners - IP65)		M	M	edium	
					W	W	/ide	
Trim Fi	nish							
2FW	Cold-Rolled	Steel i	n Flat White		Refle	ctor Fi	nish	
5BR	Type 304 St	tainless	Steel with 4B	Brushed Finish	FW	Flat W	hite	
5FW	Type 304 St	tainless	Steel in Flat W	/hite	CS	Clear S	Specular	
	,.				CSS	Clear S	Semi-Specular	
Lamp I	Power / Cold	or					•	
12PÅ			or-Converted A	mber LED	Flush	Lens T	ype	
18BL	18 Watt 4	470nm	Native Blue LE	D	G	1/8" C	lear Polycarbonate	
					9	1/4" (lear Polycarbonate	

Rough-In	Input Voltage	Driver Type	Options
RIG6			

590nm (Phosphor Amber)

 Input Voltage

 DV
 120-277V, 50/60Hz

 120
 120VAC, 50/60Hz

 277
 277VAC, 50/60Hz

Driver Type

DIM1 0-10V Dimming to 1%
DALI DALI Dimming to 1%

Options

LEL 7W Emergency Battery Backup with Remote Test Switch

S Fuse & Holder

CCEA CCEA Approved (specified voltage required)



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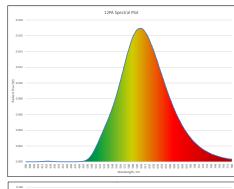
BHDL SERIES

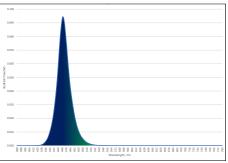
PHOTOMETRIC PERFORMANCE

Trim Style	Optic			Lamp	Lamp Color	Initial Delivered Lumens	Input Power	Estd. L70 LED Life
irim Style	Distribution	bution Reflector Finish Lens Type Code Lamp Color Initial Delivered Lumen		Initial Delivered Lumens	. (W)	(hrs)		
		CS	G	12PA	590nm PC Amber	785	15	72,000
				18BL	470nm Blue	275	21	60,000
			9	12PA	590nm PC Amber	767	15	72,000
				18BL	470nm Blue	269	21	60,000
			G	12PA	590nm PC Amber	737	15	72,000
	M	666		18BL	470nm Blue	258	21	60,000
	141	CSS		12PA	590nm PC Amber	720	15	72,000
			9	18BL	470nm Blue	252	21	60,000
		FW	G	12PA	590nm PC Amber	728	15	72,000
				18BL	470nm Blue	255	21	60,000
			9	12PA	590nm PC Amber	711	15	72,000
FF				18BL	470nm Blue	249	21	60,000
FF		CSS	G	12PA	590nm PC Amber	883	15	72,000
				18BL	470nm Blue	310	21	60,000
			9	12PA	590nm PC Amber	863	15	72,000
				18BL	470nm Blue	303	21	60,000
			G	12PA	590nm PC Amber	750	15	72,000
	W			18BL	470nm Blue	263	21	60,000
	VV		9	12PA	590nm PC Amber	733	15	72,000
				18BL	470nm Blue	257	21	60,000
			-	12PA	590nm PC Amber	831	15	72,000
			G	18BL	470nm Blue	291	21	60,000
		FW		12PA	590nm PC Amber	812	15	72,000
			9	18BL	470nm Blue	285	21	60,000

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

SPECTROPHOTOMETRIC PERFORMANCE





12PA						
Purity	0.993					
UV (<400nm)	0.003%					
Radiant Flux (≤560nm)	13.400%					
Bandwidth	101.6 nm					
Peak Wavelength	590 nm					

18BL						
Purity	0.9583					
Bandwidth	24.4 nm					
Peak Wavelength	470 nm					



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PHOTOMETRIC PERFORMANCE

	BHDL6-FF-1	2PA-W-CS-G		BHDL6-FF-12PA-M-CS-G			
Wide Distribution Candela Curve	Initial center beam footcandles	Beam diameter (ft)	Distance to illuminated plane (ft)	Initial center beam footcandles	Beam diameter (ft)	Medium Distribution Candela Curve	
185	5.7	7.3	5'	18.2	2.8	436	
370	3.9	8.8	6'	12.6	3.4	873	
739 554	2.9	10.2	7'	9.3	3.9	1309 /	
	2.2	11.7	8'	7.1	4.5		
	1.8	13.2	9'	5.6	5.0	$HT \setminus Y \mid$	
	1.4	14.6	10'	4.5	5.6		
Spacing Criteria: 1.38	Footcandle multipliers for 12PA (1.00); 18BL (0.35)					Spacing Criteria: 0.61	
Beam Angle: 72°	Beam diameter is where foot-candles drop to 50% of maximum				Beam Angle: 31°		

	BHDL6-FF-12PA-W-CSS-G			BHDL6-FF-12	2PA-M-CSS-G	
Wide Distribution Candela Curve	Initial center beam footcandles	Beam diameter (ft)	Distance to illuminated plane (ft)	Initial center beam footcandles	Beam diameter (ft)	Medium Distribution Candela Curve
134	6.18	5.7	5'	11.5	4.6	258
268	4.29	6.8	6'	8.0	5.5	511
536 402	3.15	7.9	7'	5.9	6.5	766 / 1022
330	2.42	9.1	8'	4.5	7.4	1022
	1.91	10.2	9'	3.6	8.3	$HH \setminus Y \mid$
	1.55	11.3	10'	2.9	9.2	
Spacing Criteria: 1.13	Footcandle multipliers for 12PA (1.00); 18BL (0.35)					Spacing Criteria: 0.77
Beam Angle: 59°	Beam diameter is where foot-candles drop to 50% of maximum					Beam Angle: 50°

DIMENSIONAL DATA

9L/18L/24L: 6.68" 32L/43L: 7.13" 17.45" 12.41"

CROSS SECTION

