

MEDMASTER DOWNLIGHT

Luminaires for Behavioral Health Applications

BHDL SERIES

PRODUCT FEATURES:

- » 6" sealed, recessed downlight with flush lens trim
- » Peace of Mind Guarantee™ against breakage
- » Delivered lumens: 628 - 5,305 lm
- » 1% Dimming via 0-10V, DALI or EcoSystem control



PROJECT INFORMATION

Job Name _____
 Fixture Type _____
 Catalog Number _____
 Approved by _____

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: High-Efficiency mixing chamber design with regressed diffused tempered-glass lens producing uniform light output. 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: LED array 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; 200µA max. source current. Optional eldoLED ECOdrive DALI driver with 1-100% range and Lutron Hi-Lume 1% EcoSystem LED driver with Soft-on, Fade-to-Black dimming technology.

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.

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.



ORDERING INFORMATION (EX: BHDL6-FF-2FW-22L-40K8-W-CSS-G-RIG6-DV-DIM1)

TRIM

Model	Trim Style	Trim Finish	Lamp Power	Lamp Color	Distribution	Reflector Finish	Flush Lens Type
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BHDL6

FF

Trim Style

FF Flush Lens (With Fasteners - IP65)

Trim Finish

2FW Cold-Rolled Steel in Flat White
5BR Type 304 Stainless Steel with 4B Brushed Finish
5FW Type 304 Stainless Steel in Flat White

Lamp Power

12L 12 Watt LED
22L 22 Watt LED
33L 33 Watt LED
55L†▲ 55 Watt LED

Lamp Color

30K8 3000K / 80 CRI min.
30K9 3000K / 90 CRI min.
35K8 3500K / 80 CRI min.
35K9 3500K / 90 CRI min.
40K8 4000K / 80 CRI min.
40K9 4000K / 90 CRI min.
50K8 5000K / 80 CRI min.

Distribution

M Medium
W Wide
WW* Wall Wash

Reflector Finish

FW Flat White
CS Clear Specular
CSS Clear Semi-Specular

Flush Lens Type

G 1/8" Clear Polycarbonate
9 1/4" Clear Polycarbonate

ROUGH-IN

Rough-In	Input Voltage	Driver Type	Options
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RIG6

Rough-In

RIG6 6" Rough-In

Input Voltage

DV 120-277V, 50/60Hz
120 120VAC, 60Hz
277 277VAC, 60Hz
347† 347VAC, 60Hz

Driver Type

DIM1 0-10V Dimming to 1%
DALI DALI Dimming to 1%
ECO1 Lutron Hi-Lume 1% EcoSystem®

Options

LEL Emergency Battery Backup with Remote Test Switch
FS Fuse & Holder
CCEA CCEA Approved (specified voltage required; n/a 347V)
9500 Torx® Screwdriver

* Available with CSS reflector finish only

† N/A with DALI or ECO1 Driver Type. N/A with LEL option

▲ Must be installed with a minimum 24" on-center spacing, 12" from wall, and have 3" clearance above the Trim/Housing



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PERFORMANCE

Distribution	Optic		Lamp Power	Initial Delivered Lumens, By Lamp Color							Efficacy (lm/W)	Input Power (W)	Estd. L70 LED Life (hrs)	
	Reflector Finish	Lens Type		30K8	30K9	35K8	35K9	40K8	40K9	50K8				
M	CS	G	12L	1,048	876	1,048	887	1,090	887	1,114	58 - 74	15	80,000	
			22L	1,716	1,435	1,716	1,452	1,785	1,452	1,823	60 - 76	24	85,000	
			33L	2,487	2,079	2,487	2,104	2,586	2,104	2,642	59 - 75	35	70,000	
			55L	4,436	3,709	4,436	3,754	4,613	3,754	4,713	60 - 76	62	75,000	
		9	12L	923	772	923	781	960	781	980	51 - 65	15	80,000	
			22L	1,511	1,263	1,511	1,279	1,571	1,279	1,605	53 - 67	24	85,000	
			33L	2,189	1,830	2,189	1,853	2,277	1,853	2,326	52 - 66	35	70,000	
			55L	3,905	3,265	3,905	3,305	4,061	3,305	4,149	53 - 67	62	75,000	
		CSS	G	12L	1,048	876	1,048	887	1,090	887	1,114	58 - 74	15	80,000
				22L	1,716	1,435	1,716	1,452	1,785	1,452	1,823	60 - 76	24	85,000
				33L	2,487	2,079	2,487	2,104	2,586	2,104	2,642	59 - 75	35	70,000
				55L	4,436	3,709	4,436	3,754	4,613	3,754	4,713	60 - 76	62	75,000
	9		12L	923	772	923	781	960	781	980	51 - 65	15	80,000	
			22L	1,511	1,263	1,511	1,279	1,571	1,279	1,605	53 - 67	24	85,000	
			33L	2,189	1,830	2,189	1,853	2,277	1,853	2,326	52 - 66	35	70,000	
			55L	3,905	3,265	3,905	3,305	4,061	3,305	4,149	53 - 67	62	75,000	
	FW		G	12L	972	813	972	822	1,011	822	1,033	54 - 69	15	80,000
				22L	1,591	1,331	1,591	1,347	1,655	1,347	1,691	55 - 70	24	85,000
				33L	2,305	1,928	2,305	1,951	2,398	1,951	2,450	55 - 70	35	70,000
				55L	4,113	3,439	4,113	3,481	4,277	3,481	4,370	55 - 70	62	75,000
		9	12L	856	715	856	724	890	724	909	48 - 61	15	80,000	
			22L	1,401	1,171	1,401	1,186	1,457	1,186	1,488	49 - 62	24	85,000	
			33L	2,030	1,697	2,030	1,718	2,111	1,718	2,156	48 - 62	35	70,000	
			55L	3,621	3,028	3,621	3,064	3,766	3,064	3,847	49 - 62	62	75,000	
W		CS	G	12L	1,180	986	1,180	998	1,227	998	1,253	67 - 86	15	80,000
				22L	1,932	1,615	1,932	1,635	2,009	1,635	2,052	67 - 86	24	85,000
				33L	2,799	2,340	2,799	2,369	2,911	2,369	2,974	67 - 85	35	70,000
				55L	4,993	4,175	4,993	4,225	5,193	4,225	5,305	67 - 86	62	75,000
	9		12L	1,039	868	1,039	879	1,080	879	1,104	59 - 75	15	80,000	
			22L	1,701	1,422	1,701	1,439	1,769	1,439	1,807	59 - 75	24	85,000	
			33L	2,464	2,060	2,464	2,085	2,562	2,085	2,618	59 - 75	35	70,000	
			55L	4,396	3,675	4,396	3,720	4,571	3,720	4,670	59 - 75	62	75,000	
	CSS		G	12L	1,001	837	1,001	847	1,041	847	1,064	57 - 73	15	80,000
				22L	1,639	1,371	1,639	1,387	1,705	1,387	1,742	57 - 73	24	85,000
				33L	2,375	1,986	2,375	2,010	2,470	2,010	2,524	57 - 72	35	70,000
				55L	4,238	3,543	4,238	3,586	4,407	3,586	4,502	57 - 73	62	75,000
		9	12L	881	737	881	746	917	746	937	50 - 64	15	80,000	
			22L	1,443	1,207	1,443	1,221	1,501	1,221	1,534	50 - 64	24	85,000	
			33L	2,091	1,748	2,091	1,770	2,175	1,770	2,222	50 - 63	35	70,000	
			55L	3,731	3,119	3,731	3,157	3,880	3,157	3,964	50 - 64	62	75,000	
		FW	G	12L	1,109	928	1,109	939	1,154	939	1,179	63 - 81	15	80,000
				22L	1,817	1,519	1,817	1,537	1,889	1,537	1,930	63 - 80	24	85,000
				33L	2,632	2,201	2,632	2,227	2,737	2,227	2,796	63 - 80	35	70,000
				55L	4,695	3,926	4,695	3,974	4,883	3,974	4,989	63 - 80	62	75,000
	9		12L	977	817	977	827	1,016	827	1,038	56 - 71	15	80,000	
			22L	1,599	1,337	1,599	1,353	1,663	1,353	1,699	56 - 71	24	85,000	
			33L	2,317	1,937	2,317	1,961	2,410	1,961	2,462	55 - 70	35	70,000	
			55L	4,134	3,456	4,134	3,498	4,299	3,498	4,392	56 - 71	62	75,000	

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PERFORMANCE

Optic			Lamp Power	Initial Delivered Lumens, By Lamp Color							Efficacy (lm/W)	Input Power (W)	Est. L70 LED Life (hrs)
Distribution	Reflector Finish	Lens Type		30K8	30K9	35K8	35K9	40K8	40K9	50K8			
WW	CSS	G	12L	853	713	853	722	887	722	906	48 - 60	15	80,000
			22L	1,396	1,168	1,396	1,182	1,452	1,182	1,484	49 - 62	24	85,000
			33L	2,023	1,692	2,023	1,712	2,104	1,712	2,150	48 - 61	35	70,000
			55L	3,609	3,018	3,609	3,054	3,754	3,054	3,835	49 - 62	62	75,000
		9	12L	751	628	751	635	781	635	798	42 - 53	15	80,000
			22L	1,229	1,028	1,229	1,040	1,278	1,040	1,306	43 - 54	24	85,000
			33L	1,781	1,489	1,781	1,507	1,852	1,507	1,892	43 - 54	35	70,000
			55L	3,177	2,657	3,177	2,689	3,304	2,689	3,376	43 - 54	62	75,000

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Wide Distribution Candela Curve	BHDL6-FF-12L-40K8-W-CS-G		Distance to illuminated plane (ft)	BHDL6-FF-12L-40K8-M-CS-G		Medium Distribution Candela Curve
	Initial center beam foot-candles	Beam diameter (ft)		Initial center beam foot-candles	Beam diameter (ft)	
	28.4	7.6	5'	86.4	3.2	
	22.5	7.8	6'	60.0	3.5	
	16.5	9.2	7'	44.1	4.0	
	12.6	10.5	8'	33.7	4.6	
	10.0	11.8	9'	26.7	5.2	
	8.1	13.0	10'	21.6	5.8	
Spacing Criteria: 1.4	foot-candle multipliers for 30K8(.96), 30K9(.80), 35K8(.96), 35K9(.81), 40K9(.81), 50K8(1.0)				Spacing Criteria: 0.62	
Beam Angle: 59°	Beam diameter is where foot-candles drop to 50% of maximum				Beam Angle: 34°	

Wide Distribution Candela Curve	BHDL6-FF-22L-40K8-W-CS-G		Distance to illuminated plane (ft)	BHDL6-FF-22L-40K8-M-CS-G		Medium Distribution Candela Curve
	Initial center beam foot-candles	Beam diameter (ft)		Initial center beam foot-candles	Beam diameter (ft)	
	46.6	7.6	5'	141.4	3.2	
	36.8	7.8	6'	98.2	3.5	
	27.0	9.2	7'	72.2	4.0	
	20.7	10.5	8'	55.2	4.6	
	16.4	11.8	9'	43.7	5.2	
	13.3	13.0	10'	35.4	5.8	
Spacing Criteria: 1.4	foot-candle multipliers for 30K8(.96), 30K9(.80), 35K8(.96), 35K9(.81), 40K9(.81), 50K8(1.0)				Spacing Criteria: 0.62	
Beam Angle: 59°	Beam diameter is where foot-candles drop to 50% of maximum				Beam Angle: 34°	

Wide Distribution Candela Curve	BHDL6-FF-33L-40K8-W-CS-G		Distance to illuminated plane (ft)	BHDL6-FF-33L-40K8-M-CS-G		Medium Distribution Candela Curve
	Initial center beam foot-candles	Beam diameter (ft)		Initial center beam foot-candles	Beam diameter (ft)	
	67.5	7.6	5'	204.9	3.2	
	53.4	7.8	6'	142.3	3.5	
	39.1	9.2	7'	104.5	4.0	
	29.9	10.5	8'	80.0	4.6	
	23.8	11.8	9'	63.2	5.2	
	19.3	13.0	10'	51.2	5.8	
Spacing Criteria: 1.36	foot-candle multipliers for 30K8(.96), 30K9(.80), 35K8(.96), 35K9(.81), 40K9(.81), 50K8(1.0)				Spacing Criteria: 0.36	
Beam Angle: 54°	Beam diameter is where foot-candles drop to 50% of maximum				Beam Angle: 21°	



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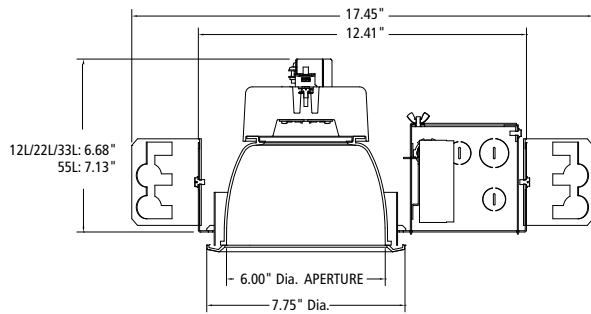
BHDL SERIES

PERFORMANCE

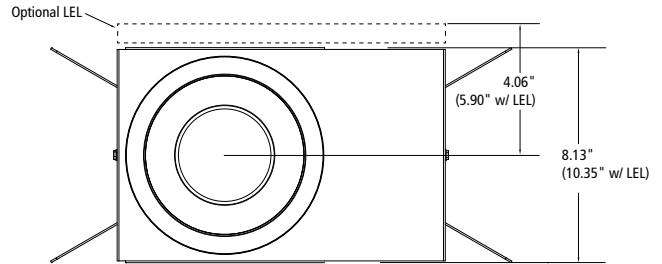
Wide Distribution Candela Curve	BHDL6-FF-55L-40K8-W-CS-G		Distance to illuminated plane (ft)	BHDL6-FF-55L-40K8-M-CS-G		Medium Distribution Candela Curve
	Initial center beam foot-candles	Beam diameter (ft)		Initial center beam foot-candles	Beam diameter (ft)	
	120.4	7.6	5'	365.5	3.2	
	95.2	7.8	6'	253.8	3.5	
	69.7	9.2	7'	186.5	4.0	
	53.4	10.5	8'	142.8	4.6	
	42.5	11.8	9'	112.8	5.2	
	34.4	13.0	10'	91.4	5.8	
Spacing Criteria: 1.36	foot-candle multipliers for 30K8(.96), 30K9(.80), 35K8(.96), 35K9(.81), 40K9(.81), 50K8(1.0)				Spacing Criteria: 0.36	
Beam Angle: 54°	Beam diameter is where foot-candles drop to 50% of maximum				Beam Angle: 21°	

DIMENSIONAL DATA

CROSS SECTION



BOTTOM VIEW



RECOMMENDED CEILING CUT-OUT: 7.38" Dia.



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