

Civil : 133 Court Street
Site Planning : Portsmouth, NH
Environmental : 03801-4413
Engineering :

July 6, 2017

Michael Behrendt, Town Planner
Town of Durham
8 Newmarket Road
Durham, NH 03824

Re: Site Plan Review and Conditional Use Permit Applications
Marketing Center for RiverWoods Durham
Assessor's Map 11, Lot 8-0
Durham, NH

Dear Mr. Behrendt,

A Site Plan Review application was submitted for the subject project on May 24, 2017. Revised plans were submitted June 8, 2017 as part of the Conditional Use Permit Application. Attached are updated documents for review and approval at the July 12, 2017 Planning Board meeting:

- Full size plans, five (5) sets
- 11"x17" plan sets w/color Site Plan, Sheet C-2, fifteen (15) sets
- Light cut sheets of the MRP LED luminaire manufactured by Lithonia proposed for the parking lot area light, 15 copies

The following updates have been made to the plans since the June 8th resubmission:

- a. Existing overhead utility lines are now shown
- b. Added a bike rack
- c. Minor revisions made to the proposed ADA ramp and walkway
- d. Added landing and step on north side of the barn
- e. Relocated the ADA parking space to the west side of the parking lot
- f. Added a business sign west of the ADA parking space and a hanging business sign at the barn. These will be further described in the Signage Master Plan being provided under separate cover.
- g. Existing business sign south of the south driveway is being removed
- h. Added "Do Not Enter" sign at driveway connection to Stone Quarry Drive
- i. Light fixture at the parking lot is identified and conduit added
- j. Added a loading zone at the north end of the parking lot
- k. Minor updates to the plan notes

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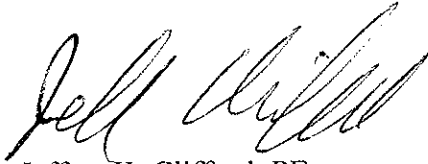
A representative for the applicant has contacted Mike Lynch regarding recycling. RiverWoods will work with the Durham Public Works Department to finalize a program for the site.

Altus Engineering has notified NHDOT - Division 6 of RiverWood's intent to lease space for the Marketing Center. At the request of Division 6, a Driveway Permit Application is being submitted to NHDOT to document the change of use.

Please contact me if you have any questions or need additional information

Sincerely,

ALTUS ENGINEERING, INC



Jeffrey K. Clifford, PE
Vice President

JKC/jkc/4836.005.lot 8.mb.ltr.doc

Enclosures

e-copies w/ enclosures:

Justine Vogel, The RiverWoods Group
Sharon Cutter Somers, Esquire, DTC
Pat Gleason and Heather George, Greystone
Alyssa Murphy, Manypenny Murphy Architecture
Robbi Woodburn, Woodburn and Associates



MRP LED LED Area Luminaire



Catalog Number
Notes
Type

Hit the Tab key or mouse over the page to see all interactive elements.

A+ Capable Luminaire

This item is an A+ capable luminaire, which has been designed and tested to provide consistent color appearance and system-level interoperability.

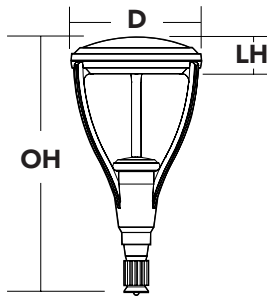
- All configurations of this luminaire meet the Acuity Brands' specification for chromatic consistency
- This luminaire is A+ Certified when ordered with DTL® controls marked by a **shaded background**. DTL DLL equipped luminaires meet the A+ specification for luminaire to photocontrol interoperability¹
- This luminaire is part of an A+ Certified solution for ROAM®2 or XPoint™ Wireless control networks, providing out-of-the-box control compatibility with simple commissioning, when ordered with drivers and control options marked by a **shaded background**¹

To learn more about A+, visit www.acuitybrands.com/aplus.

- See ordering tree for details.
- A+ Certified Solutions for ROAM require the order of one ROAM node per luminaire. Sold Separately: [Link to Roam](#); [Link to DTL DLL](#)

Specifications

EPA:	1.125 ft ² (0.105 m ²)
Luminaire Height:	6-3/8" (16.2 cm)
Overall Height:	32" (81.3 cm)
Diameter:	18" (45.7 cm)
Weight (max):	37.5 lbs (17 kg)



A+ Capable options indicated by this color background.

Ordering Information

EXAMPLE: MRP LED 42C 700 40K SR5 MVOLT DDBXD

MRP LED		Drive current		Color temperature		Distribution		Voltage		Mounting			
Series	LEDs												
MRP LED	42C 42 LEDs (one engine)	350	350mA	30K	3000K	SR2	Type II	MVOLT ¹	277 ¹	Shipped included			
		530	530mA	40K	4000K	SR3	Type III	120 ¹	347	(blank)	Fits 4"OD round pole	Shipped separately ²	
		700	700mA	50K	5000K	SR4	Type IV	208 ¹	480	Shipped separately ²			
		1000	1000mA (1A)			SR5	Type V	240 ¹		MRPT20	2-3/8" tenon slipfitter	MRPT35	4" tenon slipfitter
										MRPF3	3"OD round pole adapter		
										MRPF5	5"OD round pole adapter ³		
Control options						Other options			Finish (required)				
Shipped installed						SF	Single fuse (120, 277, 347V) ¹		DDBXD	Dark bronze	DDBTXD	Textured dark bronze	
PER	NEMA twist-lock receptacle only (no controls)			PNMTDD3	Part night, dim till dawn ⁷		DF	Double fuse (208, 240, 480V) ¹		DBLXD	Black	DBLBXD	Textured black
PER5	Five-wire receptacle only (no controls) ⁴			PNMTSD3	Part night, dim 5 hrs ⁷				DNAXD	Natural aluminum	DNATXD	Textured natural aluminum	
PER7	Seven-wire receptacle only (no controls) ⁴			PNMTGD3	Part night, dim 6 hrs ⁷				DWHXD	White	DWHGXD	Textured white	
DMG	0-10V dimming driver (no controls) ⁵			PNMT7D3	Part night, dim 7 hrs ⁷								
BL30	Bi-level switched dimming, 30% ^{6,7}												
BL50	Bi-level switched dimming, 50% ^{6,7}												



Ordering Information

Accessories

Ordered and shipped separately.

DLL127F 1.5 JU	Photocell - SSL twist-lock (120-277V) ⁸
DLL347F 1.5 CUL JU	Photocell - SSL twist-lock (347V) ⁸
DLL480F 1.5 CUL JU	Photocell - SSL twist-lock (480V) ⁸
DSHORT SBK U	Shorting cap ⁸
MRPT20 DDBXD U	2-3/8" tenon slipfitter (specify finish)
MRPT25 DDBXD U	2-7/8" tenon slipfitter (specify finish)
MRPT30 DDBXD U	3-1/2" tenon slipfitter (specify finish)
MRPT35 DDBXD U	4" tenon slipfitter (specify finish)
MRPF3 DDBXD U	3" OD round pole adapter (specify finish)
MRPF5 DDBXD U	5" OD round pole adapter (specify finish) ⁸

For more control options, visit [DTL](#) and [ROAM](#) online.

NOTES

- MVOLT driver operates on any line voltage from 120-277V (50/60 Hz). Single fuse (SF) requires 120 or 277 voltage option. Double fuse (DF) requires 208 or 240 voltage option.
- Also available as a separate accessory; see Accessories information at left.
- Maximum pole wall thickness is 0.156".
- If ROAM® node required, it must be ordered and shipped as a separate line item from Acuity Brands Controls.
- Not available with 347 or 480V.
- Requires an additional switched line.
- Dimming driver standard. Not available with 347V, 480V, SF, DF, PERS or PER7.
- Requires luminaire to be specified with PER option. Ordered and shipped as a separate line item.

Performance Data

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

LEDs	Drive Current (mA)	System Watts	Dist. Type	40 K (4000 K, 70 CRI)				
				Lumens	B	U	G	LPW
42C (42 LEDs)	530	75W	SR2	6,605	1	2	1	88
			SR3	6,581	1	1	2	88
			SR4	6,537	1	1	2	87
			SR5	6,959	3	1	3	93
	700	100W	SR2	8,026	2	2	2	80
			SR3	7,997	1	2	2	80
			SR4	7,943	1	2	2	79
			SR5	8,456	3	2	3	85
	1000	151W	SR2	9,885	2	2	2	65
			SR3	9,848	2	2	2	65
			SR4	9,782	2	2	2	65
			SR5	10,414	4	2	4	69

Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient		Lumen Multiplier
0°C	32°F	1.06
10°C	50°F	1.04
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
40°C	104°F	0.96

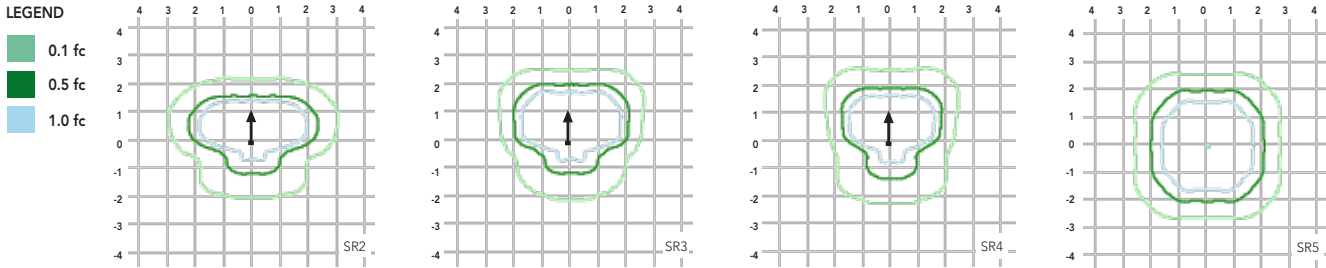
Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the **MRP LED 42C 700** platform in a **25°C ambient**, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	0.96	0.92	0.85

Isofootcandle plots are considered to be representative of available optical distributions.



FEATURES & SPECIFICATIONS

INTENDED USE

Streets, walkways, parking lots and surrounding areas.

CONSTRUCTION

Single-piece die-cast aluminum housing with nominal wall thickness of .012". Die-cast top access doorframe has impact-resistant, tempered glass lens (3/16" thick). Doorframe is fully gasketed with one-piece tubular silicone.

FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a minimum 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum and white. Available in textured and non-textured finishes.

OPTICS

Precision acrylic refractive optics for optimum light distribution through the flat glass lens. Light engines are available in standard 3000K (70 CRI) or optional 4000K (70 CRI) or 5000K (70 CRI) configurations.

ELECTRICAL

Light engine consists of 42 high-efficacy LEDs mounted to a metal-core circuit board and aluminum heat sink, ensuring optimal thermal management and long life. Class 1 electronic driver has a power factor >90%, THD <20%, and has an expected life of 100,000 hours with <1% failure rate. Easily-serviceable surge protection device meets a minimum Category C Low for operation (per ANSI/IEEE C62.41.2).

INSTALLATION

Standard post-top mounting configuration fits into a 4" OD open pole top (round pole only). Multiple options and accessories are available for other mounting needs.

LISTINGS

CSA certified to U.S. and Canadian standards. Luminaire is IP65 rated. Rated for -40°C minimum ambient. **U.S. Patent No. D556,357.**

WARRANTY

5-year limited warranty. Complete warranty terms located at: www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx.

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.