

Haystack Phase I - Luminaire Schedule

Label	Qty.	Manufacturer/Fixture	Fixture Number	Type	Color Temp	Voltage <sup>2</sup>	Watts	Finish	Ht. <sup>1</sup>	Pole Number
Parking Lot										
V1	3	Beacon - Viper Small	VPS-24L-55-3K7-4F-UNV-A3-BLT-7PR	4F	3000K	UNV <sup>2</sup>	80	BL	20'	RSA-B-F-20-50-A-1-B3-BL
V2	2	Beacon - Viper Small	VPS-24L-55-3K7-4W-UNV-A3-BLT-7PR	4W	3000K	UNV <sup>2</sup>	80	BL	20'	RSA-B-F-20-50-A-1-B3-BL
V3	1	Beacon - Viper Small	VPS-24L-55-3K7-5R-UNV-A3-BLT-7PR	5R	3000K	UNV <sup>2</sup>	80	BL	20'	RSA-B-F-20-50-A-1-B3-BL
Pedestrian										
OR1	19	Kim - Ouro Post Top	UR20-24L-25-3K7-3-UNV-PT23-BLS-7PR	3	3000K	UNV <sup>2</sup>	25	BLS	12'	PRA12-4125-FM-BL
OR2	15	Kim - Ouro Post Top	UR20-24L-25-3K7-4-UNV-PT23-BLS-7PR	4	3000K	UNV <sup>2</sup>	25	BLS	12'	PRA12-4125-FM-BL
OR3	8	Kim - Ouro Post Top	UR20-24L-25-3K7-4W-UNV-PT23-BLS-7PR	4W	3000K	UNV <sup>2</sup>	25	BLS	12'	PRA12-4125-FM-BL
OR4	5	Kim - Ouro Post Top	UR20-24L-25-3K7-5R-UNV-PT23-BLS-7PR	5R	3000K	UNV <sup>2</sup>	25	BLS	12'	PRA12-4125-FM-BL
OR5	15	Kim Lighting - Ouro	UR20-24L-25-3K7-5W-UNV-PT23-BLS-7PR	5W	3000K	UNV <sup>2</sup>	25	BLS	12'	PRA12-4125-FM-BL

Notes:  
<sup>1</sup> Mounting height equates between the light source and the ground planes for using calculation photometric analysis, cut poles as needed  
<sup>2</sup> Voltage to be verified by Electrical Engineer prior to ordering

Hinesburg Zoning Requirements for Lighting

Area	Max. Average Luminance		Max. Uniformity Ratio		Max. / Min. Ratio
	Ave. (fc)	Max. (fc)	Ave./Min. (fc)	Max./Min. (fc)	
Parking Lots, General Lighting	1.5	6.00	8:1		

Lighting Calculations

Type	Label	Name	Ave. (fc)	Max. (fc)	Min. (fc)	Ave./Min. (fc)	Max./Min. (fc)
Intersections	INT1	Intersection 1 - Drive Surface	1.4	2.1	0.3	4.8	7
	INT2	Intersection 2 - Drive Surface	1.5	2.2	0.5	3	4.4
	INT3	Intersection 3 - Drive Surface	1.2	2.2	0.3	3.8	7.3
	INT4	Isolated Intersection 4 - Drive Surface	1.3	2.3	0.4	3.3	5.8
Mid-Block Crossings	MB1	Mid-Block 1 - Drive Surface	1.3	1.9	0.9	1.5	2.1
		Mid-Block 1 - Drive Surface (5' Above Grade)	2	4.7	0.3	6.8	15.7
	MB2	Mid-Block 2 - Drive Surface	1.5	2	1.2	1.2	1.7
		Mid-Block 2 - Drive Surface (5' Above Grade)	2.1	4.7	0.3	7	15.7
	MB3	Mid-Block 3 - Drive Surface	1.5	2	1	1.5	2
		Mid-Block 3 - Drive Surface (5' Above Grade)	2	3.7	0.4	4.9	9.3
	MB4	Mid-Block 4 - Drive Surface	1.4	1.9	0.9	1.6	2.1
		Mid-Block 4 - Drive Surface (5' Above Grade)	2.2	4.8	0.3	7.23	16
	MB5	Mid-Block 5 - Drive Surface	1.5	2	0.9	1.6	2.2
		Mid-Block 5 - Drive Surface (5' Above Grade)	2.1	4	0.4	5.35	10
Parking Lots	PL1	Parking Lot 1 - Drive Surface	0.7	2.2	0.2	3.5	11
		Parking Lot 1 - Walkway	0.8	2	0.2	3.9	10
	PL2	Parking Lot 2 - Drive Surface	0.6	1.5	0.2	3.15	7.5
		Parking Lot 2 - Walkway	0.5	1.1	0.2	2.7	5.5
Roads	ST1	Roadway - Drive Surface	0.8	2.6	0.2	4.2	13
		Roadway - Pedestrian Areas & Bikeways	0.9	2.2	0.2	4.5	11

Footnotes:  
<sup>1</sup> Illuminance - All calculations are in Horizontal Footcandles (fc)  
<sup>2</sup> Walkway Lighting - Light Levels For Pedestrian Areas meet IESNA Recommendations Per (IESNA) Lighting For Exterior Environments (RP-33-99), which recommends a Minimum Maintained Average Horizontal Illuminance Level Of 0.5 Footcandles and a 4:1 Horizontal Average to Minimum Ratio. Intermediate Area Classification (IESNA) - Light Levels are specific to this Classification, which is defined as "Those areas of a Municipality often characterized by moderately heavy nighttime pedestrian activity such as in block having libraries, Community Recreation Centers, Large Apartment Buildings, Industrial Buildings, Or Neighborhood Retail Stores."  
<sup>3</sup> Isolated Intersections - Light Levels at Isolated Intersections, which are defined as an area in which two or more non continuously lighted roadways join or cross at the same level, meet IESNA Recommendations Per (IESNA) Lighting For Roadway Lighting (RP-8-14), which recommends a Minimum Horizontal Illuminance Level Of 0.4 Footcandles and a 8:1 Horizontal Average to Minimum Ratio for local roads with an R2 or R3 pavement classification for the intersection conflict zone.  
<sup>4</sup> Mid-Block Crossings - Light Levels for Mid-Block Crossings meet IESNA recommendations per ANSI/IES Roadway Lighting (RP-8-14), which recommends a vertical illuminance level of 2.0 Footcandles measured at 1.5m (5 ft) from the road surface to allow drivers to detect pedestrians in midblock crosswalks at adequate stopping distance under rural conditions.

- GENERAL LIGHTING NOTES:
- LIGHTING CALCULATIONS INCLUDE FUTURE LIGHT FIXTURES (\* PHASE 2 FIXTURES) IN ORDER TO MEET IESNA STANDARDS FOR THE FUTURE BUILD-OUT. FUTURE LIGHT FIXTURES WOULD NOT BE INSTALLED AS PART OF PHASE 1 AND ARE NOT LISTED IN THE LUMINAIRE SCHEDULE.
  - MOUNTING HEIGHT EQUATES BETWEEN THE LIGHT SOURCE AND THE GROUND PLANES FOR USING CALCULATION PHOTOMETRIC ANALYSIS, CUT POLES AS NEEDED
  - VOLTAGE TO BE VERIFIED BY ELECTRICAL ENGINEER PRIOR TO ORDERING
  - DRIVE CURRENT - REVIEW DRIVE CURRENT AND WATTAGE WITH ELECTRICAL ENGINEER AND CONTRACTOR BEFORE INSTALLATION
  - DIMMING TO BE VERIFIED BY ELECTRICAL ENGINEER PRIOR TO INSTALLATION. THE FIXTURE SHOULD BE SET AT THE PERCENTAGE (1/3 THE TOTAL POWER) AS SHOWN ON THE LIGHT SCHEDULE.
  - BASE MOUNT - SEE LIGHTING PLANS FOR THE FIXTURE'S ORIENTATION.
  - SEE LIGHTING PLANS AND DETAILS WITH SPECIFICATIONS FOR LIGHT FIXTURES, POLES, ARMS AND OTHER INFORMATION.

LEGEND

	PUBLIC ROAD FIXTURE
	PARKING LOT LIGHT
	PEDESTRIAN LIGHT
	BOLLARD
	CANOPY LIGHT
	PHASE 2 LIGHT FIXTURES
	1.00 CONTOUR LEVEL (fc)
	0.50 CONTOUR LEVEL (fc)
	0.20 CONTOUR LEVEL (fc)

PLAN  
 REVISED  
 06/17/2022

n/f  
 Blomstrann, Jan

